

TEST REPORT

FCC Sub6 n41(38) Test for TM15FNEUJL0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2502-FC087-R1

DATE OF ISSUE
April 8, 2025

Tested by
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Accredited by KOLAS, Republic of KOREA

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April 08, 2025

Applicant	LG Electronics Inc. 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM15FNEUJL0
Date of Test	December 9, 2024 ~ February 24, 2025
Location of Test	☒ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
FCC ID	BEJTM15FNEUJL0
FCC Classification	PCS Licensed Transmitter (PCB)
Test Standard Used	FCC Rule Part(s) : § 27
Test Results	PASS

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	February 24, 2025	Initial Release
1	April 08, 2025	Revised the Product Name.

Notice

Content

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA.
(KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	LG Electronics Inc.
Address:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
FCC ID:	BEJTM15FNEUJL0
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Telematics
Model(s):	TM15FNEUJL0
SCS(kHz):	30
Bandwidth(MHz):	20,30,40,50,60,70,80,90,100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM CP-OFDM: QPSK, 16 QAM, 64 QAM, 256 QAM
Tx Frequency:	2506.020 – 2679.990 : 20 MHz(Sub6 n41(38)) 2511.000 – 2674.980 : 30 MHz(Sub6 n41) 2516.010 – 2670.000 : 40 MHz(Sub6 n41) 2521.020 – 2664.990 : 50 MHz(Sub6 n41) 2526.000 – 2659.980 : 60 MHz(Sub6 n41) 2531.010 – 2655.000 : 70 MHz(Sub6 n41) 2536.020 – 2649.990 : 80 MHz(Sub6 n41) 2541.000 – 2644.980 : 90 MHz(Sub6 n41) 2546.010 – 2640.000 : 100 MHz(Sub6 n41)
Date(s) of Tests:	December 9, 2024 ~ February 24, 2025
Serial number:	Radiated : 501VIXV900165(NAD) Conducted : 410VIXV000305(NAD)
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41(38) (20)	2506.020 – 2679.990	17M9G7D	PI/2 BPSK	0.223	23.49
		17M9G7D	QPSK	0.223	23.49
		17M9W7D	16QAM	0.177	22.47
		17M9W7D	64QAM	0.126	20.99
		17M9W7D	256QAM	0.080	19.03
Sub6 n41(30)	2511.000 – 2674.980	26M9G7D	PI/2 BPSK	0.239	23.79
		26M9G7D	QPSK	0.231	23.64
		26M9W7D	16QAM	0.185	22.66
		26M8W7D	64QAM	0.132	21.19
		26M9W7D	256QAM	0.083	19.21
Sub6 n41(40)	2516.010 – 2670.000	35M8G7D	PI/2 BPSK	0.229	23.59
		35M8G7D	QPSK	0.231	23.64
		35M8W7D	16QAM	0.179	22.54
		35M8W7D	64QAM	0.127	21.04
		35M8W7D	256QAM	0.081	19.09
Sub6 n41 (50)	2521.020 – 2664.990	45M9G7D	PI/2 BPSK	0.225	23.52
		45M8G7D	QPSK	0.226	23.55
		45M9W7D	16QAM	0.179	22.54
		45M9W7D	64QAM	0.128	21.06
		45M9W7D	256QAM	0.082	19.12
Sub6 n41 (60)	2526.000 – 2659.980	58M1G7D	PI/2 BPSK	0.224	23.50
		58M0G7D	QPSK	0.225	23.52
		58M0W7D	16QAM	0.172	22.36
		58M0W7D	64QAM	0.121	20.84
		58M0W7D	256QAM	0.078	18.92
Sub6 n41 (70)	2531.010 – 2655.000	64M6G7D	PI/2 BPSK	0.225	23.52
		64M5G7D	QPSK	0.223	23.49
		64M5W7D	16QAM	0.179	22.54
		64M5W7D	64QAM	0.131	21.16
		64M4W7D	256QAM	0.081	19.09
Sub6 n41 (80)	2536.020 – 2649.990	77M4G7D	PI/2 BPSK	0.229	23.59
		77M3G7D	QPSK	0.224	23.51
		77M3W7D	16QAM	0.179	22.54
		77M2W7D	64QAM	0.126	21.01
		77M2W7D	256QAM	0.081	19.08

Sub6 n41 (90)	2541.000 – 2644.980	87M0G7D	PI/2 BPSK	0.234	23.69
		86M9G7D	QPSK	0.230	23.62
		87M0W7D	16QAM	0.184	22.64
		86M9W7D	64QAM	0.131	21.18
		86M9W7D	256QAM	0.082	19.16
Sub6 n41 (100)	2546.010 – 2640.000	96M8G7D	PI/2 BPSK	0.226	23.55
		96M6G7D	QPSK	0.225	23.53
		96M6W7D	16QAM	0.169	22.27
		96M6W7D	64QAM	0.121	20.83
		96M5W7D	256QAM	0.077	18.86

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea**

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 . Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Channel Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna.

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW $\geq$ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $>$ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_d \text{ (dBm)} = P_g \text{ (dBm)} - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.
These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The spurious emissions is calculated by the following formula;

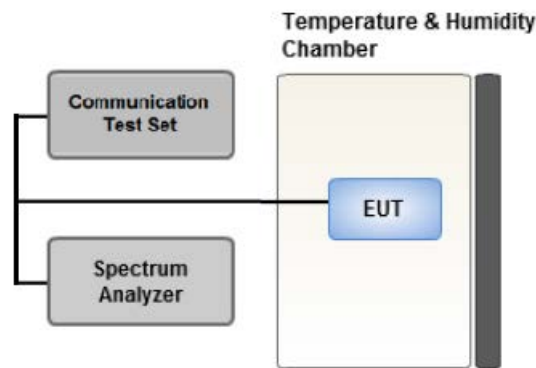
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

Where: P_g is the generator output power into the substitution antenna.

If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

$$\text{EIRP}_{(\text{dBm})} = \text{ERP}_{(\text{dBm})} + 2.15$$

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
 - for continuous transmissions, set to 1 ms,
 - or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk} .

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as P_{Avg} . Determine the P.A.R. from:

$$P.A.R. (dB) = P_{Pk} (dBm) - P_{Avg} (dBm) \quad (P_{Avg} = \text{Average Power} + \text{Duty cycle Factor})$$

Test Settings(Peak Power)

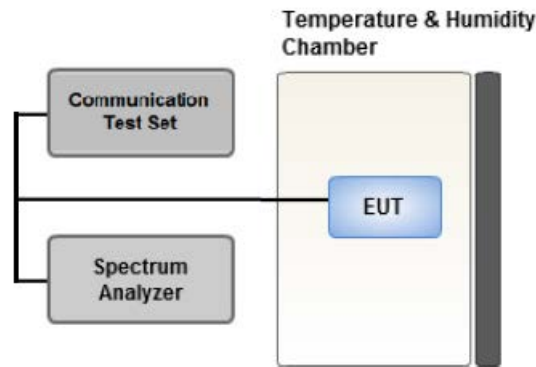
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

1. Set the RBW $\geq$ OBW.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq 2 \times$ OBW.
4. Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

Test Settings(Average Power)

1. Set span to $2 \times$ to $3 \times$ the OBW.
2. Set RBW $\geq$ OBW.
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time:
Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
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 period 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. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum 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 %.

3.5 OCCUPIED BANDWIDTH.



Test setup

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 power of a given emission.

The EUT makes a call to the communication simulator.

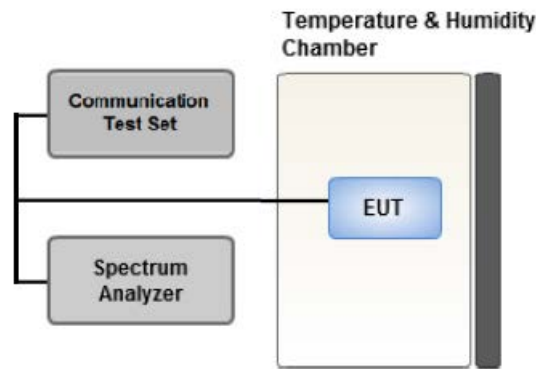
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

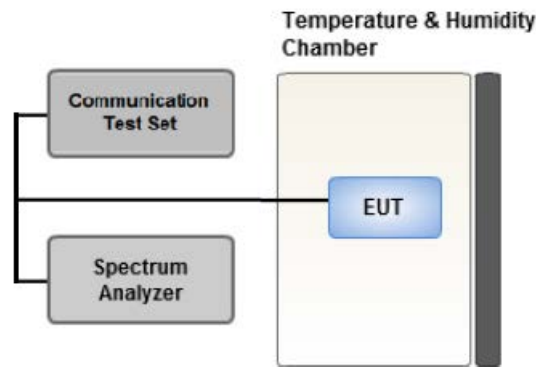
Test Overview

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.

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep $\geq$ 2 x Span / RBW

3.7 CHANNEL EDGE



Test setup

Test Overview

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 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.

Test Settings

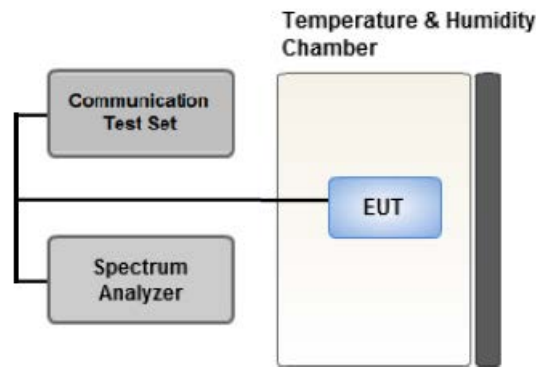
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. $VBW > 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

1. The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge,
2. $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer

Where Margin < 1 dB the emission level is either corrected by $10 \log(1 \text{ MHz} / \text{RB})$ or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.

The frequency stability of the transmitter is measured by:

1. Temperature:

The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.

2. Primary Supply Voltage:

- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
- 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.

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter.
Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode : SA Only
- JIG was used to test the EUT. (EUT + JIG)
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- Sub6 n41 (2 496 – 2 690 MHz, 20//30/40/50/60/80/90/100 MHz bandwidth) overlaps the entire frequency range of Sub6 n38 (2 570 - 2 620 MHz, 20 MHz bandwidth)
Therefore, test data provided in this report covers Sub6 n41 as well as Sub6 n38.
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		Y
Radiated Spurious Emissions	PI/2 BPSK	See Section 8.2		Y

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
Mode : SA Only
- JIG was used to test the EUT. (EUT + JIG)
- Sub6 n41 (2 496 – 2 690 MHz, 20//30/40/50/60/80/90/100 MHz bandwidth) overlaps the entire frequency range of Sub6 n38 (2 570 - 2 620 MHz, 20 MHz bandwidth)
Therefore, test data provided in this report covers Sub6 n38 as well as Sub6 n41.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	20, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Channel Edge	PI/2 BPSK	20	Low	1	0
			High	1	50
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		20, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	20, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/17/2025	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93022487	06/27/2025	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/19/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, $k=2$)
Frequency stability	28 (Confidence level about 95 %, $k=2$)

Parameter	Expanded Uncertainty ($\pm$ dB)
Block Edge	0.70 (Confidence level about 95 %, $k=2$)
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, $k=2$)
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, $k=2$)
Radiated Power	4.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

Note. The decision rule applies 'simple acceptance'

6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(m)(4)	■ $< 40 + 10\log_{10} (P[\text{Watts}])$ at Channel edges ■ $< 43 + 10\log_{10} (P[\text{Watts}])$ between 5 and X MHz from Channel edges ■ $< 55 + 10\log_{10} (P[\text{Watts}])$ beyond X MHz beyond from Channel edges ■ $< 43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See Note1</u>
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. See SAR Report
2. All conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(m)(4)	$< 55 + 10\log_{10} (P[\text{Watts}])$	PASS

Note:

1. Radiated tests were tested using 5G Wireless Tester.

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
channel	Freq.(MHz)						W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	H	0.483	26.84

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	H	0.456	26.59

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)			W	W	dBm	Size	Offset
2506.020	Sub6 n41(38) / 20 MHz [30 kHz]	PI/2 BPSK	-20.81	17.64	10.26	2.51	H	< 2.00	0.346	25.39	1	49
		QPSK	-21.19	17.26	10.26	2.51	H		0.317	25.01		
		16-QAM	-21.17	17.28	10.26	2.51	H		0.318	25.03		
		64-QAM	-21.78	16.67	10.26	2.51	H		0.277	24.42		
		256-QAM	-23.56	14.89	10.26	2.51	H		0.184	22.64		
2592.990		PI/2 BPSK	-20.55	18.46	10.30	2.55	H		0.418	26.21	1	1
		QPSK	-20.79	18.22	10.30	2.55	H		0.395	25.97		
		16-QAM	-21.06	17.95	10.30	2.55	H		0.372	25.70		
		64-QAM	-21.26	17.75	10.30	2.55	H		0.355	25.50		
		256-QAM	-23.31	15.70	10.30	2.55	H		0.221	23.45		
2679.990		PI/2 BPSK	-21.22	17.73	10.58	2.61	H		0.372	25.70	1	1
		QPSK	-21.37	17.58	10.58	2.61	H		0.359	25.55		
		16-QAM	-21.35	17.60	10.58	2.61	H		0.361	25.57		
		64-QAM	-21.74	17.21	10.58	2.61	H		0.330	25.18		
		256-QAM	-23.60	15.35	10.58	2.61	H		0.215	23.32		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)			W	W	dBm	Size	Offset
2511.000	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	-20.45	18.08	10.26	2.51	H	< 2.00	0.383	25.83	1	76
		QPSK	-20.58	17.95	10.26	2.51	H		0.372	25.70		
		16-QAM	-20.67	17.86	10.26	2.51	H		0.364	25.61		
		64-QAM	-21.09	17.44	10.26	2.51	H		0.330	25.19		
		256-QAM	-23.11	15.42	10.26	2.51	H		0.208	23.17		
2592.990		PI/2 BPSK	-20.34	18.67	10.30	2.55	H		0.439	26.42	1	1
		QPSK	-20.40	18.61	10.30	2.55	H		0.433	26.36		
		16-QAM	-20.50	18.51	10.30	2.55	H		0.423	26.26		
		64-QAM	-20.93	18.08	10.30	2.55	H		0.383	25.83		
		256-QAM	-22.89	16.12	10.30	2.55	H		0.244	23.87		
2674.980		PI/2 BPSK	-21.17	17.79	10.56	2.62	H	0.374	25.73	1	39	
		QPSK	-21.35	17.61	10.56	2.62	H	0.359	25.55			
		16-QAM	-21.27	17.69	10.56	2.62	H	0.366	25.63			
		64-QAM	-21.73	17.23	10.56	2.62	H	0.329	25.17			
		256-QAM	-23.77	15.19	10.56	2.62	H	0.206	23.13			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)			W	W	dBm	Size	Offset
2516.010	Sub6 n41 / 40 MHz [30 kHz]	Pl/2 BPSK	-20.09	18.48	10.26	2.53	H	< 2.00	0.418	26.21	1	104
		QPSK	-20.41	18.16	10.26	2.53	H		0.388	25.89		
		16-QAM	-20.37	18.20	10.26	2.53	H		0.392	25.93		
		64-QAM	-20.78	17.79	10.26	2.53	H		0.357	25.52		
		256-QAM	-22.80	15.77	10.26	2.53	H		0.224	23.50		
2592.990		Pl/2 BPSK	-20.17	18.84	10.30	2.55	H		0.456	26.59	1	1
		QPSK	-20.34	18.67	10.30	2.55	H		0.439	26.42		
		16-QAM	-20.59	18.42	10.30	2.55	H		0.414	26.17		
		64-QAM	-20.92	18.09	10.30	2.55	H		0.384	25.84		
		256-QAM	-22.82	16.19	10.30	2.55	H		0.248	23.94		
2670.000		Pl/2 BPSK	-21.22	17.74	10.55	2.62	H		0.369	25.67	1	53
		QPSK	-21.23	17.73	10.55	2.62	H		0.368	25.66		
		16-QAM	-21.31	17.65	10.55	2.62	H		0.361	25.58		
		64-QAM	-22.03	16.93	10.55	2.62	H		0.306	24.86		
		256-QAM	-23.77	15.19	10.55	2.62	H		0.205	23.12		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020		PI/2 BPSK	-20.24	18.36	10.26	2.54	H	< 2.00	0.406	26.08	1	131
		QPSK	-20.25	18.35	10.26	2.54	H		0.405	26.07		
		16-QAM	-20.45	18.15	10.26	2.54	H		0.386	25.87		
		64-QAM	-20.85	17.75	10.26	2.54	H		0.352	25.47		
		256-QAM	-23.01	15.59	10.26	2.54	H		0.214	23.31		
2592.990	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-20.40	18.61	10.30	2.55	H	< 2.00	0.433	26.36	1	1
		QPSK	-20.67	18.34	10.30	2.55	H		0.406	26.09		
		16-QAM	-20.67	18.34	10.30	2.55	H		0.406	26.09		
		64-QAM	-20.89	18.12	10.30	2.55	H		0.386	25.87		
		256-QAM	-23.12	15.89	10.30	2.55	H		0.231	23.64		
2664.990		PI/2 BPSK	-21.06	17.96	10.53	2.64	H	< 2.00	0.385	25.85	1	1
		QPSK	-21.16	17.86	10.53	2.64	H		0.376	25.75		
		16-QAM	-21.37	17.65	10.53	2.64	H		0.358	25.54		
		64-QAM	-21.79	17.23	10.53	2.64	H		0.325	25.12		
		256-QAM	-23.53	15.49	10.53	2.64	H		0.218	23.38		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-20.32	18.36	10.25	2.54	H	< 2.00	0.405	26.07	1	160
		QPSK	-20.43	18.25	10.25	2.54	H		0.395	25.96		
		16-QAM	-20.59	18.09	10.25	2.54	H		0.380	25.80		
		64-QAM	-20.89	17.79	10.25	2.54	H		0.355	25.50		
		256-QAM	-22.74	15.94	10.25	2.54	H		0.232	23.65		
2592.990		PI/2 BPSK	-20.45	18.56	10.30	2.55	H		0.428	26.31	1	1
		QPSK	-20.62	18.39	10.30	2.55	H		0.411	26.14		
		16-QAM	-20.61	18.40	10.30	2.55	H		0.412	26.15		
		64-QAM	-20.86	18.15	10.30	2.55	H		0.389	25.90		
		256-QAM	-23.06	15.95	10.30	2.55	H		0.234	23.70		
2659.980		PI/2 BPSK	-21.30	17.79	10.51	2.67	H		0.366	25.63	1	82
		QPSK	-21.46	17.63	10.51	2.67	H		0.352	25.47		
		16-QAM	-21.40	17.69	10.51	2.67	H		0.357	25.53		
		64-QAM	-21.72	17.37	10.51	2.67	H		0.332	25.21		
		256-QAM	-23.91	15.18	10.51	2.67	H		0.200	23.02		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)			W	W	dBm	Size	Offset
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-20.53	18.22	10.25	2.54	H	< 2.00	0.392	25.93	1	187
		QPSK	-20.82	17.93	10.25	2.54	H		0.366	25.64		
		16-QAM	-20.58	18.17	10.25	2.54	H		0.387	25.88		
		64-QAM	-21.11	17.64	10.25	2.54	H		0.343	25.35		
		256-QAM	-23.26	15.49	10.25	2.54	H		0.209	23.20		
2592.990		PI/2 BPSK	-20.18	18.83	10.30	2.55	H		0.455	26.58	1	1
		QPSK	-20.28	18.73	10.30	2.55	H		0.445	26.48		
		16-QAM	-20.45	18.56	10.30	2.55	H		0.428	26.31		
		64-QAM	-20.93	18.08	10.30	2.55	H		0.383	25.83		
		256-QAM	-22.64	16.37	10.30	2.55	H		0.258	24.12		
2655.000		PI/2 BPSK	-21.37	17.77	10.50	2.68	H		0.362	25.59	1	1
		QPSK	-21.53	17.61	10.50	2.68	H		0.349	25.43		
		16-QAM	-21.44	17.70	10.50	2.68	H		0.357	25.52		
		64-QAM	-21.92	17.22	10.50	2.68	H		0.319	25.04		
		256-QAM	-23.97	15.17	10.50	2.68	H		0.199	22.99		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	dBm	Size	Offset
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-20.34	18.50	10.25	2.54	H	< 2.00	0.418	26.21	1	108
		QPSK	-20.38	18.46	10.25	2.54	H		0.414	26.17		
		16-QAM	-20.65	18.19	10.25	2.54	H		0.389	25.90		
		64-QAM	-20.93	17.91	10.25	2.54	H		0.365	25.62		
		256-QAM	-23.29	15.55	10.25	2.54	H		0.212	23.26		
2592.990		PI/2 BPSK	-20.07	18.94	10.30	2.55	H		0.467	26.69	1	1
		QPSK	-20.08	18.93	10.30	2.55	H		0.466	26.68		
		16-QAM	-20.42	18.59	10.30	2.55	H		0.431	26.34		
		64-QAM	-20.74	18.27	10.30	2.55	H		0.400	26.02		
		256-QAM	-22.79	16.22	10.30	2.55	H		0.250	23.97		
2649.990		PI/2 BPSK	-21.12	18.08	10.48	2.69	H		0.386	25.87	1	108
		QPSK	-21.48	17.72	10.48	2.69	H		0.356	25.51		
		16-QAM	-21.36	17.84	10.48	2.69	H		0.366	25.63		
		64-QAM	-22.02	17.18	10.48	2.69	H		0.314	24.97		
		256-QAM	-24.00	15.20	10.48	2.69	H		0.199	22.99		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-20.51	18.40	10.25	2.53	H	< 2.00	0.409	26.12	1	122
		QPSK	-20.55	18.36	10.25	2.53	H		0.406	26.08		
		16-QAM	-20.56	18.35	10.25	2.53	H		0.405	26.07		
		64-QAM	-20.88	18.03	10.25	2.53	H		0.376	25.75		
		256-QAM	-23.03	15.88	10.25	2.53	H		0.229	23.60		
2592.990		PI/2 BPSK	-20.23	18.78	10.30	2.55	H		0.450	26.53	1	1
		QPSK	-20.36	18.65	10.30	2.55	H		0.437	26.40		
		16-QAM	-20.26	18.75	10.30	2.55	H		0.447	26.50		
		64-QAM	-20.68	18.33	10.30	2.55	H		0.406	26.08		
		256-QAM	-23.01	16.00	10.30	2.55	H		0.237	23.75		
2644.980		PI/2 BPSK	-21.42	17.80	10.47	2.68	H		0.362	25.59	1	1
		QPSK	-21.65	17.57	10.47	2.68	H		0.344	25.36		
		16-QAM	-21.65	17.57	10.47	2.68	H		0.344	25.36		
		64-QAM	-21.82	17.40	10.47	2.68	H		0.330	25.19		
		256-QAM	-23.94	15.28	10.47	2.68	H		0.203	23.07		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-20.38	18.58	10.25	2.53	H		0.427	26.30	1	136
		QPSK	-20.39	18.57	10.25	2.53	H		0.426	26.29		
		16-QAM	-20.42	18.54	10.25	2.53	H		0.423	26.26		
		64-QAM	-20.74	18.22	10.25	2.53	H		0.393	25.94		
		256-QAM	-22.93	16.03	10.25	2.53	H		0.237	23.75		
2592.990		PI/2 BPSK	-19.98	19.03	10.30	2.55	H	< 2.00	0.476	26.78	1	1
		QPSK	-20.20	18.81	10.30	2.55	H		0.453	26.56		
		16-QAM	-20.10	18.91	10.30	2.55	H		0.463	26.66		
		64-QAM	-20.51	18.50	10.30	2.55	H		0.422	26.25		
		256-QAM	-22.81	16.20	10.30	2.55	H		0.248	23.95		
2640.000		PI/2 BPSK	-21.20	18.06	10.45	2.68	H		0.383	25.83	1	1
		QPSK	-21.23	18.03	10.45	2.68	H		0.380	25.80		
		16-QAM	-21.34	17.92	10.45	2.68	H		0.371	25.69		
		64-QAM	-21.73	17.53	10.45	2.68	H		0.339	25.30		
		256-QAM	-23.74	15.52	10.45	2.68	H		0.213	23.29		

8.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>n41(38)</u>
■ Bandwidth:	<u>20 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>1 meter</u>
■ SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501204 (2506.020)	5 012.04	-55.83	10.91	-62.42	3.72	H	-55.23	-25.00	1	49
	7 518.06	-55.67	11.60	-58.04	4.61	H	-51.05	-25.00		
	10 024.08	-55.20	11.39	-54.45	5.47	H	-48.53	-25.00		
	12 530.10	-57.93	13.14	-54.39	6.10	H	-47.35	-25.00		
	15 036.12	-67.50	14.33	-49.67	6.74	H	-42.08	-25.00		
518598 (2592.990)	5 185.98	-53.95	11.18	-61.48	3.80	H	-54.10	-25.00	1	1
	7 778.97	-55.88	11.37	-56.44	4.70	H	-49.77	-25.00		
	10 371.96	-55.28	11.67	-54.80	5.55	H	-48.68	-25.00		
	12 964.95	-56.94	12.77	-52.10	6.35	H	-45.68	-25.00		
	15 557.94	-68.92	15.76	-50.57	6.89	H	-41.70	-25.00		
535998 (2679.990)	5 359.98	-55.92	11.58	-63.49	3.90	H	-55.81	-25.00	1	1
	8 039.97	-56.06	11.29	-56.05	4.80	H	-49.56	-25.00		
	10 719.96	-53.80	11.60	-53.65	5.64	H	-47.69	-25.00		
	13 399.95	-59.15	12.91	-51.81	6.38	H	-45.28	-25.00		
	16 079.94	-68.43	16.25	-52.10	7.02	H	-42.87	-25.00		

☐ NR Band: n41
☐ Bandwidth: 30 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502200 (2511.000)	5 022.00	-55.40	10.90	-61.88	3.69	H	-54.67	-25.00	1	76
	7 533.00	-56.47	11.62	-58.90	4.61	H	-51.89	-25.00		
	10 044.00	-52.86	11.38	-52.38	5.48	H	-46.48	-25.00		
	12 555.00	-57.77	13.11	-54.09	6.22	H	-47.20	-25.00		
	15 066.00	-66.13	14.40	-48.09	6.80	H	-40.49	-25.00		
518598 (2592.990)	5 185.98	-55.04	11.18	-62.57	3.80	H	-55.19	-25.00	1	1
	7 778.97	-55.45	11.37	-56.01	4.70	H	-49.34	-25.00		
	10 371.96	-55.28	11.67	-54.80	5.55	H	-48.68	-25.00		
	12 964.95	-58.66	12.77	-53.82	6.35	H	-47.40	-25.00		
	15 557.94	-69.42	15.76	-51.07	6.89	H	-42.20	-25.00		
534996 (2674.980)	5 349.96	-55.59	11.57	-62.63	3.85	H	-54.91	-25.00	1	39
	8 024.94	-56.28	11.27	-56.09	4.79	H	-49.61	-25.00		
	10 699.92	-54.77	11.61	-54.45	5.67	H	-48.51	-25.00		
	13 374.90	-58.58	12.95	-51.68	6.34	H	-45.07	-25.00		
	16 049.88	-68.62	16.21	-52.50	7.02	H	-43.31	-25.00		

☐ NR Band: n41
☐ Bandwidth: 40 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503202 (2516.010)	5 032.02	-56.80	10.90	-63.74	3.67	H	-56.51	-25.00	1	104
	7 548.03	-56.51	11.63	-58.89	4.63	H	-51.89	-25.00		
	10 064.04	-55.86	11.37	-55.33	5.47	H	-49.43	-25.00		
	12 580.05	-57.82	13.07	-54.10	6.25	H	-47.28	-25.00		
	15 096.06	-67.46	14.47	-49.70	6.81	H	-42.04	-25.00		
518598 (2592.990)	5 148.87	-56.57	11.18	-64.10	3.80	H	-56.72	-25.00	1	1
	7 723.31	-56.66	11.37	-57.22	4.70	H	-50.55	-25.00		
	10 297.74	-57.13	11.67	-56.65	5.55	H	-50.53	-25.00		
	12 872.18	-57.95	12.77	-53.11	6.35	H	-46.69	-25.00		
	15 446.61	-68.82	15.76	-50.47	6.89	H	-41.60	-25.00		
534000 (2670.000)	5 122.89	-57.10	11.56	-64.38	3.80	H	-56.62	-25.00	1	53
	7 684.34	-56.59	11.24	-56.59	4.77	H	-50.12	-25.00		
	10 245.78	-54.83	11.61	-54.45	5.71	H	-48.55	-25.00		
	12 807.23	-57.44	12.98	-50.89	6.38	H	-44.29	-25.00		
	15 368.67	-68.04	16.17	-51.36	7.02	H	-42.21	-25.00		

☐ NR Band: n41
☐ Bandwidth: 50 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504204 (2521.020)	5 042.04	-55.64	10.90	-62.31	3.68	H	-55.09	-25.00	1	131
	7 563.06	-55.87	11.64	-58.07	4.64	H	-51.07	-25.00		
	10 084.08	-53.86	11.36	-53.36	5.46	H	-47.46	-25.00		
	12 605.10	-57.13	13.02	-53.34	6.18	H	-46.50	-25.00		
	15 126.12	-67.09	14.55	-49.09	6.79	H	-41.33	-25.00		
518598 (2592.990)	5 185.98	-54.70	11.18	-62.23	3.80	H	-54.85	-25.00	1	1
	7 778.97	-55.14	11.37	-55.70	4.70	H	-49.03	-25.00		
	10 371.96	-56.32	11.67	-55.84	5.55	H	-49.72	-25.00		
	12 964.95	-57.78	12.77	-52.94	6.35	H	-46.52	-25.00		
	15 557.94	-68.59	15.76	-50.24	6.89	H	-41.37	-25.00		
532998 (2664.990)	5 329.98	-54.94	11.55	-62.48	3.77	H	-54.70	-25.00	1	1
	7 994.97	-56.94	11.22	-56.84	4.77	H	-50.39	-25.00		
	10 659.96	-55.97	11.61	-55.33	5.67	H	-49.39	-25.00		
	13 324.95	-58.47	13.03	-52.03	6.45	H	-45.45	-25.00		
	15 989.94	-69.31	16.14	-51.73	7.02	H	-42.61	-25.00		

☐ NR Band: n41
☐ Bandwidth: 60 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
505200 (2526.000)	5 052.00	-56.15	10.90	-62.88	3.73	H	-55.71	-25.00	1	160
	7 578.00	-55.78	11.65	-58.06	4.65	H	-51.06	-25.00		
	10 104.00	-56.99	11.35	-56.43	5.46	H	-50.54	-25.00		
	12 630.00	-57.34	12.97	-53.31	6.23	H	-46.57	-25.00		
	15 156.00	-68.48	14.63	-50.44	6.80	H	-42.61	-25.00		
518598 (2592.990)	5 185.98	-55.35	11.18	-62.88	3.80	H	-55.50	-25.00	1	1
	7 778.97	-55.69	11.37	-56.25	4.70	H	-49.58	-25.00		
	10 371.96	-55.02	11.67	-54.54	5.55	H	-48.42	-25.00		
	12 964.95	-59.18	12.77	-54.34	6.35	H	-47.92	-25.00		
	15 557.94	-68.12	15.76	-49.77	6.89	H	-40.90	-25.00		
531996 (2659.980)	5 319.96	-55.79	11.54	-63.14	3.79	H	-55.39	-25.00	1	82
	7 979.94	-55.28	11.20	-55.36	4.79	H	-48.95	-25.00		
	10 639.92	-55.94	11.62	-55.90	5.61	H	-49.89	-25.00		
	13 299.90	-58.39	13.08	-52.34	6.39	H	-45.65	-25.00		
	15 959.88	-69.03	16.11	-51.44	6.98	H	-42.31	-25.00		

☐ NR Band: n41
☐ Bandwidth: 70 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
506202 (2531.010)	5 062.02	-56.29	10.91	-63.12	3.78	H	-55.99	-25.00	1	187
	7 593.03	-55.63	11.66	-57.86	4.64	H	-50.84	-25.00		
	10 124.04	-55.43	11.34	-54.46	5.47	H	-48.59	-25.00		
	12 655.05	-57.52	12.91	-53.52	6.26	H	-46.87	-25.00		
	15 186.06	-67.44	14.72	-49.38	6.82	H	-41.48	-25.00		
518598 (2592.990)	5 185.98	-55.70	11.18	-63.23	3.80	H	-55.85	-25.00	1	1
	7 778.97	-56.21	11.37	-56.77	4.70	H	-50.10	-25.00		
	10 371.96	-56.73	11.67	-56.25	5.55	H	-50.13	-25.00		
	12 964.95	-57.87	12.77	-53.03	6.35	H	-46.61	-25.00		
	15 557.94	-67.49	15.76	-49.14	6.89	H	-40.27	-25.00		
531000 (2655.000)	5 310.00	-54.62	11.53	-62.08	3.82	H	-54.37	-25.00	1	1
	7 965.00	-54.99	11.17	-54.91	4.80	H	-48.54	-25.00		
	10 620.00	-55.57	11.62	-55.32	5.65	H	-49.35	-25.00		
	13 275.00	-57.64	13.11	-51.69	6.35	H	-44.93	-25.00		
	15 930.00	-68.29	16.09	-49.87	7.00	H	-40.78	-25.00		

☐ NR Band: n41
☐ Bandwidth: 80 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
507204 (2536.020)	5 072.04	-55.24	10.92	-62.00	3.80	H	-54.88	-25.00	1	108
	7 608.06	-54.55	11.65	-56.73	4.64	H	-49.72	-25.00		
	10 144.08	-55.98	11.33	-55.45	5.48	H	-49.60	-25.00		
	12 680.10	-57.54	12.87	-53.50	6.23	H	-46.86	-25.00		
	15 216.12	-67.08	14.82	-48.64	6.82	H	-40.64	-25.00		
518598 (2592.990)	5 185.98	-54.38	11.18	-61.91	3.80	H	-54.53	-25.00	1	1
	7 778.97	-55.06	11.37	-55.62	4.70	H	-48.95	-25.00		
	10 371.96	-56.17	11.67	-55.69	5.55	H	-49.57	-25.00		
	12 964.95	-55.16	12.77	-50.32	6.35	H	-43.90	-25.00		
	15 557.94	-67.86	15.76	-49.51	6.89	H	-40.64	-25.00		
529998 (2649.990)	5 299.98	-53.99	11.52	-61.41	3.83	H	-53.72	-25.00	1	108
	7 949.97	-53.30	11.15	-53.59	4.78	H	-47.22	-25.00		
	10 599.96	-55.78	11.63	-55.54	5.67	H	-49.58	-25.00		
	13 249.95	-59.44	13.13	-53.70	6.43	H	-47.00	-25.00		
	15 899.94	-68.55	16.07	-50.93	7.00	H	-41.86	-25.00		

☐ NR Band: n41
☐ Bandwidth: 90 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
508200 (2541.000)	5 082.00	-54.59	10.93	-61.45	3.81	H	-54.33	-25.00	1	122
	7 623.00	-55.24	11.65	-57.38	4.65	H	-50.38	-25.00		
	10 164.00	-54.07	11.34	-53.78	5.50	H	-47.94	-25.00		
	12 705.00	-58.38	12.83	-54.27	6.20	H	-47.64	-25.00		
	15 246.00	-68.52	14.92	-50.12	6.84	H	-42.04	-25.00		
518598 (2592.990)	5 185.98	-54.53	11.18	-62.06	3.80	H	-54.68	-25.00	1	1
	7 778.97	-55.92	11.37	-56.48	4.70	H	-49.81	-25.00		
	10 371.96	-55.76	11.67	-55.28	5.55	H	-49.16	-25.00		
	12 964.95	-57.60	12.77	-52.76	6.35	H	-46.34	-25.00		
	15 557.94	-68.12	15.76	-49.77	6.89	H	-40.90	-25.00		
528996 (2644.980)	5 289.96	-55.78	11.50	-62.75	3.83	H	-55.08	-25.00	1	1
	7 934.94	-55.77	11.16	-55.73	4.77	H	-49.34	-25.00		
	10 579.92	-54.01	11.64	-53.88	5.65	H	-47.89	-25.00		
	13 224.90	-58.14	13.12	-52.16	6.43	H	-45.47	-25.00		
	15 869.88	-67.44	16.05	-49.46	6.97	H	-40.38	-25.00		

☐ NR Band: n41
☐ Bandwidth: 100 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meter
☐ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-55.12	10.94	-61.99	3.78	H	-54.83	-25.00	1	136
	7 638.03	-55.46	11.64	-57.53	4.68	H	-50.57	-25.00		
	10 184.04	-55.73	11.35	-55.14	5.52	H	-49.31	-25.00		
	12 730.05	-57.82	12.80	-54.19	6.21	H	-47.60	-25.00		
	15 276.06	-66.57	15.00	-47.94	6.82	H	-39.76	-25.00		
518598 (2592.990)	5 185.98	-54.33	11.18	-61.86	3.80	H	-54.48	-25.00	1	1
	7 778.97	-55.17	11.37	-55.73	4.70	H	-49.06	-25.00		
	10 371.96	-56.42	11.67	-55.94	5.55	H	-49.82	-25.00		
	12 964.95	-58.04	12.77	-53.20	6.35	H	-46.78	-25.00		
	15,557.94	-68.10	15.79	-49.78	6.89	H	-40.88	-25.00		
528000 (2640.000)	5,280.00	-54.57	11.47	-61.95	3.80	H	-54.28	-25.00	1	1
	7,920.00	-55.02	11.16	-55.25	4.77	H	-48.86	-25.00		
	10,560.00	-54.56	11.66	-54.79	5.63	H	-48.76	-25.00		
	13,200.00	-58.04	13.11	-51.92	6.33	H	-45.14	-25.00		
	15,840.00	-67.33	16.05	-49.40	6.99	H	-40.34	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41(38) / 20 MHz	2592.990	BPSK	50	0	3.87
		QPSK			4.55
		16-QAM			5.56
		64-QAM			6.03
		256-QAM			6.60
Sub6 n41 / 30 MHz		BPSK	75		3.91
		QPSK			4.52
		16-QAM			5.58
		64-QAM			6.15
		256-QAM			6.65
Sub6 n41 / 40 MHz		BPSK	100		4.04
		QPSK			4.59
		16-QAM			5.61
		64-QAM			6.04
		256-QAM			6.58
Sub6 n41 / 50 MHz		BPSK	128		4.01
		QPSK			4.53
		16-QAM			5.56
		64-QAM			6.07
		256-QAM			6.61
Sub6 n41 / 60 MHz		BPSK	162		4.33
		QPSK			4.76
		16-QAM			5.75
		64-QAM			6.23
		256-QAM			6.64
Sub6 n41 / 70 MHz		BPSK	180		4.69
		QPSK			5.77
		16-QAM			5.62
		64-QAM			6.68
		256-QAM			6.80

Sub6 n41 / 80 MHz		BPSK	216		4.76
		QPSK			5.55
		16-QAM			6.42
		64-QAM			6.58
		256-QAM			6.67
Sub6 n41 / 90 MHz		BPSK	243		4.31
		QPSK			5.61
		16-QAM			6.40
		64-QAM			6.56
		256-QAM			6.66
Sub6 n41 / 100 MHz		BPSK	270		4.81
		QPSK			5.49
		16-QAM			6.38
		64-QAM			6.57
		256-QAM			6.67

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 62 ~ 106.

8.4 OCCUPIED BANDWIDTH

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41(38) / 20 MHz	2592.990	BPSK	50	0	17.914
		QPSK			17.924
		16-QAM			17.908
		64-QAM			17.941
		256-QAM			17.944
Sub6 n41 / 30 MHz		BPSK	75		26.909
		QPSK			26.856
		16-QAM			26.864
		64-QAM			26.842
		256-QAM			26.852
Sub6 n41 / 40 MHz		BPSK	100		35.826
		QPSK			35.790
		16-QAM			35.792
		64-QAM			35.794
		256-QAM			35.778
Sub6 n41 / 50 MHz		BPSK	128		45.891
		QPSK			45.810
		16-QAM			45.853
		64-QAM			45.845
		256-QAM			45.870
Sub6 n41 / 60 MHz		BPSK	162		58.065
		QPSK			57.963
		16-QAM			57.999
		64-QAM			57.958
		256-QAM			57.955
Sub6 n41 / 70 MHz		BPSK	180		64.561
		QPSK			64.512
		16-QAM			64.538
		64-QAM			64.463
		256-QAM			64.404

Sub6 n41 / 80 MHz		BPSK	216		77.399
		QPSK			77.275
		16-QAM			77.280
		64-QAM			77.197
		256-QAM			77.235
Sub6 n41 / 90 MHz		BPSK	243		86.958
		QPSK			86.917
		16-QAM			87.005
		64-QAM			86.909
		256-QAM			86.930
Sub6 n41 / 100 MHz		BPSK	270		96.781
		QPSK			96.624
		16-QAM			96.586
		64-QAM			96.574
		256-QAM			96.495

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 107 ~ 151.

8.5 CONDUCTED SPURIOUS EMISSIONS

Band / Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub 6 n41(38) / 20	2506.020	4.9652	26.600	-61.519	-34.919	-25.00
	2592.990	3.8286	26.600	-60.627	-34.027	
	2679.990	3.8186	26.600	-61.585	-34.985	
Sub 6 n41 / 30	2511.000	3.7787	26.600	-61.426	-34.826	
	2592.990	6.0519	27.520	-62.369	-34.849	
	2674.980	3.7787	26.600	-61.329	-34.729	
Sub 6 n41 / 40	2516.010	5.2144	27.520	-62.514	-34.994	
	2592.990	4.9352	26.600	-61.683	-35.083	
	2670.000	4.9452	26.600	-61.777	-35.177	
Sub 6 n41 / 50	2521.020	4.9352	26.600	-61.545	-34.945	
	2592.990	4.9352	26.600	-60.525	-33.925	
	2664.990	4.9253	26.600	-61.495	-34.895	
Sub 6 n41 / 60	2526.000	9.0229	27.520	-61.601	-34.081	
	2592.990	4.0379	26.600	-61.024	-34.424	
	2659.980	5.1945	27.520	-61.039	-33.519	
Sub 6 n41 / 70	2531.010	5.7428	27.520	-61.023	-33.503	
	2592.990	3.8086	26.600	-61.509	-34.909	
	2655.000	6.0319	27.520	-61.718	-34.198	
Sub 6 n41 / 80	2536.020	3.7688	26.600	-61.746	-35.146	
	2592.990	3.9981	26.600	-61.015	-34.415	
	2649.990	4.0379	26.600	-60.130	-33.530	
Sub 6 n41 / 90	2541.000	4.9352	26.600	-60.714	-34.114	
	2592.990	8.0858	27.520	-61.621	-34.101	
	2644.980	3.8385	26.600	-62.377	-35.777	
Sub 6 n41 / 100	2546.010	4.9452	26.600	-60.533	-33.933	
	2592.990	4.9552	26.600	-61.312	-34.712	
	2640.000	4.9153	26.600	-61.202	-34.602	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 152 ~ 205.

2. Factor(dB)

- Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

Frequency Range (GHz)	Factor [dB]
0.03 – 1	26.080
1 – 5	26.600
5 – 10	27.520
10 – 15	29.120
15 – 20	31.710
Above 20	32.350

8.6 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
				Lower	Upper	Lower	Upper	Lower	Upper	Upper
20	2506.020	BPSK	Full RB	-26.37	-28.40	-26.45	-24.75	-32.94	-33.62	-38.44
30	2511.000	BPSK	Full RB	-26.29	-32.39	-31.39	-29.27	-35.25	-32.37	-36.42
40	2516.010	BPSK	Full RB	-30.44	-32.03	-31.41	-32.35	-38.50	-36.44	-41.56
50	2521.020	BPSK	Full RB	-32.01	-34.82	-33.60	-34.65	-33.13	-30.69	-38.86
60	2526.000	BPSK	Full RB	-21.86	-23.53	-31.06	-30.69	-32.93	-34.10	-40.93
70	2531.010	BPSK	Full RB	-27.85	-28.09	-28.43	-28.62	-32.14	-30.02	-41.90
80	2536.020	BPSK	Full RB	-27.94	-27.03	-28.47	-27.88	-31.06	-28.35	-36.57
90	2541.000	BPSK	Full RB	-26.84	-26.88	-28.45	-25.92	-29.57	-32.32	-36.15
100	2546.010	BPSK	Full RB	-25.76	-31.87	-31.04	-30.75	-31.85	-34.05	-47.48
Limit (dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	C.E ~ (C.E 1 MHz)		(C.E 1 MHz) ~ (C.E 5 MHz)	
					Lower	Upper	Lower	Upper
20 MHz	2592.990	BPSK	Full RB	0	-29.96	-35.06	-32.52	-33.00
	2679.990	BPSK	Full RB	0	-30.02	-35.73	-32.80	-34.41
30 MHz	2592.990	BPSK	Full RB	0	-32.29	-34.90	-33.02	-33.39
	2674.980	BPSK	Full RB	0	-28.84	-35.13	-32.49	-32.67
40 MHz	2592.990	BPSK	Full RB	0	-29.66	-33.84	-31.91	-34.58
	2670.000	BPSK	Full RB	0	-31.20	-35.97	-34.33	-36.06
50 MHz	2592.990	BPSK	Full RB	0	-31.27	-35.96	-35.25	-37.73
	2664.990	BPSK	Full RB	0	-31.83	-36.60	-30.45	-34.64
60 MHz	2592.990	BPSK	Full RB	0	-20.63	-23.78	-35.79	-34.85
	2659.980	BPSK	Full RB	0	-21.50	-24.43	-28.27	-30.37
70 MHz	2592.990	BPSK	Full RB	0	-25.45	-30.05	-28.10	-29.37
	2655.000	BPSK	Full RB	0	-27.82	-33.29	-32.04	-36.88
80 MHz	2592.990	BPSK	Full RB	0	-27.53	-34.02	-32.21	-34.30
	2649.990	BPSK	Full RB	0	-27.70	-32.35	-32.07	-31.94
90 MHz	2592.990	BPSK	Full RB	0	-25.46	-35.21	-35.47	-34.76
	2644.980	BPSK	Full RB	0	-26.59	-32.80	-32.70	-33.25
100 MHz	2592.990	BPSK	Full RB	0	-21.88	-28.31	-25.36	-27.98
	2640.000	BPSK	Full RB	0	-24.76	-32.63	-32.13	-32.08
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E 5 MHz) ~ X MHz)		Above (C.E X MHz)	
					(C.E Lower	Upper	(C.E Lower	Upper
20 MHz	2592.990	BPSK	Full RB	0	-34.28	-34.46	-40.70	-39.53
	2679.990	BPSK	Full RB	0	-34.55	-34.33	-39.23	-41.83
30 MHz	2592.990	BPSK	Full RB	0	-34.44	-35.14	-41.90	-40.67
	2674.980	BPSK	Full RB	0	-31.85	-35.35	-39.58	-40.61
40 MHz	2592.990	BPSK	Full RB	0	-35.13	-32.21	-39.18	-38.50
	2670.000	BPSK	Full RB	0	-36.32	-36.81	-45.09	-47.25
50 MHz	2592.990	BPSK	Full RB	0	-37.39	-37.89	-47.09	-42.78
	2664.990	BPSK	Full RB	0	-34.32	-37.04	-43.39	-51.21
60 MHz	2592.990	BPSK	Full RB	0	-32.42	-35.18	-44.51	-40.69
	2659.980	BPSK	Full RB	0	-34.62	-36.30	-39.09	-56.46
70 MHz	2592.990	BPSK	Full RB	0	-30.23	-33.61	-43.62	-45.88
	2655.000	BPSK	Full RB	0	-35.40	-40.03	-46.34	-56.72
80 MHz	2592.990	BPSK	Full RB	0	-34.25	-34.97	-56.67	-45.94
	2649.990	BPSK	Full RB	0	-35.49	-36.76	-45.01	-56.40
90 MHz	2592.990	BPSK	Full RB	0	-36.52	-37.84	-56.78	-47.42
	2644.980	BPSK	Full RB	0	-35.73	-38.69	-45.11	-56.61
100 MHz	2592.990	BPSK	Full RB	0	-26.01	-28.85	-56.99	-56.36
	2640.000	BPSK	Full RB	0	-32.62	-36.81	-44.25	-56.56
Limit (dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 206 ~ 268. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- BandWidth: 20 MHz
 ■ Voltage(100 %): 12.000 VDC
 ■ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2506.020	100 %	+20(Ref)	2506 019 983	0.0	0.000 000	0.000
	100 %	-30	2506 019 950	-33.2	-0.000 001	-0.013
	100 %	-20	2506 019 950	-33.0	-0.000 001	-0.013
	100 %	-10	2506 019 947	-36.0	-0.000 001	-0.014
	100 %	0	2506 019 948	-35.1	-0.000 001	-0.014
	100 %	+10	2506 019 948	-35.2	-0.000 001	-0.014
	100 %	+30	2506 019 950	-33.2	-0.000 001	-0.013
	100 %	+40	2506 019 952	-31.7	-0.000 001	-0.013
	100 %	+50	2506 019 950	-33.2	-0.000 001	-0.013
	85 %	+20	2506 019 952	-31.4	-0.000 001	-0.013
	115 %	+20	2506 019 950	-33.5	-0.000 001	-0.013
2679.990	100 %	+20(Ref)	2679 989 979	0.0	0.000 000	0.000
	100 %	-30	2679 989 955	-23.6	-0.000 001	-0.009
	100 %	-20	2679 989 952	-26.5	-0.000 001	-0.010
	100 %	-10	2679 989 974	-4.5	0.000 000	-0.002
	100 %	0	2679 989 975	-4.1	0.000 000	-0.002
	100 %	+10	2679 989 954	-24.4	-0.000 001	-0.009
	100 %	+30	2679 989 953	-25.8	-0.000 001	-0.010
	100 %	+40	2679 989 954	-24.5	-0.000 001	-0.009
	100 %	+50	2679 989 952	-26.7	-0.000 001	-0.010
	85 %	+20	2679 989 952	-27.1	-0.000 001	-0.010
	115 %	+20	2679 989 952	-26.6	-0.000 001	-0.010

■ BandWidth: 30 MHz
 ■ Voltage(100 %): 12.000 VDC
 ■ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2511.000	100 %	+20(Ref)	2510 999 990	0.0	0.000 000	0.000
	100 %	-30	2510 999 978	-12.2	0.000 000	-0.005
	100 %	-20	2510 999 973	-17.8	-0.000 001	-0.007
	100 %	-10	2510 999 970	-20.3	-0.000 001	-0.008
	100 %	0	2510 999 966	-24.1	-0.000 001	-0.010
	100 %	+10	2510 999 961	-29.6	-0.000 001	-0.012
	100 %	+30	2510 999 975	-15.8	-0.000 001	-0.006
	100 %	+40	2510 999 974	-16.7	-0.000 001	-0.007
	100 %	+50	2510 999 971	-19.7	-0.000 001	-0.008
	85 %	+20	2510 999 974	-16.5	-0.000 001	-0.007
	115 %	+20	2510 999 970	-19.9	-0.000 001	-0.008
2674.980	100 %	+20(Ref)	2674 979 991	0.0	0.000 000	0.000
	100 %	-30	2674 979 980	-10.9	0.000 000	-0.004
	100 %	-20	2674 979 974	-17.1	-0.000 001	-0.006
	100 %	-10	2674 979 972	-18.4	-0.000 001	-0.007
	100 %	0	2674 979 992	1.4	0.000 000	0.001
	100 %	+10	2674 979 967	-23.8	-0.000 001	-0.009
	100 %	+30	2674 979 989	-1.5	0.000 000	-0.001
	100 %	+40	2674 979 986	-4.5	0.000 000	-0.002
	100 %	+50	2674 979 985	-5.9	0.000 000	-0.002
	85 %	+20	2674 979 988	-2.7	0.000 000	-0.001
	115 %	+20	2674 979 981	-10.3	0.000 000	-0.004

■ BandWidth: 40 MHz
 ■ Voltage(100 %): 12.000 VDC
 ■ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2516.010	100 %	+20(Ref)	2516 009 969	0.0	0.000 000	0.000
	100 %	-30	2516 009 938	-31.1	-0.000 001	-0.012
	100 %	-20	2516 009 939	-30.6	-0.000 001	-0.012
	100 %	-10	2516 009 956	-13.3	-0.000 001	-0.005
	100 %	0	2516 009 935	-33.9	-0.000 001	-0.013
	100 %	+10	2516 009 954	-15.5	-0.000 001	-0.006
	100 %	+30	2516 009 953	-16.5	-0.000 001	-0.007
	100 %	+40	2516 009 929	-40.2	-0.000 002	-0.016
	100 %	+50	2516 009 951	-18.0	-0.000 001	-0.007
	85 %	+20	2516 009 950	-18.7	-0.000 001	-0.007
	115 %	+20	2516 009 945	-24.1	-0.000 001	-0.010
2670.000	100 %	+20(Ref)	2669 999 990	0.0	0.000 000	0.000
	100 %	-30	2669 999 957	-32.2	-0.000 001	-0.012
	100 %	-20	2669 999 977	-13.0	0.000 000	-0.005
	100 %	-10	2669 999 976	-13.1	0.000 000	-0.005
	100 %	0	2669 999 973	-16.7	-0.000 001	-0.006
	100 %	+10	2669 999 973	-16.7	-0.000 001	-0.006
	100 %	+30	2669 999 970	-20.0	-0.000 001	-0.007
	100 %	+40	2669 999 973	-16.7	-0.000 001	-0.006
	100 %	+50	2669 999 968	-21.8	-0.000 001	-0.008
	85 %	+20	2669 999 973	-16.2	-0.000 001	-0.006
	115 %	+20	2669 999 971	-18.9	-0.000 001	-0.007

■ BandWidth: 50 MHz
 ■ Voltage(100 %): 12.000 VDC
 ■ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2521.020	100 %	+20(Ref)	2521 019 965	0.0	0.000 000	0.000
	100 %	-30	2521 019 930	-35.4	-0.000 001	-0.014
	100 %	-20	2521 019 926	-38.9	-0.000 002	-0.015
	100 %	-10	2521 019 928	-37.8	-0.000 002	-0.015
	100 %	0	2521 019 927	-38.6	-0.000 002	-0.015
	100 %	+10	2521 019 946	-19.5	-0.000 001	-0.008
	100 %	+30	2521 019 943	-22.3	-0.000 001	-0.009
	100 %	+40	2521 019 944	-21.6	-0.000 001	-0.009
	100 %	+50	2521 019 939	-26.6	-0.000 001	-0.011
	85 %	+20	2521 019 945	-19.9	-0.000 001	-0.008
	115 %	+20	2521 019 954	-11.4	0.000 000	-0.005
2664.990	100 %	+20(Ref)	2664 989 982	0.0	0.000 000	0.000
	100 %	-30	2664 989 960	-21.2	-0.000 001	-0.008
	100 %	-20	2664 989 963	-18.1	-0.000 001	-0.007
	100 %	-10	2664 989 961	-20.4	-0.000 001	-0.008
	100 %	0	2664 989 961	-20.7	-0.000 001	-0.008
	100 %	+10	2664 989 960	-21.5	-0.000 001	-0.008
	100 %	+30	2664 989 960	-21.6	-0.000 001	-0.008
	100 %	+40	2664 989 959	-22.6	-0.000 001	-0.008
	100 %	+50	2664 989 960	-21.9	-0.000 001	-0.008
	85 %	+20	2664 989 959	-22.6	-0.000 001	-0.008
	115 %	+20	2664 989 961	-20.3	-0.000 001	-0.008

■ BandWidth: 60 MHz
 ■ Voltage(100 %): 12.000 VDC
 ■ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2526.000	100 %	+20(Ref)	2525 999 968	0.0	0.000 000	0.000
	100 %	-30	2525 999 938	-30.6	-0.000 001	-0.012
	100 %	-20	2525 999 935	-33.4	-0.000 001	-0.013
	100 %	-10	2525 999 934	-34.3	-0.000 001	-0.014
	100 %	0	2525 999 956	-12.5	0.000 000	-0.005
	100 %	+10	2525 999 955	-13.8	-0.000 001	-0.005
	100 %	+30	2525 999 952	-16.6	-0.000 001	-0.007
	100 %	+40	2525 999 933	-35.5	-0.000 001	-0.014
	100 %	+50	2525 999 953	-15.3	-0.000 001	-0.006
	85 %	+20	2525 999 953	-15.9	-0.000 001	-0.006
	115 %	+20	2525 999 941	-27.4	-0.000 001	-0.011
2659.980	100 %	+20(Ref)	2659 979 989	0.0	0.000 000	0.000
	100 %	-30	2659 979 971	-17.6	-0.000 001	-0.007
	100 %	-20	2659 979 970	-18.9	-0.000 001	-0.007
	100 %	-10	2659 979 970	-18.3	-0.000 001	-0.007
	100 %	0	2659 979 972	-16.4	-0.000 001	-0.006
	100 %	+10	2659 979 969	-19.3	-0.000 001	-0.007
	100 %	+30	2659 979 968	-21.1	-0.000 001	-0.008
	100 %	+40	2659 979 969	-19.6	-0.000 001	-0.007
	100 %	+50	2659 979 991	1.9	0.000 000	0.001
	85 %	+20	2659 979 986	-2.9	0.000 000	-0.001
	115 %	+20	2659 979 970	-19.0	-0.000 001	-0.007

☐ BandWidth: 70 MHz
☐ Voltage(100 %): 12.000 VDC
☐ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2531.010	100 %	+20(Ref)	2531 009 979	0.0	0.000 000	0.000
	100 %	-30	2531 009 954	-25.3	-0.000 001	-0.010
	100 %	-20	2531 009 955	-24.0	-0.000 001	-0.009
	100 %	-10	2531 009 955	-24.5	-0.000 001	-0.010
	100 %	0	2531 009 956	-23.7	-0.000 001	-0.009
	100 %	+10	2531 009 955	-24.2	-0.000 001	-0.010
	100 %	+30	2531 009 952	-27.6	-0.000 001	-0.011
	100 %	+40	2531 009 953	-26.9	-0.000 001	-0.011
	100 %	+50	2531 009 953	-26.9	-0.000 001	-0.011
	85 %	+20	2531 009 957	-22.4	-0.000 001	-0.009
	115 %	+20	2531 009 953	-26.5	-0.000 001	-0.010
2655.000	100 %	+20(Ref)	2654 999 973	0.0	0.000 000	0.000
	100 %	-30	2654 999 943	-29.8	-0.000 001	-0.011
	100 %	-20	2654 999 944	-28.9	-0.000 001	-0.011
	100 %	-10	2654 999 942	-30.5	-0.000 001	-0.011
	100 %	0	2654 999 942	-30.8	-0.000 001	-0.012
	100 %	+10	2654 999 941	-31.3	-0.000 001	-0.012
	100 %	+30	2654 999 961	-12.1	0.000 000	-0.005
	100 %	+40	2654 999 937	-35.6	-0.000 001	-0.013
	100 %	+50	2654 999 936	-36.6	-0.000 001	-0.014
	85 %	+20	2654 999 953	-20.1	-0.000 001	-0.008
	115 %	+20	2654 999 944	-28.4	-0.000 001	-0.011

☐ BandWidth: 80 MHz
☐ Voltage(100 %): 12.000 VDC
☐ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2536.020	100 %	+20(Ref)	2536 019 969	0.0	0.000 000	0.000
	100 %	-30	2536 019 937	-31.7	-0.000 001	-0.013
	100 %	-20	2536 019 939	-30.0	-0.000 001	-0.012
	100 %	-10	2536 019 939	-30.0	-0.000 001	-0.012
	100 %	0	2536 019 938	-30.8	-0.000 001	-0.012
	100 %	+10	2536 019 935	-34.1	-0.000 001	-0.013
	100 %	+30	2536 019 932	-37.1	-0.000 001	-0.015
	100 %	+40	2536 019 935	-34.0	-0.000 001	-0.013
	100 %	+50	2536 019 932	-36.7	-0.000 001	-0.014
	85 %	+20	2536 019 938	-31.2	-0.000 001	-0.012
	115 %	+20	2536 019 933	-35.8	-0.000 001	-0.014
2649.990	100 %	+20(Ref)	2649 989 965	0.0	0.000 000	0.000
	100 %	-30	2649 989 954	-11.3	0.000 000	-0.004
	100 %	-20	2649 989 957	-8.3	0.000 000	-0.003
	100 %	-10	2649 989 928	-37.6	-0.000 001	-0.014
	100 %	0	2649 989 953	-12.6	0.000 000	-0.005
	100 %	+10	2649 989 952	-12.9	0.000 000	-0.005
	100 %	+30	2649 989 951	-13.6	-0.000 001	-0.005
	100 %	+40	2649 989 952	-12.8	0.000 000	-0.005
	100 %	+50	2649 989 950	-15.3	-0.000 001	-0.006
	85 %	+20	2649 989 954	-11.2	0.000 000	-0.004
	115 %	+20	2649 989 949	-16.3	-0.000 001	-0.006

■ BandWidth: 90 MHz
 ■ Voltage(100 %): 12.000 VDC
 ■ LIMIT: Emission must remain in band

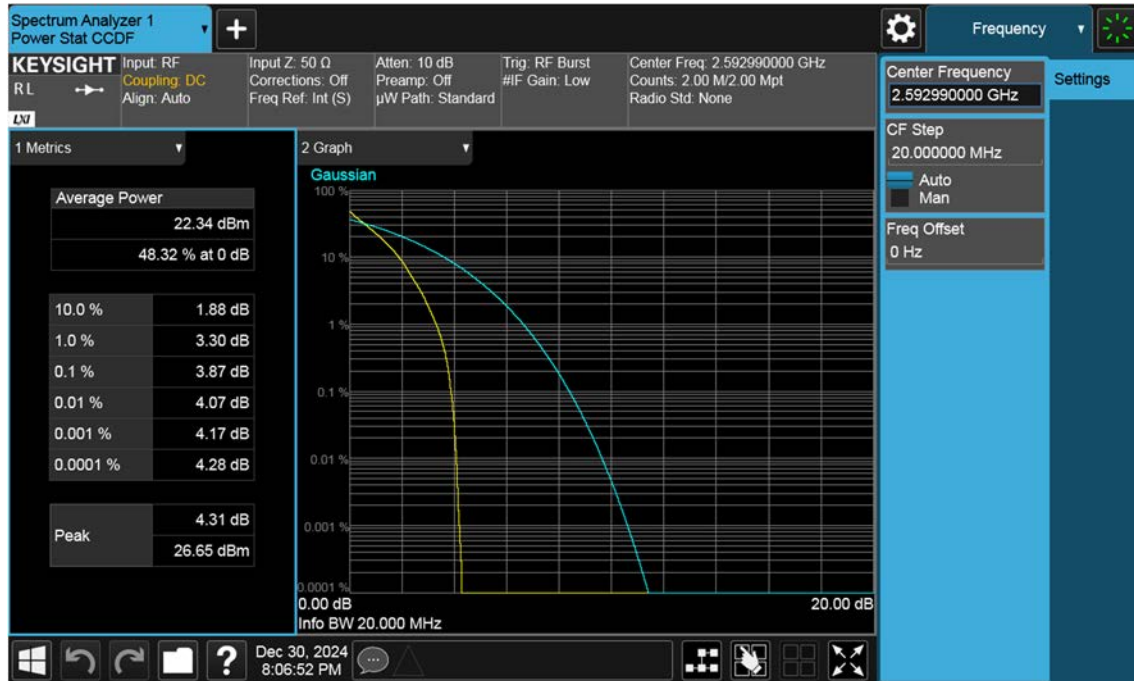
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2541.000	100 %	+20(Ref)	2540 999 992	0.0	0.000 000	0.000
	100 %	-30	2540 999 962	-30.2	-0.000 001	-0.012
	100 %	-20	2540 999 962	-30.2	-0.000 001	-0.012
	100 %	-10	2540 999 959	-33.1	-0.000 001	-0.013
	100 %	0	2540 999 983	-9.3	0.000 000	-0.004
	100 %	+10	2540 999 958	-33.7	-0.000 001	-0.013
	100 %	+30	2540 999 960	-32.3	-0.000 001	-0.013
	100 %	+40	2540 999 980	-11.7	0.000 000	-0.005
	100 %	+50	2540 999 982	-10.3	0.000 000	-0.004
	85 %	+20	2540 999 973	-19.2	-0.000 001	-0.008
	115 %	+20	2540 999 962	-29.7	-0.000 001	-0.012
2644.980	100 %	+20(Ref)	2644 979 987	0.0	0.000 000	0.000
	100 %	-30	2644 979 974	-13.1	0.000 000	-0.005
	100 %	-20	2644 979 974	-12.8	0.000 000	-0.005
	100 %	-10	2644 979 972	-14.6	-0.000 001	-0.006
	100 %	0	2644 979 973	-14.0	-0.000 001	-0.005
	100 %	+10	2644 979 972	-15.2	-0.000 001	-0.006
	100 %	+30	2644 979 972	-14.8	-0.000 001	-0.006
	100 %	+40	2644 979 972	-15.3	-0.000 001	-0.006
	100 %	+50	2644 979 970	-17.6	-0.000 001	-0.007
	85 %	+20	2644 979 974	-13.2	0.000 000	-0.005
	115 %	+20	2644 979 967	-19.7	-0.000 001	-0.007

☐ BandWidth: 100 MHz
☐ Voltage(100 %): 12.000 VDC
☐ LIMIT: Emission must remain in band

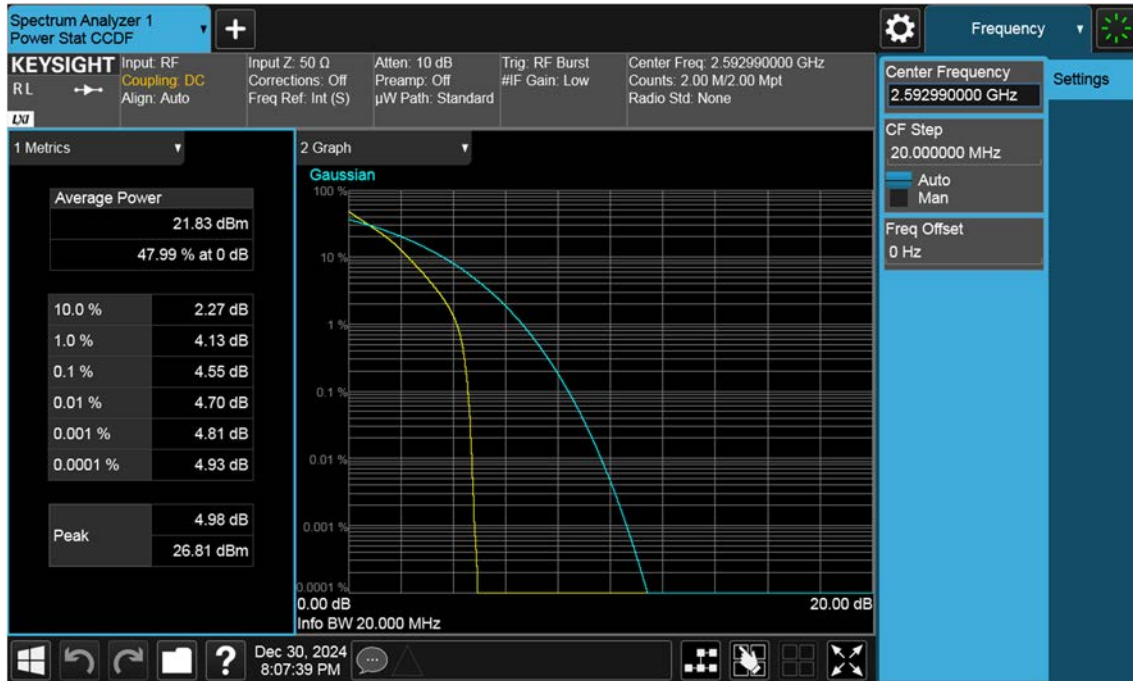
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 009 969	0.0	0.000 000	0.000
	100 %	-30	2546 009 935	-33.8	-0.000 001	-0.013
	100 %	-20	2546 009 937	-31.8	-0.000 001	-0.013
	100 %	-10	2546 009 936	-33.4	-0.000 001	-0.013
	100 %	0	2546 009 934	-35.0	-0.000 001	-0.014
	100 %	+10	2546 009 935	-33.8	-0.000 001	-0.013
	100 %	+30	2546 009 933	-36.1	-0.000 001	-0.014
	100 %	+40	2546 009 953	-15.9	-0.000 001	-0.006
	100 %	+50	2546 009 953	-15.9	-0.000 001	-0.006
	85 %	+20	2546 009 939	-30.4	-0.000 001	-0.012
	115 %	+20	2546 009 953	-16.2	-0.000 001	-0.006
2640.000	100 %	+20(Ref)	2639 999 983	0.0	0.000 000	0.000
	100 %	-30	2639 999 967	-15.9	-0.000 001	-0.006
	100 %	-20	2639 999 965	-18.5	-0.000 001	-0.007
	100 %	-10	2639 999 967	-16.5	-0.000 001	-0.006
	100 %	0	2639 999 967	-16.5	-0.000 001	-0.006
	100 %	+10	2639 999 966	-17.0	-0.000 001	-0.006
	100 %	+30	2639 999 968	-15.3	-0.000 001	-0.006
	100 %	+40	2639 999 966	-17.1	-0.000 001	-0.006
	100 %	+50	2639 999 967	-16.2	-0.000 001	-0.006
	85 %	+20	2639 999 964	-18.8	-0.000 001	-0.007
	115 %	+20	2639 999 966	-17.0	-0.000 001	-0.006

9. TEST PLOTS

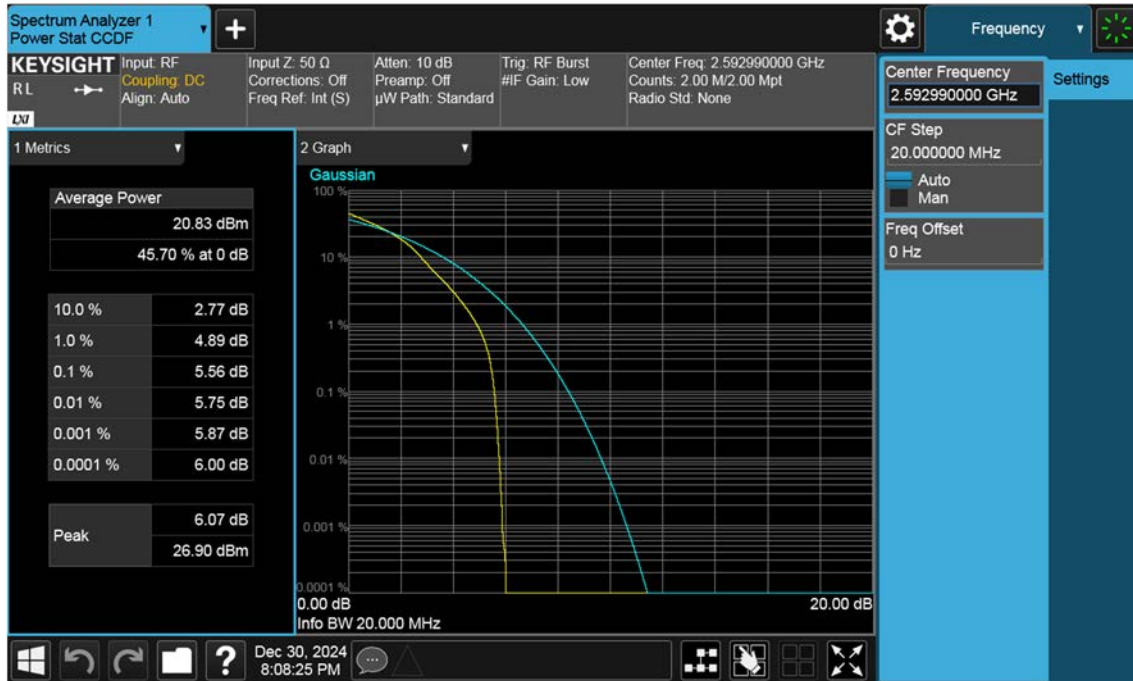
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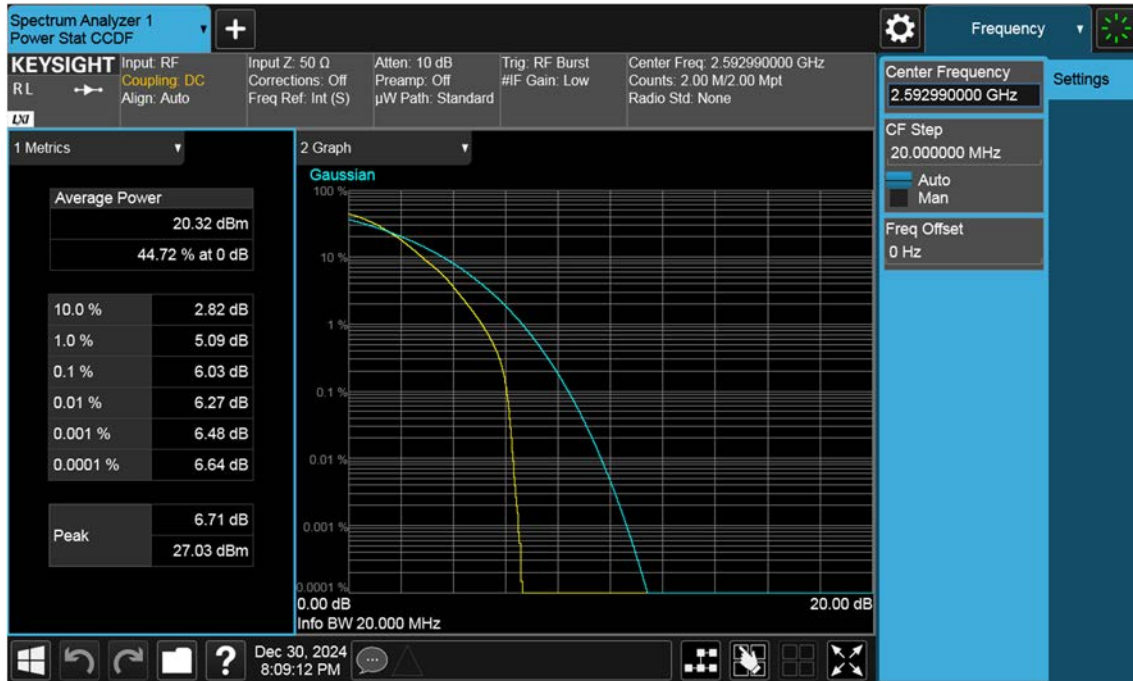
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NR41_20 M_PAR_Mid_16QAM_FullRB



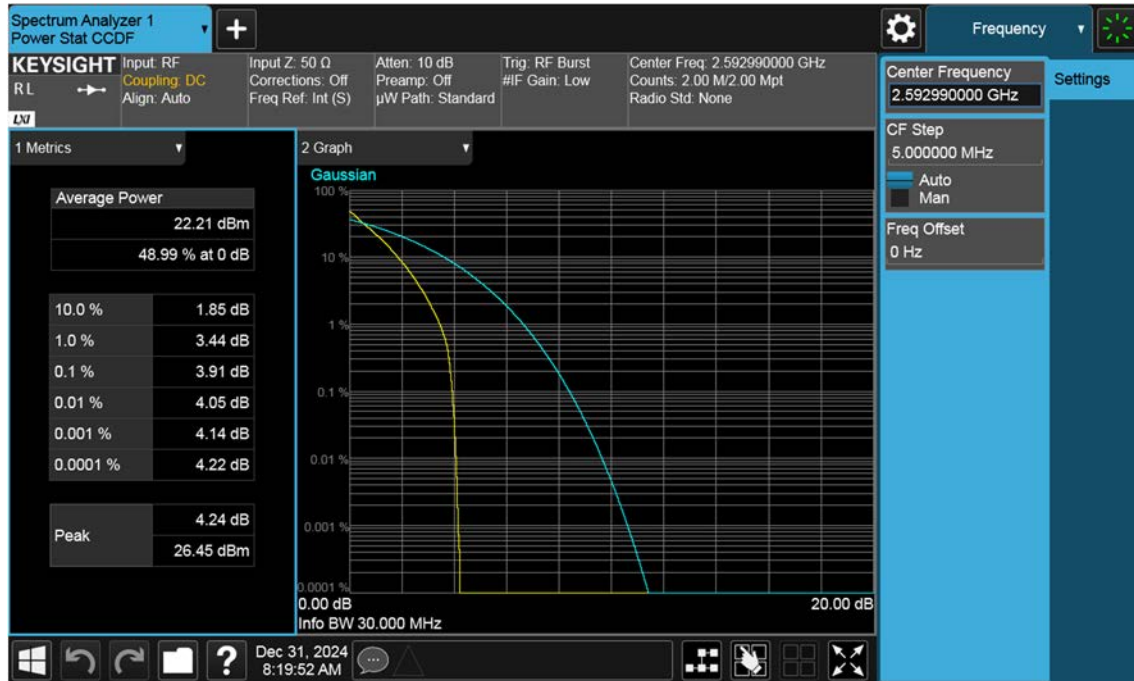
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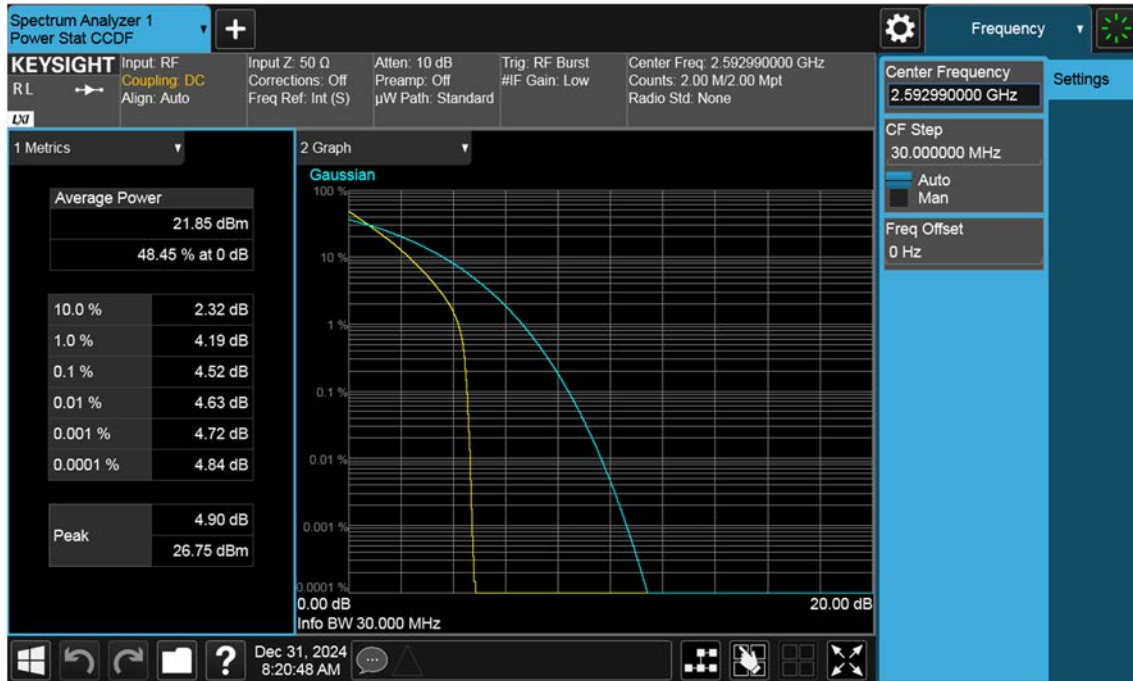
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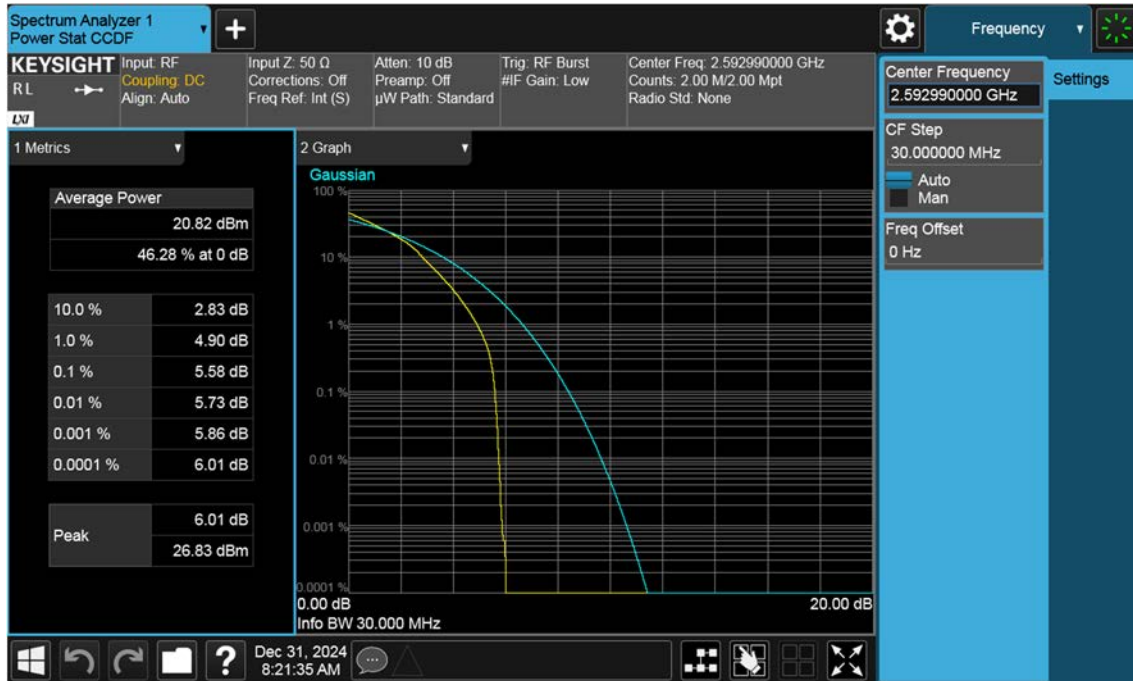
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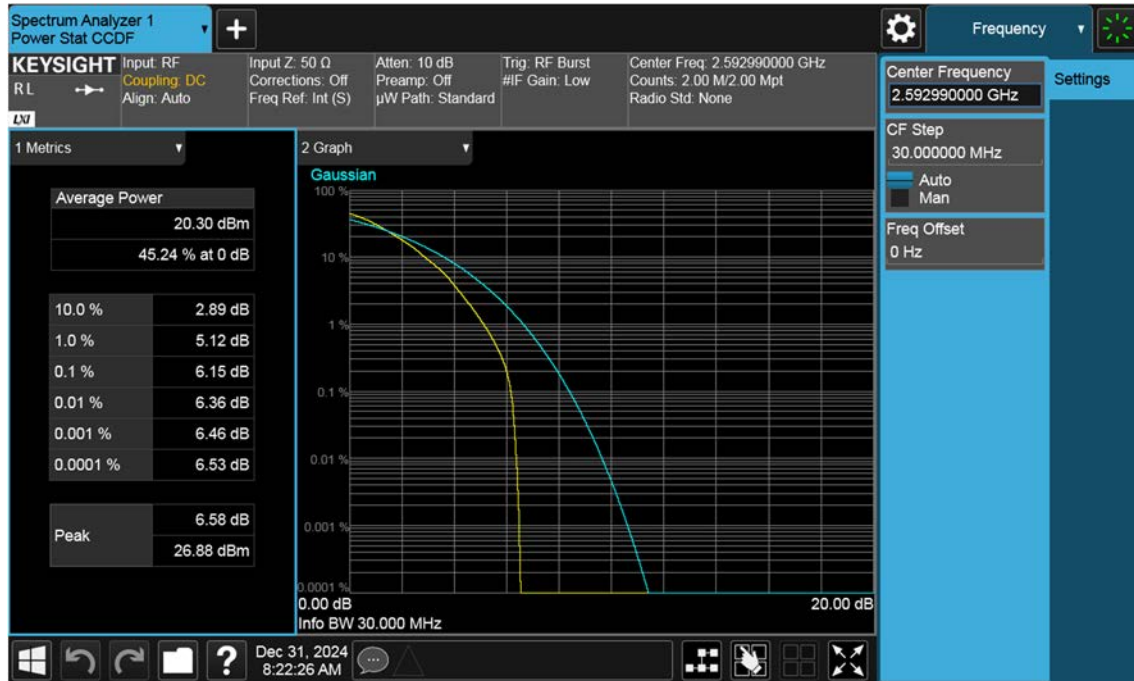
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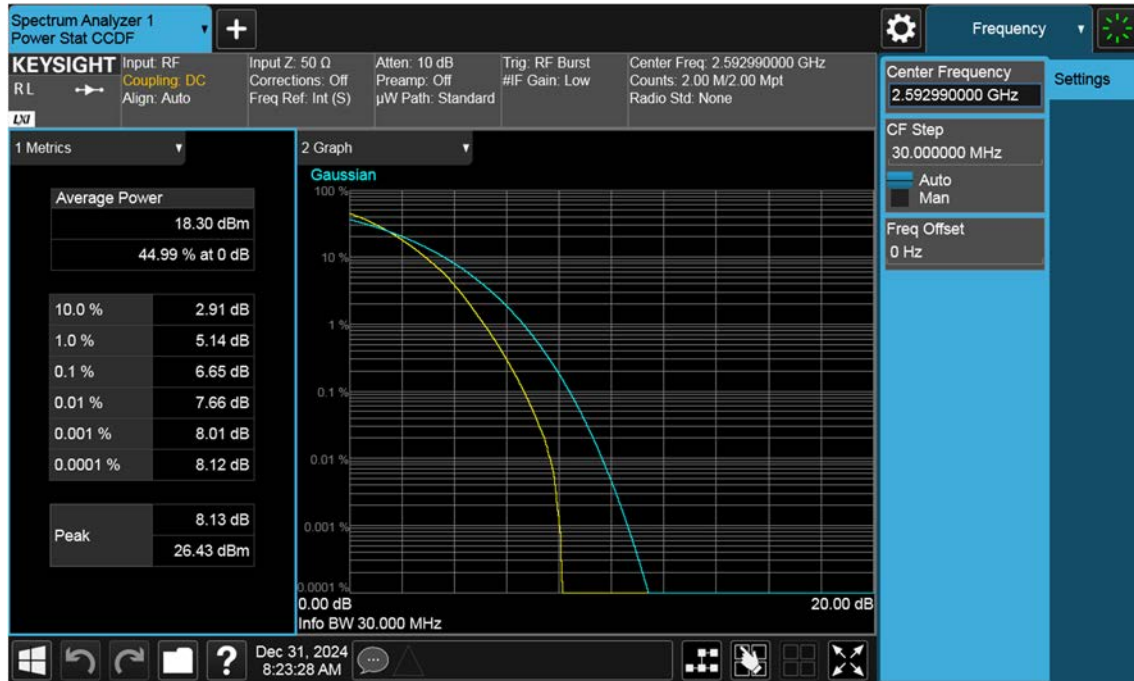
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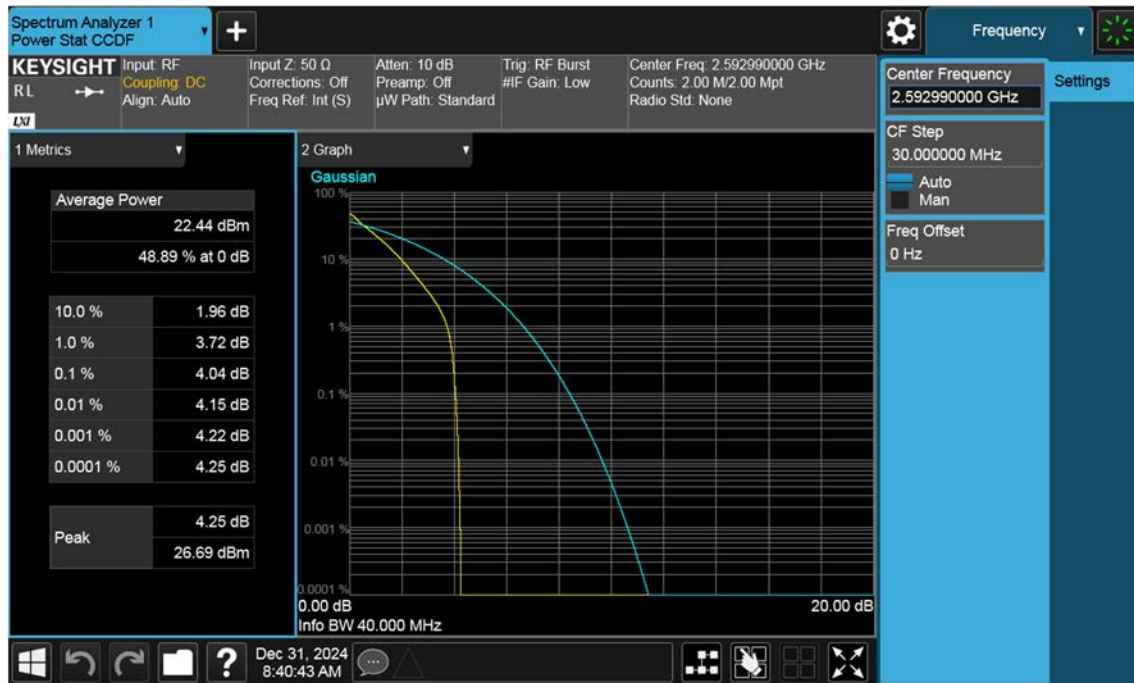
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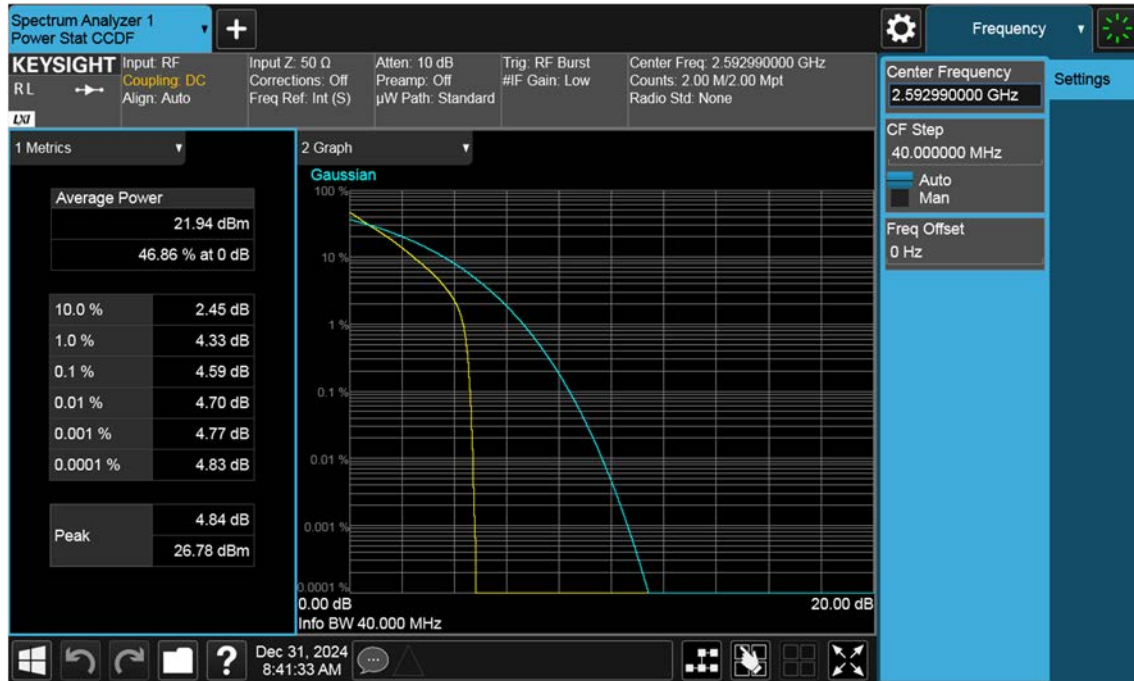
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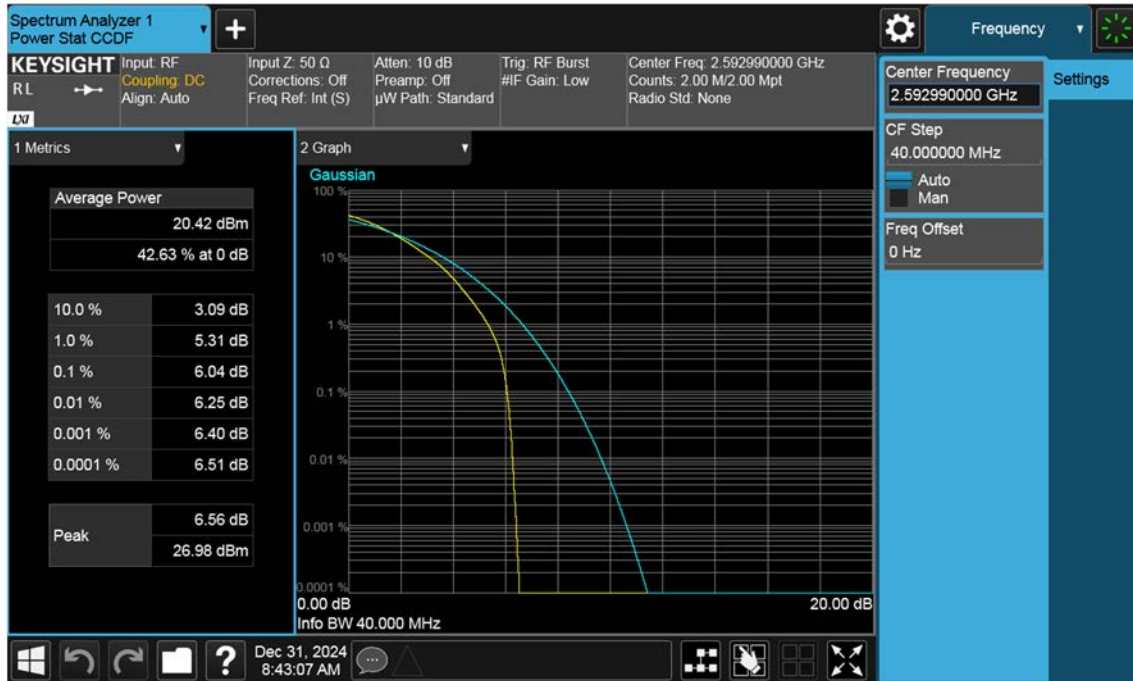
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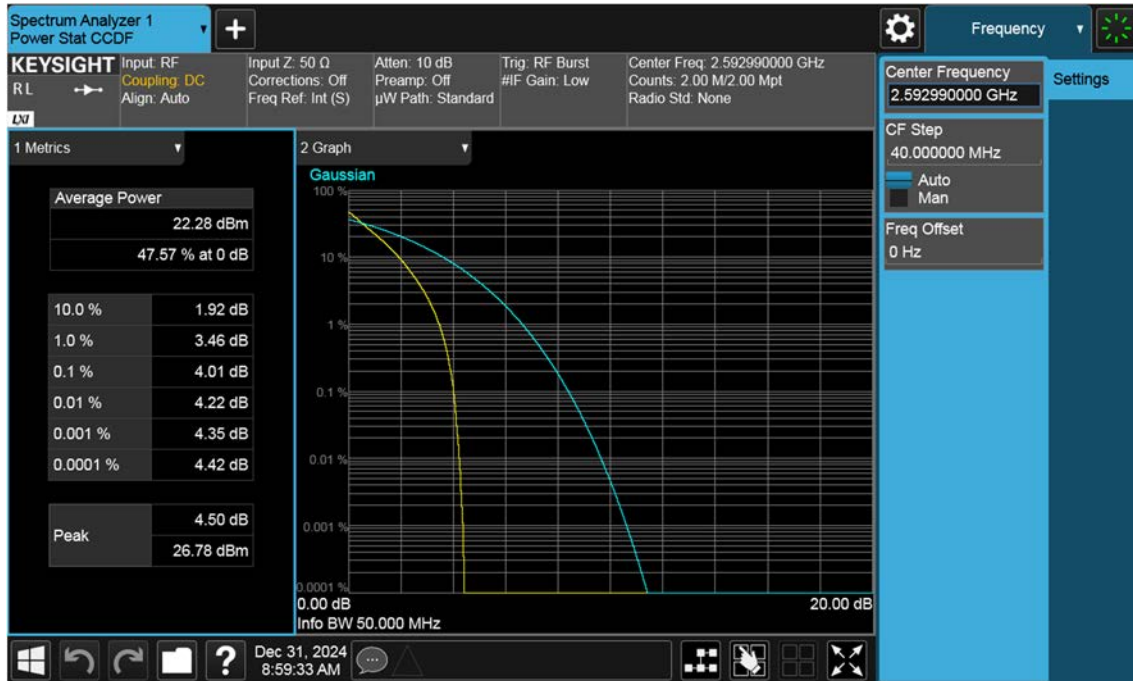
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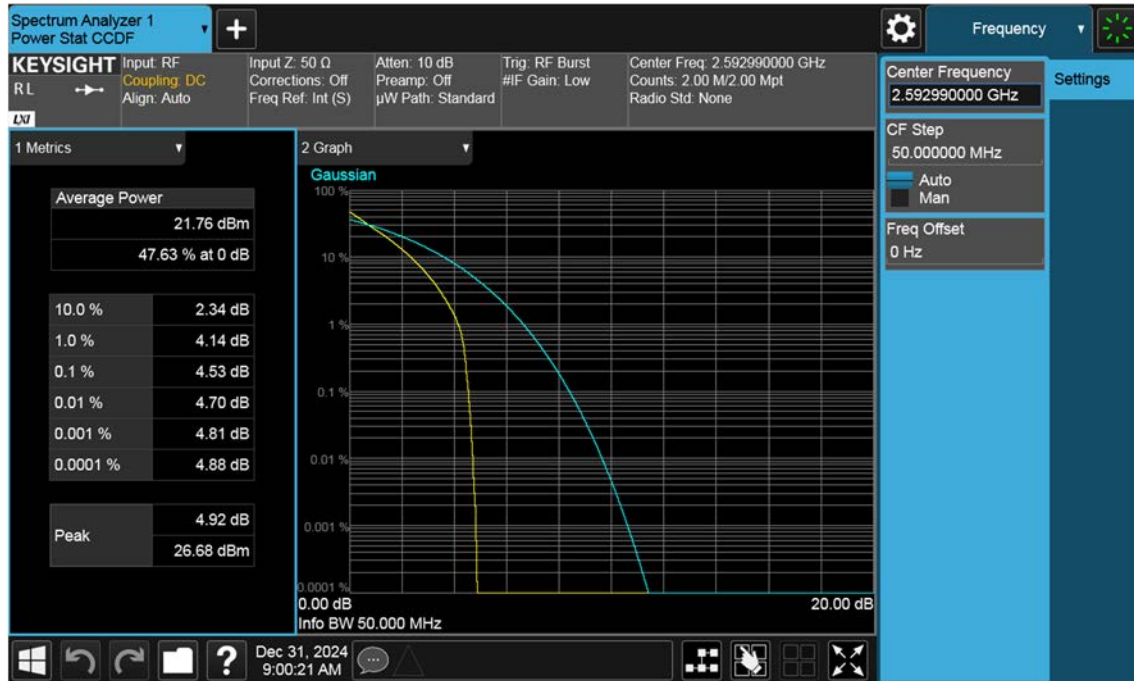
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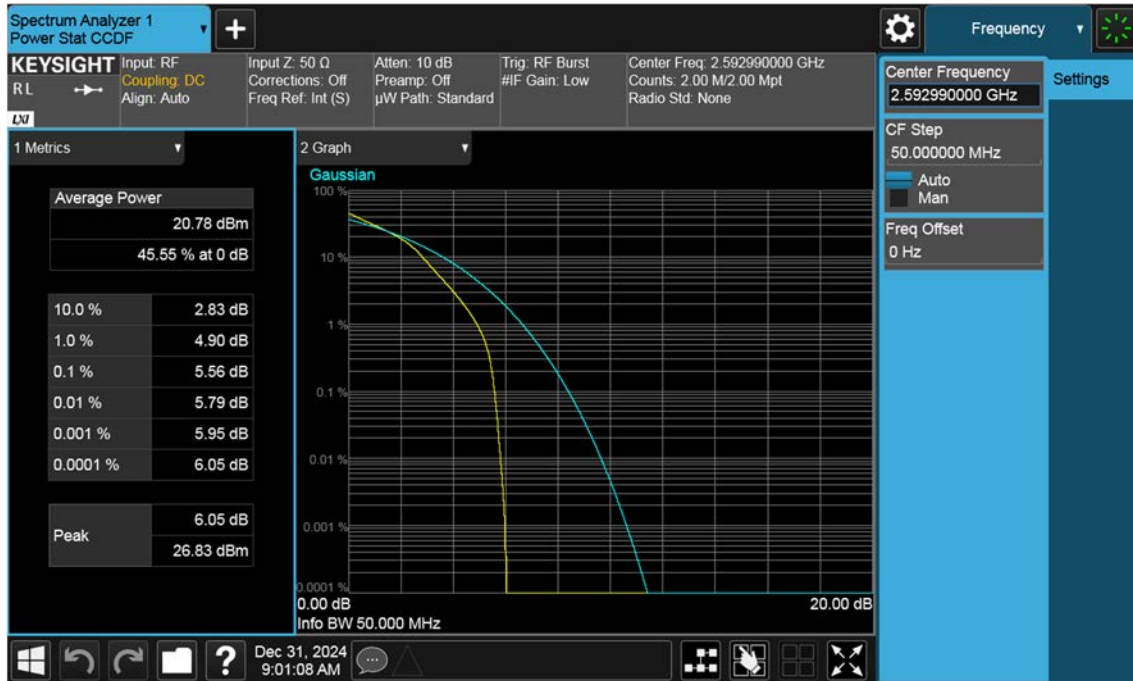
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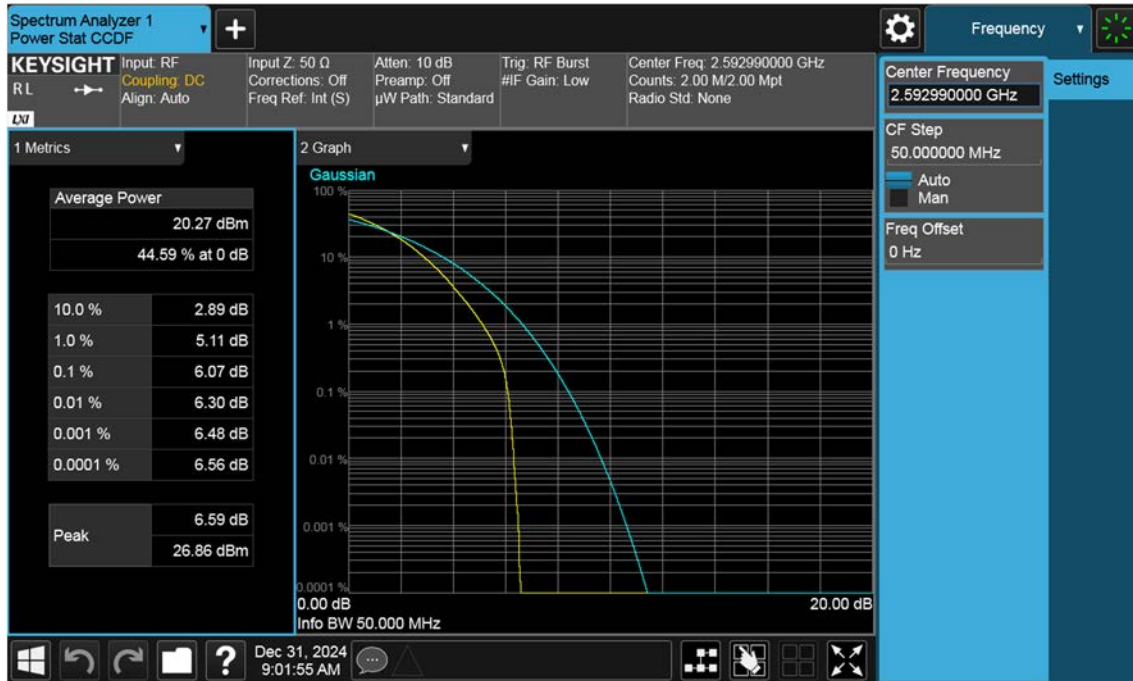
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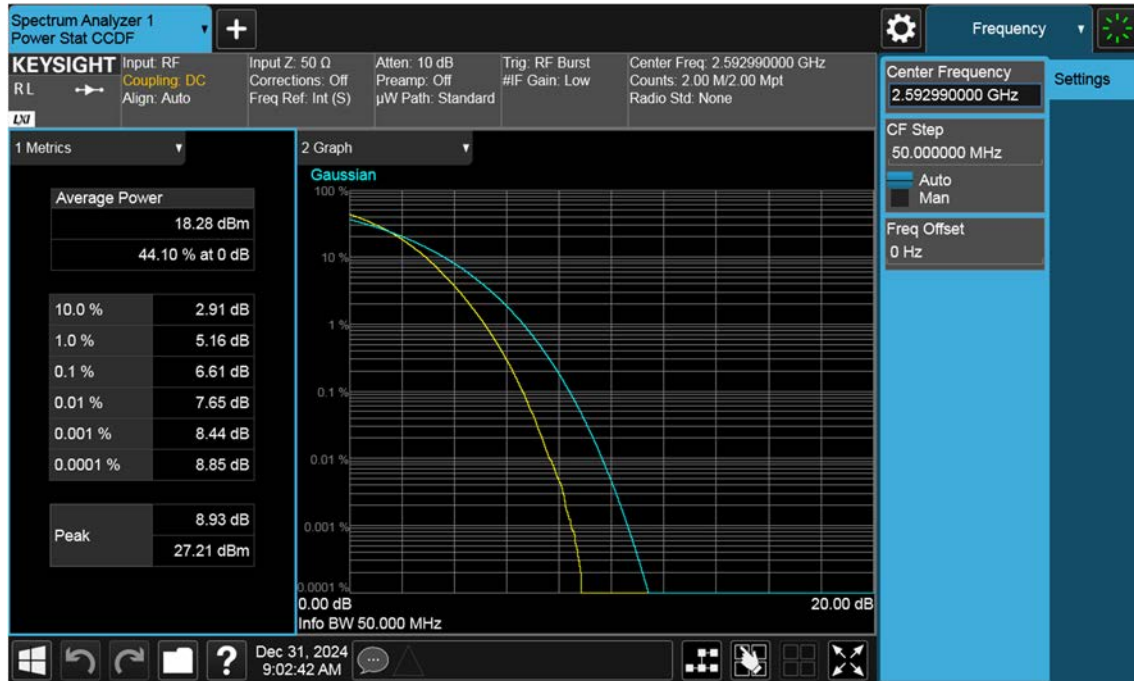
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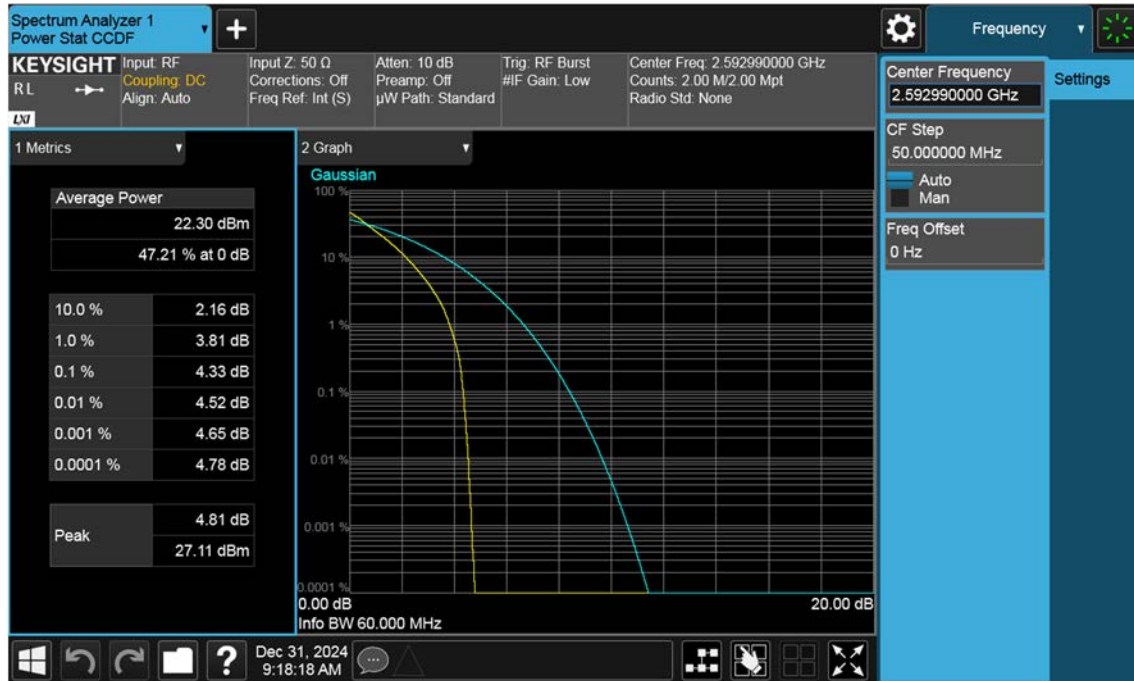
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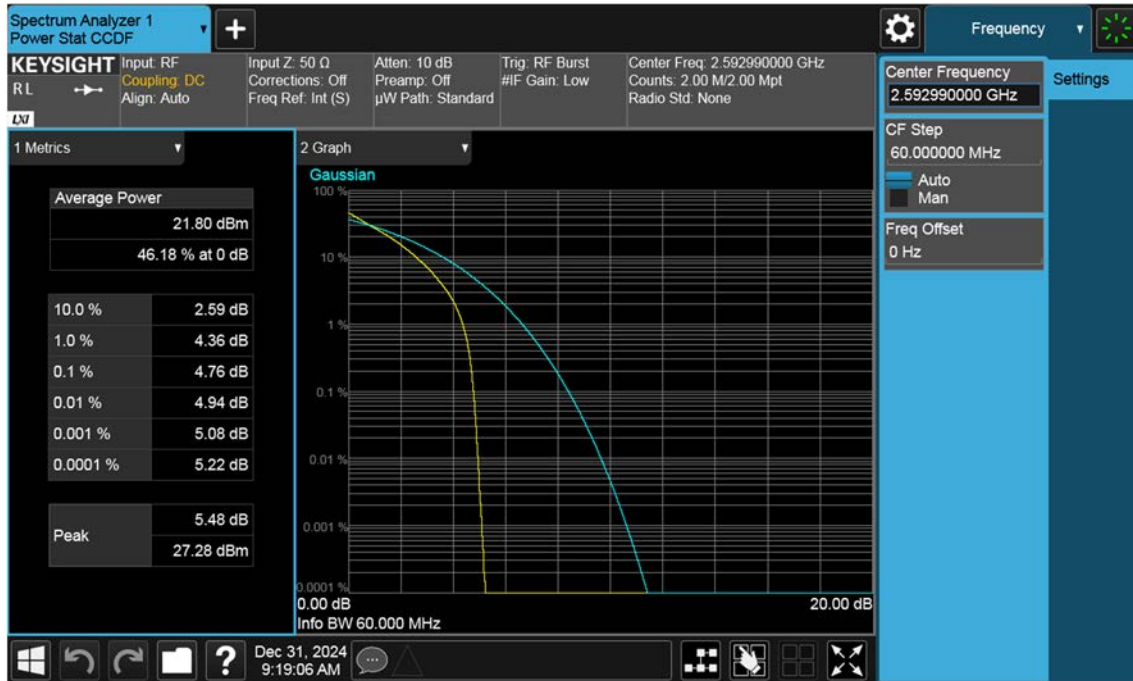
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NR41_60 M_PAR_Mid_BPSK_FullIRB



NR41_60 M_PAR_Mid_QPSK_FullRB



NR41_60 M_PAR_Mid_16QAM_FullRB



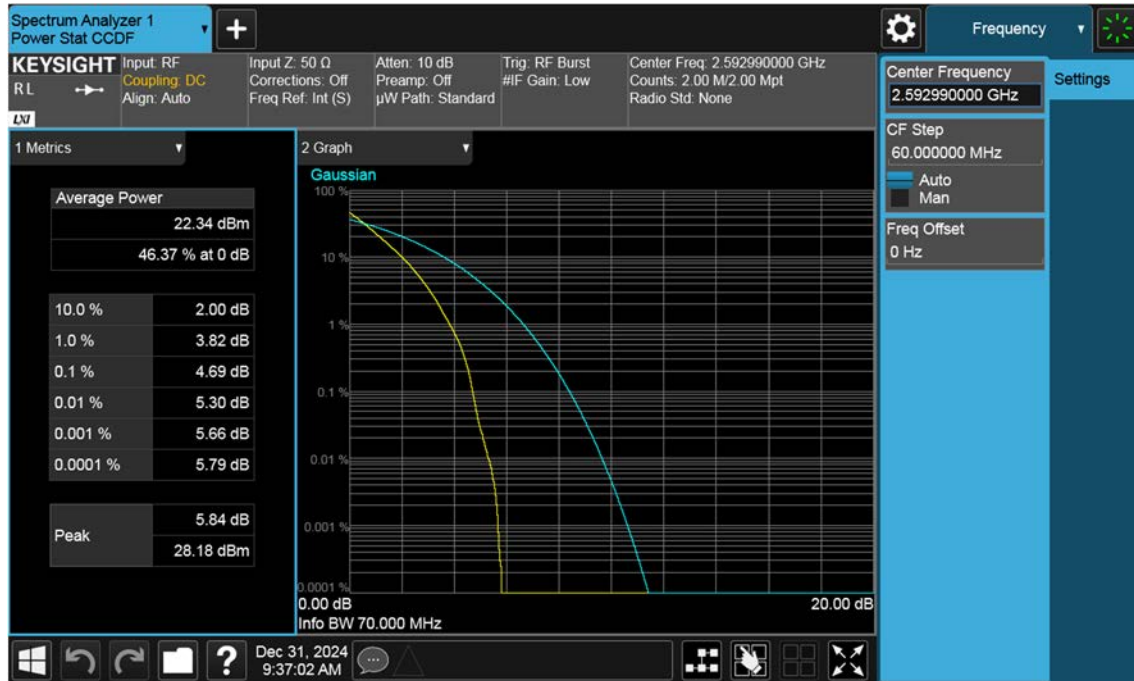
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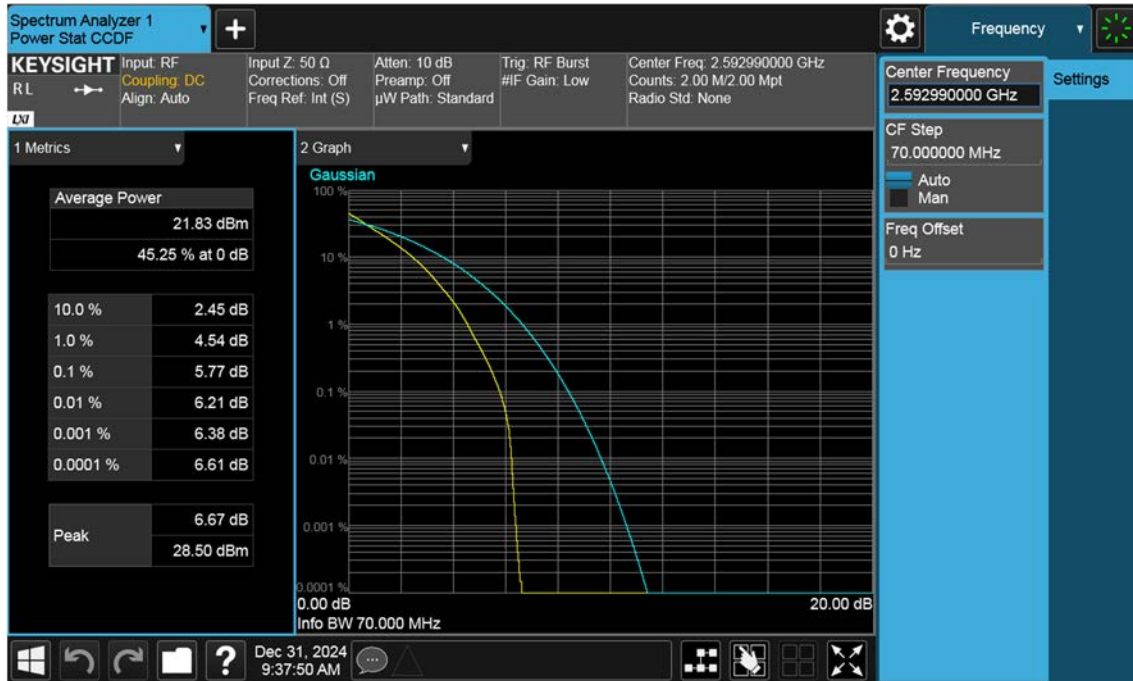
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NR41_70 M_PAR_Mid_BPSK_FullIRB



NR41_70 M_PAR_Mid_QPSK_FullRB



NR41_70 M_PAR_Mid_16QAM_FullRB



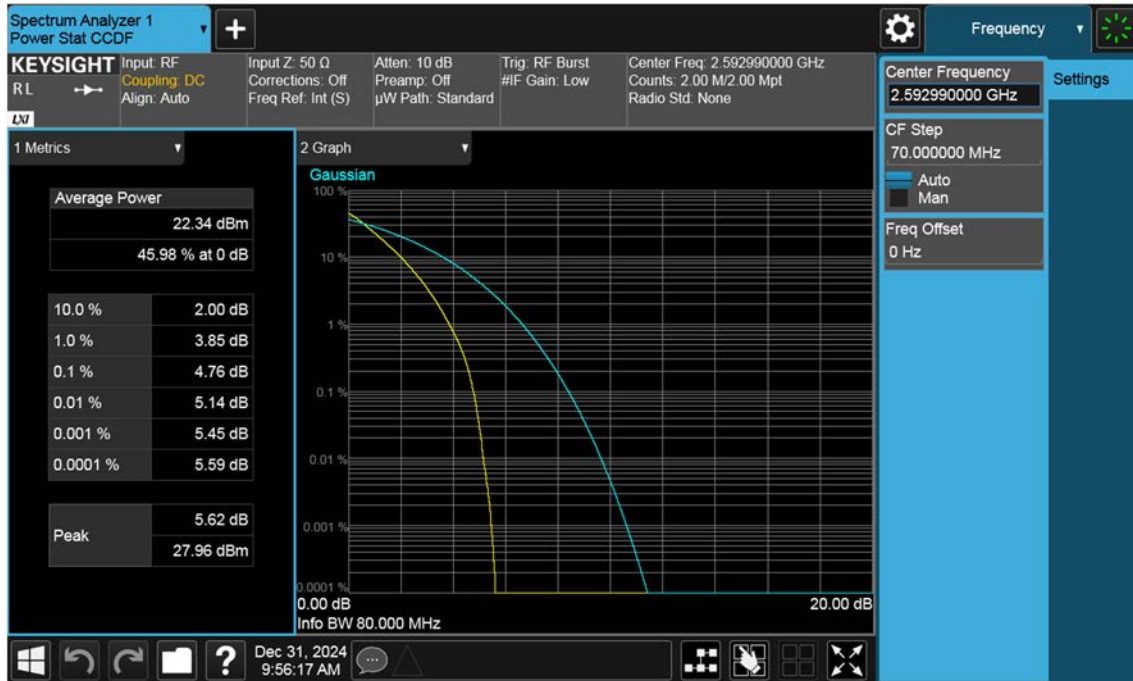
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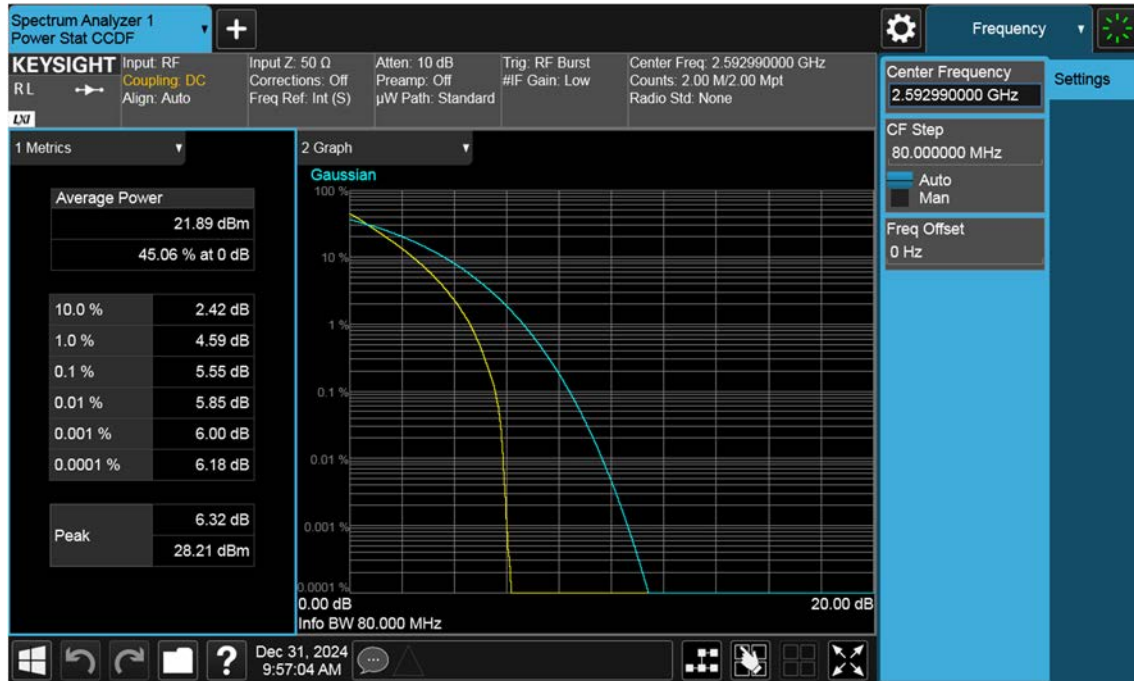
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NR41_80 M_PAR_Mid_BPSK_FullIRB



NR41_80 M_PAR_Mid_QPSK_FullRB



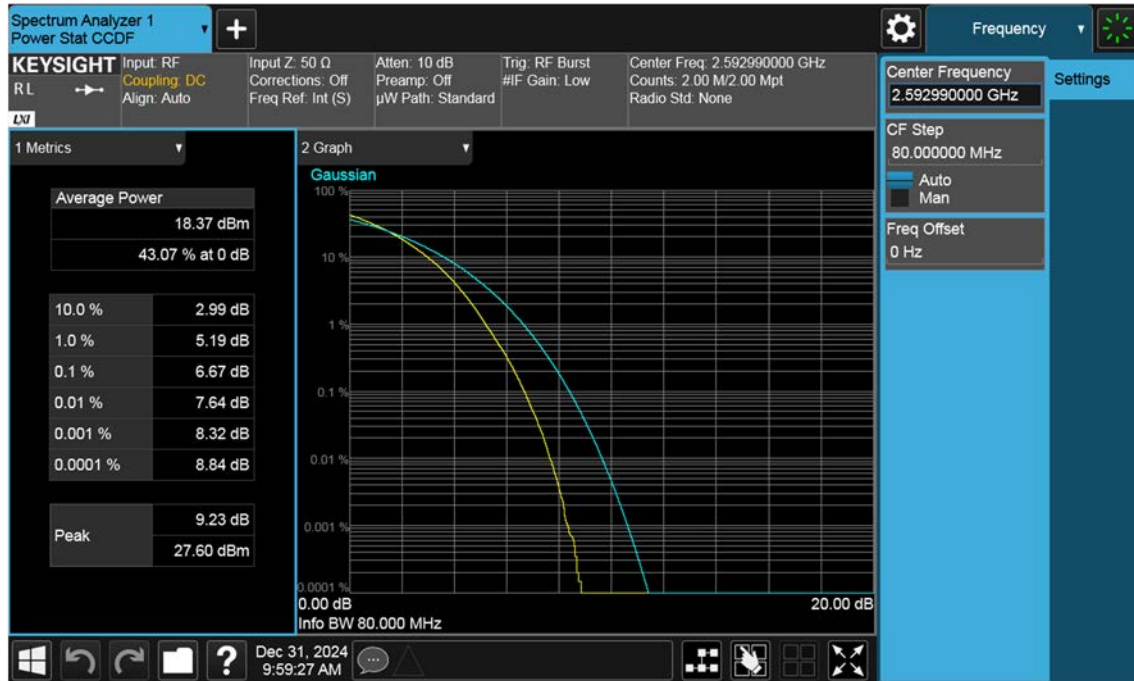
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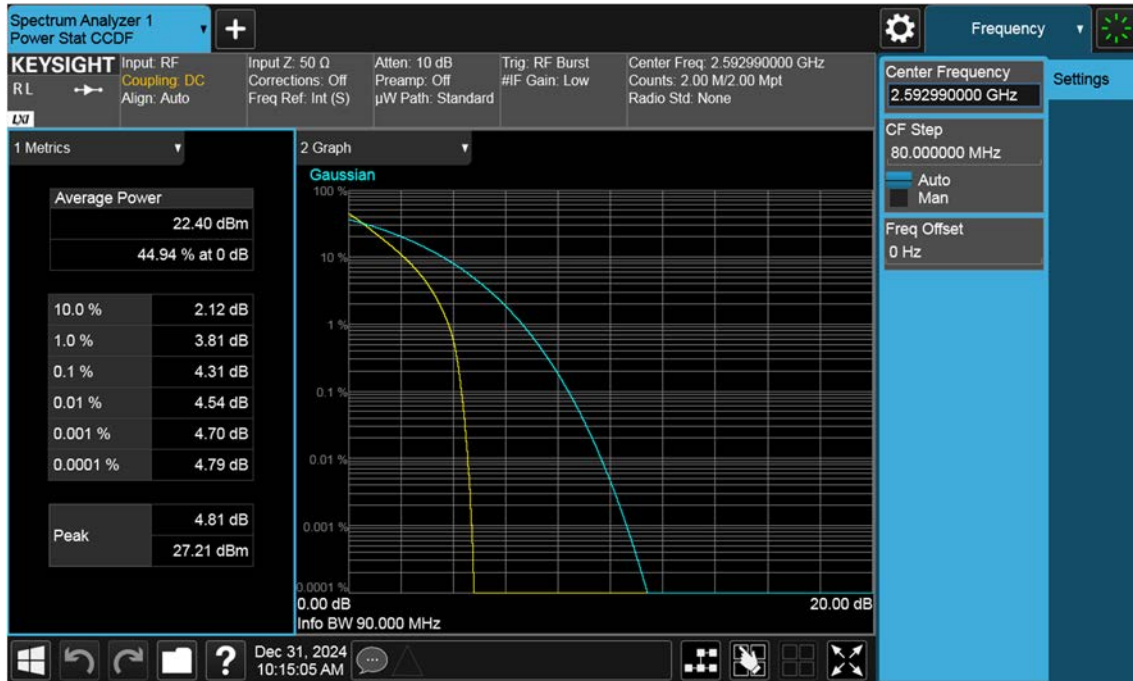
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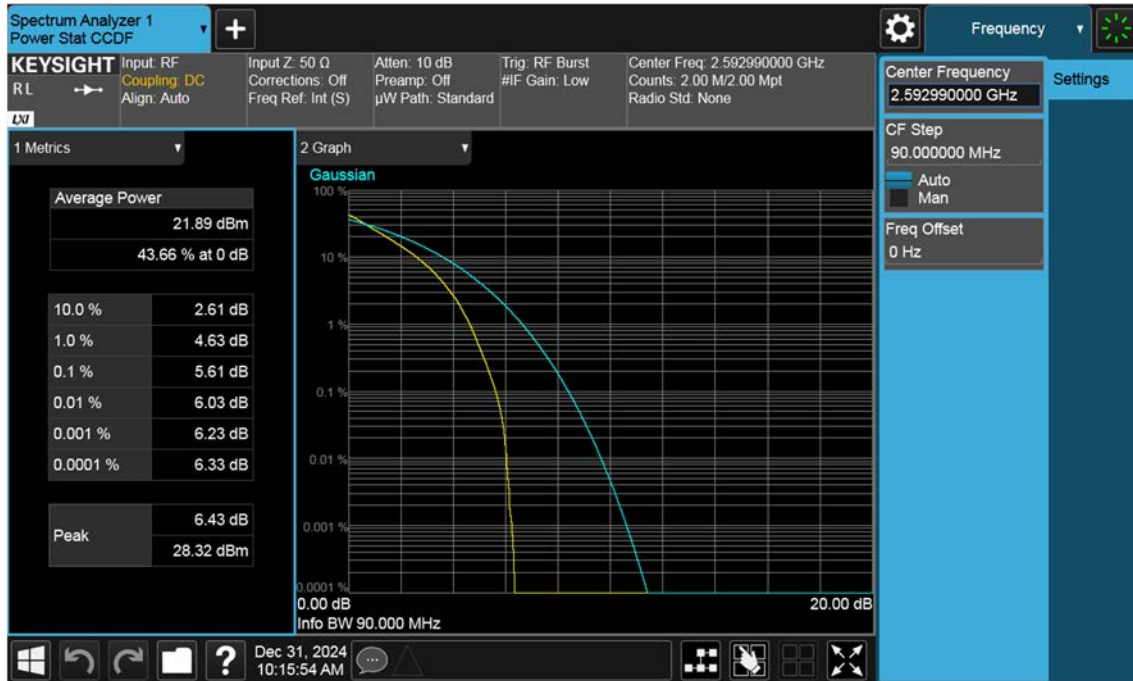
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NR41_90 M_PAR_Mid_BPSK_FullIRB



NR41_90 M_PAR_Mid_QPSK_FullRB



NR41_90 M_PAR_Mid_16QAM_FullRB



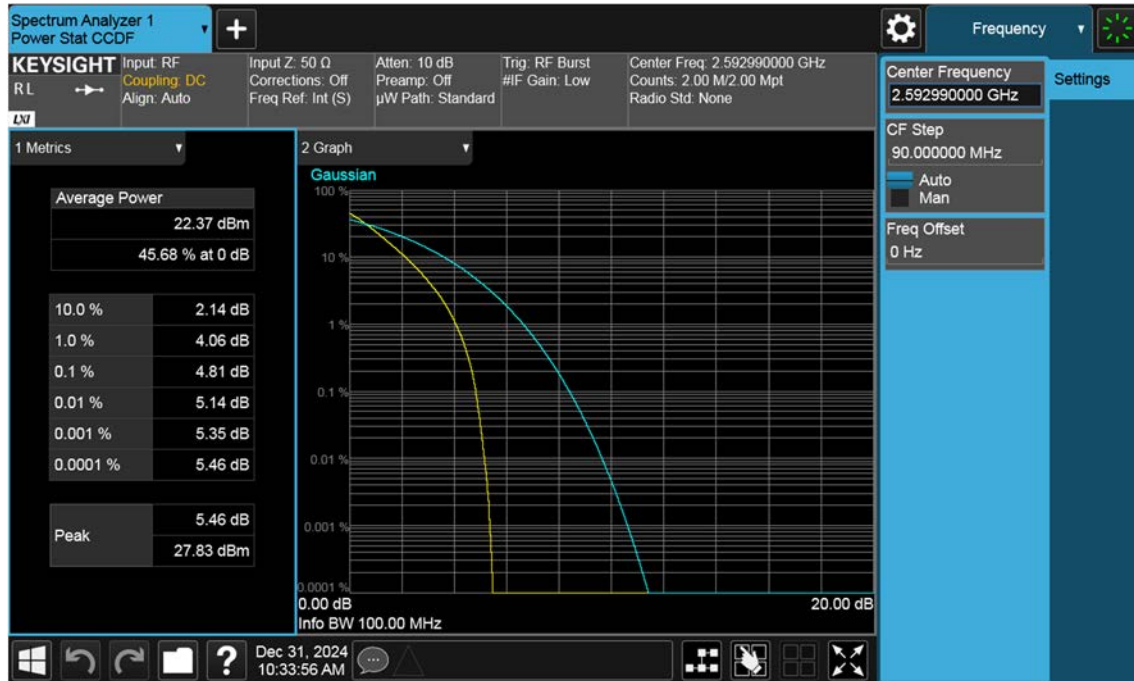
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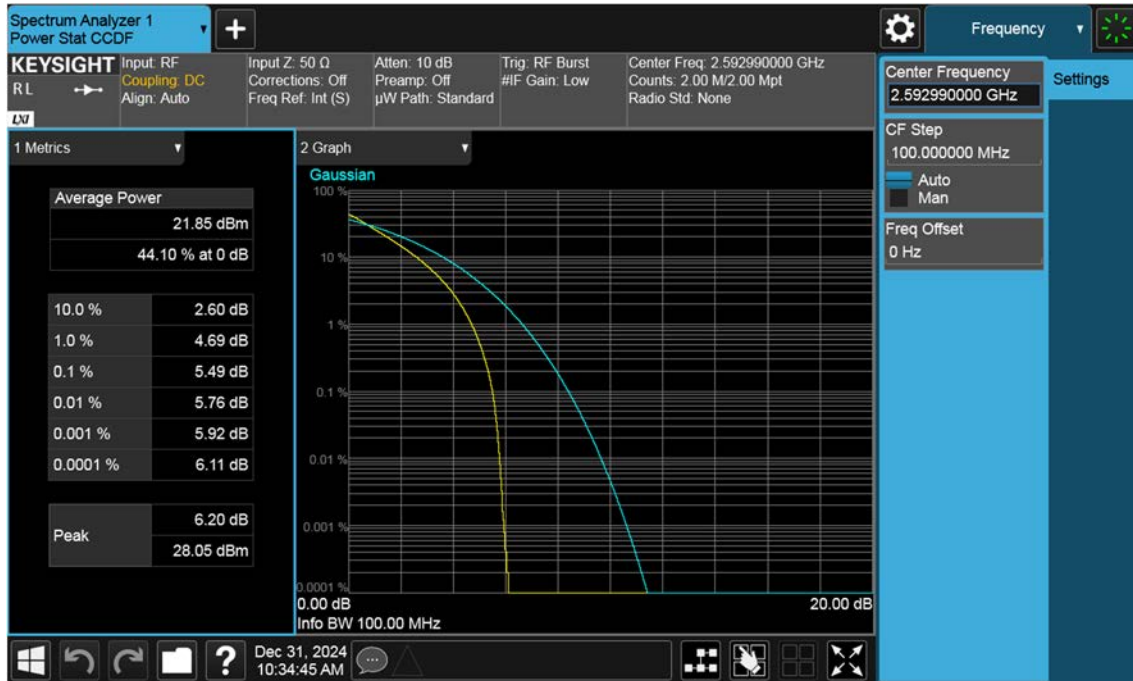
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NR41_100 M_PAR_Mid_BPSK_FullRB



NR41_100 M_PAR_Mid_QPSK_FullRB



NR41_100 M_PAR_Mid_16QAM_FullRB



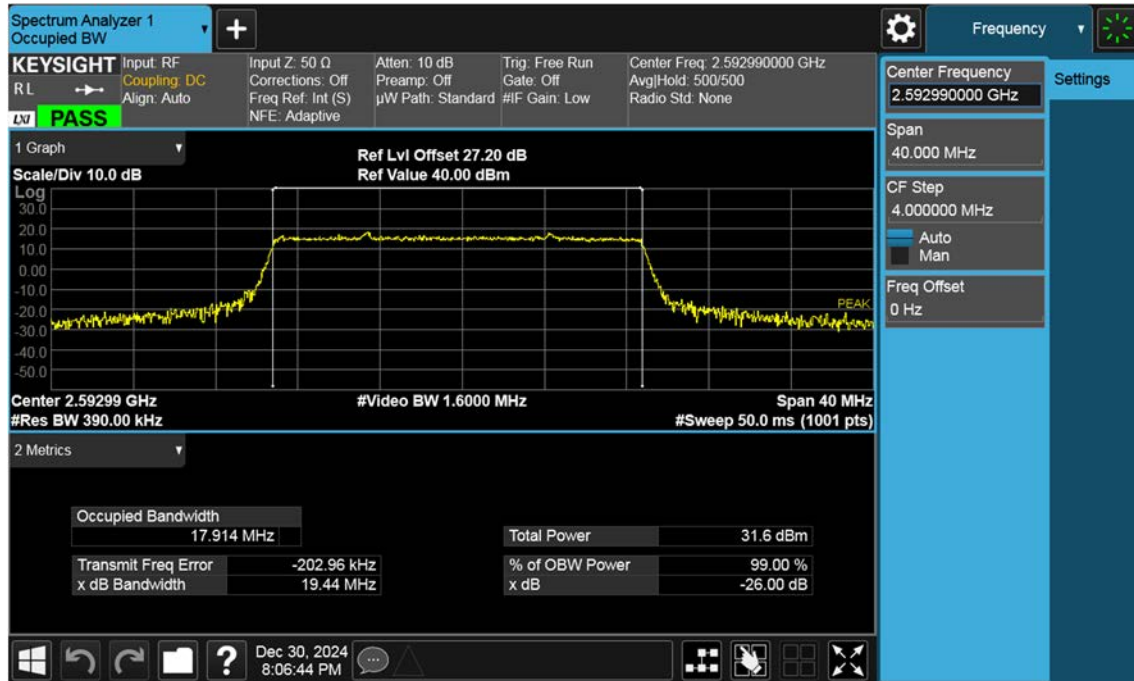
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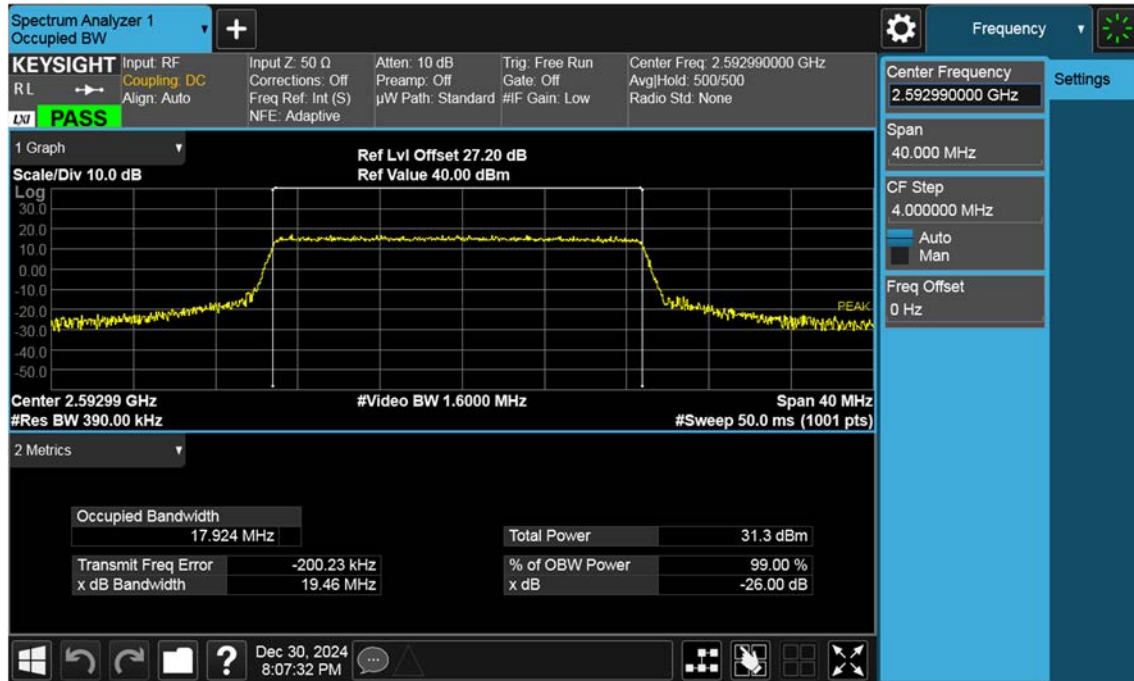
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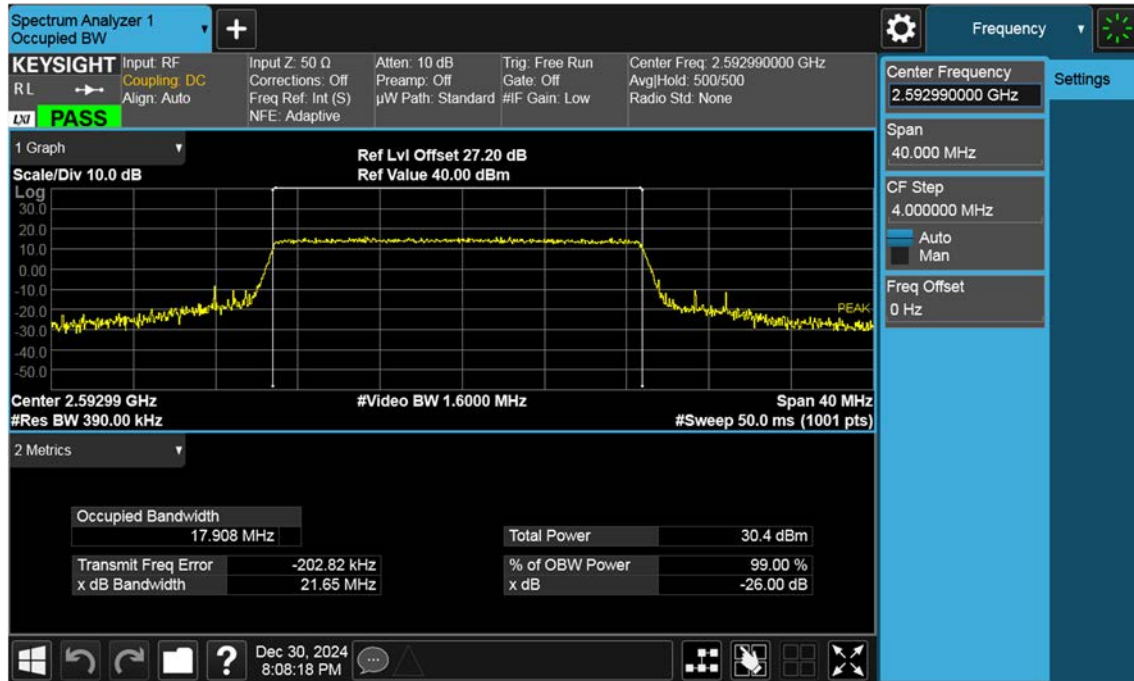
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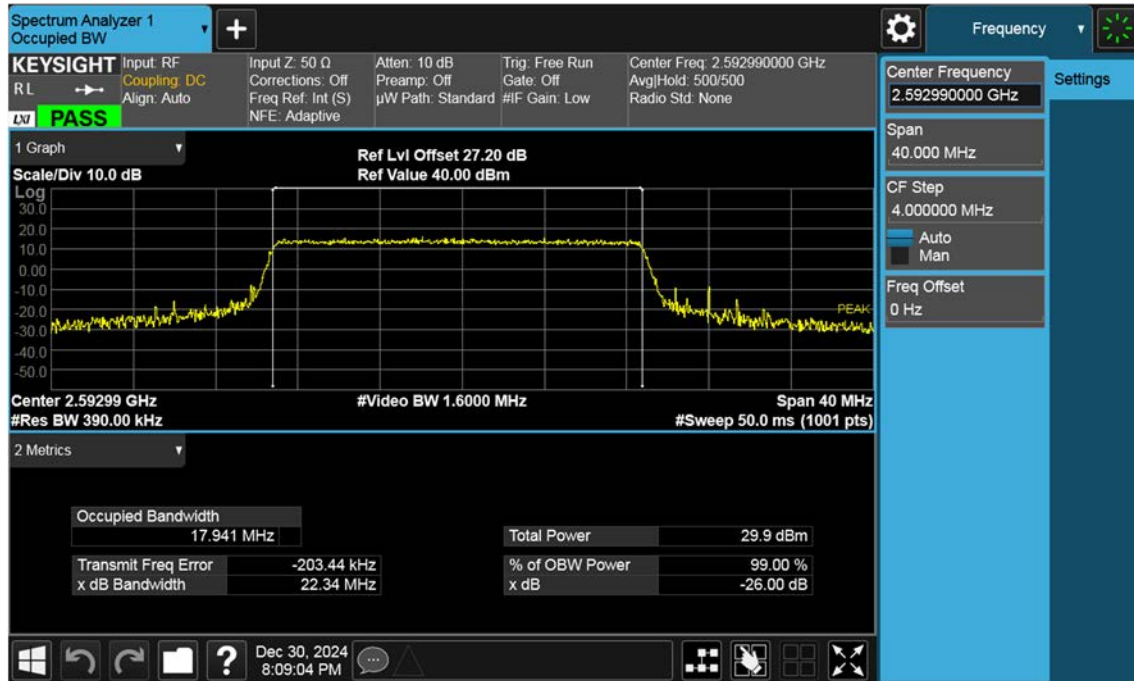
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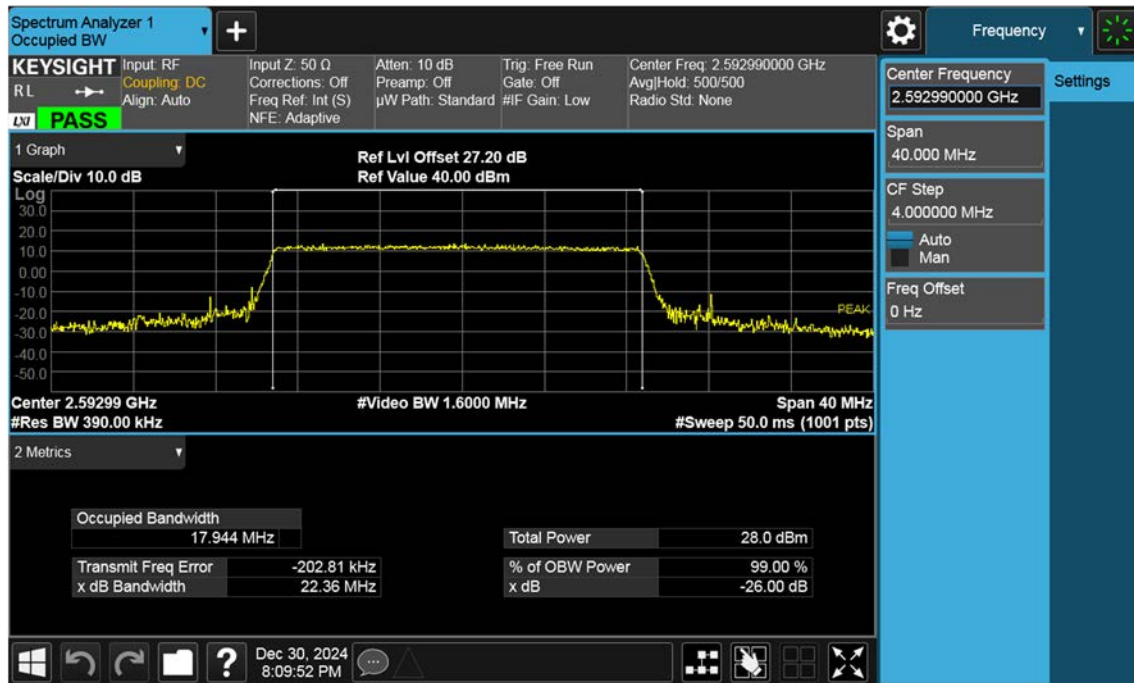
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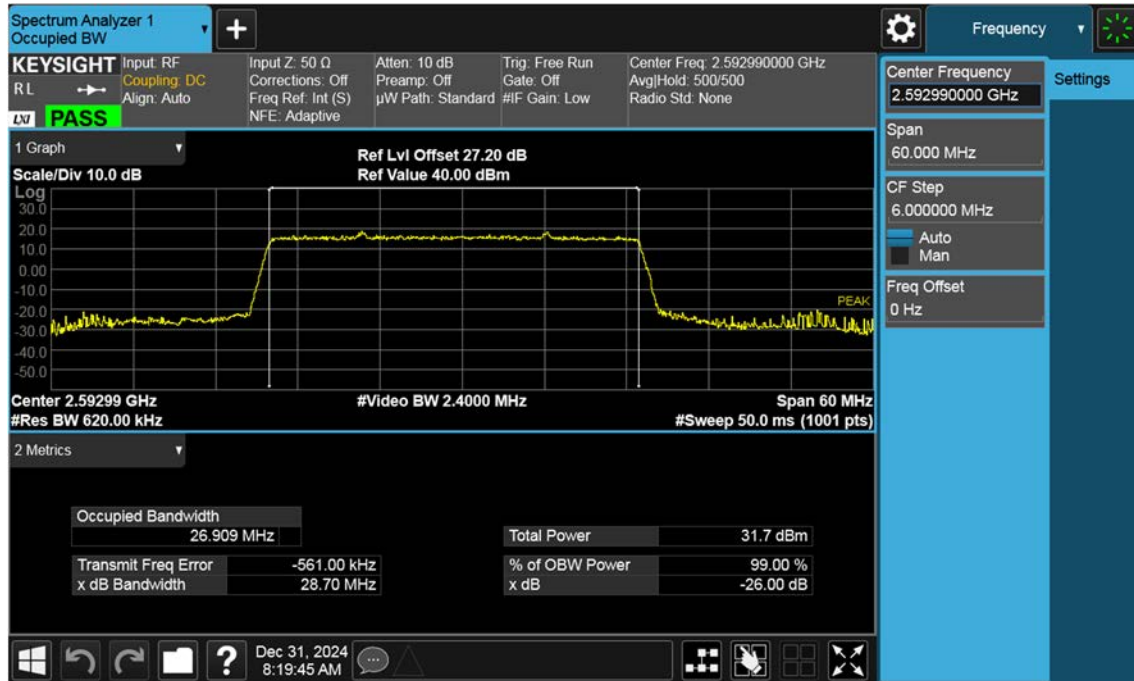
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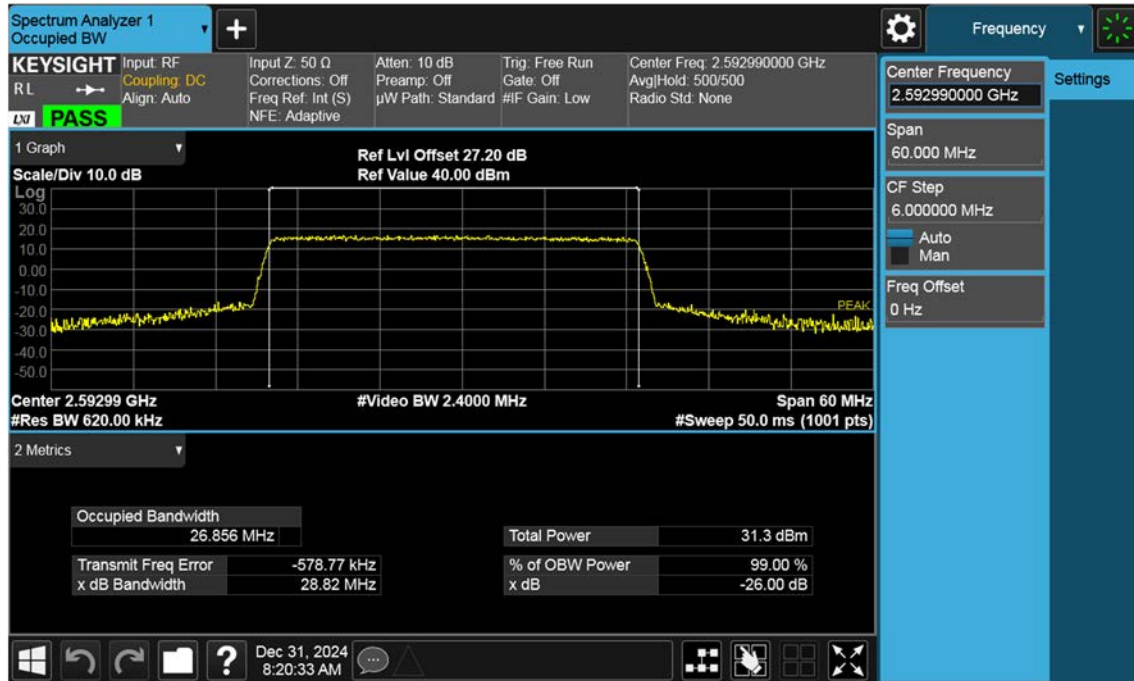
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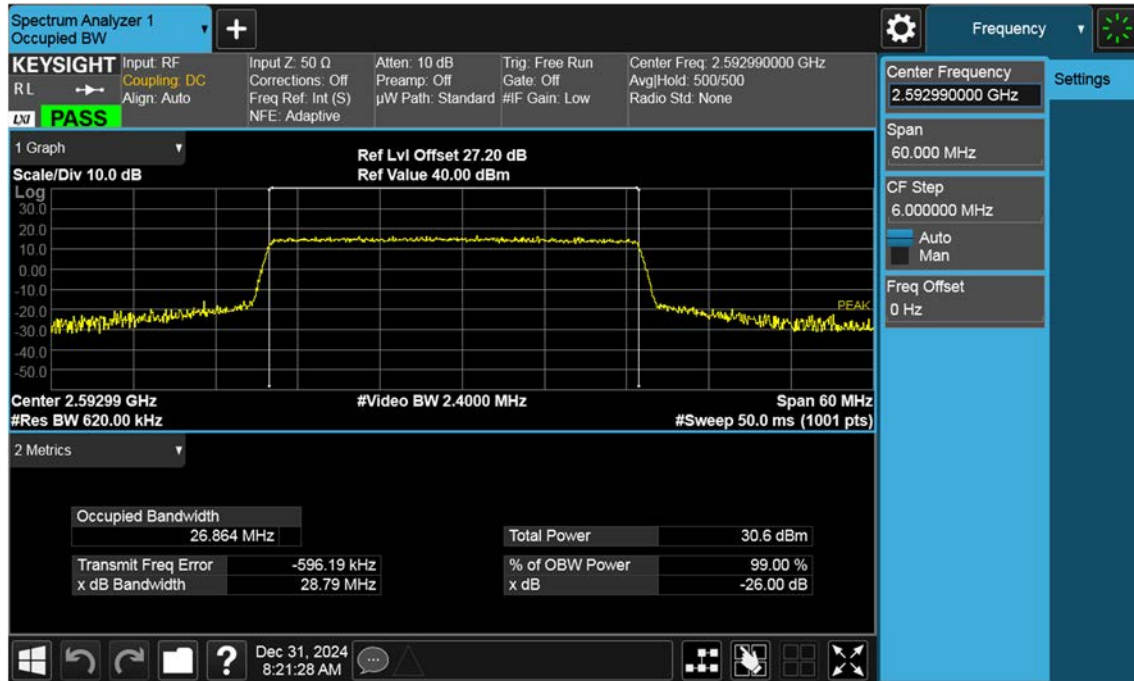
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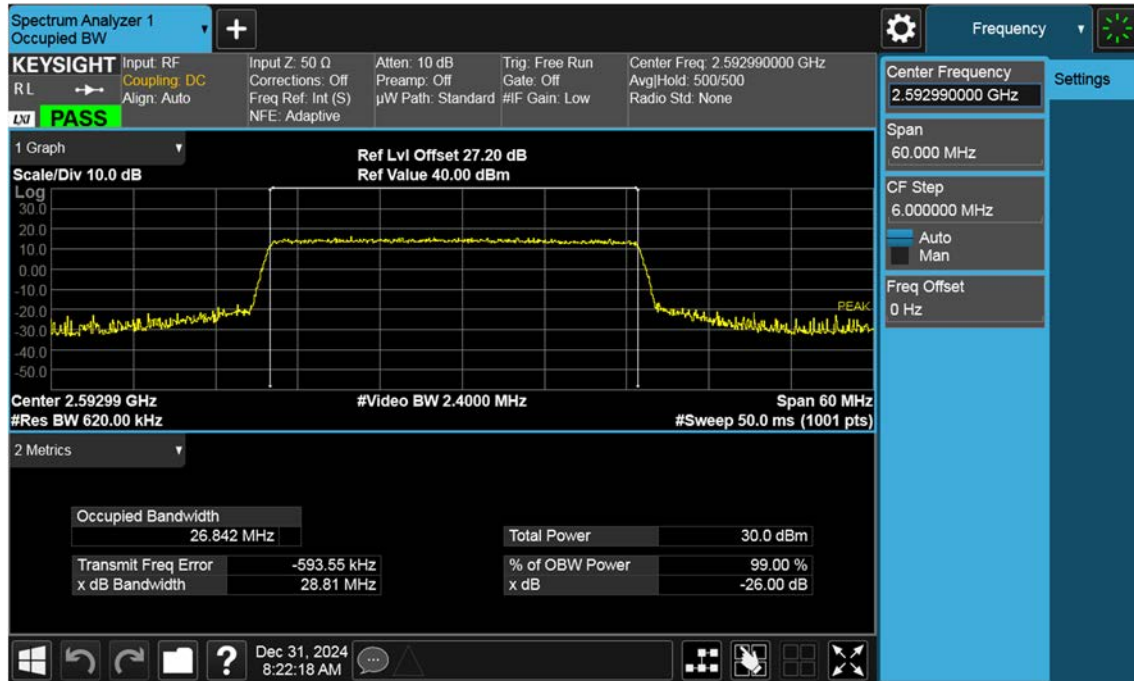
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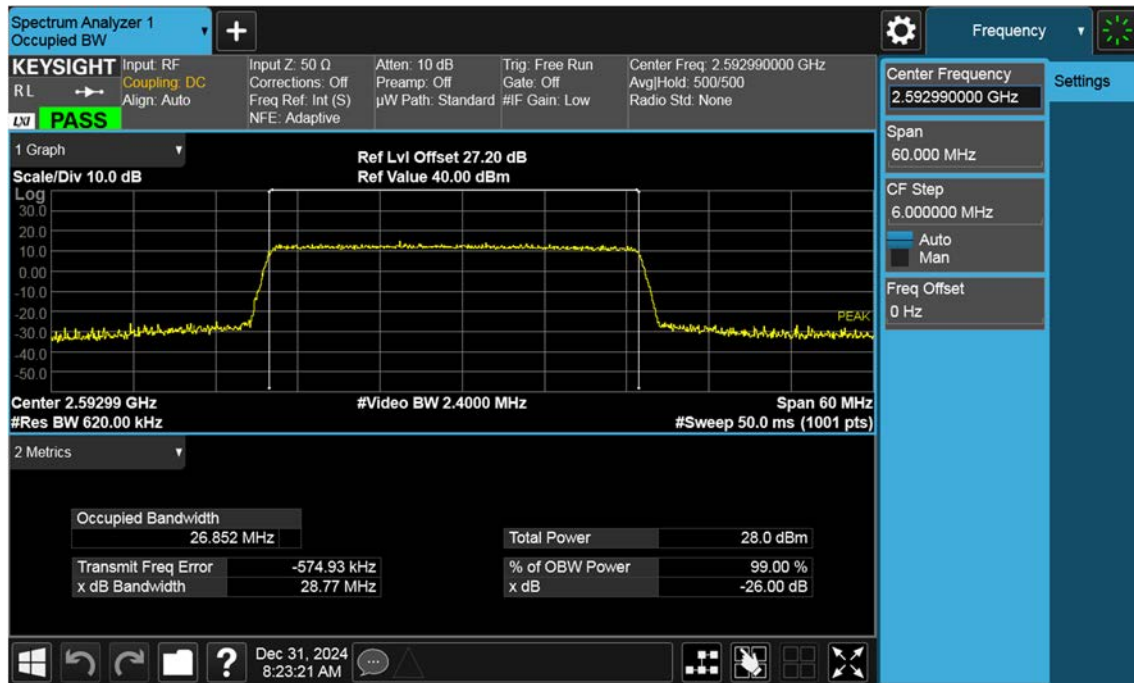
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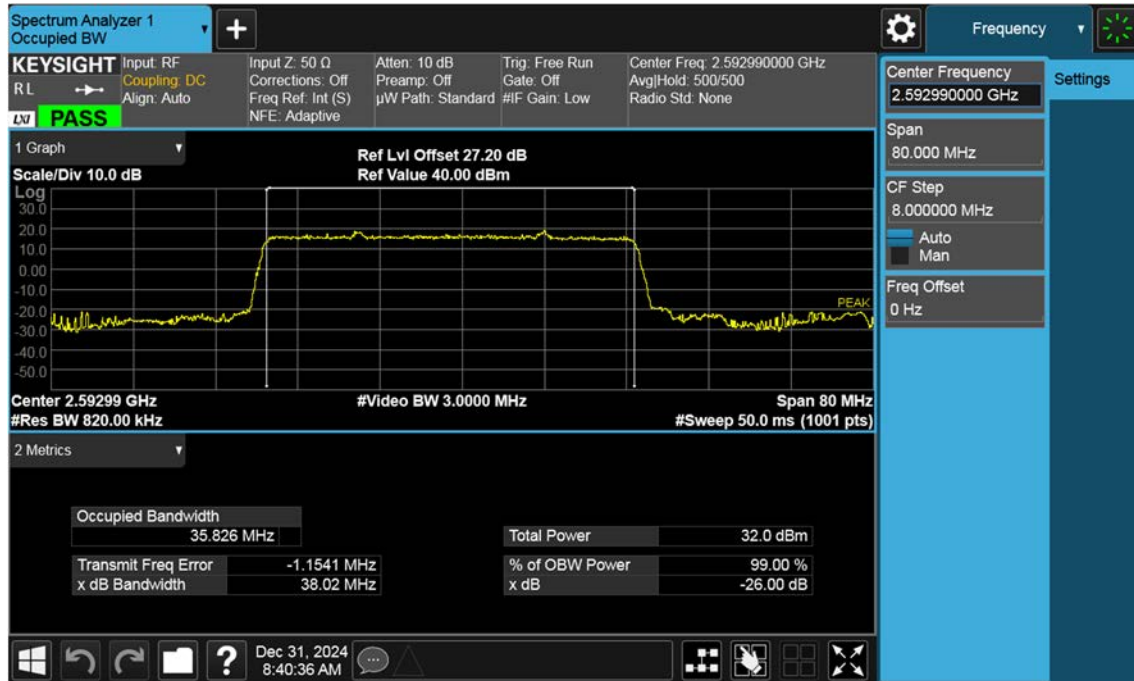
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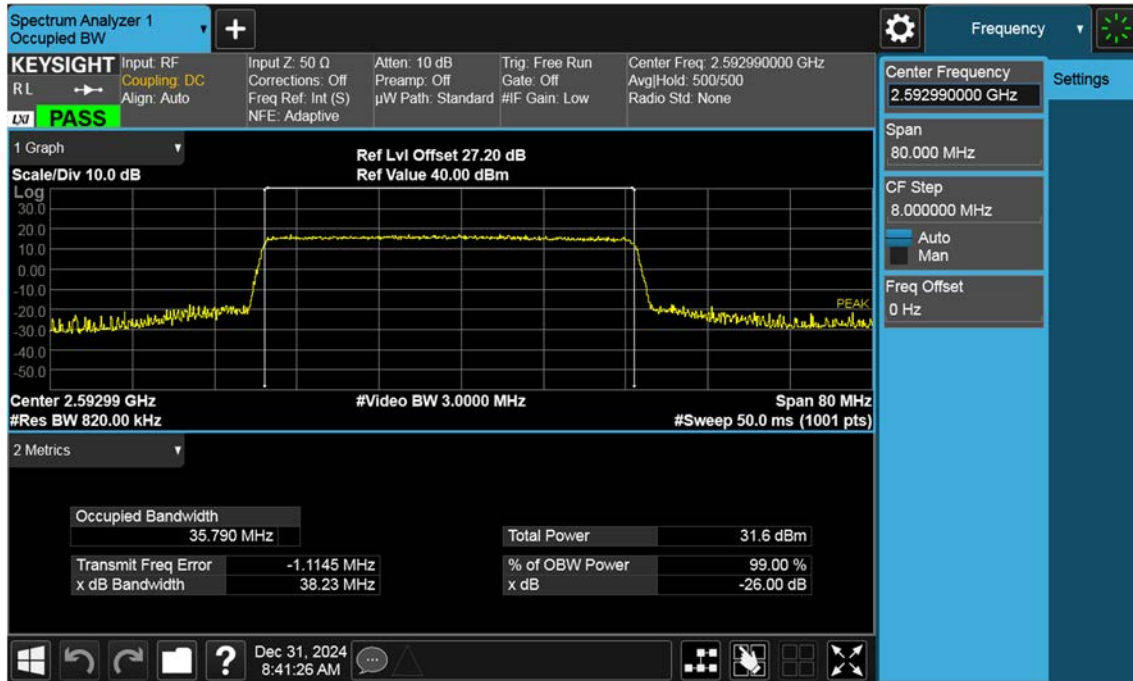
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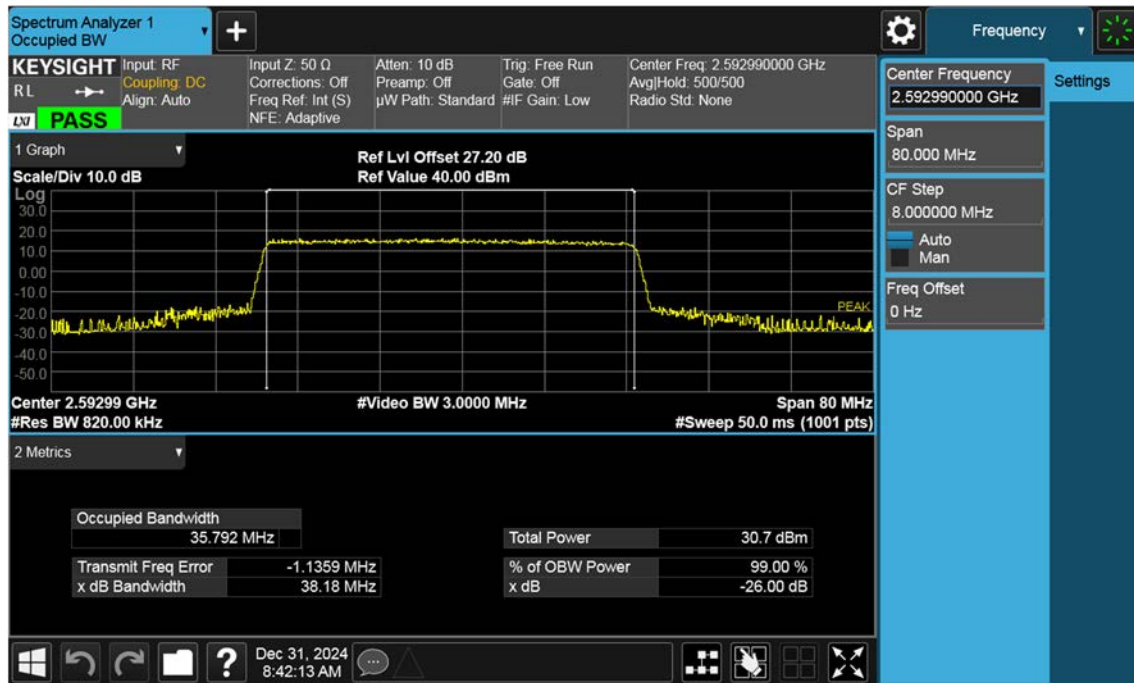
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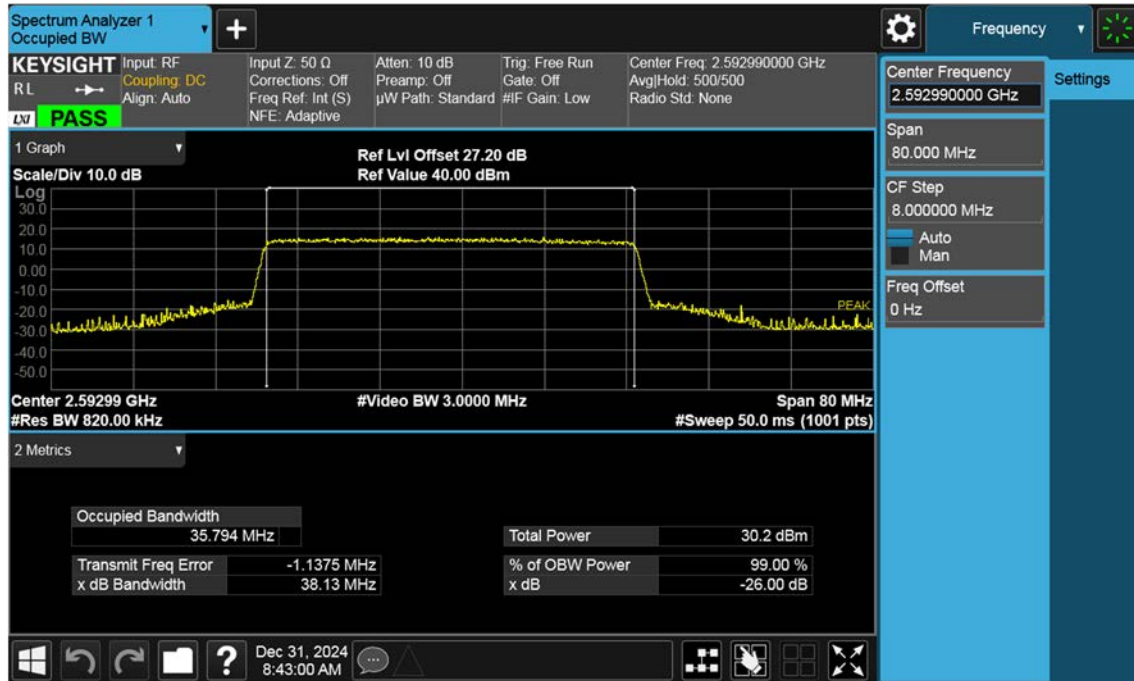
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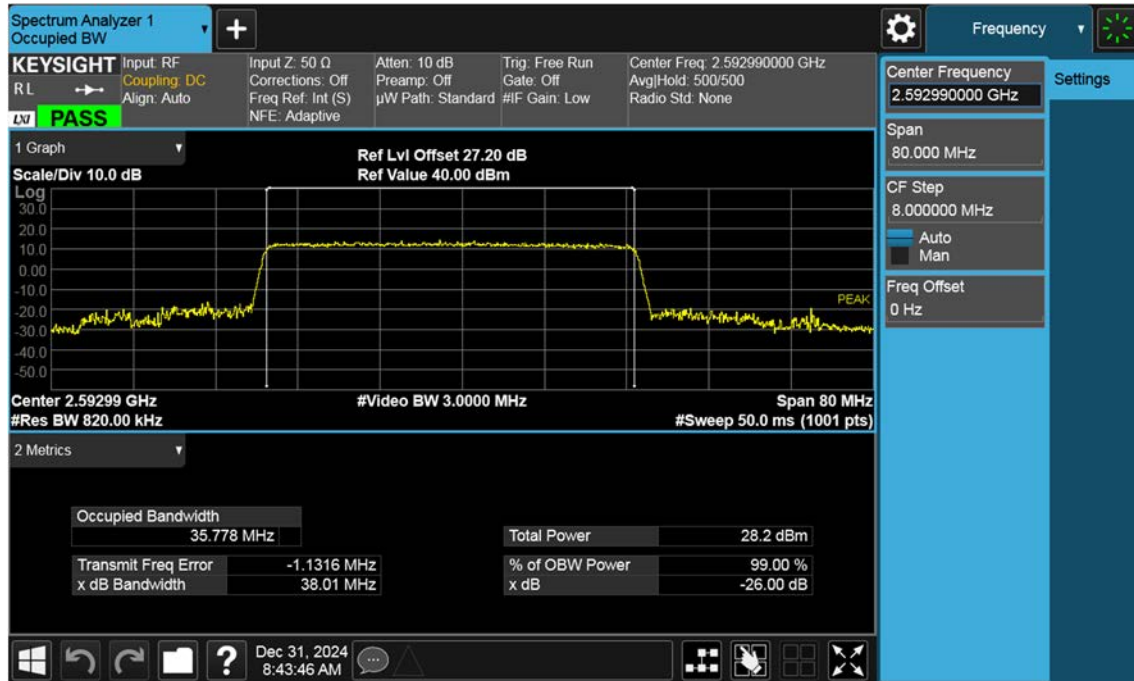
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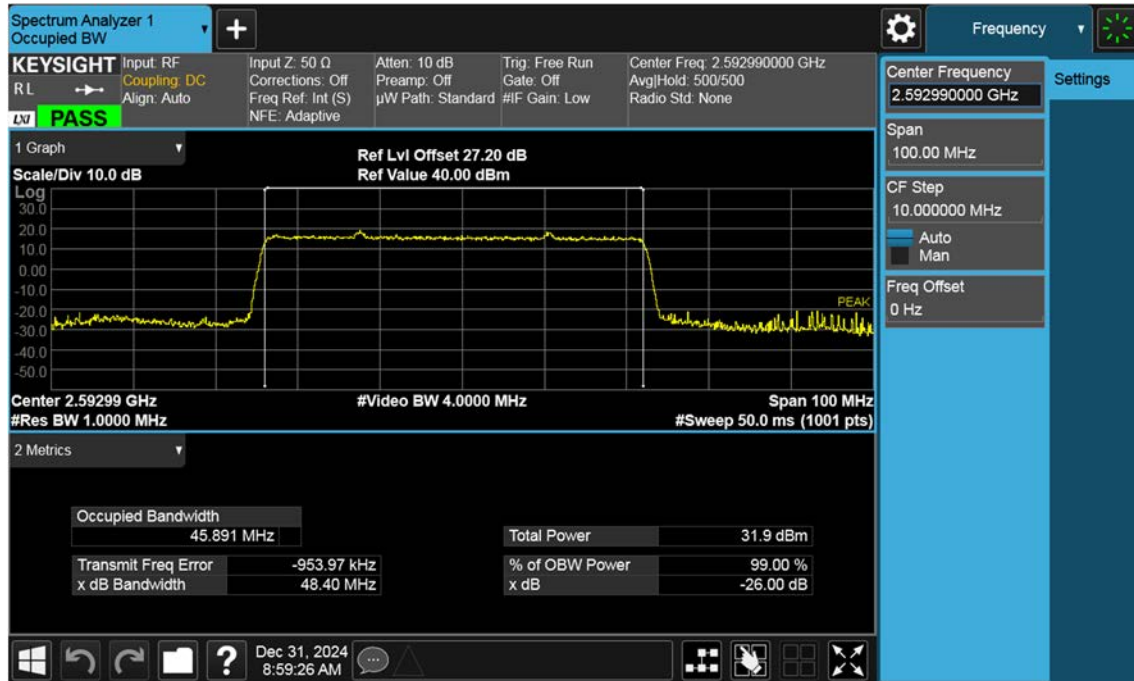
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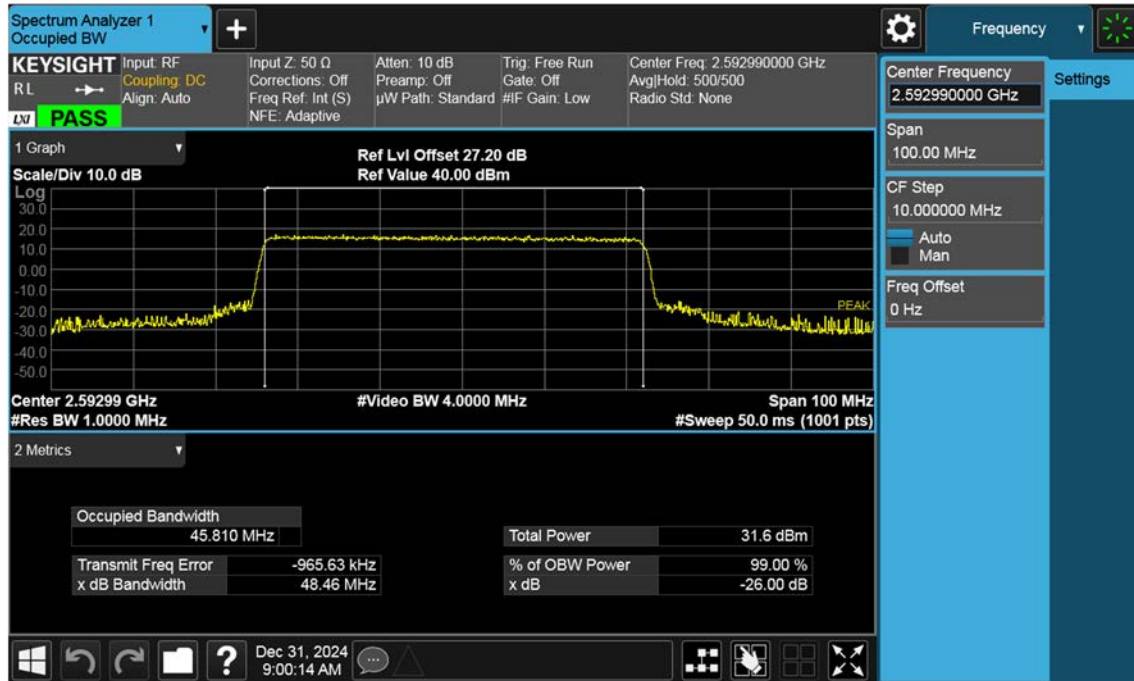
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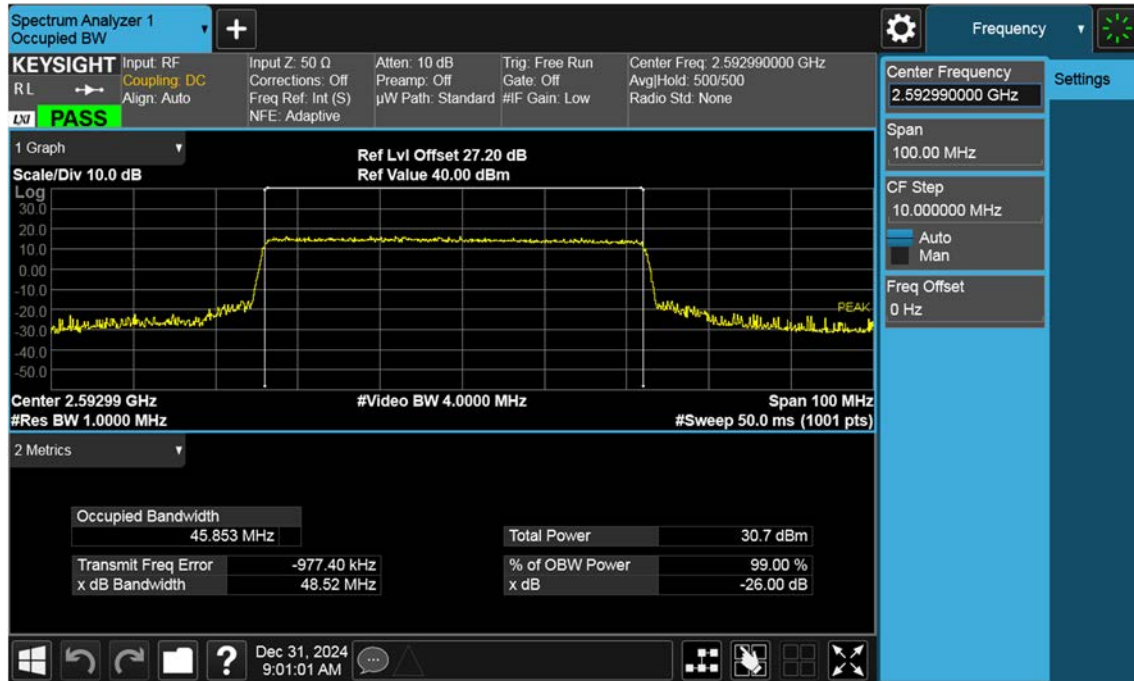
NR41_50 M_OBW_Mid_BPSK_FullRB



NR41_50 M_OBW_Mid_QPSK_FullIRB



NR41_50 M_OBW_Mid_16QAM_FullRB



NR41_50 M_OBW_Mid_64QAM_FullRB

