

TEST REPORT

FCC Sub6 n41 Test for TM18FNNABM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2506-FC068

DATE OF ISSUE
June 17, 2025

Tested by
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Technical Manager
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Accredited by KOLAS, Republic of KOREA

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TEST REPORT

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June 17, 2025

Applicant	LG Electronics Inc. 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM18FNNABM0
Date of Test	February 08, 2025 ~ June 13, 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	2B03LTM18FNNABM0
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	June 17, 2025	Initial Release

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:	2BO3LTM18FNNABM0
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Telematics
Model(s):	TM18FNNABM0
Voltage:	4.2V
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 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:	2501.010 – 2685.000 : 10 MHz(Sub6 n41) 2503.500 – 2682.480 : 15 MHz(Sub6 n41) 2506.020 – 2679.990 : 20 MHz(Sub6 n41) 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:	February 08, 2025 ~ June 13, 2025
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #1 Conducted : BMW ICON-25SF Conducted #3
Antenna Information	Please refer to the Antenna Specification document.

1.1. SUPPORTED BANDS PER ANTENNA PORT

Antenna Port	Supported bands
MIMO 1	- WCDMA: B2, 5 - LTE: B2, 4, 5, 7, 12, 13, 17, 25, 66, 26, 38, 42, 48, 71 - NR: n2, 5, 7, 12, 25, 41, 48, 66, 71, 77, 78
MIMO 2	- LTE: B42, 48 - NR: n48, 77, 78
MIMO 3	Only RX
MIMO 4	Only RX
Int. BUA (Back Up Antenna)	- WCDMA: B2, 5 - LTE: B2, 4, 5, 7, 25, 26, 38, 66 - NR: n2, 5, 7, 25, 41, 66

Note:

1. Since the Int. BUA uses the same antenna port as MIMO1, only radiated testing was performed.

1.2 MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power Max. Power (W)	Max. Power (dBm)
Sub6 n41 (10)	2501.010 – 2685.000	8M65G7D	PI/2 BPSK	0.227	23.56
		8M66G7D	QPSK	0.226	23.55
		8M63W7D	16QAM	0.175	22.42
		8M61W7D	64QAM	0.131	21.18
		8M65W7D	256QAM	0.079	18.95
Sub6 n41 (15)	2503.500 – 2682.480	12M9G7D	PI/2 BPSK	0.231	23.63
		12M9G7D	QPSK	0.228	23.58
		12M9W7D	16QAM	0.172	22.35
		13M0W7D	64QAM	0.132	21.21
		12M9W7D	256QAM	0.080	19.03
Sub6 n41 (20)	2506.020 – 2679.990	17M9G7D	PI/2 BPSK	0.239	23.79
		18M0G7D	QPSK	0.242	23.84
		18M0W7D	16QAM	0.194	22.88
		17M9W7D	64QAM	0.139	21.43
		17M9W7D	256QAM	0.081	19.10
Sub6 n41 (30)	2511.000 – 2674.980	26M9G7D	PI/2 BPSK	0.236	23.72
		26M8G7D	QPSK	0.235	23.71
		26M8W7D	16QAM	0.188	22.75
		26M9W7D	64QAM	0.139	21.44
		26M8W7D	256QAM	0.078	18.94
Sub6 n41 (40)	2516.010 – 2670.000	35M8G7D	PI/2 BPSK	0.233	23.68
		35M9G7D	QPSK	0.232	23.66
		35M9W7D	16QAM	0.192	22.83
		35M9W7D	64QAM	0.139	21.43
		35M8W7D	256QAM	0.080	19.03
Sub6 n41 (50)	2521.020 – 2664.990	46M0G7D	PI/2 BPSK	0.236	23.72
		45M8G7D	QPSK	0.237	23.74
		45M7W7D	16QAM	0.195	22.90
		45M7W7D	64QAM	0.130	21.14
		45M9W7D	256QAM	0.077	18.87
Sub6 n41 (60)	2526.000 – 2659.980	58M0G7D	PI/2 BPSK	0.236	23.73
		58M1G7D	QPSK	0.241	23.82
		58M1W7D	16QAM	0.188	22.74
		57M9W7D	64QAM	0.126	21.01
		57M7W7D	256QAM	0.077	18.86
Sub6 n41 (70)	2531.010 – 2655.000	64M5G7D	PI/2 BPSK	0.231	23.63
		64M6G7D	QPSK	0.243	23.86
		64M6W7D	16QAM	0.192	22.84
		64M6W7D	64QAM	0.132	21.19
		64M5W7D	256QAM	0.081	19.07

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41 (80)	2536.020 – 2649.990	77M4G7D	PI/2 BPSK	0.232	23.65
		77M4G7D	QPSK	0.239	23.79
		77M1W7D	16QAM	0.188	22.75
		77M2W7D	64QAM	0.131	21.17
		77M3W7D	256QAM	0.079	18.98
Sub6 n41 (90)	2541.000 – 2644.980	87M3G7D	PI/2 BPSK	0.240	23.81
		86M7G7D	QPSK	0.240	23.81
		86M9W7D	16QAM	0.194	22.88
		87M2W7D	64QAM	0.141	21.49
		86M7W7D	256QAM	0.081	19.07
Sub6 n41 (100)	2546.010 – 2640.000	97M2G7D	PI/2 BPSK	0.240	23.80
		96M5G7D	QPSK	0.236	23.73
		96M6W7D	16QAM	0.173	22.38
		96M8W7D	64QAM	0.124	20.95
		96M6W7D	256QAM	0.072	18.58

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [3G] 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

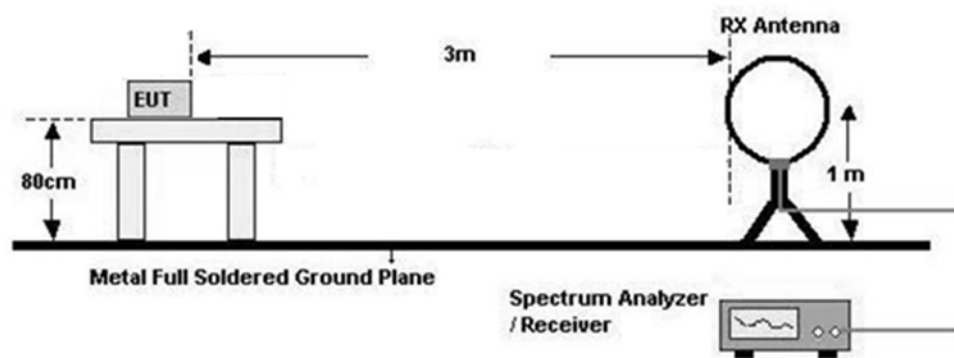
3.2 RADIATED POWER

Test Overview

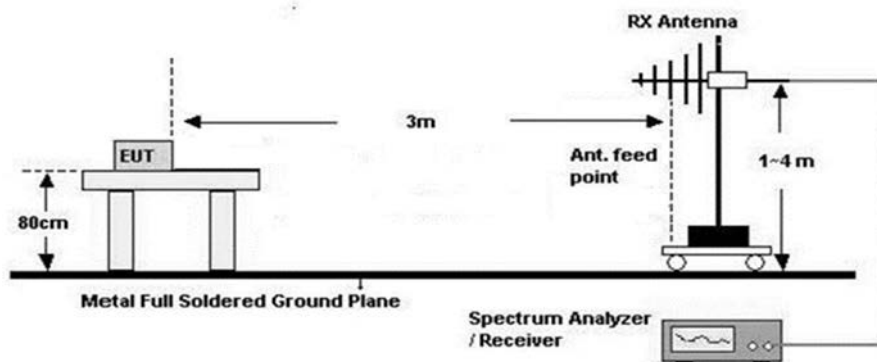
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

Test Configuration

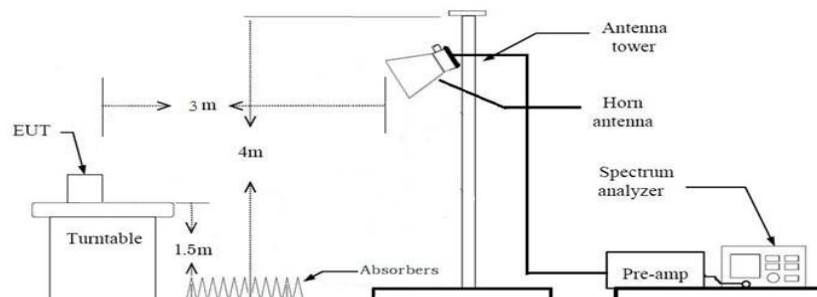
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



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 EUT is placed on a turntable, which is 0.8 m above ground plane. (Below 1 GHz)
2. The EUT is placed on a turntable, which is 1.5 m above ground plane. (Above 1 GHz)
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
6. 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.
7. $\text{Total(dB V/m)} = \text{Measured Value(dB V)} + \text{Cable Loss(dB)} + \text{Antenna Factor(dB/m)} + \text{Distance Factor(D.F)}$
8. EIRP (dBm)
 $= \text{Total (dB V/m)} + 20 \log D - 104.8$ (where D is the measurement distance in meters. D=3)
 $= \text{Total (dB V/m)} - 95.2(\text{dB})$
9. $\text{ERP(dBm)} = \text{EIRP(dBm)} - 2.15(\text{dB})$

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;

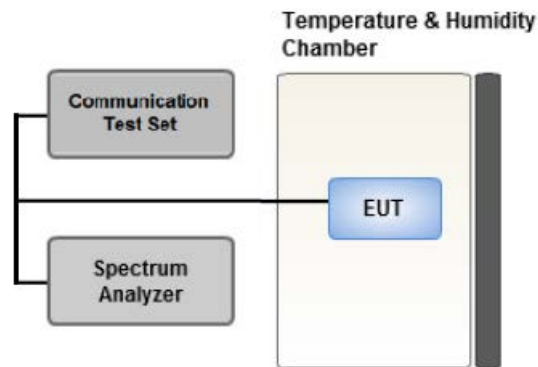
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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



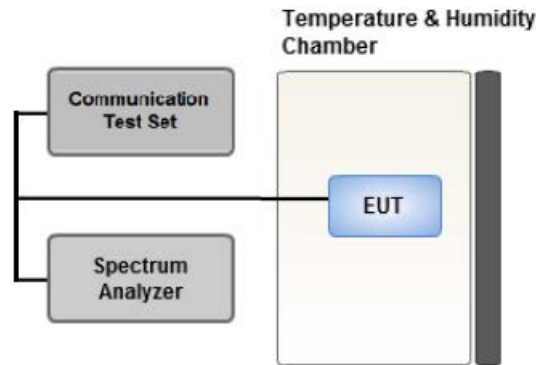
Test setup

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 %.

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.

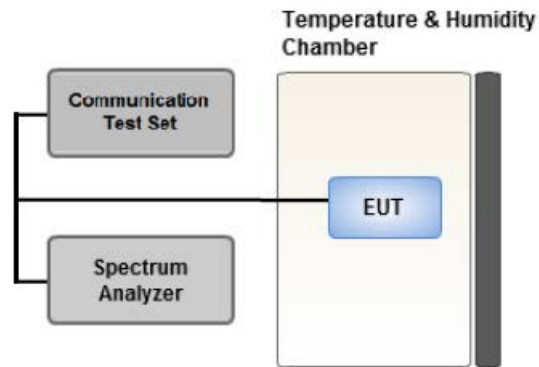
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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 x 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

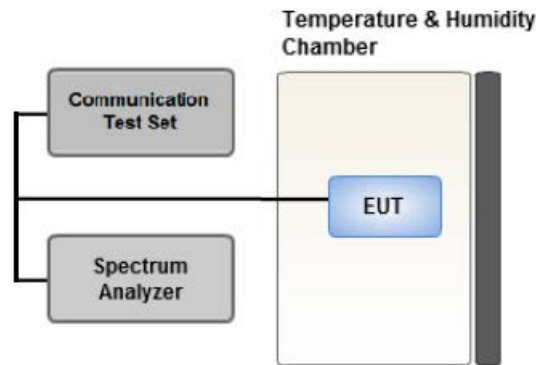
Test Overview

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 $\geq 2 \times \text{Span} / \text{RBW}$

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

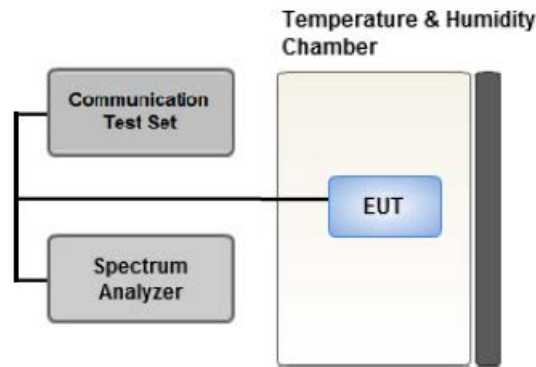
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time > Number of points in sweep Symbol period (i.e., the transmit on-time + the off-time)
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.
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: SA, NSA (Worst case: SA)
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- MIMO3 and MIMO4 have three types of Rx antennas. Operating modes were investigated for all Rx antennas, and the worst-case configuration results were reported.
(Worst-case: HKL antenna(Maximum gain: 5dBi))

[External(MIMO1) 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		Z
Radiated Spurious Emissions	PI/2 BPSK	See Section 8.2		Y

[Internal(BUA) Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		Y
Radiated Spurious Emissions	PI/2 BPSK	See Section 9.2		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, NSA. (Worst case: SA)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- Both 85% and 115% conditions were measured for the Frequency Stability test, and results for the worst-case configuration (85%) were reported.
- In accordance with the customer's specification of 3.7V as the lowest operating voltage, testing was performed at 3.7V instead of 85% (3.57V).

[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	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Channel Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		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
		10, 15, 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	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

[Radiated]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	03/12/2026	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	03/12/2026	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	03/12/2026	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	03/12/2026	Annual
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/48920320/P	N/A	-
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	-
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
HIGHPASS FILTER	WHKX10-900-1000-15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
LOW NOISE AMPLIFIER	310N	SONOMA Instrument	186169	02/05/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	10/11/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	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
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(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	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	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-

[Conducted]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Power Splitter (DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
ATTENUATOR (20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262094331	11/13/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer (2 Hz ~ 50.0 GHz)	N9030B	KEYSIGHT	MY56320554	02/03/2026	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.	-	-	-
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. 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 ($\pm$ 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)	5.68 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.75 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.82 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

- 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	Note ¹
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. Refer to the 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 (MIMO1)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2501.010	Sub6 n41 / 10 MHz [30 kHz]	PI/2 BPSK	83.13	29.90	4.60	117.63	V	< 2.00	0.175	22.43	1	22
		QPSK	83.13	29.90	4.60	117.63	V		0.175	22.43		
		16-QAM	82.30	29.90	4.60	116.80	V		0.145	21.60		
		64-QAM	80.97	29.90	4.60	115.47	V		0.106	20.27		
		256-QAM	78.51	29.90	4.60	113.01	V		0.060	17.81		
2592.990		PI/2 BPSK	82.93	29.80	4.80	117.53	V		0.171	22.33	1	1
		QPSK	82.62	29.80	4.80	117.22	V		0.159	22.02		
		16-QAM	81.84	29.80	4.80	116.44	V		0.133	21.24		
		64-QAM	80.53	29.80	4.80	115.13	V		0.098	19.93		
		256-QAM	78.30	29.80	4.80	112.90	V		0.059	17.70		
2685.000		PI/2 BPSK	78.72	30.10	4.90	113.72	V		0.071	18.52	1	1
		QPSK	78.68	30.10	4.90	113.68	V		0.070	18.48		
		16-QAM	76.42	30.10	4.90	111.42	V		0.042	16.22		
		64-QAM	75.38	30.10	4.90	110.38	V		0.033	15.18		
		256-QAM	72.72	30.10	4.90	107.72	V		0.018	12.52		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2503.500	Sub6 n41 / 15 MHz [30 kHz]	PI/2 BPSK	83.88	29.90	4.60	118.38	V	< 2.00	0.208	23.18	1	36
		QPSK	83.62	29.90	4.60	118.12	V		0.196	22.92		
		16-QAM	82.58	29.90	4.60	117.08	V		0.154	21.88		
		64-QAM	81.42	29.90	4.60	115.92	V		0.118	20.72		
		256-QAM	79.13	29.90	4.60	113.63	V		0.070	18.43		
2592.990		PI/2 BPSK	82.63	29.80	4.80	117.23	V		0.160	22.03	1	1
		QPSK	80.40	29.80	4.80	115.00	V		0.096	19.80		
		16-QAM	81.50	29.80	4.80	116.10	V		0.123	20.90		
		64-QAM	80.14	29.80	4.80	114.74	V		0.090	19.54		
		256-QAM	78.15	29.80	4.80	112.75	V		0.057	17.55		
2682.480		PI/2 BPSK	79.07	30.10	4.90	114.07	V		0.077	18.87	1	1
		QPSK	78.92	30.10	4.90	113.92	V		0.075	18.72		
		16-QAM	76.44	30.10	4.90	111.44	V		0.042	16.24		
		64-QAM	75.21	30.10	4.90	110.21	V		0.032	15.01		
		256-QAM	72.85	30.10	4.90	107.85	V		0.018	12.65		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2506.020	Sub6 n41 / 20 MHz [30 kHz]	PI/2 BPSK	83.88	29.90	4.60	118.38	V	< 2.00	0.208	23.18	1	49
		QPSK	83.85	29.90	4.60	118.35	V		0.207	23.15		
		16-QAM	83.01	29.90	4.60	117.51	V		0.170	22.31		
		64-QAM	81.55	29.90	4.60	116.05	V		0.122	20.85		
		256-QAM	79.26	29.90	4.60	113.76	V		0.072	18.56		
2592.990		PI/2 BPSK	82.57	29.80	4.80	117.17	V		0.157	21.97	1	1
		QPSK	81.96	29.80	4.80	116.56	V		0.137	21.36		
		16-QAM	81.53	29.80	4.80	116.13	V		0.124	20.93		
		64-QAM	80.41	29.80	4.80	115.01	V		0.096	19.81		
		256-QAM	77.77	29.80	4.80	112.37	V		0.052	17.17		
2679.990	PI/2 BPSK	79.26	30.10	4.90	114.26	V	0.081	19.06	1	1		
	QPSK	78.93	30.10	4.90	113.93	V	0.075	18.73				
	16-QAM	76.54	30.10	4.90	111.54	V	0.043	16.34				
	64-QAM	75.15	30.10	4.90	110.15	V	0.031	14.95				
	256-QAM	73.06	30.10	4.90	108.06	V	0.019	12.86				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2511.000		PI/2 BPSK	84.33	29.90	4.60	118.83	V		0.231	23.63	1	76
		QPSK	84.12	29.90	4.60	118.62	V		0.220	23.42		
		16-QAM	83.03	29.90	4.60	117.53	V		0.171	22.33		
		64-QAM	81.19	29.90	4.60	115.69	V		0.112	20.49		
		256-QAM	78.96	29.90	4.60	113.46	V		0.067	18.26		
2592.990	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	82.39	29.80	4.80	116.99	V	< 2.00	0.151	21.79	1	1
		QPSK	82.33	29.80	4.80	116.93	V		0.149	21.73		
		16-QAM	81.43	29.80	4.80	116.03	V		0.121	20.83		
		64-QAM	80.33	29.80	4.80	114.93	V		0.094	19.73		
		256-QAM	77.84	29.80	4.80	112.44	V		0.053	17.24		
2674.980		PI/2 BPSK	79.43	30.10	4.90	114.43	V		0.084	19.23	1	1
		QPSK	79.16	30.10	4.90	114.16	V		0.079	18.96		
		16-QAM	78.47	30.10	4.90	113.47	V		0.067	18.27		
		64-QAM	77.37	30.10	4.90	112.37	V		0.052	17.17		
		256-QAM	74.88	30.10	4.90	109.88	V		0.029	14.68		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2516.010	Sub6 n41 / 40 MHz [30 kHz]	PI/2 BPSK	84.21	29.90	4.60	118.71	V	< 2.00	0.224	23.51	1	104
		QPSK	84.03	29.90	4.60	118.53	V		0.215	23.33		
		16-QAM	83.07	29.90	4.60	117.57	V		0.173	22.37		
		64-QAM	81.97	29.90	4.60	116.47	V		0.134	21.27		
		256-QAM	79.48	29.90	4.60	113.98	V		0.076	18.78		
2592.990		PI/2 BPSK	82.96	29.80	4.80	117.56	V		0.172	22.36	1	1
		QPSK	82.82	29.80	4.80	117.42	V		0.167	22.22		
		16-QAM	81.86	29.80	4.80	116.46	V		0.134	21.26		
		64-QAM	80.76	29.80	4.80	115.36	V		0.104	20.16		
		256-QAM	78.27	29.80	4.80	112.87	V		0.059	17.67		
2670.000		PI/2 BPSK	79.56	30.10	4.90	114.56	V		0.086	19.36	1	1
		QPSK	79.54	30.10	4.90	114.54	V		0.086	19.34		
		16-QAM	78.60	30.10	4.90	113.60	V		0.069	18.40		
		64-QAM	77.50	30.10	4.90	112.50	V		0.054	17.30		
		256-QAM	75.01	30.10	4.90	110.01	V		0.030	14.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	84.16	29.90	4.60	118.66	V	< 2.00	0.222	23.46	1	66
		QPSK	84.12	29.90	4.60	118.62	V		0.220	23.42		
		16-QAM	83.20	29.90	4.60	117.70	V		0.178	22.50		
		64-QAM	82.10	29.90	4.60	116.60	V		0.138	21.40		
		256-QAM	79.61	29.90	4.60	114.11	V		0.078	18.91		
2592.990		PI/2 BPSK	83.04	29.80	4.80	117.64	V		0.175	22.44	1	1
		QPSK	82.87	29.80	4.80	117.47	V		0.169	22.27		
		16-QAM	82.08	29.80	4.80	116.68	V		0.141	21.48		
		64-QAM	80.98	29.80	4.80	115.58	V		0.109	20.38		
		256-QAM	78.49	29.80	4.80	113.09	V		0.062	17.89		
2664.990		PI/2 BPSK	79.74	30.10	4.90	114.74	V		0.090	19.54	1	1
		QPSK	79.71	30.10	4.90	114.71	V		0.089	19.51		
		16-QAM	78.75	30.10	4.90	113.75	V		0.072	18.55		
		64-QAM	77.65	30.10	4.90	112.65	V		0.056	17.45		
		256-QAM	75.16	30.10	4.90	110.16	V		0.031	14.96		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	84.14	29.90	4.60	118.64	V	< 2.00	0.221	23.44	1	82
		QPSK	84.02	29.90	4.60	118.52	V		0.215	23.32		
		16-QAM	83.06	29.90	4.60	117.56	V		0.172	22.36		
		64-QAM	81.96	29.90	4.60	116.46	V		0.134	21.26		
		256-QAM	79.47	29.90	4.60	113.97	V		0.075	18.77		
2592.990		PI/2 BPSK	83.48	29.80	4.80	118.08	V		0.194	22.88	1	1
		QPSK	83.18	29.80	4.80	117.78	V		0.181	22.58		
		16-QAM	82.52	29.80	4.80	117.12	V		0.156	21.92		
		64-QAM	81.42	29.80	4.80	116.02	V		0.121	20.82		
		256-QAM	78.93	29.80	4.80	113.53	V		0.068	18.33		
2659.980		PI/2 BPSK	79.98	30.10	4.90	114.98	V		0.095	19.78	1	1
		QPSK	79.62	30.10	4.90	114.62	V		0.088	19.42		
		16-QAM	79.02	30.10	4.90	114.02	V		0.076	18.82		
		64-QAM	77.92	30.10	4.90	112.92	V		0.059	17.72		
		256-QAM	75.43	30.10	4.90	110.43	V		0.033	15.23		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	84.52	29.90	4.60	119.02	V	< 2.00	0.241	23.82	1	94
		QPSK	83.89	29.90	4.60	118.39	V		0.208	23.19		
		16-QAM	83.56	29.90	4.60	118.06	V		0.193	22.86		
		64-QAM	82.46	29.90	4.60	116.96	V		0.150	21.76		
		256-QAM	79.97	29.90	4.60	114.47	V		0.085	19.27		
2592.990		PI/2 BPSK	83.53	29.80	4.80	118.13	V		0.196	22.93	1	1
		QPSK	83.50	29.80	4.80	118.10	V		0.195	22.90		
		16-QAM	82.57	29.80	4.80	117.17	V		0.157	21.97		
		64-QAM	81.47	29.80	4.80	116.07	V		0.122	20.87		
		256-QAM	78.98	29.80	4.80	113.58	V		0.069	18.38		
2655.000		PI/2 BPSK	80.11	30.10	4.90	115.11	V	0.098	19.91	1	1	
		QPSK	79.83	30.10	4.90	114.83	V	0.092	19.63			
		16-QAM	79.15	30.10	4.90	114.15	V	0.079	18.95			
		64-QAM	78.05	30.10	4.90	113.05	V	0.061	17.85			
		256-QAM	75.56	30.10	4.90	110.56	V	0.034	15.36			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	84.60	29.90	4.60	119.10	V	< 2.00	0.245	23.90	1	108
		QPSK	84.38	29.90	4.60	118.88	V		0.233	23.68		
		16-QAM	83.64	29.90	4.60	118.14	V		0.197	22.94		
		64-QAM	82.54	29.90	4.60	117.04	V		0.153	21.84		
		256-QAM	80.05	29.90	4.60	114.55	V		0.086	19.35		
2592.990		PI/2 BPSK	83.98	29.80	4.80	118.58	V		0.218	23.38	1	1
		QPSK	83.95	29.80	4.80	118.55	V		0.216	23.35		
		16-QAM	83.02	29.80	4.80	117.62	V		0.175	22.42		
		64-QAM	81.92	29.80	4.80	116.52	V		0.136	21.32		
		256-QAM	79.43	29.80	4.80	114.03	V		0.076	18.83		
2649.990		PI/2 BPSK	80.84	30.10	4.90	115.84	V		0.116	20.64	1	1
		QPSK	80.66	30.10	4.90	115.66	V		0.111	20.46		
		16-QAM	79.70	30.10	4.90	114.70	V		0.089	19.50		
		64-QAM	78.60	30.10	4.90	113.60	V		0.069	18.40		
		256-QAM	76.11	30.10	4.90	111.11	V		0.039	15.91		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	84.55	29.90	4.60	119.05	V	< 2.00	0.243	23.85	1	122
		QPSK	84.53	29.90	4.60	119.03	V		0.242	23.83		
		16-QAM	83.59	29.90	4.60	118.09	V		0.195	22.89		
		64-QAM	82.49	29.90	4.60	116.99	V		0.151	21.79		
		256-QAM	80.00	29.90	4.60	114.50	V		0.085	19.30		
2592.990		PI/2 BPSK	84.03	29.80	4.80	118.63	V		0.220	23.43	1	1
		QPSK	83.92	29.80	4.80	118.52	V		0.215	23.32		
		16-QAM	82.96	29.80	4.80	117.56	V		0.172	22.36		
		64-QAM	81.86	29.80	4.80	116.46	V		0.134	21.26		
		256-QAM	79.37	29.80	4.80	113.97	V		0.075	18.77		
2644.980		PI/2 BPSK	81.52	30.10	4.90	116.52	V		0.136	21.32	1	1
		QPSK	81.23	30.10	4.90	116.23	V		0.127	21.03		
		16-QAM	80.27	30.10	4.90	115.27	V		0.102	20.07		
		64-QAM	79.17	30.10	4.90	114.17	V		0.079	18.97		
		256-QAM	76.68	30.10	4.90	111.68	V		0.045	16.48		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	84.44	29.90	4.60	118.94	V	< 2.00	0.237	23.74	1	136
		QPSK	84.26	29.90	4.60	118.76	V		0.227	23.56		
		16-QAM	83.30	29.90	4.60	117.80	V		0.182	22.60		
		64-QAM	82.20	29.90	4.60	116.70	V		0.141	21.50		
		256-QAM	79.71	29.90	4.60	114.21	V		0.080	19.01		
2592.990		PI/2 BPSK	84.36	29.80	4.80	118.96	V		0.238	23.76	1	1
		QPSK	83.90	29.80	4.80	118.50	V		0.214	23.30		
		16-QAM	83.40	29.80	4.80	118.00	V		0.191	22.80		
		64-QAM	82.30	29.80	4.80	116.90	V		0.148	21.70		
		256-QAM	79.81	29.80	4.80	114.41	V		0.083	19.21		
2640.000		PI/2 BPSK	82.06	30.10	4.90	117.06	V		0.153	21.86	1	1
		QPSK	81.99	30.10	4.90	116.99	V		0.151	21.79		
		16-QAM	81.10	30.10	4.90	116.10	V		0.123	20.90		
		64-QAM	80.00	30.10	4.90	115.00	V		0.096	19.80		
		256-QAM	77.51	30.10	4.90	112.51	V		0.054	17.31		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>n41</u>
Bandwidth:	<u>10 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
500202 (2501.010)	5 002.02	-54.94	10.91	-61.42	3.71	H	-54.22	-25.00	1	22
	7 503.03	-56.06	11.58	-58.19	4.60	H	-51.21	-25.00		
	10 004.04	-54.97	11.40	-54.60	5.47	V	-48.67	-25.00		
	12 505.05	-57.10	13.17	-53.48	6.10	V	-46.41	-25.00		
	15 006.06	-68.26	14.26	-50.24	6.78	V	-42.76	-25.00		
518598 (2592.990)	5 185.98	-54.00	11.18	-61.53	3.80	H	-54.15	-25.00	1	1
	7 778.97	-55.57	11.37	-56.13	4.70	H	-49.46	-25.00		
	10 371.96	-54.64	11.67	-54.16	5.55	V	-48.04	-25.00		
	12 964.95	-58.52	12.77	-53.68	6.35	V	-47.26	-25.00		
	15 557.94	-68.12	15.76	-49.77	6.89	V	-40.90	-25.00		
537000 (2685.000)	5 370.00	-55.16	11.59	-62.60	3.92	V	-54.93	-25.00	1	1
	8 055.00	-54.93	11.32	-54.28	4.81	V	-47.77	-25.00		
	10 740.00	-54.68	11.60	-54.11	5.64	H	-48.15	-25.00		
	13 425.00	-58.38	12.88	-49.96	6.41	V	-43.49	-25.00		
	16 110.00	-67.40	16.29	-51.64	7.10	H	-42.45	-25.00		

☐ NR Band: n41
☐ Bandwidth: 15 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
500700 (2503.500)	5 007.00	-57.06	10.91	-63.60	3.71	H	-56.40	-25.00	1	36
	7 510.50	-57.05	11.59	-59.16	4.60	H	-52.17	-25.00		
	10 014.00	-55.86	11.39	-55.23	5.47	H	-49.31	-25.00		
	12 517.50	-57.90	13.15	-54.48	6.09	V	-47.42	-25.00		
	15 021.00	-67.72	14.29	-49.65	6.74	H	-42.10	-25.00		
518598 (2592.990)	5 185.98	-55.29	11.18	-62.82	3.80	V	-55.44	-25.00	1	1
	7 778.97	-54.64	11.37	-55.20	4.70	V	-48.53	-25.00		
	10 371.96	-55.88	11.67	-55.40	5.55	V	-49.28	-25.00		
	12 964.95	-58.32	12.77	-53.48	6.35	V	-47.06	-25.00		
	15 557.94	-68.42	15.76	-50.07	6.89	H	-41.20	-25.00		
536496 (2682.480)	5 364.96	-55.98	11.59	-63.49	3.91	H	-55.81	-25.00	1	1
	8 047.44	-55.65	11.30	-55.46	4.81	V	-48.97	-25.00		
	10 729.92	-54.91	11.60	-54.38	5.65	H	-48.43	-25.00		
	13 412.40	-57.99	12.90	-50.49	6.39	H	-43.98	-25.00		
	16 094.88	-68.53	16.28	-52.56	7.06	V	-43.34	-25.00		

☐ NR Band: n41
☐ Bandwidth: 20 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
501204 (2506.020)	5 012.04	-55.73	10.91	-62.32	3.72	H	-55.13	-25.00	1	49
	7 518.06	-55.10	11.60	-57.47	4.61	H	-50.48	-25.00		
	10 024.08	-56.18	11.39	-55.43	5.47	H	-49.51	-25.00		
	12 530.10	-56.12	13.14	-52.58	6.10	H	-45.54	-25.00		
	15 036.12	-68.06	14.33	-50.23	6.74	H	-42.64	-25.00		
518598 (2592.990)	5 185.98	-55.92	11.18	-63.45	3.80	H	-56.07	-25.00	1	1
	7 778.97	-55.46	11.37	-56.02	4.70	H	-49.35	-25.00		
	10 371.96	-54.80	11.67	-54.32	5.55	V	-48.20	-25.00		
	12 964.95	-58.54	12.77	-53.70	6.35	H	-47.28	-25.00		
	15 557.94	-68.74	15.76	-50.39	6.89	V	-41.52	-25.00		
535998 (2679.990)	5 359.98	-56.49	11.58	-64.06	3.90	H	-56.38	-25.00	1	1
	8 039.97	-55.98	11.29	-55.97	4.80	H	-49.48	-25.00		
	10 719.96	-55.57	11.60	-55.42	5.64	V	-49.46	-25.00		
	13 399.95	-58.10	12.91	-50.76	6.38	H	-44.23	-25.00		
	16 079.94	-68.35	16.25	-52.02	7.02	H	-42.79	-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	-55.71	10.90	-62.19	3.69	H	-54.98	-25.00	1	76
	7 533.00	-55.32	11.62	-57.75	4.61	H	-50.74	-25.00		
	10 044.00	-56.35	11.38	-55.87	5.48	H	-49.97	-25.00		
	12 555.00	-56.15	13.11	-52.47	6.22	H	-45.58	-25.00		
	15 066.00	-68.13	14.40	-50.09	6.80	H	-42.49	-25.00		
518598 (2592.990)	5 185.98	-55.76	11.18	-63.29	3.80	V	-55.91	-25.00	1	1
	7 778.97	-55.41	11.37	-55.97	4.70	H	-49.30	-25.00		
	10 371.96	-54.92	11.67	-54.44	5.55	V	-48.32	-25.00		
	12 964.95	-59.13	12.77	-54.29	6.35	H	-47.87	-25.00		
	15 557.94	-68.82	15.76	-50.47	6.89	V	-41.60	-25.00		
534996 (2674.980)	5 349.96	-56.55	11.57	-63.59	3.85	H	-55.87	-25.00	1	1
	8 024.94	-55.98	11.27	-55.79	4.79	H	-49.31	-25.00		
	10 699.92	-55.13	11.61	-54.81	5.67	V	-48.87	-25.00		
	13 374.90	-58.23	12.95	-51.33	6.34	H	-44.72	-25.00		
	16 049.88	-68.41	16.21	-52.29	7.02	H	-43.10	-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	-55.64	10.90	-62.58	3.67	H	-55.35	-25.00	1	104
	7 548.03	-55.26	11.63	-57.64	4.63	H	-50.64	-25.00		
	10 064.04	-56.14	11.37	-55.61	5.47	V	-49.71	-25.00		
	12 580.05	-56.11	13.07	-52.39	6.25	H	-45.57	-25.00		
	15 096.06	-68.23	14.47	-50.47	6.81	H	-42.81	-25.00		
518598 (2592.990)	5 185.98	-55.67	11.18	-63.20	3.80	V	-55.82	-25.00	1	1
	7 778.97	-55.38	11.37	-55.94	4.70	H	-49.27	-25.00		
	10 371.96	-54.90	11.67	-54.42	5.55	V	-48.30	-25.00		
	12 964.95	-59.24	12.77	-54.40	6.35	H	-47.98	-25.00		
	15 557.94	-68.81	15.76	-50.46	6.89	V	-41.59	-25.00		
534000 (2670.000)	5 340.00	-56.58	11.56	-63.86	3.80	H	-56.10	-25.00	1	1
	8 010.00	-55.35	11.24	-55.35	4.77	H	-48.88	-25.00		
	10 680.00	-55.56	11.61	-55.18	5.71	V	-49.28	-25.00		
	13 350.00	-58.17	12.98	-51.62	6.38	H	-45.02	-25.00		
	16 020.00	-68.49	16.17	-51.81	7.02	H	-42.66	-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	-55.89	10.90	-62.56	3.68	V	-55.34	-25.00	1	66
	7 563.06	-55.16	11.64	-57.36	4.64	H	-50.36	-25.00		
	10 084.08	-56.16	11.36	-55.66	5.46	H	-49.76	-25.00		
	12 605.10	-56.32	13.02	-52.53	6.18	H	-45.69	-25.00		
	15 126.12	-68.21	14.55	-50.21	6.79	H	-42.45	-25.00		
518598 (2592.990)	5 185.98	-55.71	11.18	-63.24	3.80	V	-55.86	-25.00	1	1
	7 778.97	-55.31	11.37	-55.87	4.70	H	-49.20	-25.00		
	10 371.96	-54.76	11.67	-54.28	5.55	V	-48.16	-25.00		
	12 964.95	-59.18	12.77	-54.34	6.35	H	-47.92	-25.00		
	15 557.94	-68.85	15.76	-50.50	6.89	V	-41.63	-25.00		
532998 (2664.990)	5 329.98	-56.51	11.55	-64.05	3.77	H	-56.27	-25.00	1	1
	7 994.97	-55.31	11.22	-55.21	4.77	H	-48.76	-25.00		
	10 659.96	-55.51	11.61	-54.87	5.67	V	-48.93	-25.00		
	13 324.95	-58.12	13.03	-51.68	6.45	H	-45.10	-25.00		
	15 989.94	-68.41	16.14	-50.83	7.02	H	-41.71	-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	-56.81	10.90	-63.54	3.73	H	-56.37	-25.00	1	82
	7 578.00	-55.49	11.65	-57.77	4.65	H	-50.77	-25.00		
	10 104.00	-55.39	11.35	-54.83	5.46	H	-48.94	-25.00		
	12 630.00	-58.21	12.97	-54.18	6.23	V	-47.44	-25.00		
	15 156.00	-68.31	14.63	-50.27	6.80	V	-42.44	-25.00		
518598 (2592.990)	5 185.98	-55.23	11.18	-62.76	3.80	H	-55.38	-25.00	1	1
	7 778.97	-55.23	11.37	-55.79	4.70	H	-49.12	-25.00		
	10 371.96	-55.32	11.67	-54.84	5.55	H	-48.72	-25.00		
	12 964.95	-58.13	12.77	-53.29	6.35	V	-46.87	-25.00		
	15 557.94	-68.23	15.76	-49.88	6.89	V	-41.01	-25.00		
531996 (2659.980)	5 319.96	-55.23	11.54	-62.58	3.79	V	-54.83	-25.00	1	1
	7 979.94	-57.95	11.20	-58.03	4.79	H	-51.62	-25.00		
	10 639.92	-55.76	11.62	-55.72	5.61	H	-49.71	-25.00		
	13 299.90	-58.13	13.08	-52.08	6.39	H	-45.39	-25.00		
	15 959.88	-70.29	16.11	-52.70	6.98	H	-43.57	-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	-54.75	10.91	-61.58	3.78	H	-54.45	-25.00	1	94
	7 593.03	-54.70	11.66	-56.93	4.64	V	-49.91	-25.00		
	10 124.04	-55.40	11.34	-54.43	5.47	H	-48.56	-25.00		
	12 655.05	-57.72	12.91	-53.72	6.26	V	-47.07	-25.00		
	15 186.06	-66.79	14.72	-48.73	6.82	V	-40.83	-25.00		
518598 (2592.990)	5 185.98	-55.57	11.18	-63.10	3.80	V	-55.72	-25.00	1	1
	7 778.97	-55.77	11.37	-56.33	4.70	H	-49.66	-25.00		
	10 371.96	-56.37	11.67	-55.89	5.55	V	-49.77	-25.00		
	12 964.95	-58.17	12.77	-53.33	6.35	H	-46.91	-25.00		
	15 557.94	-68.05	15.76	-49.70	6.89	V	-40.83	-25.00		
531000 (2655.000)	5 310.00	-54.63	11.53	-62.09	3.82	H	-54.38	-25.00	1	1
	7 965.00	-55.80	11.17	-55.72	4.80	H	-49.35	-25.00		
	10 620.00	-55.86	11.62	-55.61	5.65	H	-49.64	-25.00		
	13 275.00	-58.25	13.11	-52.30	6.35	V	-45.54	-25.00		
	15 930.00	-67.84	16.09	-49.42	7.00	H	-40.33	-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	-55.03	10.92	-61.79	3.80	V	-54.67	-25.00	1	108
	7 608.06	-55.51	11.65	-57.69	4.64	H	-50.68	-25.00		
	10 144.08	-55.47	11.33	-54.94	5.48	V	-49.09	-25.00		
	12 680.10	-58.29	12.87	-54.25	6.23	V	-47.61	-25.00		
	15 216.12	-67.18	14.82	-48.74	6.82	H	-40.74	-25.00		
518598 (2592.990)	5 185.98	-55.78	11.18	-63.31	3.80	H	-55.93	-25.00	1	1
	7 778.97	-55.57	11.37	-56.13	4.70	V	-49.46	-25.00		
	10 371.96	-55.09	11.67	-54.61	5.55	H	-48.49	-25.00		
	12 964.95	-58.01	12.77	-53.17	6.35	V	-46.75	-25.00		
	15 557.94	-68.92	15.76	-50.57	6.89	V	-41.70	-25.00		
529998 (2649.990)	5 299.98	-54.96	11.52	-62.38	3.83	H	-54.69	-25.00	1	1
	7 949.97	-54.78	11.15	-55.07	4.78	H	-48.70	-25.00		
	10 599.96	-55.90	11.63	-55.66	5.67	H	-49.70	-25.00		
	13 249.95	-58.15	13.13	-52.41	6.43	H	-45.71	-25.00		
	15 899.94	-68.99	16.07	-51.37	7.00	V	-42.30	-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	-54.92	10.93	-61.78	3.81	H	-54.66	-25.00	1	122
	7 623.00	-53.49	11.65	-55.63	4.65	V	-48.63	-25.00		
	10 164.00	-55.52	11.34	-55.23	5.50	V	-49.39	-25.00		
	12 705.00	-57.32	12.83	-53.21	6.20	V	-46.58	-25.00		
	15 246.00	-67.18	14.92	-48.78	6.84	H	-40.70	-25.00		
518598 (2592.990)	5 185.98	-54.68	11.18	-62.21	3.80	H	-54.83	-25.00	1	1
	7 778.97	-55.64	11.37	-56.20	4.70	V	-49.53	-25.00		
	10 371.96	-56.06	11.67	-55.58	5.55	H	-49.46	-25.00		
	12 964.95	-59.01	12.77	-54.17	6.35	H	-47.75	-25.00		
	15 557.94	-68.20	15.76	-49.85	6.89	H	-40.98	-25.00		
528996 (2644.980)	5 289.96	-55.11	11.50	-62.08	3.83	V	-54.41	-25.00	1	1
	7 934.94	-55.53	11.16	-55.49	4.77	H	-49.10	-25.00		
	10 579.92	-55.50	11.64	-55.37	5.65	V	-49.38	-25.00		
	13 224.90	-57.90	13.12	-51.92	6.43	H	-45.23	-25.00		
	15 869.88	-68.03	16.05	-50.05	6.97	H	-40.97	-25.00		

■ NR Band:	<u>n41</u>
■ Bandwidth:	<u>100 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
509202 (2546.010)	5 092.02	-55.86	10.94	-62.73	3.78	H	-55.57	-25.00	1	136
	7 638.03	-55.15	11.64	-57.22	4.68	V	-50.26	-25.00		
	10 184.04	-55.68	11.35	-55.09	5.52	H	-49.26	-25.00		
	12 730.05	-57.56	12.80	-53.93	6.21	H	-47.34	-25.00		
	15 276.06	-68.23	15.00	-49.60	6.82	H	-41.42	-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	-54.69	11.37	-55.25	4.70	H	-48.58	-25.00		
	10 371.96	-55.24	11.67	-54.76	5.55	H	-48.64	-25.00		
	12 964.95	-58.31	12.77	-53.47	6.35	V	-47.05	-25.00		
	15 557.94	-68.08	15.79	-49.76	6.89	V	-40.86	-25.00		
528000 (2640.000)	5,280.00	-53.89	11.47	-61.27	3.80	V	-53.60	-25.00	1	1
	7,920.00	-55.17	11.16	-55.40	4.77	V	-49.01	-25.00		
	10,560.00	-54.65	11.66	-54.88	5.63	V	-48.85	-25.00		
	13,200.00	-58.81	13.11	-52.69	6.33	V	-45.91	-25.00		
	15,840.00	-67.68	16.05	-49.75	6.99	H	-40.69	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41 / 10 MHz	2592.990	BPSK	24	0	5.44
		QPSK			5.81
		16-QAM			6.36
		64-QAM			6.61
		256-QAM			6.58
Sub6 n41 / 15 MHz		BPSK	36		4.37
		QPSK			5.74
		16-QAM			6.48
		64-QAM			6.52
		256-QAM			7.51
Sub6 n41 / 20 MHz		BPSK	50		5.40
		QPSK			5.71
		16-QAM			6.38
		64-QAM			6.45
		256-QAM			6.61
Sub6 n41 / 30 MHz		BPSK	75		4.72
		QPSK			5.74
		16-QAM			6.40
		64-QAM			6.41
		256-QAM			6.55
Sub6 n41 / 40 MHz		BPSK	100		4.52
		QPSK			5.60
		16-QAM			6.37
		64-QAM			6.43
		256-QAM			6.58
Sub6 n41 / 50 MHz	BPSK	128	5.00		
	QPSK		5.71		
	16-QAM		6.45		
	64-QAM		6.40		
	256-QAM		6.45		

Sub6 n41 / 60 MHz	BPSK	162	6.02
	QPSK		6.32
	16-QAM		6.53
	64-QAM		6.52
	256-QAM		6.52
Sub6 n41 / 70 MHz	BPSK	180	4.45
	QPSK		5.65
	16-QAM		6.25
	64-QAM		6.50
	256-QAM		6.54
Sub6 n41 / 80 MHz	BPSK	216	4.55
	QPSK		5.63
	16-QAM		6.31
	64-QAM		6.50
	256-QAM		6.58
Sub6 n41 / 90 MHz	BPSK	243	4.39
	QPSK		5.62
	16-QAM		6.39
	64-QAM		6.53
	256-QAM		6.56
Sub6 n41 / 100 MHz	BPSK	270	5.15
	QPSK		5.70
	16-QAM		6.33
	64-QAM		6.53
	256-QAM		6.65

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 94 ~ 148.

8.4 OCCUPIED BANDWIDTH

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41 / 10 MHz	2592.990	BPSK	24	0	8.6480
		QPSK			8.6617
		16-QAM			8.6320
		64-QAM			8.6131
		256-QAM			8.6523
Sub6 n41 / 15 MHz		BPSK	36		12.943
		QPSK			12.876
		16-QAM			12.880
		64-QAM			12.962
		256-QAM			12.898
Sub6 n41 / 20 MHz		BPSK	50		17.926
		QPSK			17.946
		16-QAM			18.015
		64-QAM			17.913
		256-QAM			17.880
Sub6 n41 / 30 MHz		BPSK	75		26.864
		QPSK			26.825
		16-QAM			26.830
		64-QAM			26.869
		256-QAM			26.827
Sub6 n41 / 40 MHz		BPSK	100		35.777
		QPSK			35.852
		16-QAM			35.884
		64-QAM			35.920
		256-QAM			35.788
Sub6 n41 / 50 MHz		BPSK	128		45.967
		QPSK			45.807
		16-QAM			45.731
		64-QAM			45.741
		256-QAM			45.885

Sub6 n41 / 60 MHz	BPSK	162	57.993
	QPSK		58.074
	16-QAM		58.048
	64-QAM		57.856
	256-QAM		57.731
Sub6 n41 / 70 MHz	BPSK	180	64.491
	QPSK		64.570
	16-QAM		64.558
	64-QAM		64.548
	256-QAM		64.494
Sub6 n41 / 80 MHz	BPSK	216	77.355
	QPSK		77.350
	16-QAM		77.091
	64-QAM		77.188
	256-QAM		77.261
Sub6 n41 / 90 MHz	BPSK	243	87.319
	QPSK		86.660
	16-QAM		86.847
	64-QAM		87.148
	256-QAM		86.707
Sub6 n41 / 100 MHz	BPSK	270	97.179
	QPSK		96.477
	16-QAM		96.597
	64-QAM		96.838
	256-QAM		96.610

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 149 ~ 203.

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 / 10	2501.010	4.9751	29.320	-60.604	-31.284	-25.00
	2592.990	3.7887	29.320	-62.066	-32.746	
	2685.000	6.3510	29.910	-61.903	-31.993	
Sub 6 n41 / 15	2503.500	3.8086	29.320	-61.545	-32.225	
	2592.990	3.7787	29.320	-61.764	-32.444	
	2682.480	4.9253	29.320	-61.198	-31.878	
Sub 6 n41 / 20	2506.020	4.8954	29.320	-61.312	-31.992	
	2592.990	7.4776	29.910	-61.771	-31.861	
	2679.990	3.8086	29.320	-59.657	-30.337	
Sub 6 n41 / 30	2511.000	9.5314	29.910	-61.518	-31.608	
	2592.990	4.8954	29.320	-61.943	-32.623	
	2674.980	3.7787	29.320	-61.881	-32.561	
Sub 6 n41 / 40	2516.010	6.0020	29.910	-61.168	-31.258	
	2592.990	3.7887	29.320	-61.338	-32.018	
	2670.000	3.5993	29.320	-61.701	-32.381	
Sub 6 n41 / 50	2521.020	3.6192	29.320	-61.254	-31.934	
	2592.990	5.1945	29.910	-61.097	-31.187	
	2664.990	5.4836	29.910	-61.603	-31.693	
Sub 6 n41 / 60	2526.000	3.7887	29.320	-61.585	-32.265	
	2592.990	3.7488	29.320	-60.686	-31.366	
	2659.980	5.1945	29.910	-60.860	-30.950	
Sub 6 n41 / 70	2531.010	9.8106	29.910	-60.372	-30.462	
	2592.990	8.0060	29.910	-60.764	-30.854	
	2655.000	4.0479	29.320	-61.802	-32.482	
Sub 6 n41 / 80	2536.020	6.0419	29.910	-61.542	-31.632	
	2592.990	7.4975	29.910	-61.508	-31.598	
	2649.990	4.0280	29.320	-62.255	-32.935	
Sub 6 n41 / 90	2541.000	7.1984	29.910	-61.209	-31.299	
	2592.990	4.0379	29.320	-61.016	-31.696	
	2644.980	3.7488	29.320	-61.435	-32.115	
Sub 6 n41 / 100	2546.010	3.8186	29.320	-60.884	-31.564	
	2592.990	9.9701	29.910	-61.503	-31.593	
	2640.000	3.7887	29.320	-60.949	-31.629	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 204 ~ 269.
2. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
3. Result(dBm) = Reading + Factor

Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.250
1 – 5	29.320
5 – 10	29.910
10 – 15	30.530
15 – 20	31.840
Above 20	32.520

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
10	2501.010	BPSK	Full RB	-33.39	-33.46	-28.76	-28.24	-29.61	-29.98	-32.80
15	2503.500	BPSK	Full RB	-32.93	-33.77	-29.48	-28.97	-30.13	-30.45	-35.48
20	2506.020	BPSK	Full RB	-30.28	-31.19	-27.88	-28.33	-30.07	-29.01	-35.96
30	2511.000	BPSK	Full RB	-28.64	-29.61	-28.98	-27.96	-31.27	-30.45	-37.21
40	2516.010	BPSK	Full RB	-26.14	-30.20	-26.26	-29.00	-28.53	-29.50	-40.57
50	2521.020	BPSK	Full RB	-27.46	-27.93	-28.25	-27.79	-30.73	-27.49	-39.45
60	2526.000	BPSK	Full RB	-21.50	-22.79	-27.32	-29.58	-29.28	-30.17	-41.36
70	2531.010	BPSK	Full RB	-26.80	-30.85	-29.00	-29.80	-28.16	-30.20	-41.32
80	2536.020	BPSK	Full RB	-26.60	-26.99	-30.04	-27.21	-30.69	-27.88	-43.24
90	2541.000	BPSK	Full RB	-24.73	-31.56	-27.75	-31.73	-27.34	-31.46	-46.42
100	2546.010	BPSK	Full RB	-24.92	-27.51	-31.30	-28.08	-30.92	-28.62	-42.79
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 $\pm$ 1 MHz)		(C.E $\pm$ 1 MHz) ~ (C.E $\pm$ 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-33.06	-34.13	-28.40	-28.92
	2685.000	BPSK	Full RB	0	-33.00	-33.41	-28.79	-28.83
15 MHz	2592.990	BPSK	Full RB	0	-32.94	-35.33	-30.16	-31.20
	2682.480	BPSK	Full RB	0	-33.74	-36.37	-31.39	-31.72
20 MHz	2592.990	BPSK	Full RB	0	-33.10	-33.85	-30.98	-27.69
	2679.990	BPSK	Full RB	0	-33.16	-35.05	-31.44	-30.86
30 MHz	2592.990	BPSK	Full RB	0	-33.28	-35.30	-34.05	-33.53
	2674.980	BPSK	Full RB	0	-32.75	-34.35	-32.07	-32.71
40 MHz	2592.990	BPSK	Full RB	0	-30.66	-31.28	-32.43	-32.00
	2670.000	BPSK	Full RB	0	-32.04	-35.07	-32.44	-33.49
50 MHz	2592.990	BPSK	Full RB	0	-30.28	-32.25	-33.38	-32.57
	2664.990	BPSK	Full RB	0	-29.66	-32.50	-35.15	-33.80
60 MHz	2592.990	BPSK	Full RB	0	-21.13	-22.50	-31.10	-30.45
	2659.980	BPSK	Full RB	0	-20.95	-23.68	-34.73	-33.69
70 MHz	2592.990	BPSK	Full RB	0	-28.54	-29.94	-33.44	-30.41
	2655.000	BPSK	Full RB	0	-28.58	-34.32	-33.16	-33.33
80 MHz	2592.990	BPSK	Full RB	0	-27.77	-31.67	-32.27	-31.90
	2649.990	BPSK	Full RB	0	-26.59	-33.63	-32.27	-33.49
90 MHz	2592.990	BPSK	Full RB	0	-24.90	-32.85	-33.53	-56.66
	2644.980	BPSK	Full RB	0	-25.13	-35.54	-32.75	-34.22
100 MHz	2592.990	BPSK	Full RB	0	-23.33	-33.16	-32.59	-33.02
	2640.000	BPSK	Full RB	0	-23.99	-35.35	-33.28	-35.03
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E $\pm$ 5 MHz) ~ (C.E $\pm$ X MHz)		Above (C.E $\pm$ X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-29.34	-29.67	-33.39	-33.44
	2685.000	BPSK	Full RB	0	-29.45	-30.30	-32.49	-35.03
15 MHz	2592.990	BPSK	Full RB	0	-30.91	-30.26	-36.07	-36.21
	2682.480	BPSK	Full RB	0	-29.69	-32.57	-34.30	-36.26
20 MHz	2592.990	BPSK	Full RB	0	-29.86	-31.53	-36.22	-32.91
	2679.990	BPSK	Full RB	0	-30.70	-30.35	-33.22	-37.05
30 MHz	2592.990	BPSK	Full RB	0	-34.18	-34.07	-39.44	-40.09
	2674.980	BPSK	Full RB	0	-32.57	-34.73	-36.34	-39.35
40 MHz	2592.990	BPSK	Full RB	0	-32.59	-33.12	-38.08	-43.56
	2670.000	BPSK	Full RB	0	-32.05	-33.19	-37.03	-45.67
50 MHz	2592.990	BPSK	Full RB	0	-33.91	-33.71	-37.26	-38.08
	2664.990	BPSK	Full RB	0	-32.59	-35.31	-40.89	-48.44
60 MHz	2592.990	BPSK	Full RB	0	-32.85	-31.11	-35.98	-34.40
	2659.980	BPSK	Full RB	0	-35.32	-34.56	-40.28	-55.71
70 MHz	2592.990	BPSK	Full RB	0	-34.46	-30.23	-40.88	-45.55
	2655.000	BPSK	Full RB	0	-34.05	-33.77	-41.31	-55.96
80 MHz	2592.990	BPSK	Full RB	0	-33.55	-32.17	-45.53	-41.06
	2649.990	BPSK	Full RB	0	-33.08	-35.11	-42.33	-55.85
90 MHz	2592.990	BPSK	Full RB	0	-35.51	-32.91	-56.33	-44.54
	2644.980	BPSK	Full RB	0	-32.81	-35.99	-43.18	-56.08
100 MHz	2592.990	BPSK	Full RB	0	-33.16	-32.04	-56.44	-50.01
	2640.000	BPSK	Full RB	0	-33.49	-35.17	-43.45	-56.31
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 270 ~ 346. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

■ BandWidth:	<u>10 MHz</u>
■ Voltage(100 %):	<u>4.200 VDC</u>
■ Lowest voltage:	<u>3.700 VDC</u>
■ LIMIT:	<u>Emission must remain in band</u>

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2501.010	100 %	+20(Ref)	2501 010 000	0.0	0.000 000	0.000
	100 %	-30	2501 010 006	6.0	0.000 000	0.002
	100 %	-20	2501 009 995	-5.3	0.000 000	-0.002
	100 %	-10	2501 010 000	0.0	0.000 000	0.000
	100 %	0	2501 010 000	0.1	0.000 000	0.000
	100 %	+10	2501 009 997	-3.1	0.000 000	-0.001
	100 %	+30	2501 009 993	-6.9	0.000 000	-0.003
	100 %	+40	2501 010 001	0.9	0.000 000	0.000
	100 %	+50	2501 010 003	3.1	0.000 000	0.001
	Lowest voltage	+20	2501 010 001	0.6	0.000 000	0.000
2685.000	100 %	+20(Ref)	2684 999 998	0.0	0.000 000	0.000
	100 %	-30	2685 000 000	1.8	0.000 000	0.001
	100 %	-20	2684 999 995	-2.7	0.000 000	-0.001
	100 %	-10	2684 999 999	1.5	0.000 000	0.001
	100 %	0	2684 999 996	-2.3	0.000 000	-0.001
	100 %	+10	2684 999 997	-1.4	0.000 000	-0.001
	100 %	+30	2684 999 998	0.1	0.000 000	0.000
	100 %	+40	2684 999 992	-5.7	0.000 000	-0.002
	100 %	+50	2684 999 992	-6.0	0.000 000	-0.002
	Lowest voltage	+20	2684 999 992	-5.8	0.000 000	-0.002

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2503.500	100 %	+20(Ref)	2503 500 001	0.0	0.000 000	0.000
	100 %	-30	2503 499 995	-6.2	0.000 000	-0.002
	100 %	-20	2503 499 998	-3.3	0.000 000	-0.001
	100 %	-10	2503 500 000	-0.9	0.000 000	0.000
	100 %	0	2503 499 997	-4.2	0.000 000	-0.002
	100 %	+10	2503 499 998	-3.4	0.000 000	-0.001
	100 %	+30	2503 500 001	0.0	0.000 000	0.000
	100 %	+40	2503 499 996	-5.3	0.000 000	-0.002
	100 %	+50	2503 499 996	-5.5	0.000 000	-0.002
	Lowest voltage	+20	2503 499 997	-3.6	0.000 000	-0.001
2682.480	100 %	+20(Ref)	2682 479 993	0.0	0.000 000	0.000
	100 %	-30	2682 479 991	-1.5	0.000 000	-0.001
	100 %	-20	2682 479 992	-0.3	0.000 000	0.000
	100 %	-10	2682 479 989	-3.4	0.000 000	-0.001
	100 %	0	2682 479 991	-1.6	0.000 000	-0.001
	100 %	+10	2682 479 990	-3.0	0.000 000	-0.001
	100 %	+30	2682 479 986	-7.0	0.000 000	-0.003
	100 %	+40	2682 479 990	-2.9	0.000 000	-0.001
	100 %	+50	2682 479 989	-4.1	0.000 000	-0.002
	Lowest voltage	+20	2682 479 989	-3.6	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 019 999	0.0	0.000 000	0.000
	100 %	-30	2506 019 996	-3.3	0.000 000	-0.001
	100 %	-20	2506 019 995	-4.8	0.000 000	-0.002
	100 %	-10	2506 019 998	-1.4	0.000 000	-0.001
	100 %	0	2506 020 002	2.9	0.000 000	0.001
	100 %	+10	2506 019 998	-1.6	0.000 000	-0.001
	100 %	+30	2506 020 003	3.4	0.000 000	0.001
	100 %	+40	2506 019 998	-1.5	0.000 000	-0.001
	100 %	+50	2506 020 000	0.9	0.000 000	0.000
	Lowest voltage	+20	2506 020 000	0.6	0.000 000	0.000
2679.990	100 %	+20(Ref)	2679 989 996	0.0	0.000 000	0.000
	100 %	-30	2679 989 999	2.5	0.000 000	0.001
	100 %	-20	2679 989 993	-3.1	0.000 000	-0.001
	100 %	-10	2679 989 995	-1.5	0.000 000	-0.001
	100 %	0	2679 989 994	-2.1	0.000 000	-0.001
	100 %	+10	2679 989 993	-3.4	0.000 000	-0.001
	100 %	+30	2679 989 997	0.2	0.000 000	0.000
	100 %	+40	2679 989 995	-1.3	0.000 000	0.000
	100 %	+50	2679 990 000	3.6	0.000 000	0.001
	Lowest voltage	+20	2679 989 997	0.8	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 999 996	0.0	0.000 000	0.000
	100 %	-30	2510 999 992	-4.2	0.000 000	-0.002
	100 %	-20	2510 999 991	-4.8	0.000 000	-0.002
	100 %	-10	2510 999 991	-5.2	0.000 000	-0.002
	100 %	0	2510 999 989	-7.3	0.000 000	-0.003
	100 %	+10	2510 999 990	-6.3	0.000 000	-0.003
	100 %	+30	2510 999 996	-0.2	0.000 000	0.000
	100 %	+40	2510 999 988	-7.5	0.000 000	-0.003
	100 %	+50	2510 999 992	-4.0	0.000 000	-0.002
	Lowest voltage	+20	2510 999 994	-2.0	0.000 000	-0.001
2674.980	100 %	+20(Ref)	2674 979 999	0.0	0.000 000	0.000
	100 %	-30	2674 979 997	-2.2	0.000 000	-0.001
	100 %	-20	2674 979 995	-4.2	0.000 000	-0.002
	100 %	-10	2674 979 995	-3.9	0.000 000	-0.001
	100 %	0	2674 979 996	-2.9	0.000 000	-0.001
	100 %	+10	2674 979 998	-1.2	0.000 000	0.000
	100 %	+30	2674 979 997	-2.6	0.000 000	-0.001
	100 %	+40	2674 979 999	-0.7	0.000 000	0.000
	100 %	+50	2674 979 997	-2.1	0.000 000	-0.001
	Lowest voltage	+20	2674 979 999	0.2	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 009 992	0.0	0.000 000	0.000
	100 %	-30	2516 009 985	-7.7	0.000 000	-0.003
	100 %	-20	2516 009 987	-4.9	0.000 000	-0.002
	100 %	-10	2516 009 991	-1.5	0.000 000	-0.001
	100 %	0	2516 009 986	-6.6	0.000 000	-0.003
	100 %	+10	2516 009 990	-2.4	0.000 000	-0.001
	100 %	+30	2516 009 988	-4.8	0.000 000	-0.002
	100 %	+40	2516 009 988	-4.0	0.000 000	-0.002
	100 %	+50	2516 009 985	-7.1	0.000 000	-0.003
	Lowest voltage	+20	2516 009 990	-2.6	0.000 000	-0.001
2670.000	100 %	+20(Ref)	2669 999 999	0.0	0.000 000	0.000
	100 %	-30	2670 000 000	1.3	0.000 000	0.000
	100 %	-20	2669 999 989	-9.5	0.000 000	-0.004
	100 %	-10	2669 999 999	0.5	0.000 000	0.000
	100 %	0	2669 999 996	-2.2	0.000 000	-0.001
	100 %	+10	2669 999 995	-3.5	0.000 000	-0.001
	100 %	+30	2669 999 994	-4.3	0.000 000	-0.002
	100 %	+40	2669 999 994	-4.8	0.000 000	-0.002
	100 %	+50	2669 999 998	-0.3	0.000 000	0.000
	Lowest voltage	+20	2669 999 996	-2.7	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 019 987	0.0	0.000 000	0.000
	100 %	-30	2521 019 978	-9.0	0.000 000	-0.004
	100 %	-20	2521 019 980	-7.9	0.000 000	-0.003
	100 %	-10	2521 019 980	-7.4	0.000 000	-0.003
	100 %	0	2521 019 980	-7.6	0.000 000	-0.003
	100 %	+10	2521 019 973	-14.8	-0.000 001	-0.006
	100 %	+30	2521 019 977	-10.8	0.000 000	-0.004
	100 %	+40	2521 019 980	-7.8	0.000 000	-0.003
	100 %	+50	2521 019 979	-8.4	0.000 000	-0.003
	Lowest voltage	+20	2521 019 980	-7.1	0.000 000	-0.003
2664.990	100 %	+20(Ref)	2664 989 993	0.0	0.000 000	0.000
	100 %	-30	2664 989 985	-8.6	0.000 000	-0.003
	100 %	-20	2664 989 988	-5.1	0.000 000	-0.002
	100 %	-10	2664 989 986	-7.7	0.000 000	-0.003
	100 %	0	2664 989 986	-7.9	0.000 000	-0.003
	100 %	+10	2664 989 988	-5.0	0.000 000	-0.002
	100 %	+30	2664 989 988	-5.8	0.000 000	-0.002
	100 %	+40	2664 989 993	-0.9	0.000 000	0.000
	100 %	+50	2664 989 987	-6.6	0.000 000	-0.002
	Lowest voltage	+20	2664 989 983	-10.0	0.000 000	-0.004

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 999 997	0.0	0.000 000	0.000
	100 %	-30	2525 999 987	-9.2	0.000 000	-0.004
	100 %	-20	2525 999 992	-4.5	0.000 000	-0.002
	100 %	-10	2525 999 993	-3.8	0.000 000	-0.002
	100 %	0	2525 999 996	-0.5	0.000 000	0.000
	100 %	+10	2525 999 994	-2.7	0.000 000	-0.001
	100 %	+30	2525 999 996	-0.4	0.000 000	0.000
	100 %	+40	2525 999 993	-3.2	0.000 000	-0.001
	100 %	+50	2525 999 990	-6.8	0.000 000	-0.003
	Lowest voltage	+20	2525 999 988	-8.3	0.000 000	-0.003
2659.980	100 %	+20(Ref)	2659 979 998	0.0	0.000 000	0.000
	100 %	-30	2659 979 998	0.4	0.000 000	0.000
	100 %	-20	2659 979 997	-1.1	0.000 000	0.000
	100 %	-10	2659 979 997	-0.6	0.000 000	0.000
	100 %	0	2659 979 994	-4.4	0.000 000	-0.002
	100 %	+10	2659 979 997	-0.5	0.000 000	0.000
	100 %	+30	2659 979 996	-1.8	0.000 000	-0.001
	100 %	+40	2659 979 999	0.9	0.000 000	0.000
	100 %	+50	2659 980 001	2.8	0.000 000	0.001
	Lowest voltage	+20	2659 979 998	0.0	0.000 000	0.000

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 009 996	0.0	0.000 000	0.000
	100 %	-30	2531 009 991	-4.7	0.000 000	-0.002
	100 %	-20	2531 009 991	-5.0	0.000 000	-0.002
	100 %	-10	2531 009 993	-3.2	0.000 000	-0.001
	100 %	0	2531 009 990	-5.5	0.000 000	-0.002
	100 %	+10	2531 009 987	-8.3	0.000 000	-0.003
	100 %	+30	2531 009 988	-8.2	0.000 000	-0.003
	100 %	+40	2531 009 991	-4.4	0.000 000	-0.002
	100 %	+50	2531 009 991	-4.4	0.000 000	-0.002
	Lowest voltage	+20	2531 009 989	-6.6	0.000 000	-0.003
2655.000	100 %	+20(Ref)	2655 000 001	0.0	0.000 000	0.000
	100 %	-30	2655 000 003	1.8	0.000 000	0.001
	100 %	-20	2655 000 003	1.8	0.000 000	0.001
	100 %	-10	2655 000 004	2.5	0.000 000	0.001
	100 %	0	2655 000 002	0.9	0.000 000	0.000
	100 %	+10	2655 000 002	0.9	0.000 000	0.000
	100 %	+30	2655 000 000	-1.7	0.000 000	-0.001
	100 %	+40	2655 000 002	0.9	0.000 000	0.000
	100 %	+50	2655 000 004	2.6	0.000 000	0.001
	Lowest voltage	+20	2655 000 000	-1.9	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 019 993	0.0	0.000 000	0.000
	100 %	-30	2536 019 985	-7.7	0.000 000	-0.003
	100 %	-20	2536 019 983	-9.7	0.000 000	-0.004
	100 %	-10	2536 019 992	-0.7	0.000 000	0.000
	100 %	0	2536 019 988	-4.5	0.000 000	-0.002
	100 %	+10	2536 019 986	-6.9	0.000 000	-0.003
	100 %	+30	2536 019 988	-5.3	0.000 000	-0.002
	100 %	+40	2536 019 985	-8.1	0.000 000	-0.003
	100 %	+50	2536 019 987	-6.1	0.000 000	-0.002
	Lowest voltage	+20	2536 019 987	-6.4	0.000 000	-0.003
2649.990	100 %	+20(Ref)	2649 990 001	0.0	0.000 000	0.000
	100 %	-30	2649 990 002	0.7	0.000 000	0.000
	100 %	-20	2649 990 000	-1.4	0.000 000	-0.001
	100 %	-10	2649 990 002	0.5	0.000 000	0.000
	100 %	0	2649 989 996	-4.7	0.000 000	-0.002
	100 %	+10	2649 990 000	-0.8	0.000 000	0.000
	100 %	+30	2649 990 000	-0.7	0.000 000	0.000
	100 %	+40	2649 990 002	1.4	0.000 000	0.001
	100 %	+50	2649 990 004	2.5	0.000 000	0.001
	Lowest voltage	+20	2649 990 002	1.1	0.000 000	0.000

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 999 990	0.0	0.000 000	0.000
	100 %	-30	2540 999 985	-5.4	0.000 000	-0.002
	100 %	-20	2540 999 989	-1.0	0.000 000	0.000
	100 %	-10	2540 999 983	-7.3	0.000 000	-0.003
	100 %	0	2540 999 983	-7.3	0.000 000	-0.003
	100 %	+10	2540 999 986	-3.5	0.000 000	-0.001
	100 %	+30	2540 999 980	-10.2	0.000 000	-0.004
	100 %	+40	2540 999 983	-6.7	0.000 000	-0.003
	100 %	+50	2540 999 985	-5.3	0.000 000	-0.002
	Lowest voltage	+20	2540 999 984	-6.4	0.000 000	-0.003
2644.980	100 %	+20(Ref)	2644 980 002	0.0	0.000 000	0.000
	100 %	-30	2644 980 002	-0.4	0.000 000	0.000
	100 %	-20	2644 979 997	-5.1	0.000 000	-0.002
	100 %	-10	2644 980 001	-1.5	0.000 000	-0.001
	100 %	0	2644 980 003	0.6	0.000 000	0.000
	100 %	+10	2644 980 006	3.8	0.000 000	0.001
	100 %	+30	2644 980 002	0.5	0.000 000	0.000
	100 %	+40	2644 980 001	-1.4	0.000 000	-0.001
	100 %	+50	2644 980 002	0.2	0.000 000	0.000
	Lowest voltage	+20	2644 980 003	1.3	0.000 000	0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 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 009 992	0.0	0.000 000	0.000
	100 %	-30	2546 009 984	-7.9	0.000 000	-0.003
	100 %	-20	2546 009 987	-4.6	0.000 000	-0.002
	100 %	-10	2546 009 987	-4.9	0.000 000	-0.002
	100 %	0	2546 009 983	-9.2	0.000 000	-0.004
	100 %	+10	2546 009 990	-1.6	0.000 000	-0.001
	100 %	+30	2546 009 987	-4.4	0.000 000	-0.002
	100 %	+40	2546 009 987	-5.4	0.000 000	-0.002
	100 %	+50	2546 009 987	-5.2	0.000 000	-0.002
	Lowest voltage	+20	2546 009 986	-6.0	0.000 000	-0.002
2640.000	100 %	+20(Ref)	2640 000 004	0.0	0.000 000	0.000
	100 %	-30	2640 000 003	-0.7	0.000 000	0.000
	100 %	-20	2639 999 999	-5.5	0.000 000	-0.002
	100 %	-10	2640 000 002	-1.7	0.000 000	-0.001
	100 %	0	2640 000 005	0.8	0.000 000	0.000
	100 %	+10	2640 000 007	3.1	0.000 000	0.001
	100 %	+30	2640 000 005	0.9	0.000 000	0.000
	100 %	+40	2640 000 003	-1.5	0.000 000	-0.001
	100 %	+50	2640 000 004	0.3	0.000 000	0.000
	Lowest voltage	+20	2640 000 006	1.5	0.000 000	0.001

9. TEST DATA (Internal(BUA))

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2501.010	Sub6 n41 / 10 MHz [30 kHz]	PI/2 BPSK	82.97	29.90	4.60	117.47	V	< 2.00	0.169	22.27	1	12
		QPSK	81.31	29.90	4.60	115.81	V		0.115	20.61		
		16-QAM	81.86	29.90	4.60	116.36	V		0.131	21.16		
		64-QAM	80.03	29.90	4.60	114.53	V		0.086	19.33		
		256-QAM	77.53	29.90	4.60	112.03	V		0.048	16.83		
2592.990		PI/2 BPSK	84.79	29.80	4.80	119.39	V		0.262	24.19	1	22
		QPSK	84.29	29.80	4.80	118.89	V		0.234	23.69		
		16-QAM	83.09	29.80	4.80	117.69	V		0.177	22.49		
		64-QAM	82.49	29.80	4.80	117.09	V		0.155	21.89		
		256-QAM	79.53	29.80	4.80	114.13	V		0.078	18.93		
2685.000		PI/2 BPSK	81.94	30.10	4.90	116.94	V		0.149	21.74	1	1
		QPSK	81.59	30.10	4.90	116.59	V		0.138	21.39		
		16-QAM	80.30	30.10	4.90	115.30	V		0.102	20.10		
		64-QAM	80.45	30.10	4.90	115.45	V		0.106	20.25		
		256-QAM	76.54	30.10	4.90	111.54	V		0.043	16.34		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2503.500	Sub6 n41 / 15 MHz [30 kHz]	PI/2 BPSK	82.58	29.90	4.60	117.08	V	< 2.00	0.154	21.88	1	19
		QPSK	82.14	29.90	4.60	116.64	V		0.139	21.44		
		16-QAM	82.01	29.90	4.60	116.51	V		0.135	21.31		
		64-QAM	80.39	29.90	4.60	114.89	V		0.093	19.69		
		256-QAM	77.70	29.90	4.60	112.20	V		0.050	17.00		
2592.990		PI/2 BPSK	85.21	29.80	4.80	119.81	V		0.289	24.61	1	1
		QPSK	84.77	29.80	4.80	119.37	V		0.261	24.17		
		16-QAM	83.75	29.80	4.80	118.35	V		0.207	23.15		
		64-QAM	82.48	29.80	4.80	117.08	V		0.154	21.88		
		256-QAM	81.25	29.80	4.80	115.85	V		0.116	20.65		
2682.480		PI/2 BPSK	80.83	30.10	4.90	115.83	V		0.116	20.63	1	1
		QPSK	80.68	30.10	4.90	115.68	V		0.112	20.48		
		16-QAM	80.60	30.10	4.90	115.60	V		0.110	20.40		
		64-QAM	79.54	30.10	4.90	114.54	V		0.086	19.34		
		256-QAM	76.96	30.10	4.90	111.96	V		0.047	16.76		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2506.020	Sub6 n41 / 20 MHz [30 kHz]	PI/2 BPSK	82.28	29.90	4.60	116.78	V	< 2.00	0.144	21.58	1	49
		QPSK	81.78	29.90	4.60	116.28	V		0.128	21.08		
		16-QAM	81.71	29.90	4.60	116.21	V		0.126	21.01		
		64-QAM	80.86	29.90	4.60	115.36	V		0.104	20.16		
		256-QAM	77.81	29.90	4.60	112.31	V		0.051	17.11		
2592.990		PI/2 BPSK	85.28	29.80	4.80	119.88	V		0.294	24.68	1	25
		QPSK	84.13	29.80	4.80	118.73	V		0.225	23.53		
		16-QAM	81.68	29.80	4.80	116.28	V		0.128	21.08		
		64-QAM	82.28	29.80	4.80	116.88	V		0.147	21.68		
		256-QAM	80.29	29.80	4.80	114.89	V		0.093	19.69		
2679.990		PI/2 BPSK	81.95	30.10	4.90	116.95	V		0.150	21.75	1	25
		QPSK	81.42	30.10	4.90	116.42	V		0.132	21.22		
		16-QAM	80.95	30.10	4.90	115.95	V		0.119	20.75		
		64-QAM	78.88	30.10	4.90	113.88	V		0.074	18.68		
		256-QAM	77.76	30.10	4.90	112.76	V		0.057	17.56		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2511.000	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	82.79	29.90	4.60	117.29	V	< 2.00	0.162	22.09	1	76
		QPSK	82.48	29.90	4.60	116.98	V		0.151	21.78		
		16-QAM	80.77	29.90	4.60	115.27	V		0.102	20.07		
		64-QAM	80.24	29.90	4.60	114.74	V		0.090	19.54		
		256-QAM	77.27	29.90	4.60	111.77	V		0.045	16.57		
2592.990		PI/2 BPSK	84.92	29.80	4.80	119.52	V		0.270	24.32	1	39
		QPSK	84.47	29.80	4.80	119.07	V		0.244	23.87		
		16-QAM	83.38	29.80	4.80	117.98	V		0.190	22.78		
		64-QAM	82.32	29.80	4.80	116.92	V		0.149	21.72		
		256-QAM	79.19	29.80	4.80	113.79	V		0.072	18.59		
2674.980		PI/2 BPSK	81.16	30.10	4.90	116.16	V		0.125	20.96	1	76
		QPSK	80.30	30.10	4.90	115.30	V		0.102	20.10		
		16-QAM	78.02	30.10	4.90	113.02	V		0.061	17.82		
		64-QAM	78.63	30.10	4.90	113.63	V		0.070	18.43		
		256-QAM	76.82	30.10	4.90	111.82	V		0.046	16.62		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2516.010	Sub6 n41 / 40 MHz [30 kHz]	PI/2 BPSK	84.01	29.90	4.60	118.51	V	< 2.00	0.214	23.31	1	104
		QPSK	82.21	29.90	4.60	116.71	V		0.142	21.51		
		16-QAM	82.82	29.90	4.60	117.32	V		0.163	22.12		
		64-QAM	81.17	29.90	4.60	115.67	V		0.111	20.47		
		256-QAM	79.35	29.90	4.60	113.85	V		0.073	18.65		
2592.990		PI/2 BPSK	84.07	29.80	4.80	118.67	V		0.222	23.47	1	53
		QPSK	83.71	29.80	4.80	118.31	V		0.205	23.11		
		16-QAM	83.27	29.80	4.80	117.87	V		0.185	22.67		
		64-QAM	81.35	29.80	4.80	115.95	V		0.119	20.75		
		256-QAM	81.12	29.80	4.80	115.72	V		0.113	20.52		
2670.000		PI/2 BPSK	82.65	30.10	4.90	117.65	V		0.176	22.45	1	1
		QPSK	82.60	30.10	4.90	117.60	V		0.174	22.40		
		16-QAM	81.15	30.10	4.90	116.15	V		0.124	20.95		
		64-QAM	79.88	30.10	4.90	114.88	V		0.093	19.68		
		256-QAM	77.92	30.10	4.90	112.92	V		0.059	17.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	82.72	29.90	4.60	117.22	V	< 2.00	0.159	22.02	1	66
		QPSK	82.66	29.90	4.60	117.16	V		0.157	21.96		
		16-QAM	82.45	29.90	4.60	116.95	V		0.150	21.75		
		64-QAM	81.28	29.90	4.60	115.78	V		0.114	20.58		
		256-QAM	77.73	29.90	4.60	112.23	V		0.051	17.03		
2592.990		PI/2 BPSK	84.15	29.80	4.80	118.75	V		0.226	23.55	1	66
		QPSK	83.56	29.80	4.80	118.16	V		0.198	22.96		
		16-QAM	82.88	29.80	4.80	117.48	V		0.169	22.28		
		64-QAM	81.24	29.80	4.80	115.84	V		0.116	20.64		
		256-QAM	80.04	29.80	4.80	114.64	V		0.088	19.44		
2664.990		PI/2 BPSK	83.10	30.10	4.90	118.10	V		0.195	22.90	1	66
		QPSK	81.57	30.10	4.90	116.57	V		0.137	21.37		
		16-QAM	79.83	30.10	4.90	114.83	V		0.092	19.63		
		64-QAM	80.14	30.10	4.90	115.14	V		0.099	19.94		
		256-QAM	77.45	30.10	4.90	112.45	V		0.053	17.25		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	83.45	29.90	4.60	117.95	V	< 2.00	0.188	22.75	1	82
		QPSK	82.96	29.90	4.60	117.46	V		0.168	22.26		
		16-QAM	81.64	29.90	4.60	116.14	V		0.124	20.94		
		64-QAM	80.76	29.90	4.60	115.26	V		0.101	20.06		
		256-QAM	78.69	29.90	4.60	113.19	V		0.063	17.99		
2592.990		PI/2 BPSK	83.84	29.80	4.80	118.44	V		0.211	23.24	1	82
		QPSK	83.59	29.80	4.80	118.19	V		0.199	22.99		
		16-QAM	83.24	29.80	4.80	117.84	V		0.184	22.64		
		64-QAM	82.32	29.80	4.80	116.92	V		0.149	21.72		
		256-QAM	79.97	29.80	4.80	114.57	V		0.087	19.37		
2659.980		PI/2 BPSK	83.43	30.10	4.90	118.43	V		0.210	23.23	1	1
		QPSK	81.74	30.10	4.90	116.74	V		0.143	21.54		
		16-QAM	80.62	30.10	4.90	115.62	V		0.110	20.42		
		64-QAM	78.01	30.10	4.90	113.01	V		0.060	17.81		
		256-QAM	77.18	30.10	4.90	112.18	V		0.050	16.98		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	83.60	29.90	4.60	118.10	V	< 2.00	0.195	22.90	1	94
		QPSK	82.46	29.90	4.60	116.96	V		0.150	21.76		
		16-QAM	83.04	29.90	4.60	117.54	V		0.171	22.34		
		64-QAM	79.65	29.90	4.60	114.15	V		0.079	18.95		
		256-QAM	78.09	29.90	4.60	112.59	V		0.055	17.39		
2592.990		PI/2 BPSK	83.91	29.80	4.80	118.51	V		0.214	23.31	1	94
		QPSK	83.87	29.80	4.80	118.47	V		0.212	23.27		
		16-QAM	82.68	29.80	4.80	117.28	V		0.161	22.08		
		64-QAM	80.90	29.80	4.80	115.50	V		0.107	20.30		
		256-QAM	79.35	29.80	4.80	113.95	V		0.075	18.75		
2655.000		PI/2 BPSK	82.74	30.10	4.90	117.74	V		0.179	22.54	1	94
		QPSK	82.19	30.10	4.90	117.19	V		0.158	21.99		
		16-QAM	80.17	30.10	4.90	115.17	V		0.099	19.97		
		64-QAM	80.10	30.10	4.90	115.10	V		0.098	19.90		
		256-QAM	78.35	30.10	4.90	113.35	V		0.065	18.15		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	84.51	29.90	4.60	119.01	V	< 2.00	0.240	23.81	1	215
		QPSK	82.39	29.90	4.60	116.89	V		0.148	21.69		
		16-QAM	82.16	29.90	4.60	116.66	V		0.140	21.46		
		64-QAM	79.86	29.90	4.60	114.36	V		0.082	19.16		
		256-QAM	79.21	29.90	4.60	113.71	V		0.071	18.51		
2592.990		PI/2 BPSK	84.11	29.80	4.80	118.71	V		0.224	23.51	1	108
		QPSK	82.09	29.80	4.80	116.69	V		0.141	21.49		
		16-QAM	82.78	29.80	4.80	117.38	V		0.165	22.18		
		64-QAM	81.49	29.80	4.80	116.09	V		0.123	20.89		
		256-QAM	78.43	29.80	4.80	113.03	V		0.061	17.83		
2649.990		PI/2 BPSK	83.41	30.10	4.90	118.41	V		0.209	23.21	1	1
		QPSK	82.19	30.10	4.90	117.19	V		0.158	21.99		
		16-QAM	82.38	30.10	4.90	117.38	V		0.165	22.18		
		64-QAM	81.25	30.10	4.90	116.25	V		0.127	21.05		
		256-QAM	79.09	30.10	4.90	114.09	V		0.077	18.89		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	84.02	29.90	4.60	118.52	V	< 2.00	0.215	23.32	1	243
		QPSK	83.74	29.90	4.60	118.24	V		0.201	23.04		
		16-QAM	83.08	29.90	4.60	117.58	V		0.173	22.38		
		64-QAM	80.13	29.90	4.60	114.63	V		0.088	19.43		
		256-QAM	79.65	29.90	4.60	114.15	V		0.079	18.95		
2592.990		PI/2 BPSK	84.49	29.80	4.80	119.09	V		0.245	23.89	1	122
		QPSK	84.41	29.80	4.80	119.01	V		0.240	23.81		
		16-QAM	82.92	29.80	4.80	117.52	V		0.171	22.32		
		64-QAM	81.17	29.80	4.80	115.77	V		0.114	20.57		
		256-QAM	80.22	29.80	4.80	114.82	V		0.092	19.62		
2644.980		PI/2 BPSK	83.49	30.10	4.90	118.49	V		0.213	23.29	1	1
		QPSK	83.47	30.10	4.90	118.47	V		0.212	23.27		
		16-QAM	81.79	30.10	4.90	116.79	V		0.144	21.59		
		64-QAM	82.09	30.10	4.90	117.09	V		0.155	21.89		
		256-QAM	79.47	30.10	4.90	114.47	V		0.085	19.27		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	84.25	29.90	4.60	118.75	V	< 2.00	0.226	23.55	1	271
		QPSK	83.75	29.90	4.60	118.25	V		0.202	23.05		
		16-QAM	82.57	29.90	4.60	117.07	V		0.154	21.87		
		64-QAM	81.70	29.90	4.60	116.20	V		0.126	21.00		
		256-QAM	79.30	29.90	4.60	113.80	V		0.072	18.60		
2592.990		PI/2 BPSK	85.13	29.80	4.80	119.73	V		0.284	24.53	1	136
		QPSK	83.31	29.80	4.80	117.91	V		0.187	22.71		
		16-QAM	83.56	29.80	4.80	118.16	V		0.198	22.96		
		64-QAM	82.11	29.80	4.80	116.71	V		0.142	21.51		
		256-QAM	80.06	29.80	4.80	114.66	V		0.088	19.46		
2640.000		PI/2 BPSK	84.16	30.10	4.90	119.16	V		0.249	23.96	1	1
		QPSK	84.04	30.10	4.90	119.04	V		0.242	23.84		
		16-QAM	82.63	30.10	4.90	117.63	V		0.175	22.43		
		64-QAM	81.81	30.10	4.90	116.81	V		0.145	21.61		
		256-QAM	79.92	30.10	4.90	114.92	V		0.094	19.72		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>n41</u>
Bandwidth:	<u>10 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
500202 (2501.010)	5 002.02	-56.03	10.91	-62.51	3.71	H	-55.31	-25.00	1	12
	7 503.03	-57.04	11.58	-59.17	4.60	H	-52.19	-25.00		
	10 004.04	-54.85	11.40	-54.48	5.47	H	-48.55	-25.00		
	12 505.05	-56.48	13.17	-52.86	6.10	H	-45.79	-25.00		
	15 006.06	-68.48	14.26	-50.46	6.78	H	-42.98	-25.00		
518598 (2592.990)	5 185.98	-54.70	11.18	-62.23	3.80	V	-54.85	-25.00	1	22
	7 778.97	-55.09	11.37	-55.65	4.70	H	-48.98	-25.00		
	10 371.96	-56.18	11.67	-55.70	5.55	H	-49.58	-25.00		
	12 964.95	-58.29	12.77	-53.45	6.35	V	-47.03	-25.00		
	15 557.94	-69.17	15.76	-50.82	6.89	V	-41.95	-25.00		
537000 (2685.000)	5 370.00	-47.90	11.59	-55.34	3.92	V	-47.67	-25.00	1	1
	8 055.00	-56.57	11.32	-55.92	4.81	V	-49.41	-25.00		
	10 740.00	-55.65	11.60	-55.08	5.64	H	-49.12	-25.00		
	13 425.00	-57.47	12.88	-49.05	6.41	H	-42.58	-25.00		
	16 110.00	-69.07	16.29	-53.31	7.10	H	-44.12	-25.00		

☐ NR Band: n41
☐ Bandwidth: 15 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
500700 (2503.500)	5 007.00	-55.86	10.91	-62.40	3.71	V	-55.20	-25.00	1	19
	7 510.50	-57.23	11.59	-59.34	4.60	H	-52.35	-25.00		
	10 014.00	-54.76	11.39	-54.13	5.47	H	-48.21	-25.00		
	12 517.50	-56.13	13.15	-52.71	6.09	H	-45.65	-25.00		
	15 021.00	-68.47	14.29	-50.40	6.74	H	-42.85	-25.00		
518598 (2592.990)	5 185.98	-54.64	11.18	-62.17	3.80	V	-54.79	-25.00	1	1
	7 778.97	-55.13	11.37	-55.69	4.70	H	-49.02	-25.00		
	10 371.96	-56.23	11.67	-55.75	5.55	H	-49.63	-25.00		
	12 964.95	-58.21	12.77	-53.37	6.35	V	-46.95	-25.00		
	15 557.94	-68.64	15.76	-50.29	6.89	H	-41.42	-25.00		
536496 (2682.480)	5 364.96	-49.48	11.59	-56.99	3.91	V	-49.31	-25.00	1	1
	8 047.44	-55.18	11.30	-54.99	4.81	H	-48.50	-25.00		
	10 729.92	-54.91	11.60	-54.38	5.65	V	-48.43	-25.00		
	13 412.40	-58.52	12.90	-51.02	6.39	V	-44.51	-25.00		
	16 094.88	-68.70	16.28	-52.73	7.06	H	-43.51	-25.00		

☐ NR Band: n41
☐ Bandwidth: 20 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
501204 (2506.020)	5 012.04	-56.71	10.91	-63.30	3.72	V	-56.11	-25.00	1	49
	7 518.06	-55.65	11.60	-58.02	4.61	V	-51.03	-25.00		
	10 024.08	-56.25	11.39	-55.50	5.47	V	-49.58	-25.00		
	12 530.10	-57.67	13.14	-54.13	6.10	H	-47.09	-25.00		
	15 036.12	-68.31	14.33	-50.48	6.74	H	-42.89	-25.00		
518598 (2592.990)	5 185.98	-54.41	11.18	-61.94	3.80	V	-54.56	-25.00	1	25
	7 778.97	-56.93	11.37	-57.49	4.70	V	-50.82	-25.00		
	10 371.96	-56.61	11.67	-56.13	5.55	H	-50.01	-25.00		
	12 964.95	-59.43	12.77	-54.59	6.35	H	-48.17	-25.00		
	15 557.94	-69.06	15.76	-50.71	6.89	H	-41.84	-25.00		
535998 (2679.990)	5 359.98	-50.03	11.58	-57.60	3.90	V	-49.92	-25.00	1	25
	8 039.97	-56.41	11.29	-56.40	4.80	H	-49.91	-25.00		
	10 719.96	-54.13	11.60	-53.98	5.64	H	-48.02	-25.00		
	13 399.95	-59.16	12.91	-51.82	6.38	H	-45.29	-25.00		
	16 079.94	-69.94	16.25	-53.61	7.02	V	-44.38	-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	-55.74	10.90	-62.22	3.69	H	-55.01	-25.00	1	76
	7 533.00	-56.57	11.62	-59.00	4.61	V	-51.99	-25.00		
	10 044.00	-56.41	11.38	-55.93	5.48	V	-50.03	-25.00		
	12 555.00	-59.31	13.11	-55.63	6.22	V	-48.74	-25.00		
	15 066.00	-68.27	14.40	-50.23	6.80	V	-42.63	-25.00		
518598 (2592.990)	5 185.98	-54.14	11.18	-61.67	3.80	V	-54.29	-25.00	1	39
	7 778.97	-56.78	11.37	-57.34	4.70	V	-50.67	-25.00		
	10 371.96	-56.61	11.67	-56.13	5.55	V	-50.01	-25.00		
	12 964.95	-58.17	12.77	-53.33	6.35	H	-46.91	-25.00		
	15 557.94	-69.43	15.76	-51.08	6.89	H	-42.21	-25.00		
534996 (2674.980)	5 349.96	-48.20	11.57	-55.24	3.85	H	-47.52	-25.00	1	76
	8 024.94	-55.36	11.27	-55.17	4.79	V	-48.69	-25.00		
	10 699.92	-55.08	11.61	-54.76	5.67	V	-48.82	-25.00		
	13 374.90	-60.42	12.95	-53.52	6.34	V	-46.91	-25.00		
	16 049.88	-69.23	16.21	-53.11	7.02	H	-43.92	-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	-55.68	10.90	-62.62	3.67	H	-55.39	-25.00	1	104
	7 548.03	-56.13	11.63	-58.51	4.63	V	-51.51	-25.00		
	10 064.04	-56.36	11.37	-55.83	5.47	V	-49.93	-25.00		
	12 580.05	-59.23	13.07	-55.51	6.25	V	-48.69	-25.00		
	15 096.06	-68.21	14.47	-50.45	6.81	V	-42.79	-25.00		
518598 (2592.990)	5 185.98	-54.11	11.18	-61.64	3.80	V	-54.26	-25.00	1	53
	7 778.97	-56.72	11.37	-57.28	4.70	V	-50.61	-25.00		
	10 371.96	-56.23	11.67	-55.75	5.55	V	-49.63	-25.00		
	12 964.95	-58.13	12.77	-53.29	6.35	H	-46.87	-25.00		
	15 557.94	-69.48	15.76	-51.13	6.89	H	-42.26	-25.00		
534000 (2670.000)	5 340.00	-56.27	11.56	-63.55	3.80	H	-55.79	-25.00	1	1
	8 010.00	-55.63	11.24	-55.63	4.77	H	-49.16	-25.00		
	10 680.00	-55.26	11.61	-54.88	5.71	V	-48.98	-25.00		
	13 350.00	-59.37	12.98	-52.82	6.38	H	-46.22	-25.00		
	16 020.00	-69.40	16.17	-52.72	7.02	H	-43.57	-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	-55.61	10.90	-62.28	3.68	H	-55.06	-25.00	1	66
	7 563.06	-56.35	11.64	-58.55	4.64	V	-51.55	-25.00		
	10 084.08	-56.32	11.36	-55.82	5.46	V	-49.92	-25.00		
	12 605.10	-58.99	13.02	-55.20	6.18	H	-48.36	-25.00		
	15 126.12	-68.23	14.55	-50.23	6.79	V	-42.47	-25.00		
518598 (2592.990)	5 185.98	-54.13	11.18	-61.66	3.80	V	-54.28	-25.00	1	66
	7 778.97	-56.35	11.37	-56.91	4.70	V	-50.24	-25.00		
	10 371.96	-56.20	11.67	-55.72	5.55	V	-49.60	-25.00		
	12 964.95	-58.21	12.77	-53.37	6.35	H	-46.95	-25.00		
	15 557.94	-69.42	15.76	-51.07	6.89	H	-42.20	-25.00		
532998 (2664.990)	5 329.98	-49.23	11.55	-56.77	3.77	H	-48.99	-25.00	1	66
	7 994.97	-55.55	11.22	-55.45	4.77	V	-49.00	-25.00		
	10 659.96	-54.95	11.61	-54.31	5.67	H	-48.37	-25.00		
	13 324.95	-59.40	13.03	-52.96	6.45	V	-46.38	-25.00		
	15 989.94	-68.86	16.14	-51.28	7.02	H	-42.16	-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	-55.85	10.90	-62.58	3.73	H	-55.41	-25.00	1	82
	7 578.00	-55.23	11.65	-57.51	4.65	V	-50.51	-25.00		
	10 104.00	-57.86	11.35	-57.30	5.46	V	-51.41	-25.00		
	12 630.00	-59.28	12.97	-55.25	6.23	V	-48.51	-25.00		
	15 156.00	-68.23	14.63	-50.19	6.80	V	-42.36	-25.00		
518598 (2592.990)	5 185.98	-54.12	11.18	-61.65	3.80	V	-54.27	-25.00	1	82
	7 778.97	-56.26	11.37	-56.82	4.70	V	-50.15	-25.00		
	10 371.96	-56.23	11.67	-55.75	5.55	V	-49.63	-25.00		
	12 964.95	-58.20	12.77	-53.36	6.35	H	-46.94	-25.00		
	15 557.94	-68.81	15.76	-50.46	6.89	H	-41.59	-25.00		
531996 (2659.980)	5 319.96	-55.87	11.54	-63.22	3.79	H	-55.47	-25.00	1	1
	7 979.94	-55.61	11.20	-55.69	4.79	H	-49.28	-25.00		
	10 639.92	-56.18	11.62	-56.14	5.61	V	-50.13	-25.00		
	13 299.90	-58.61	13.08	-52.56	6.39	H	-45.87	-25.00		
	15 959.88	-68.13	16.11	-50.54	6.98	H	-41.41	-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	-55.94	10.91	-62.77	3.78	H	-55.64	-25.00	1	94
	7 593.03	-55.91	11.66	-58.14	4.64	V	-51.12	-25.00		
	10 124.04	-57.33	11.34	-56.36	5.47	V	-50.49	-25.00		
	12 655.05	-59.39	12.91	-55.39	6.26	V	-48.74	-25.00		
	15 186.06	-68.29	14.72	-50.23	6.82	V	-42.33	-25.00		
518598 (2592.990)	5 185.98	-54.16	11.18	-61.69	3.80	V	-54.31	-25.00	1	94
	7 778.97	-56.80	11.37	-57.36	4.70	V	-50.69	-25.00		
	10 371.96	-56.71	11.67	-56.23	5.55	H	-50.11	-25.00		
	12 964.95	-58.23	12.77	-53.39	6.35	H	-46.97	-25.00		
	15 557.94	-69.38	15.76	-51.03	6.89	H	-42.16	-25.00		
531000 (2655.000)	5 310.00	-50.24	11.53	-57.70	3.82	V	-49.99	-25.00	1	94
	7 965.00	-55.36	11.17	-55.28	4.80	V	-48.91	-25.00		
	10 620.00	-55.50	11.62	-55.25	5.65	H	-49.28	-25.00		
	13 275.00	-58.74	13.11	-52.79	6.35	H	-46.03	-25.00		
	15 930.00	-69.73	16.09	-51.31	7.00	H	-42.22	-25.00		

■ NR Band:	<u>n41</u>
■ Bandwidth:	<u>80 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
507204 (2536.020)	5 072.04	-55.91	10.92	-62.67	3.80	H	-55.55	-25.00	1	215
	7 608.06	-55.13	11.65	-57.31	4.64	V	-50.30	-25.00		
	10 144.08	-57.61	11.33	-57.08	5.48	V	-51.23	-25.00		
	12 680.10	-59.16	12.87	-55.12	6.23	H	-48.48	-25.00		
	15 216.12	-68.33	14.82	-49.89	6.82	V	-41.89	-25.00		
518598 (2592.990)	5 185.98	-54.85	11.18	-62.38	3.80	V	-55.00	-25.00	1	108
	7 778.97	-55.35	11.37	-55.91	4.70	H	-49.24	-25.00		
	10 371.96	-56.11	11.67	-55.63	5.55	V	-49.51	-25.00		
	12 964.95	-58.64	12.77	-53.80	6.35	H	-47.38	-25.00		
	15 557.94	-69.36	15.76	-51.01	6.89	H	-42.14	-25.00		
529998 (2649.990)	5 299.98	-55.92	11.52	-63.34	3.83	H	-55.65	-25.00	1	1
	7 949.97	-55.64	11.15	-55.93	4.78	H	-49.56	-25.00		
	10 599.96	-56.23	11.63	-55.99	5.67	V	-50.03	-25.00		
	13 249.95	-58.67	13.13	-52.93	6.43	H	-46.23	-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

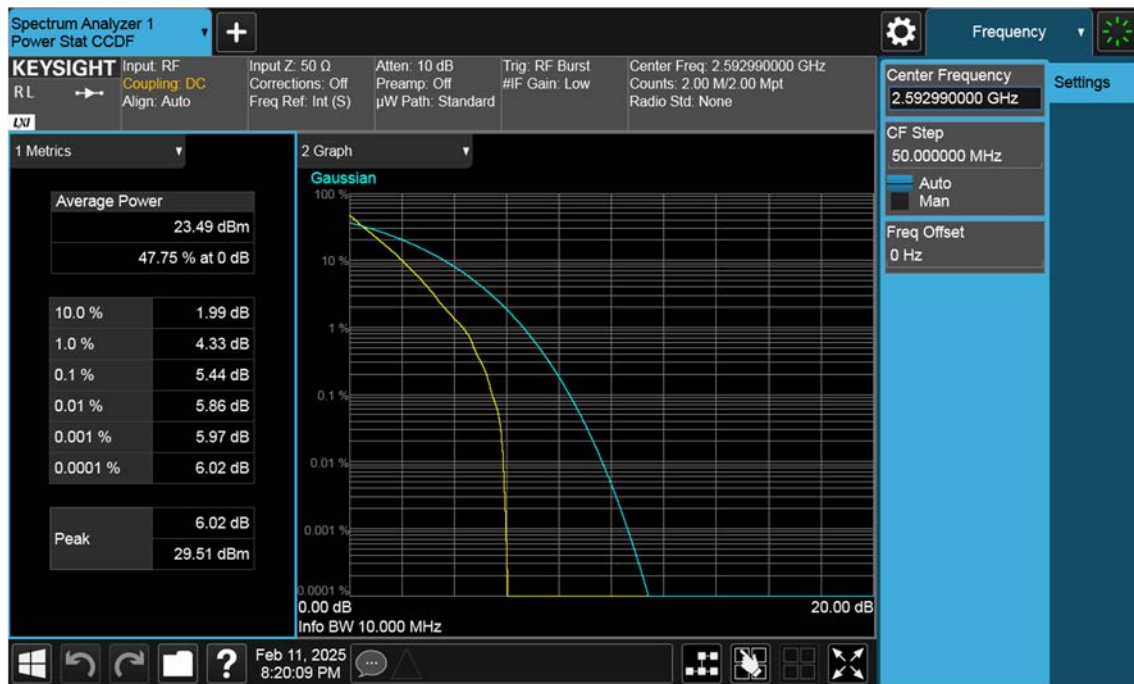
Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
508200 (2541.000)	5 082.00	-55.13	10.93	-61.99	3.81	V	-54.87	-25.00	1	243
	7 623.00	-55.84	11.65	-57.98	4.65	V	-50.98	-25.00		
	10 164.00	-55.86	11.34	-55.57	5.50	V	-49.73	-25.00		
	12 705.00	-58.13	12.83	-54.02	6.20	H	-47.39	-25.00		
	15 246.00	-68.35	14.92	-49.95	6.84	V	-41.87	-25.00		
518598 (2592.990)	5 185.98	-54.35	11.18	-61.88	3.80	H	-54.50	-25.00	1	122
	7 778.97	-55.61	11.37	-56.17	4.70	H	-49.50	-25.00		
	10 371.96	-56.23	11.67	-55.75	5.55	V	-49.63	-25.00		
	12 964.95	-59.13	12.77	-54.29	6.35	H	-47.87	-25.00		
	15 557.94	-67.89	15.76	-49.54	6.89	H	-40.67	-25.00		
528996 (2644.980)	5 289.96	-55.87	11.50	-62.84	3.83	H	-55.17	-25.00	1	1
	7 934.94	-55.61	11.16	-55.57	4.77	H	-49.18	-25.00		
	10 579.92	-56.35	11.64	-56.22	5.65	V	-50.23	-25.00		
	13 224.90	-58.61	13.12	-52.63	6.43	H	-45.94	-25.00		
	15 869.88	-67.75	16.05	-49.77	6.97	V	-40.69	-25.00		

■ NR Band:	<u>n41</u>
■ Bandwidth:	<u>100 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>1 meter</u>
■ SCS:	<u>30 kHz</u>

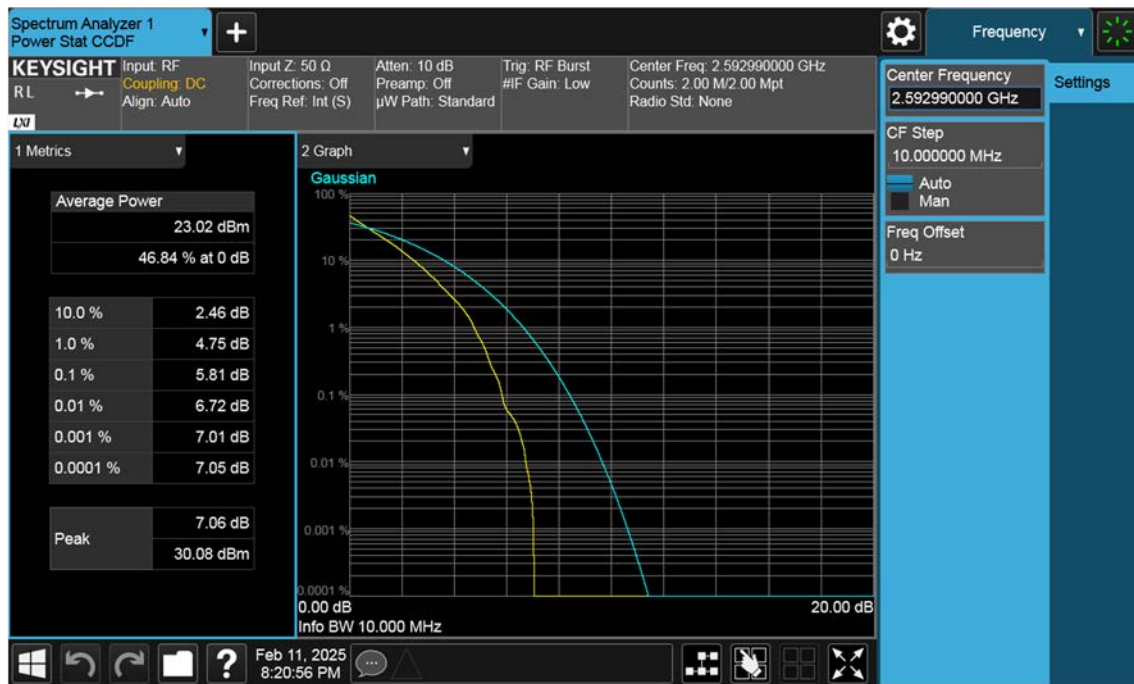
Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-55.71	10.94	-62.58	3.78	H	-55.42	-25.00	1	271
	7 638.03	-55.32	11.64	-57.39	4.68	V	-50.43	-25.00		
	10 184.04	-56.03	11.35	-55.44	5.52	V	-49.61	-25.00		
	12 730.05	-58.67	12.80	-55.04	6.21	V	-48.45	-25.00		
	15 276.06	-68.15	15.00	-49.52	6.82	V	-41.34	-25.00		
518598 (2592.990)	5 185.98	-53.71	11.18	-61.24	3.80	H	-53.86	-25.00	1	136
	7 778.97	-55.67	11.37	-56.23	4.70	H	-49.56	-25.00		
	10 371.96	-56.18	11.67	-55.70	5.55	V	-49.58	-25.00		
	12 964.95	-59.07	12.77	-54.23	6.35	H	-47.81	-25.00		
	15 557.94	-68.47	15.79	-50.15	6.89	H	-41.25	-25.00		
528000 (2640.000)	5 280.00	-55.91	11.47	-63.29	3.80	H	-55.62	-25.00	1	1
	7 920.00	-55.33	11.16	-55.56	4.77	H	-49.17	-25.00		
	10 560.00	-56.79	11.66	-57.02	5.63	H	-50.99	-25.00		
	13 200.00	-58.50	13.11	-52.38	6.33	H	-45.60	-25.00		
	15,840.00	-67.68	16.05	-49.75	6.99	H	-40.69	-25.00		

10. TEST PLOTS

NR41_10 M_PAR_Mid_BPSK_FullRB



NR41_10 M_PAR_Mid_QPSK_FullRB



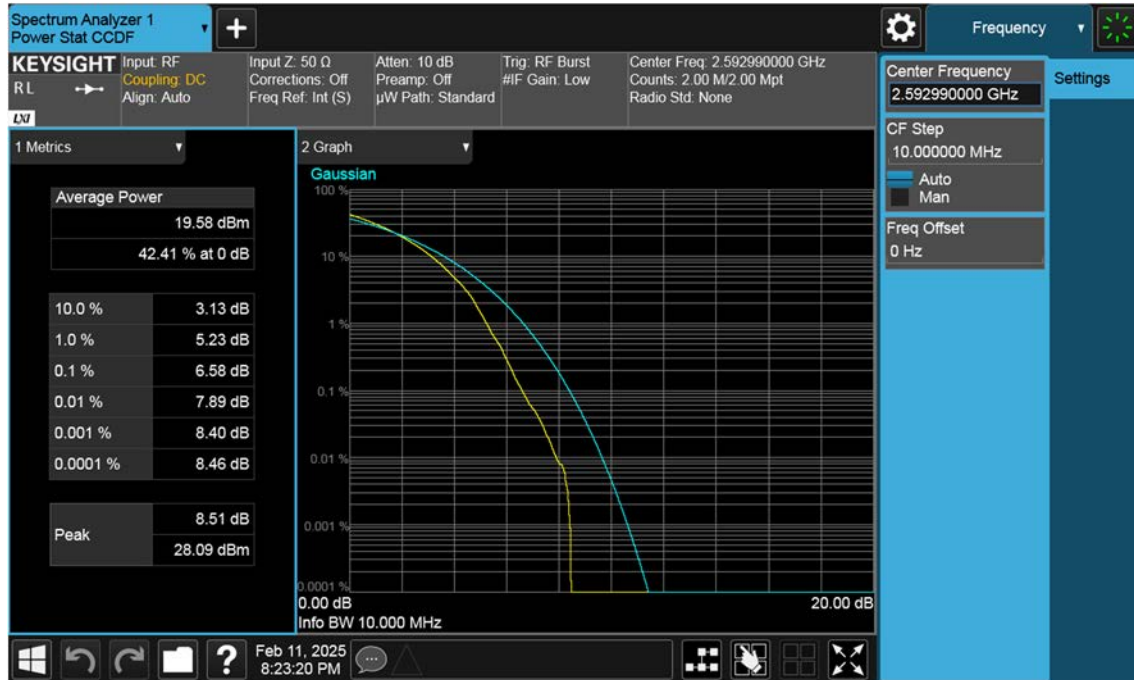
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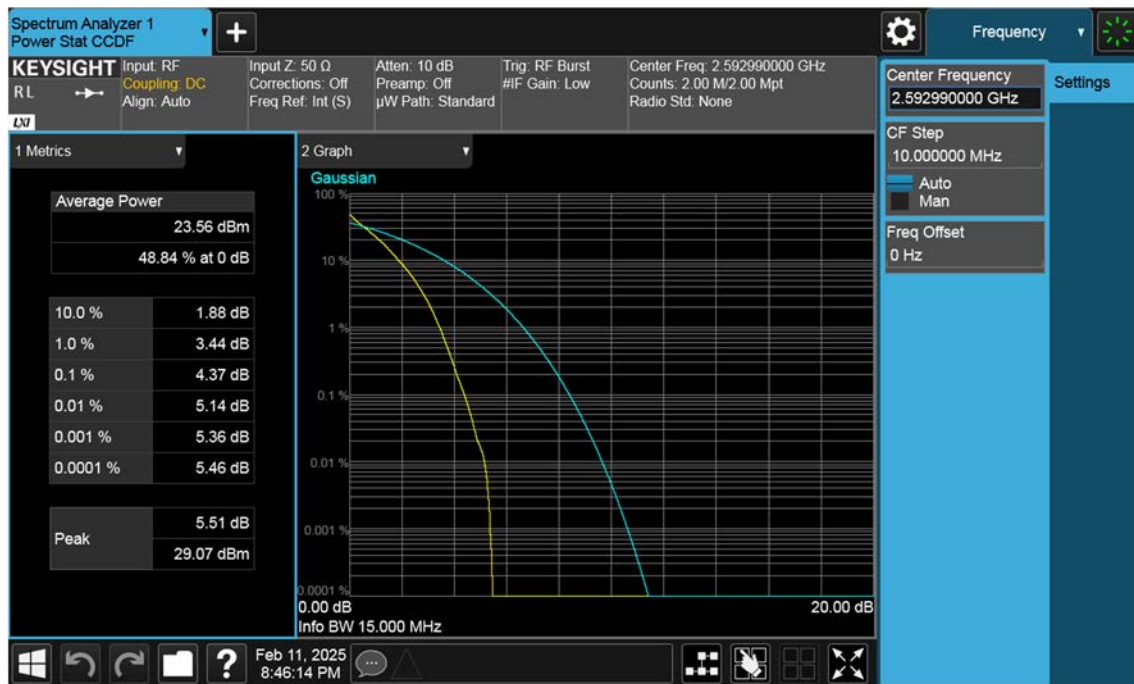
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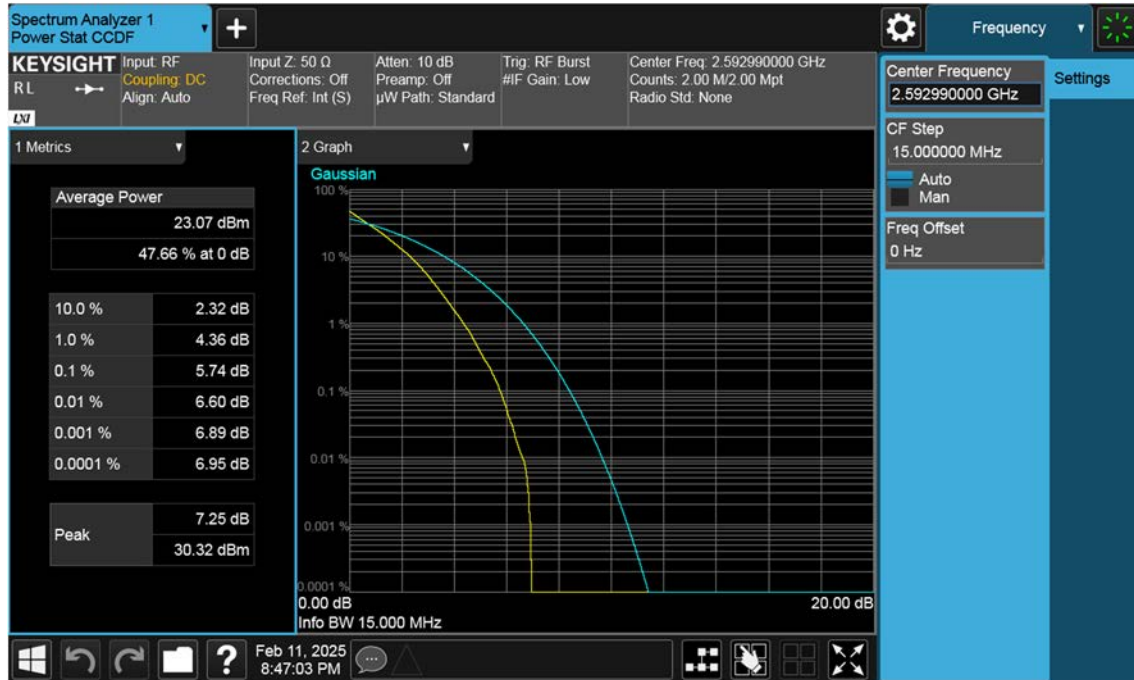
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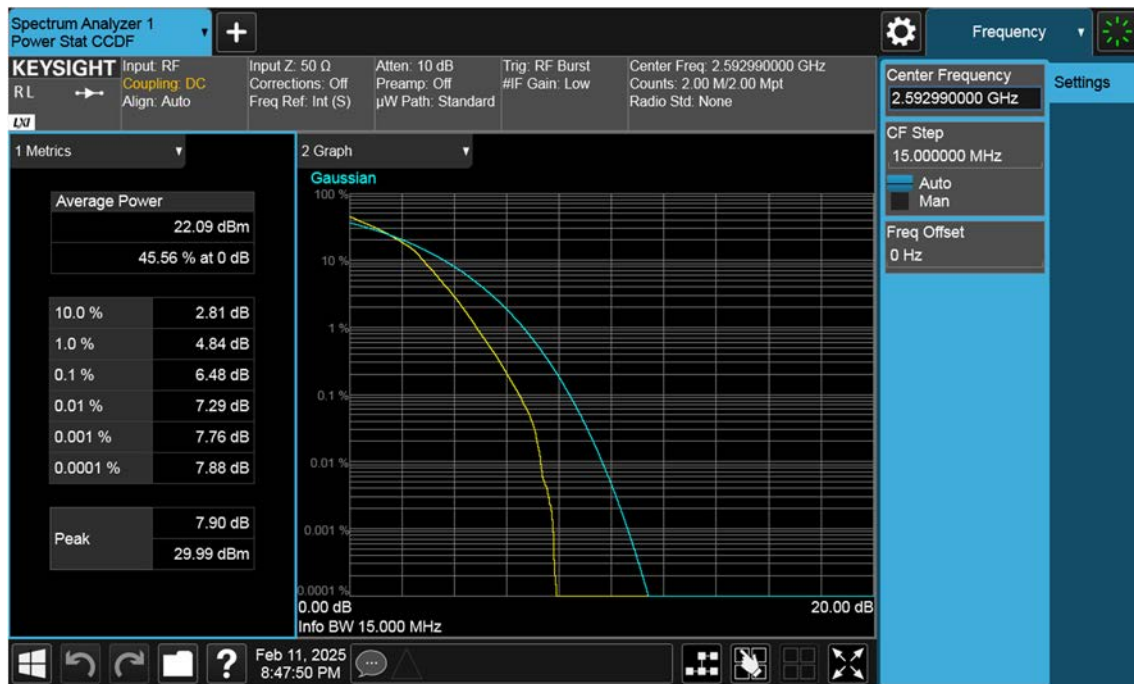
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NR41_15 M_PAR_Mid_QPSK_FullRB



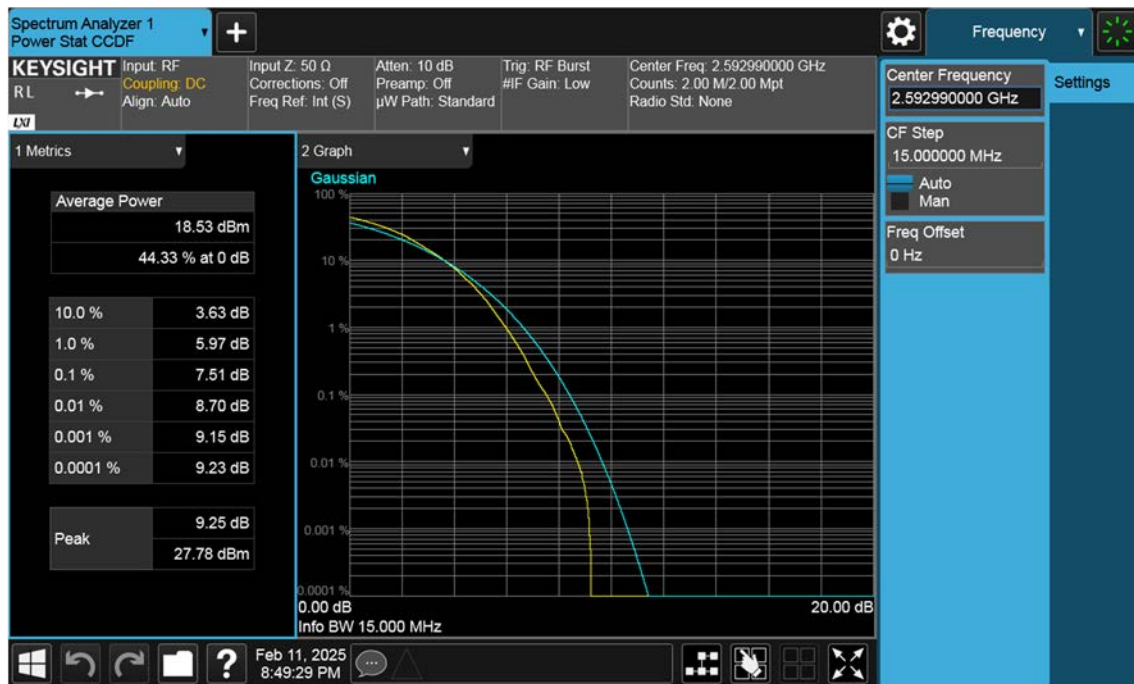
NR41_15 M_PAR_Mid_16QAM_FullRB



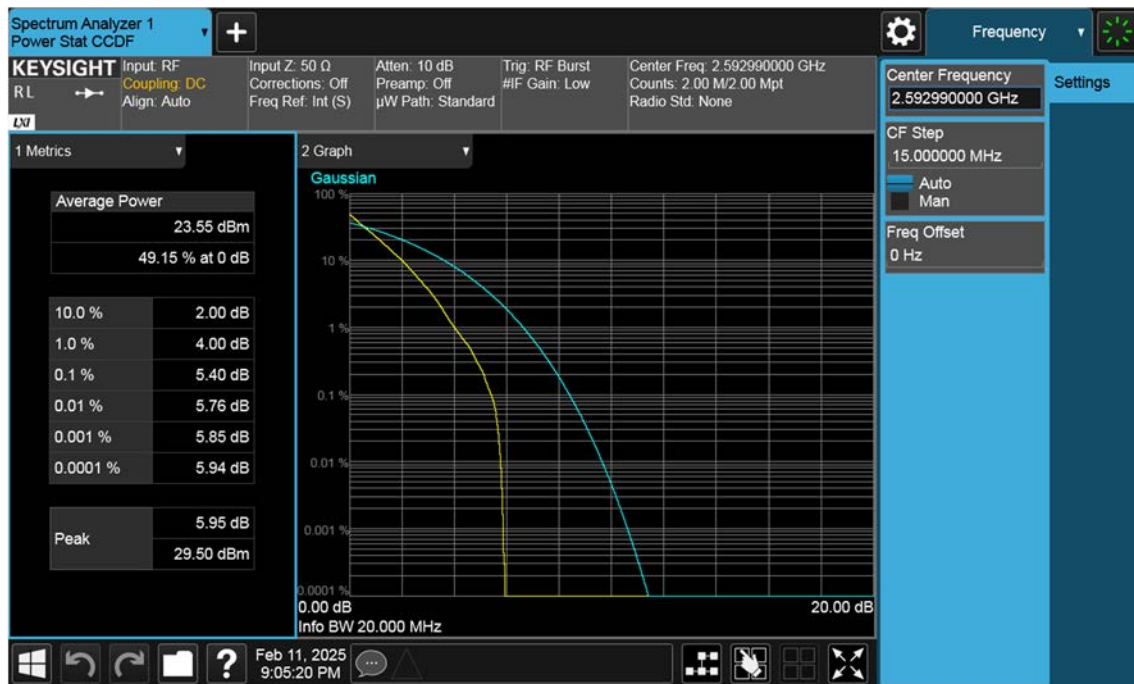
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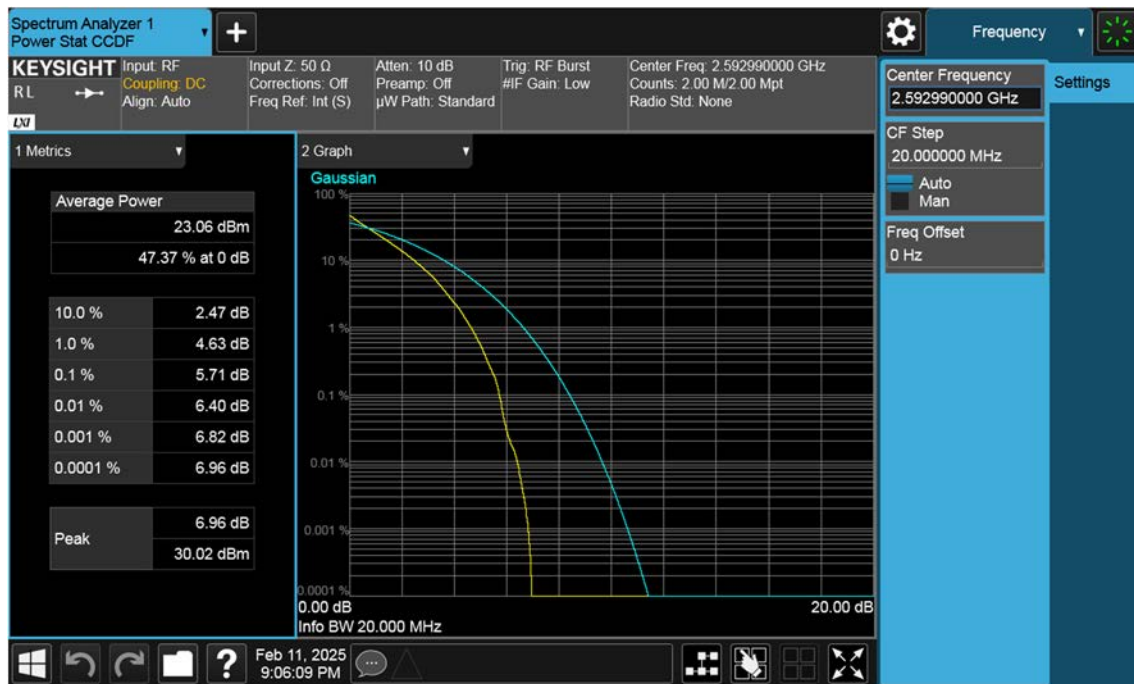
NR41_15 M_PAR_Mid_256QAM_FullRB



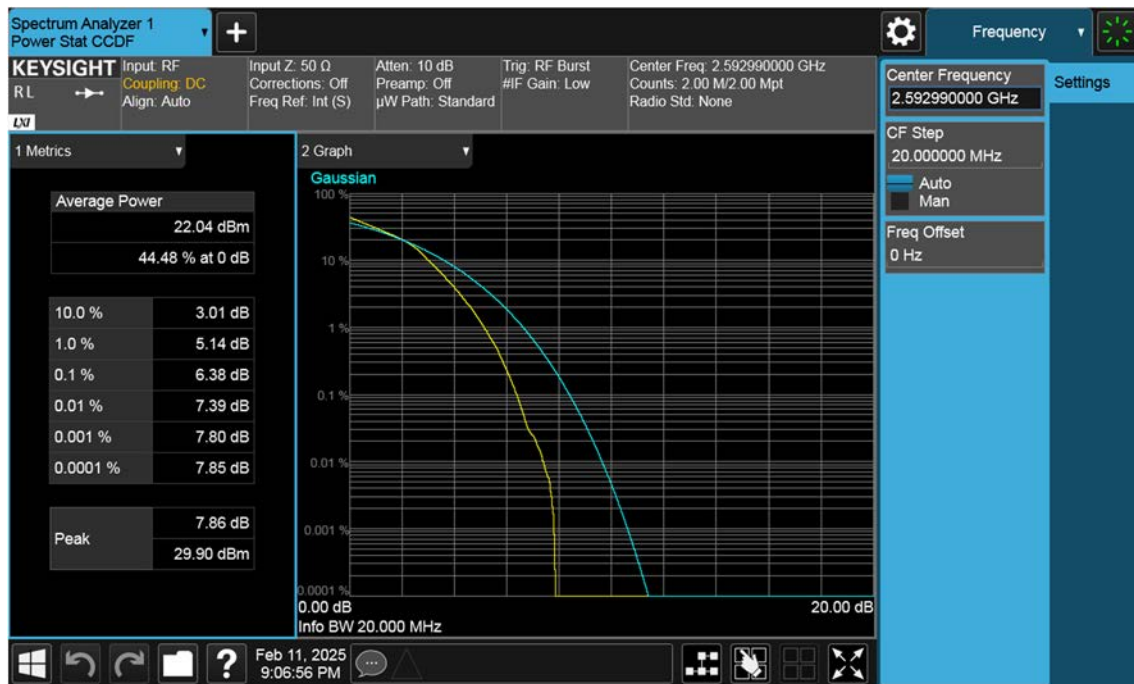
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NR41_20 M_PAR_Mid_QPSK_FullRB



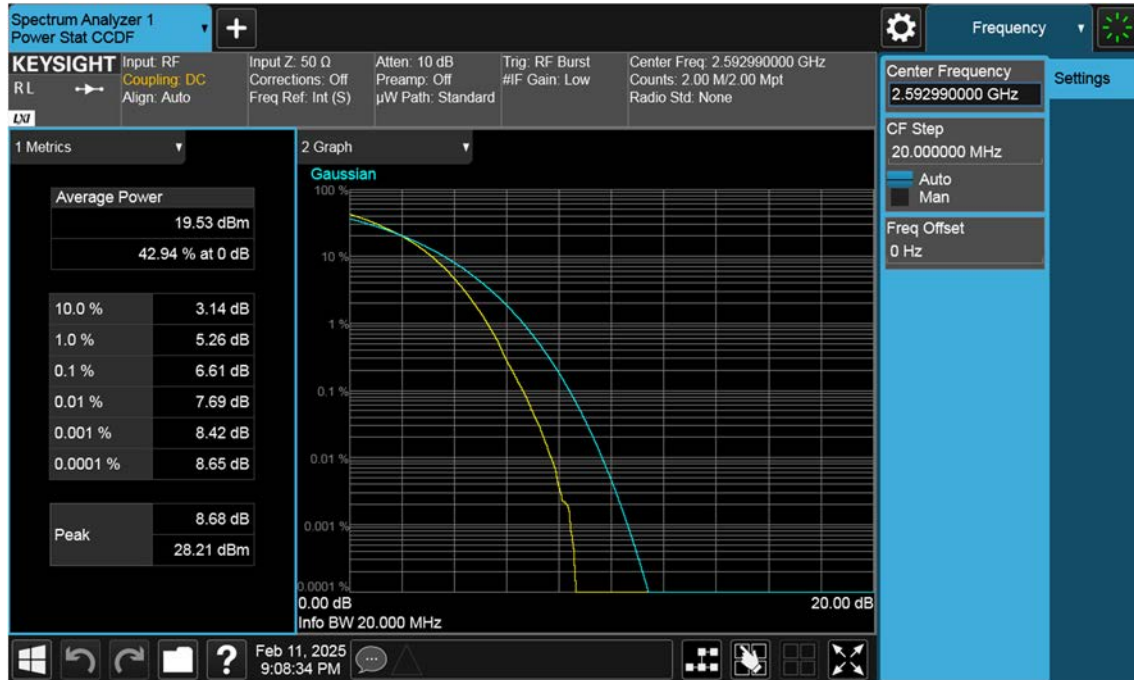
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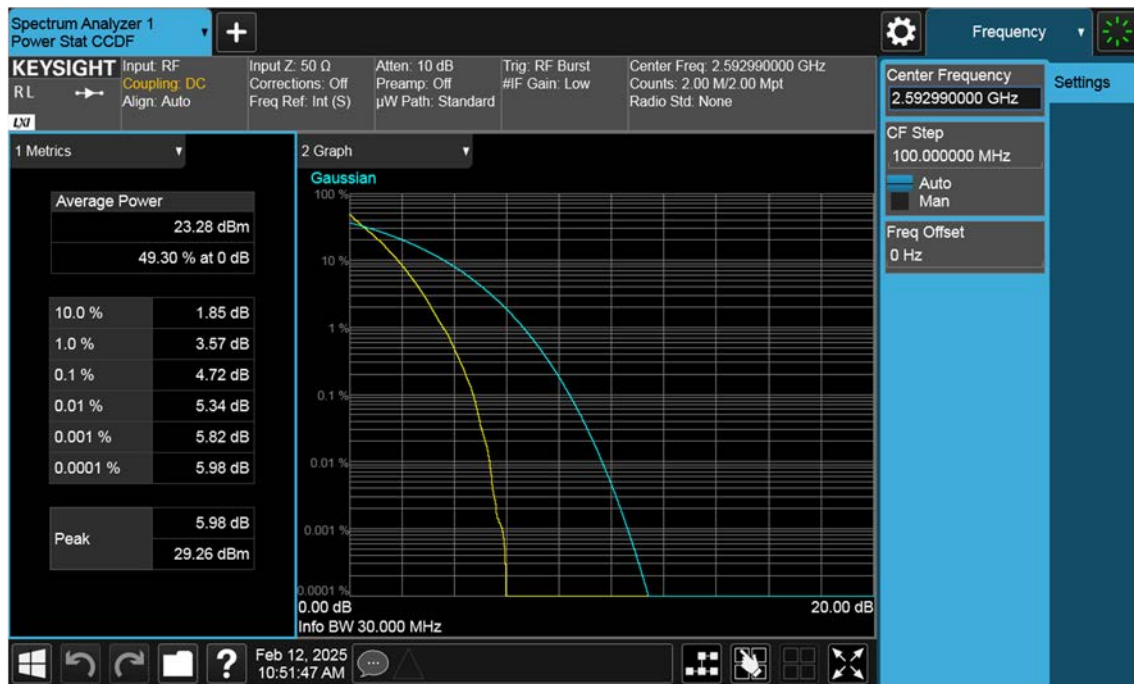
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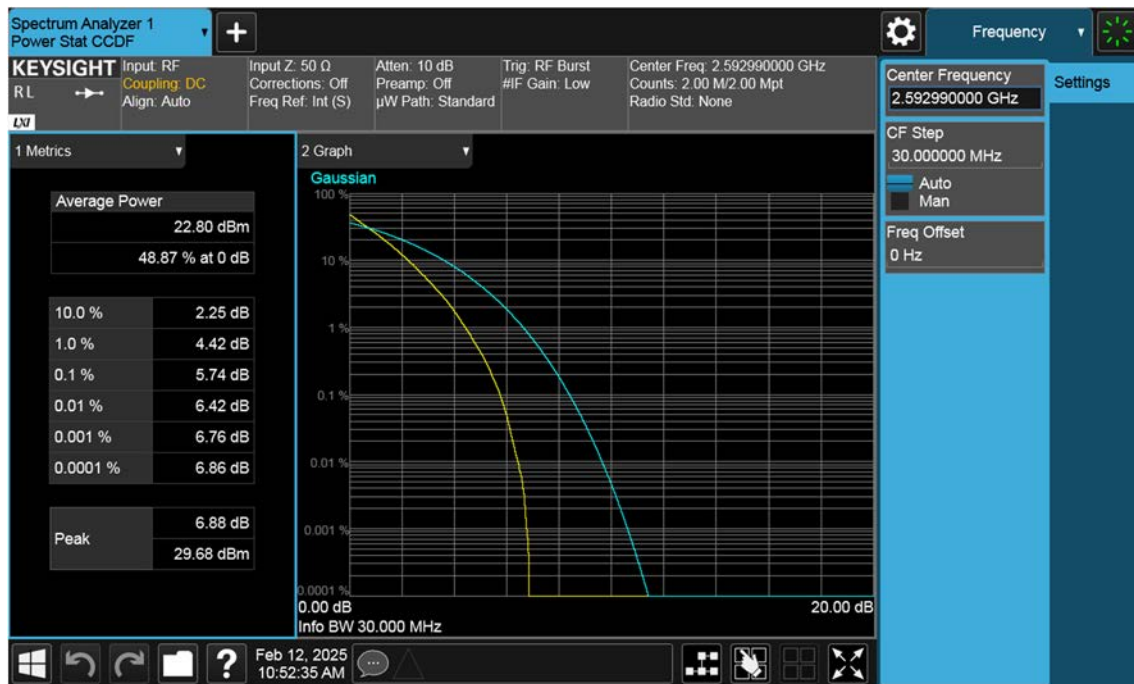
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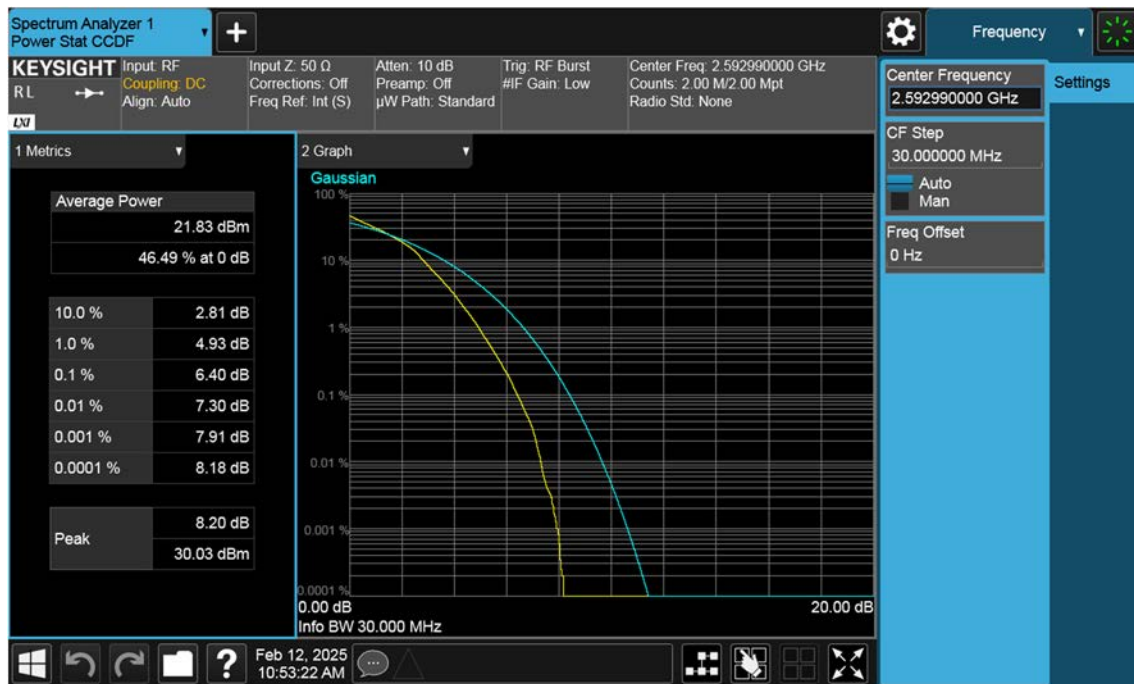
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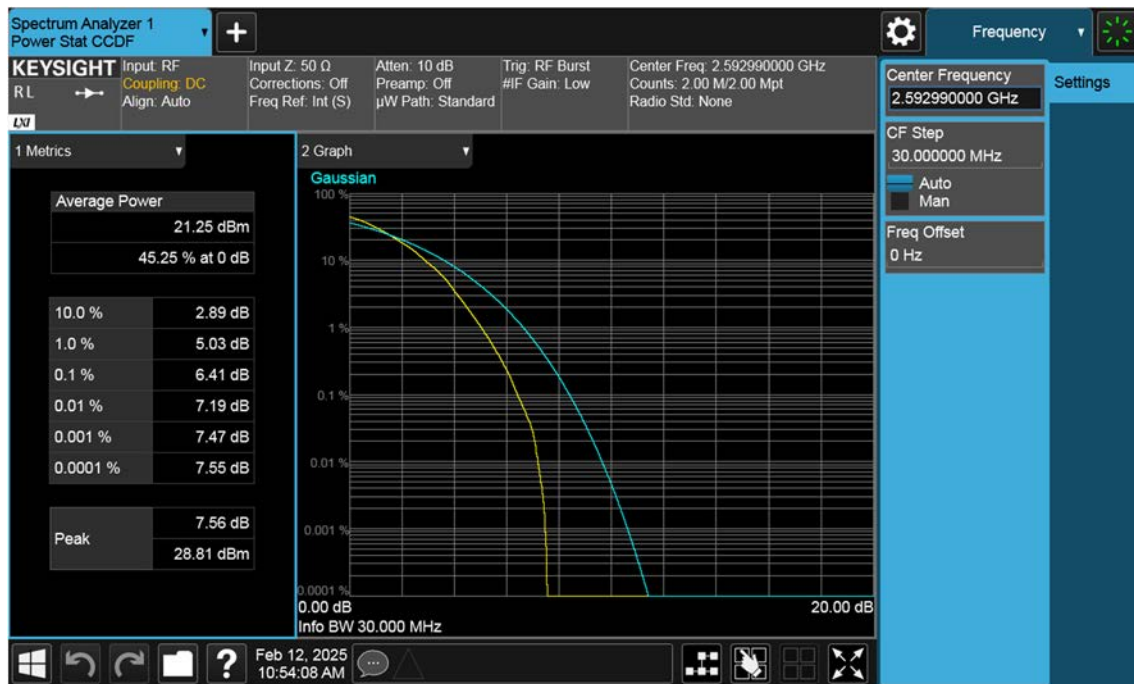
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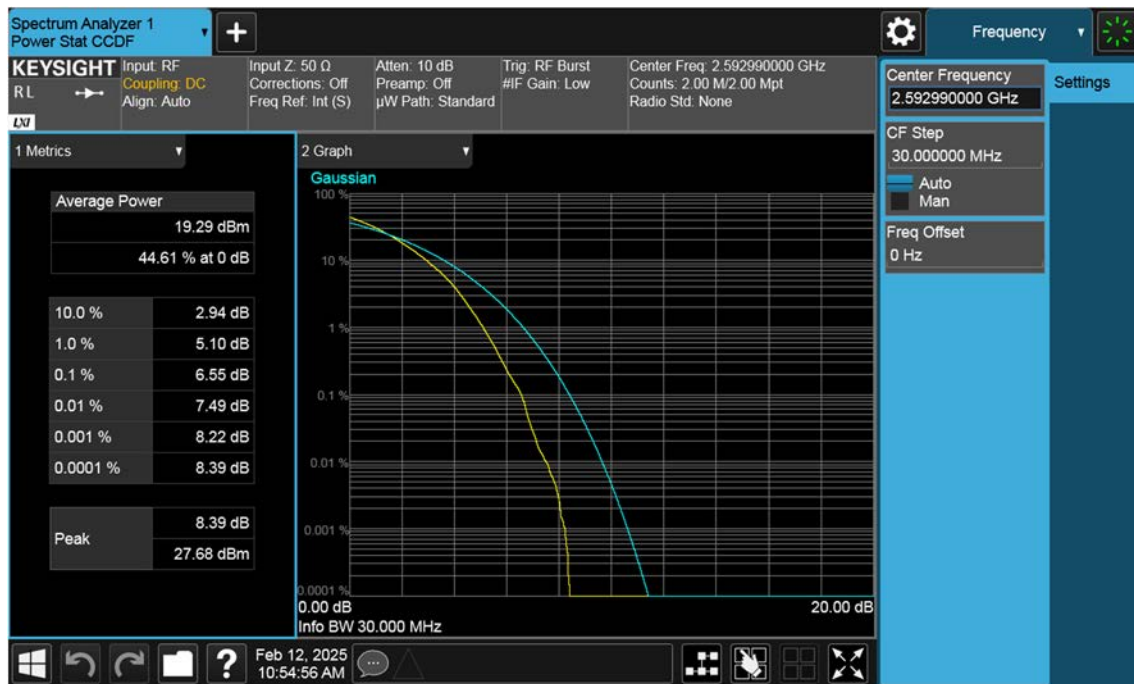
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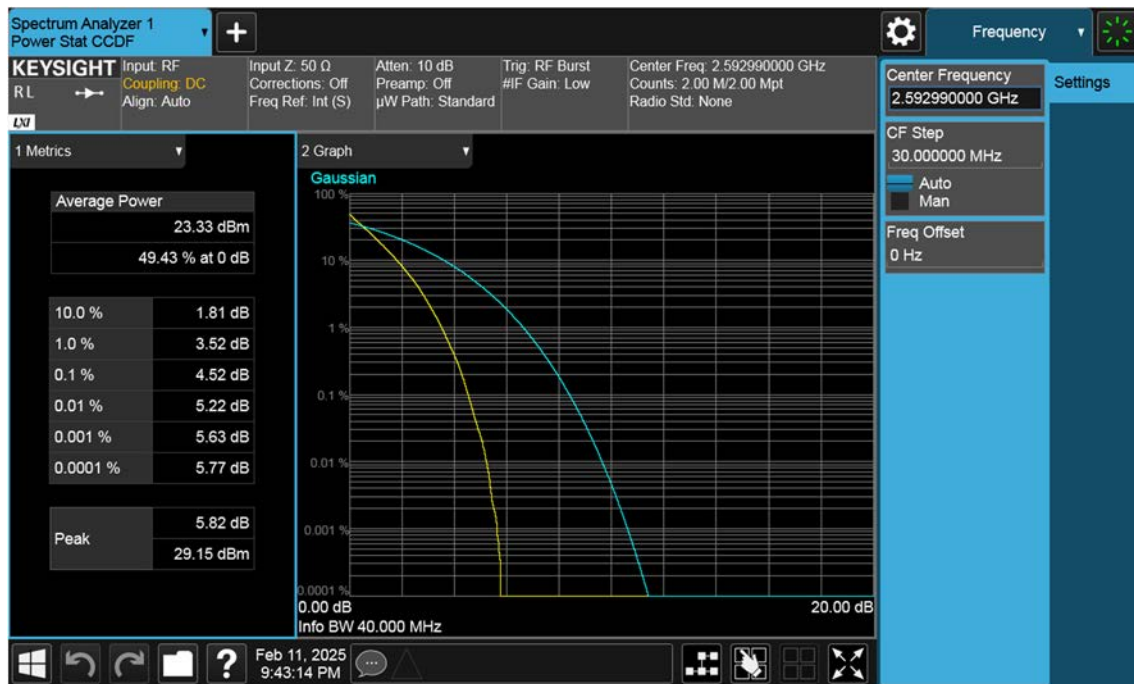
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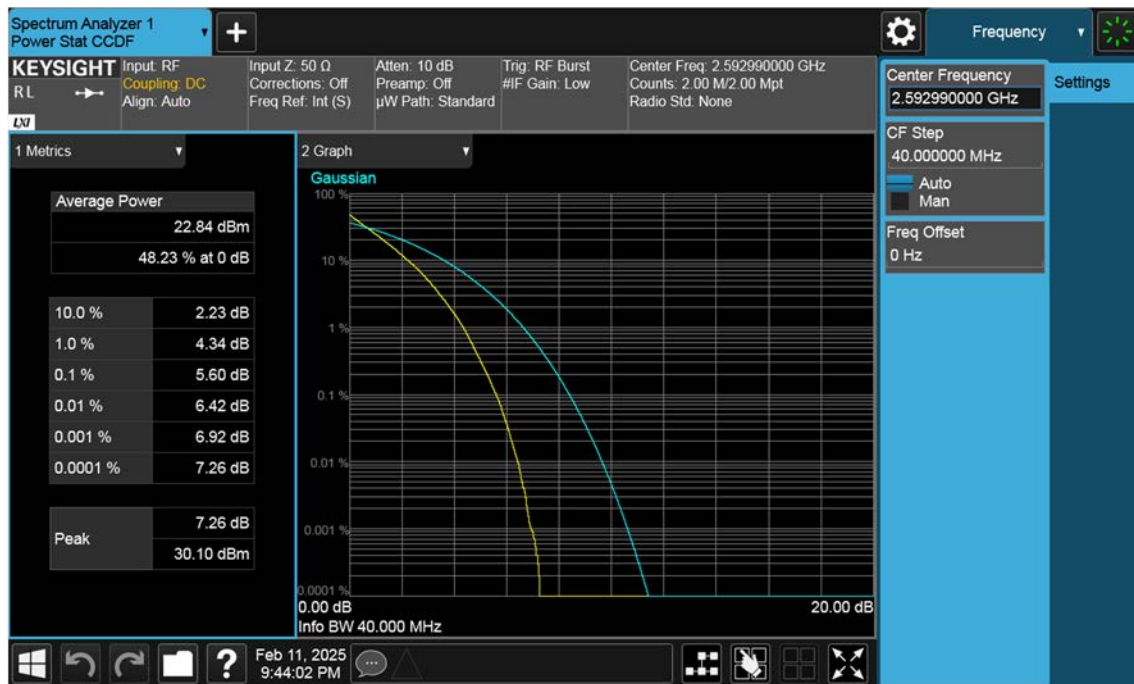
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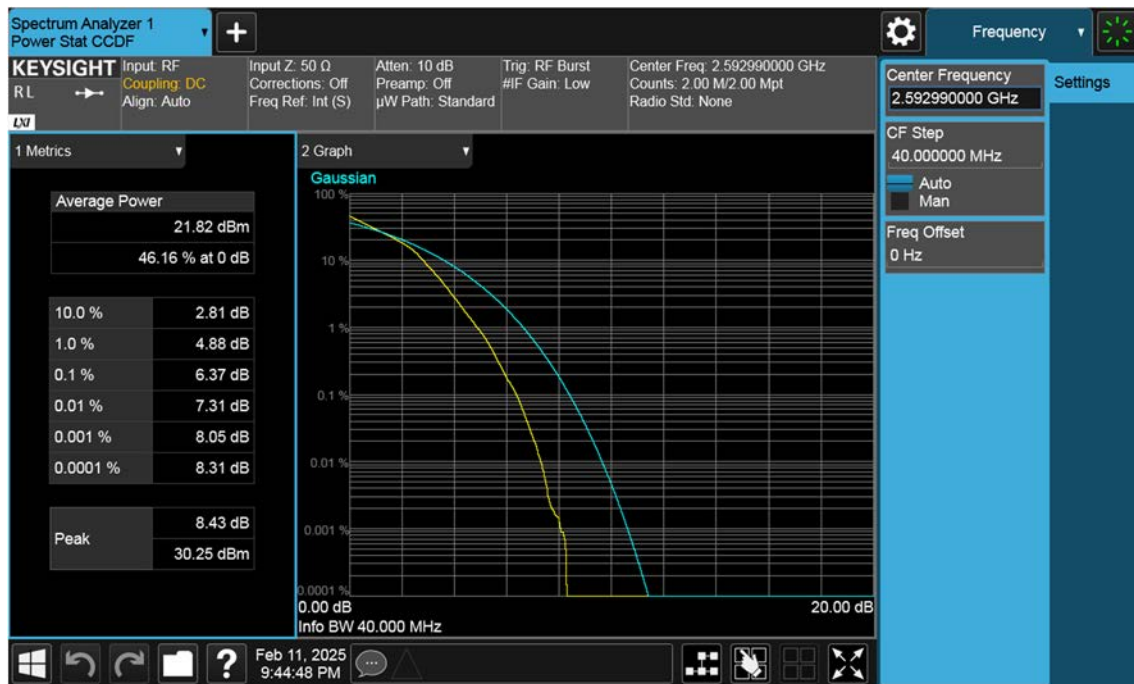
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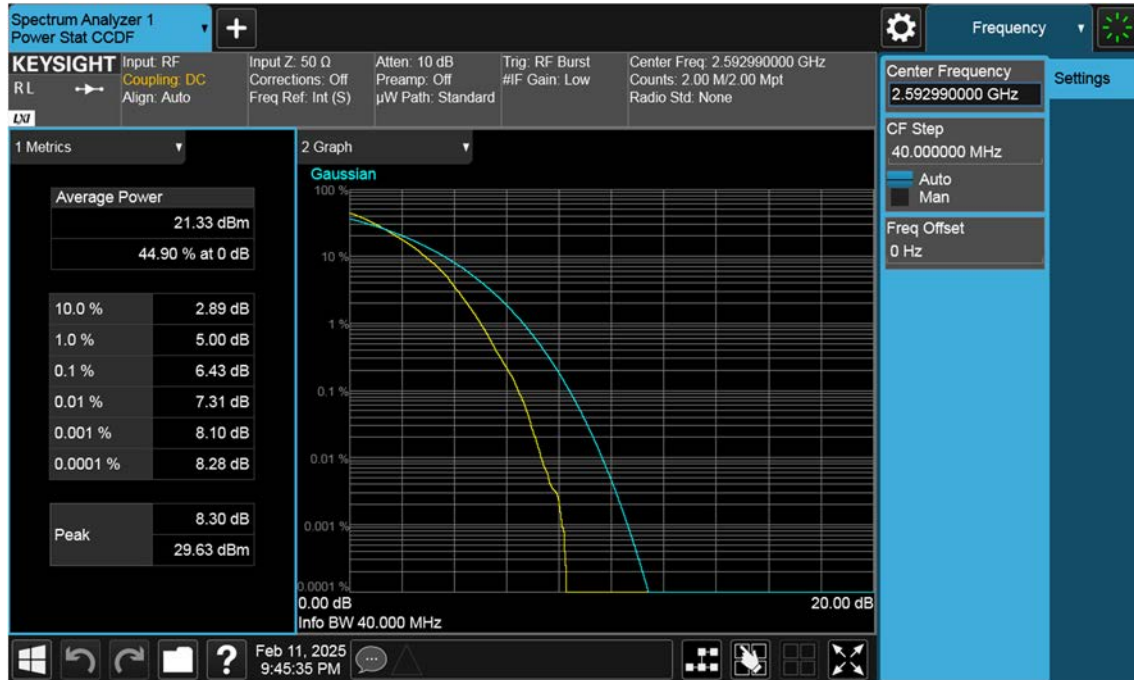
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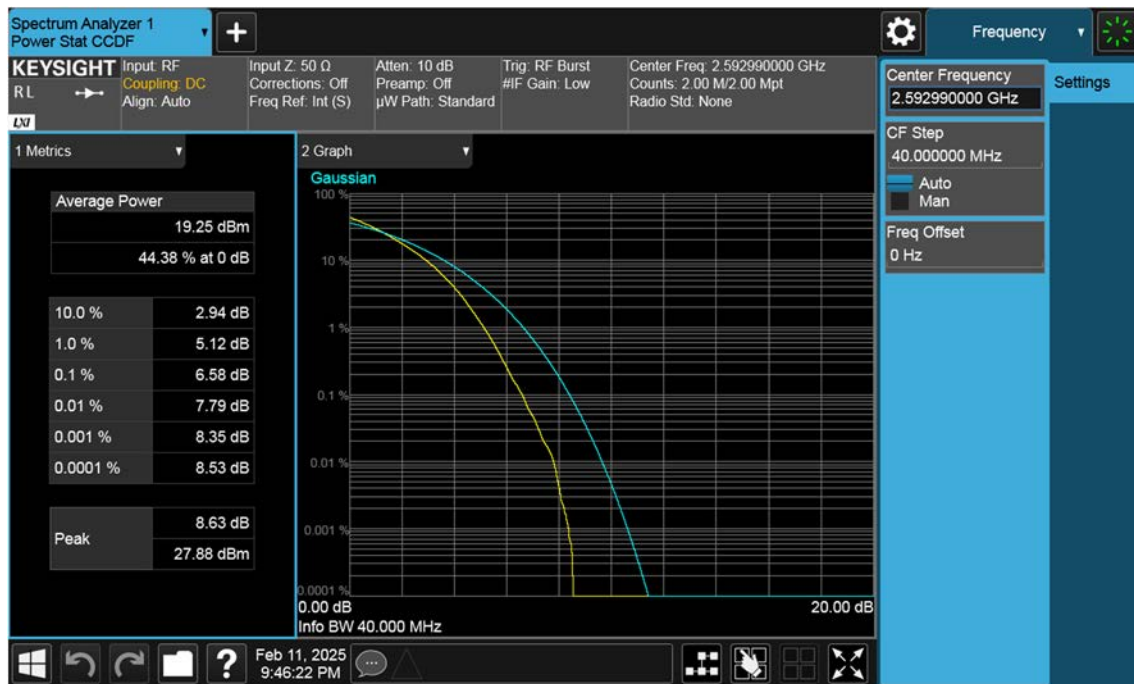
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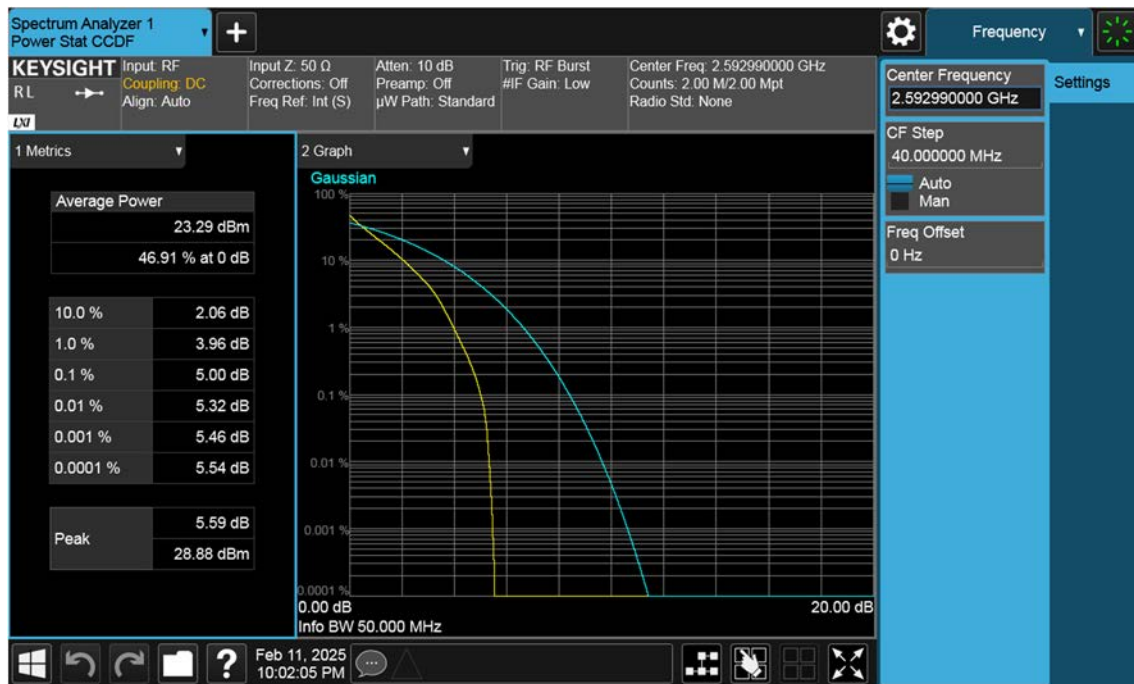
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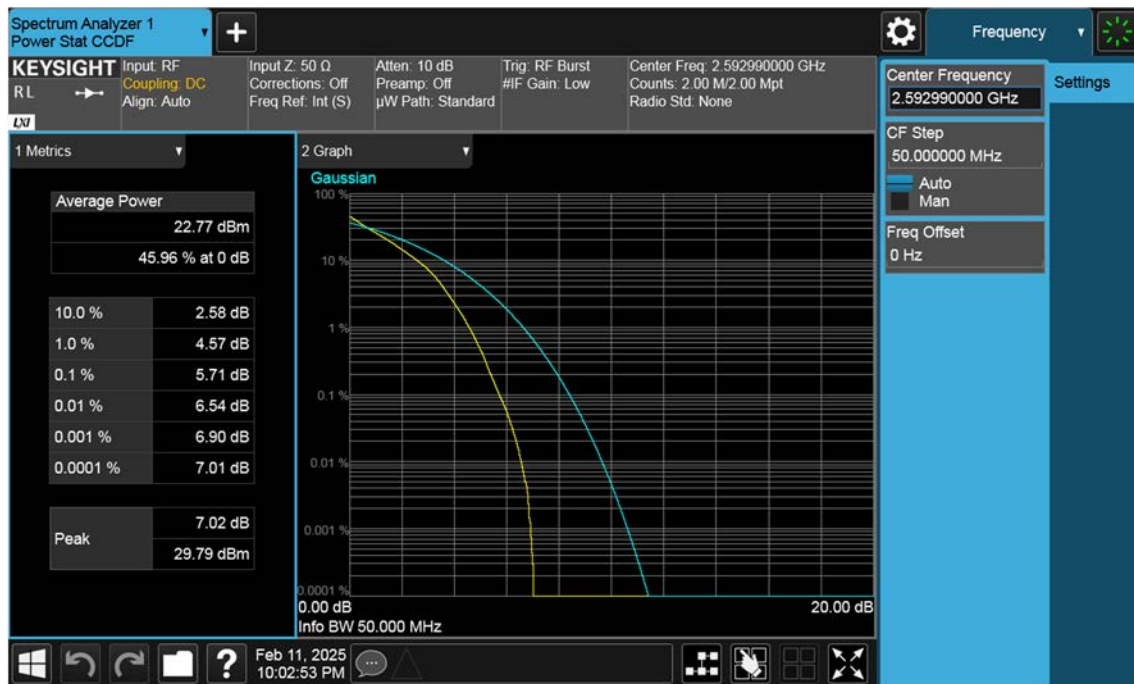
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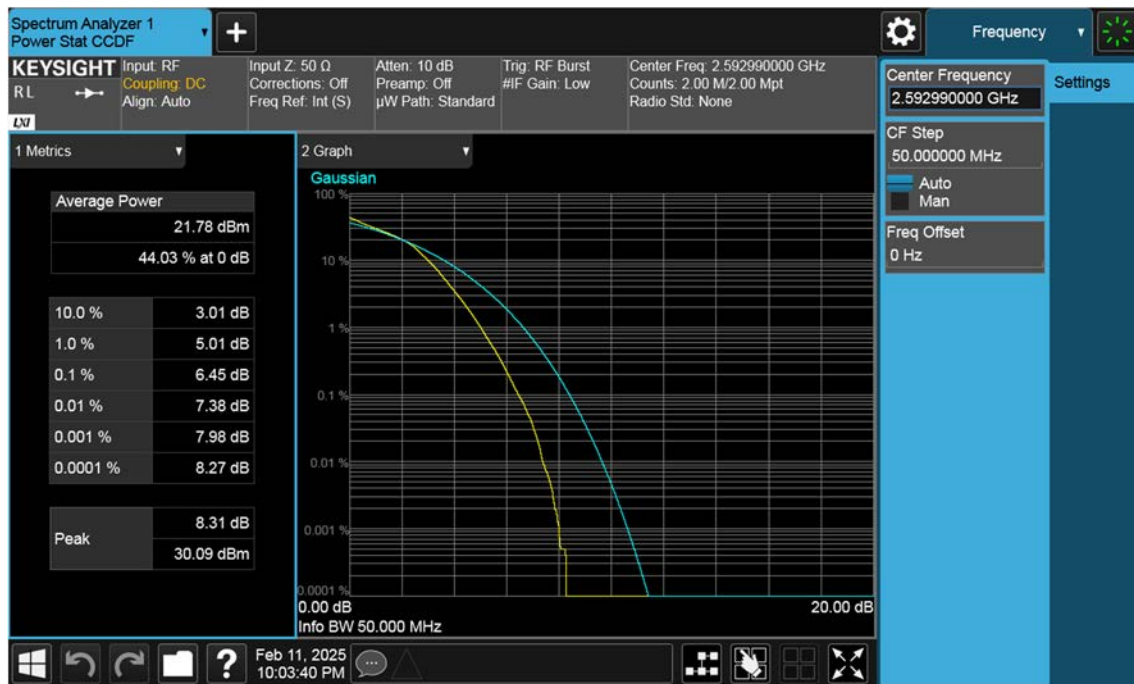
NR41_50 M_PAR_Mid_BPSK_FullRB



NR41_50 M_PAR_Mid_QPSK_FullRB



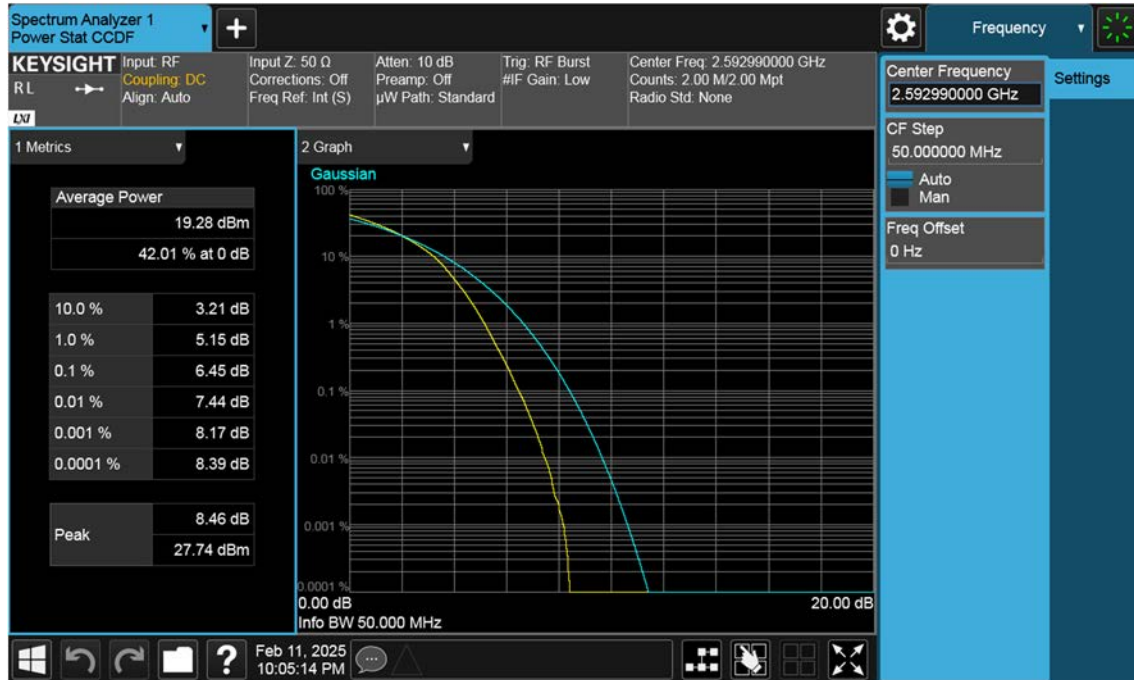
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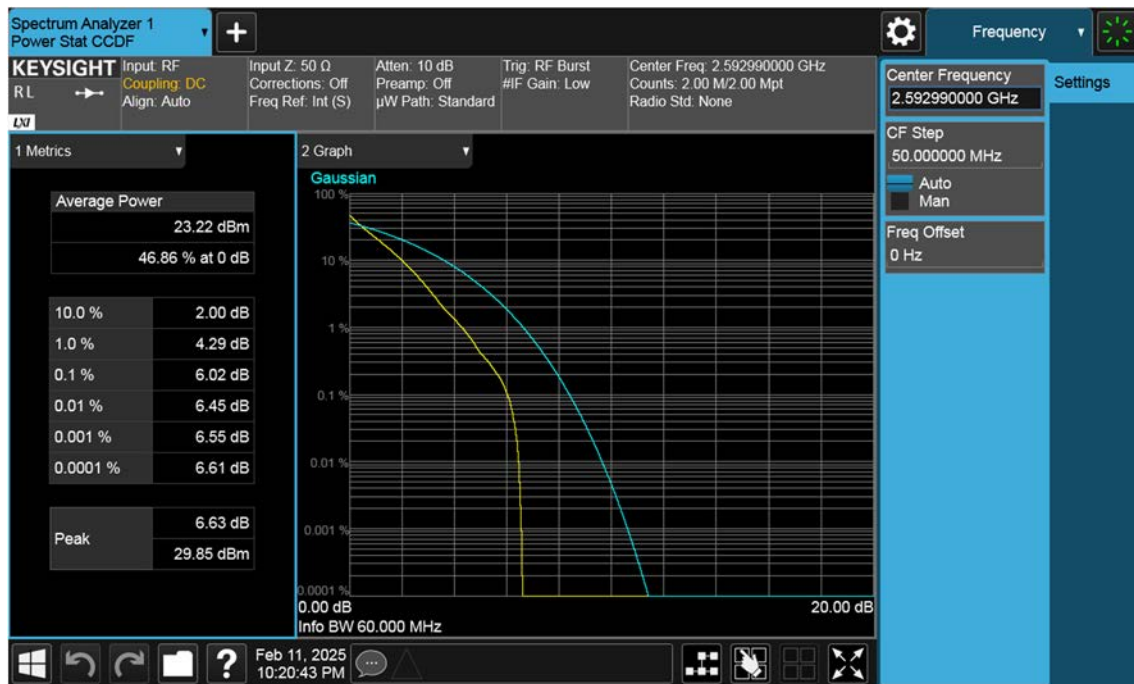
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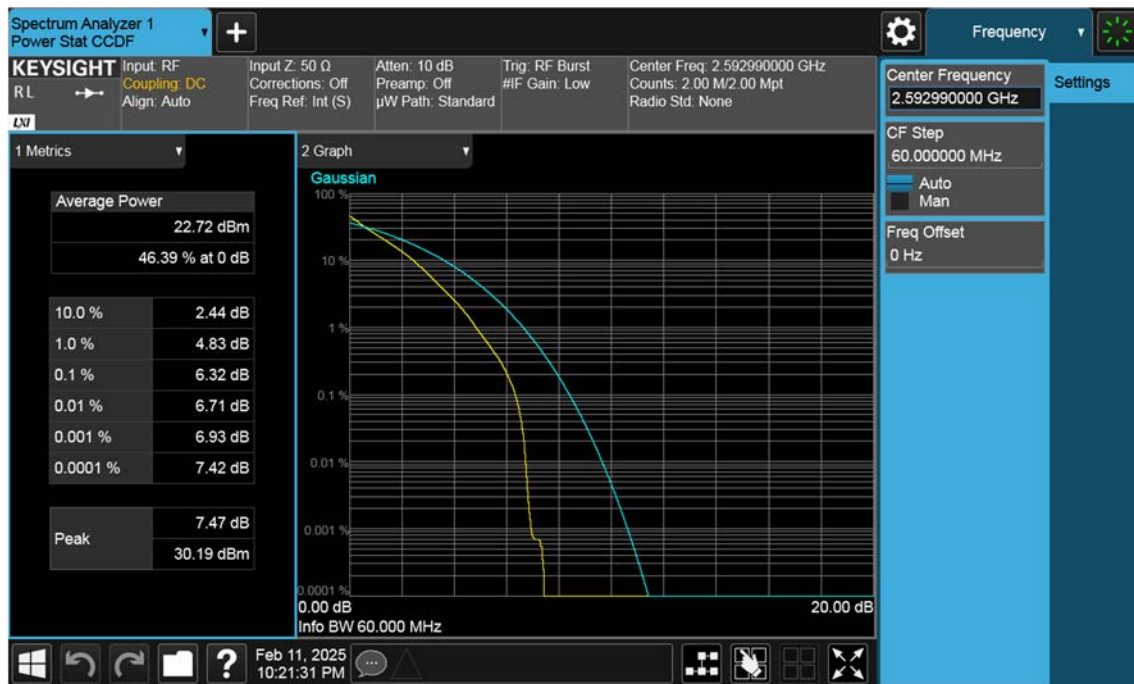
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NR41_60 M_PAR_Mid_BPSK_FullRB



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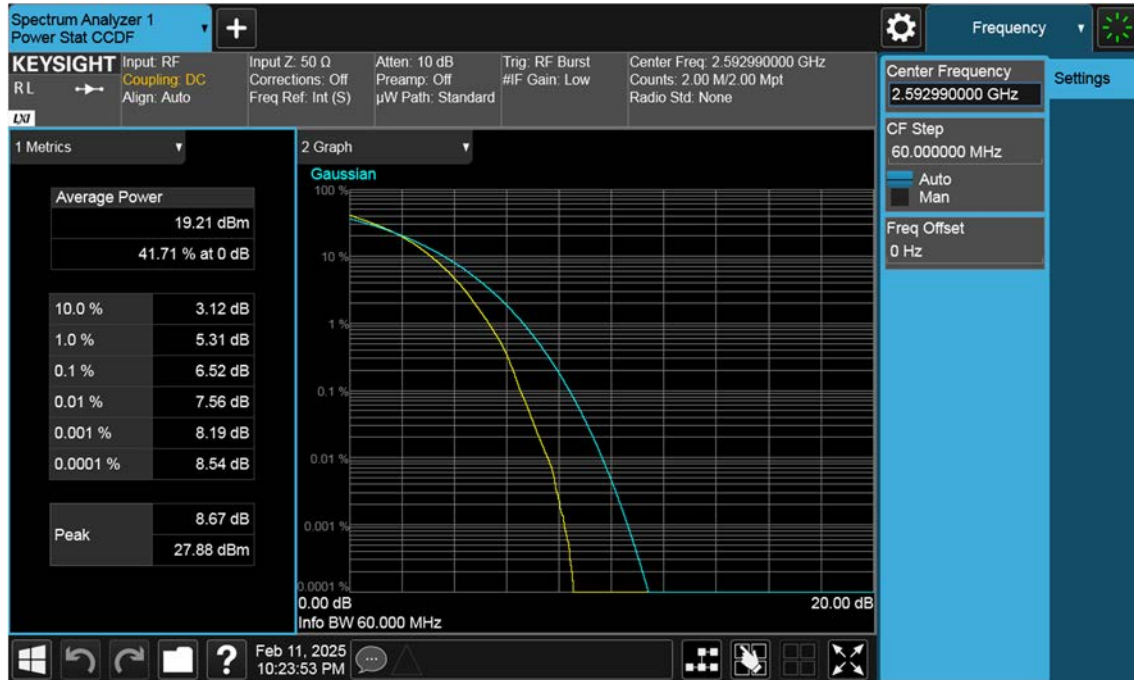
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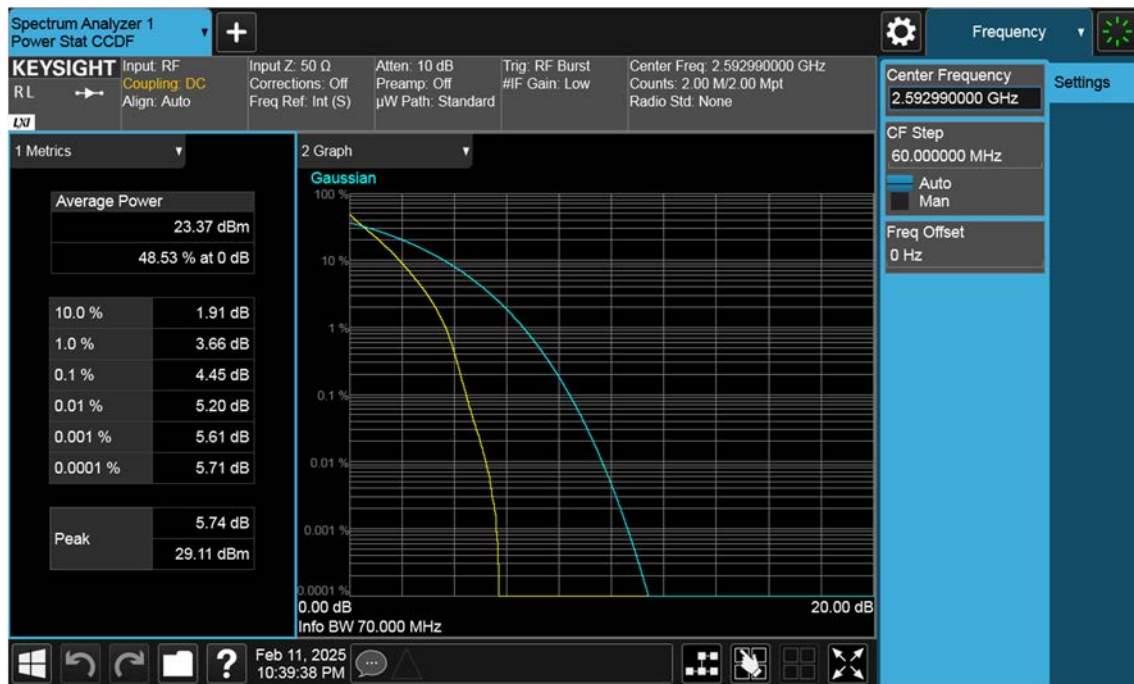
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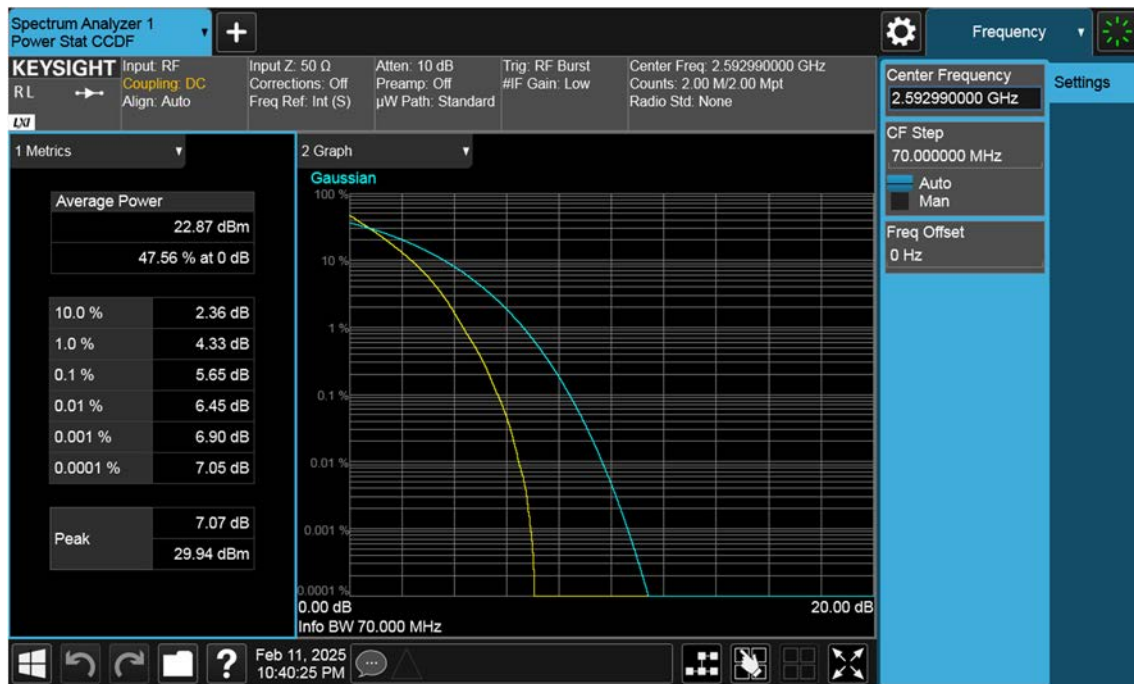
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NR41_70 M_PAR_Mid_BPSK_FullRB



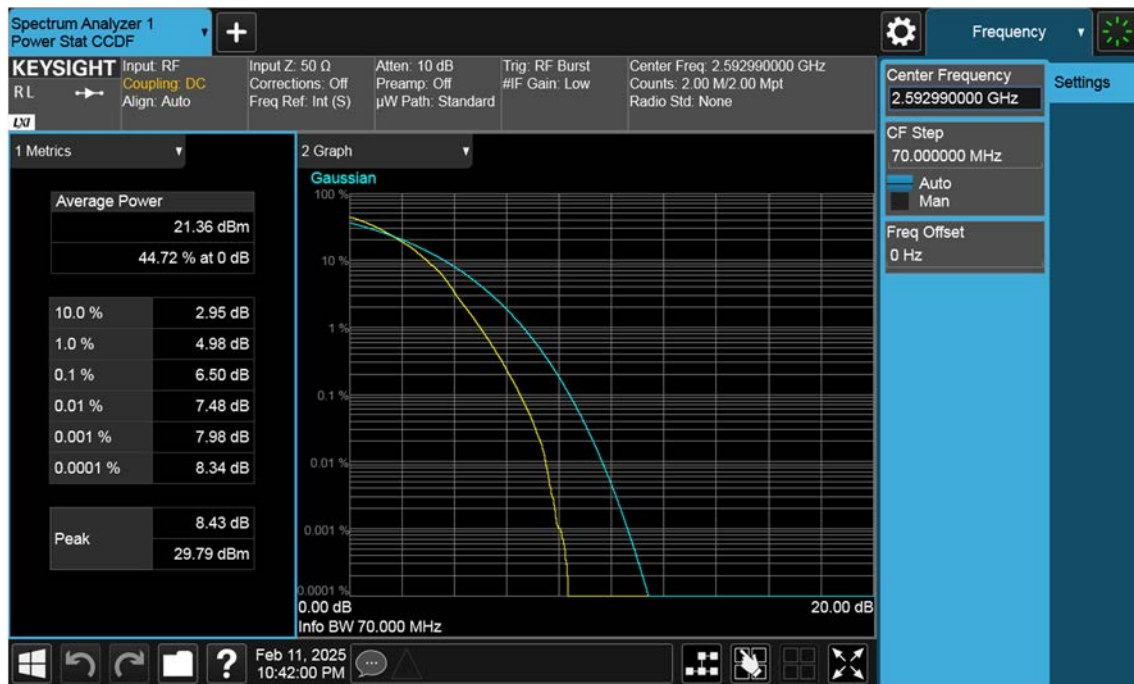
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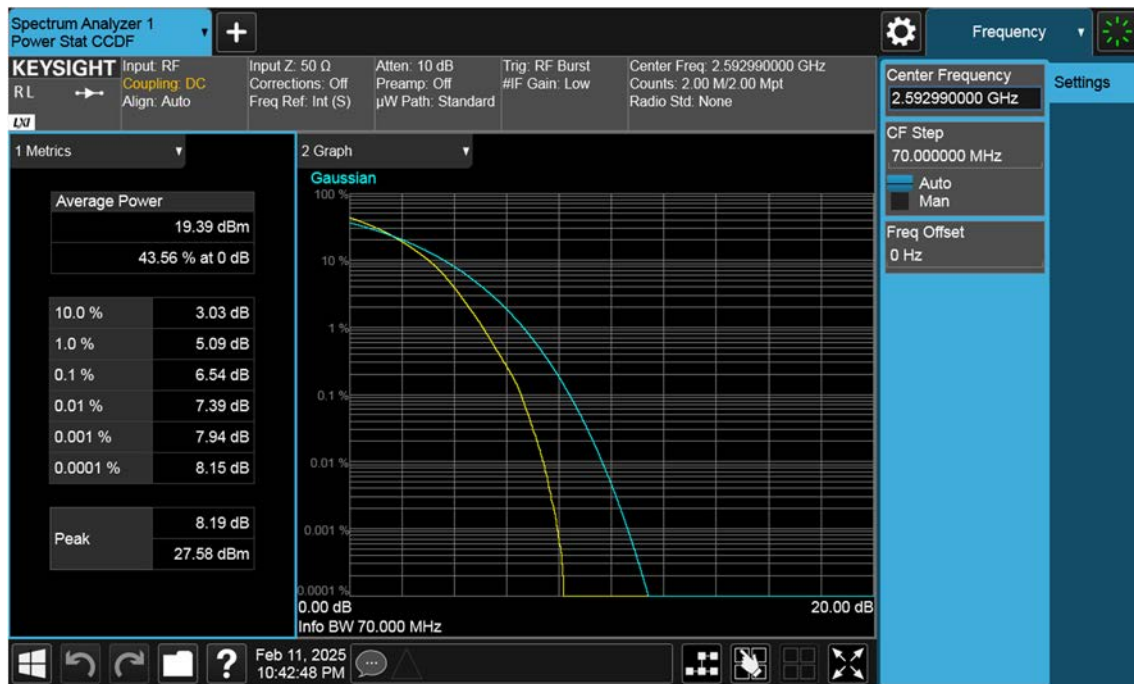
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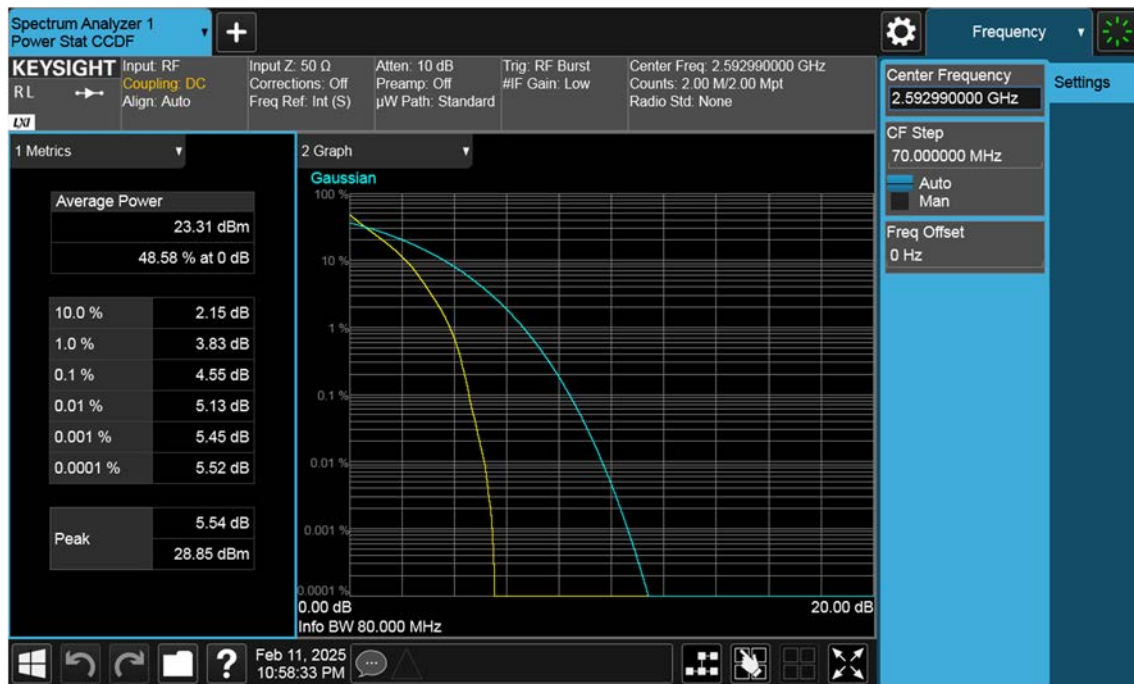
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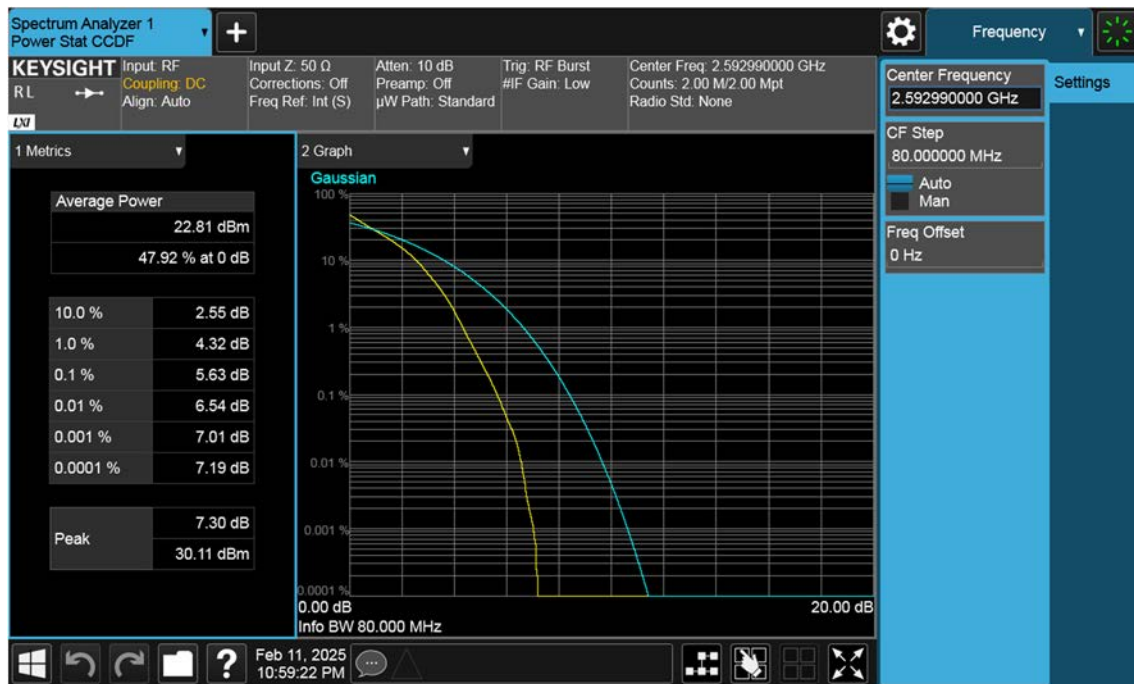
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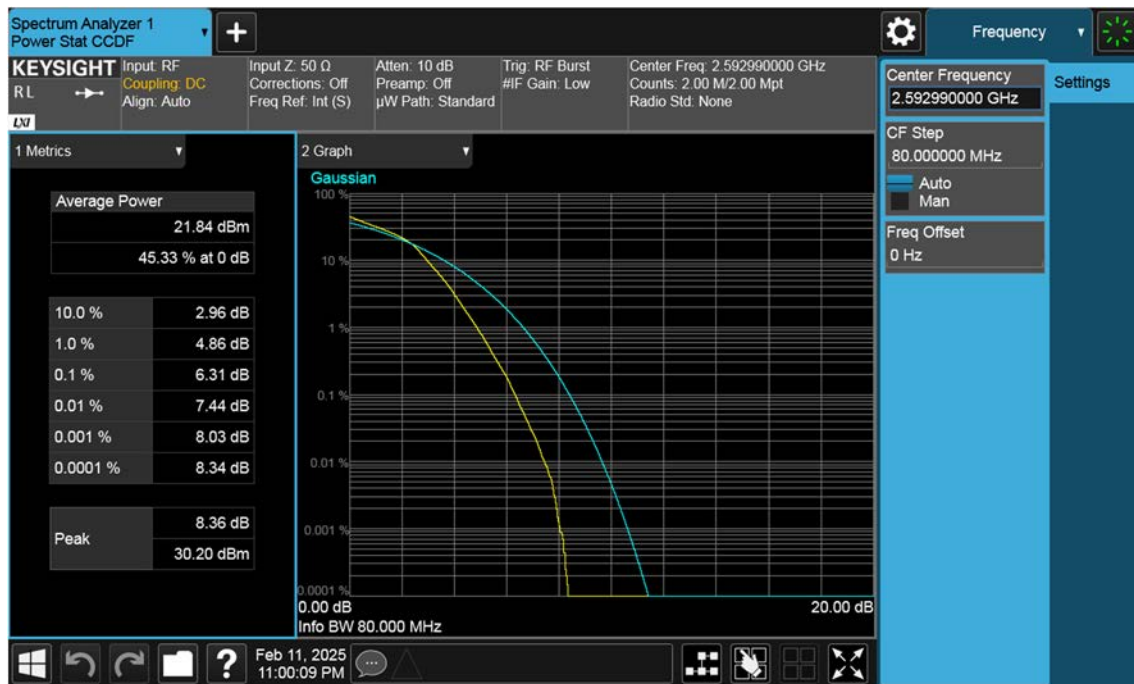
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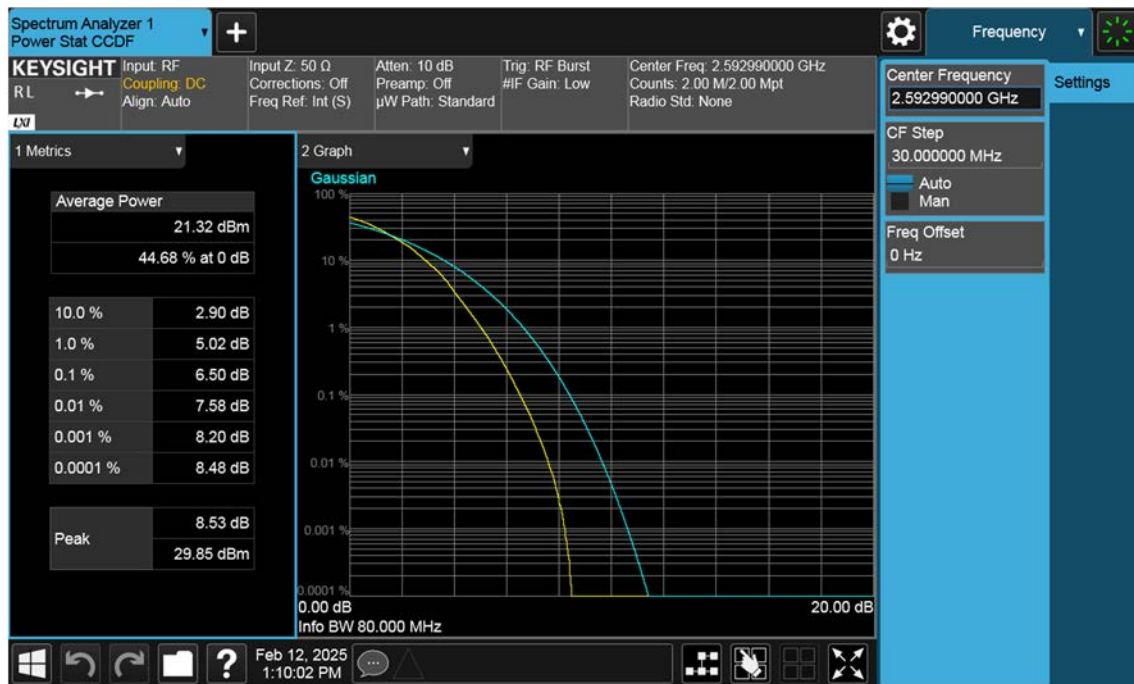
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NR41_80 M_PAR_Mid_16QAM_FullRB



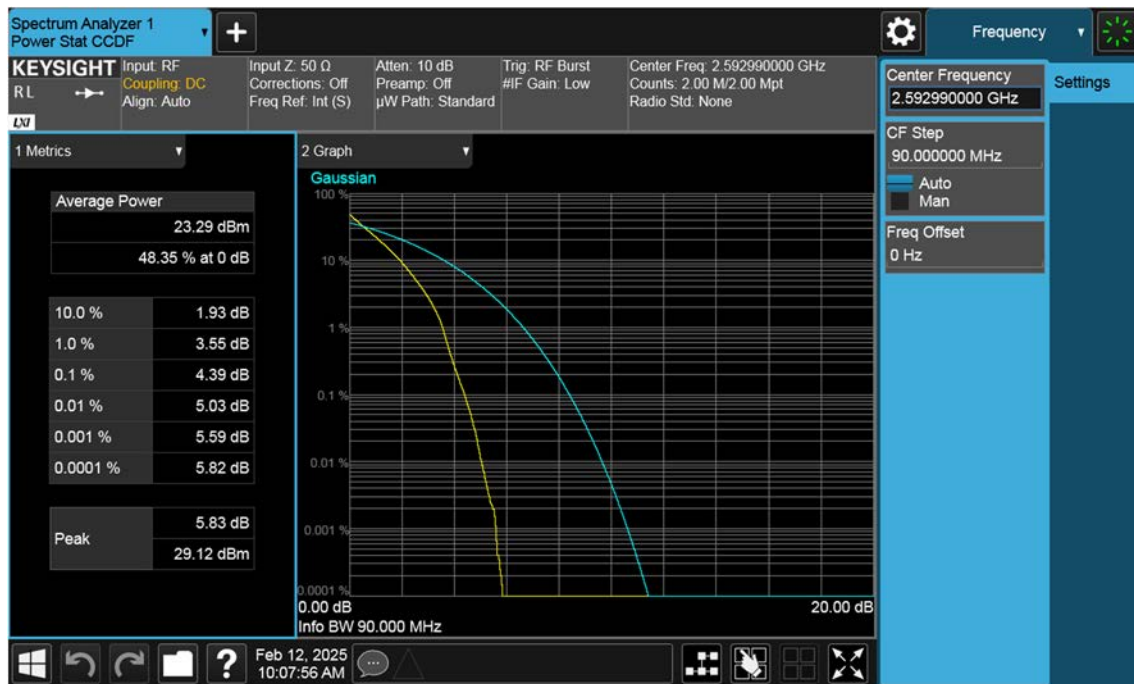
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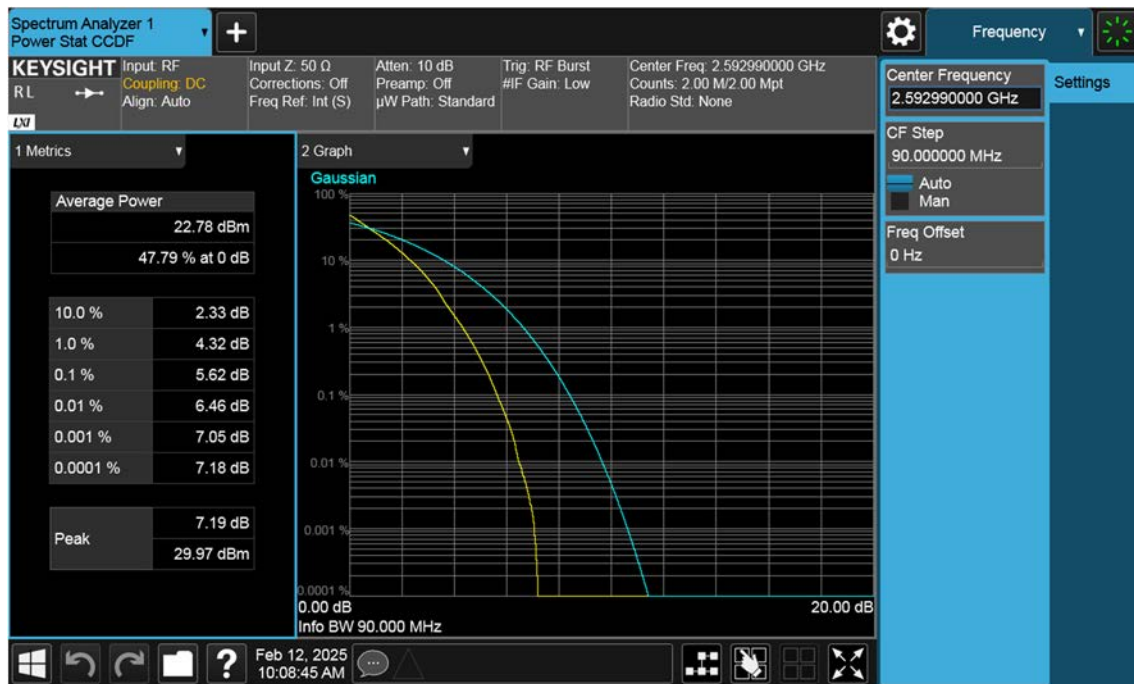
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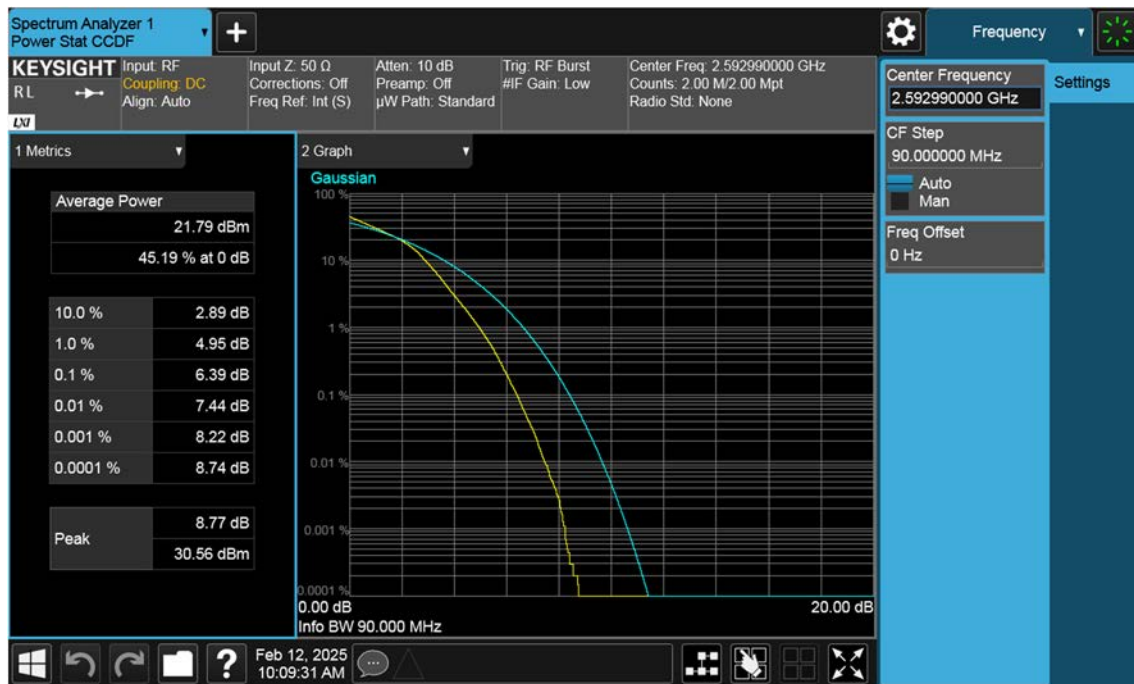
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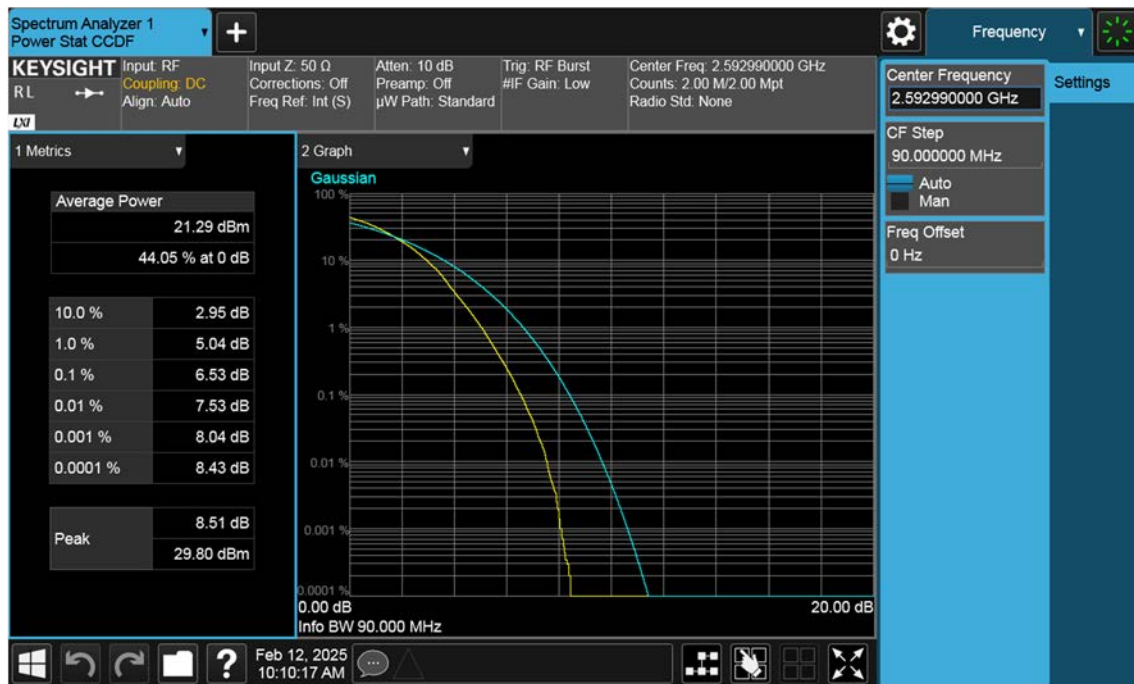
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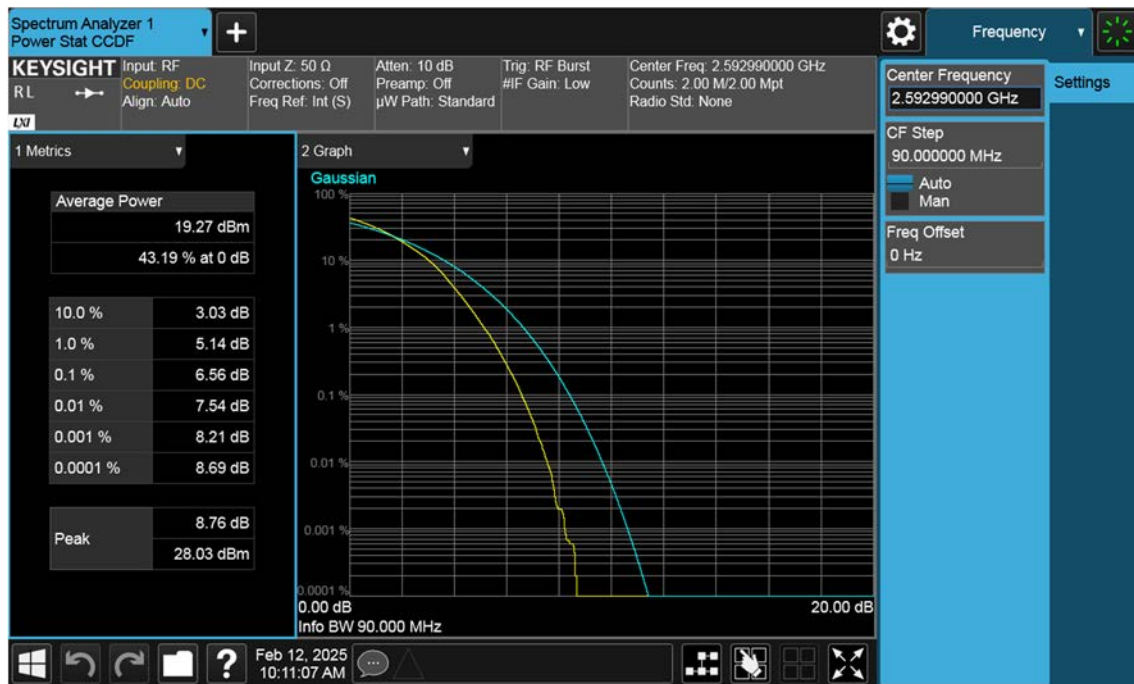
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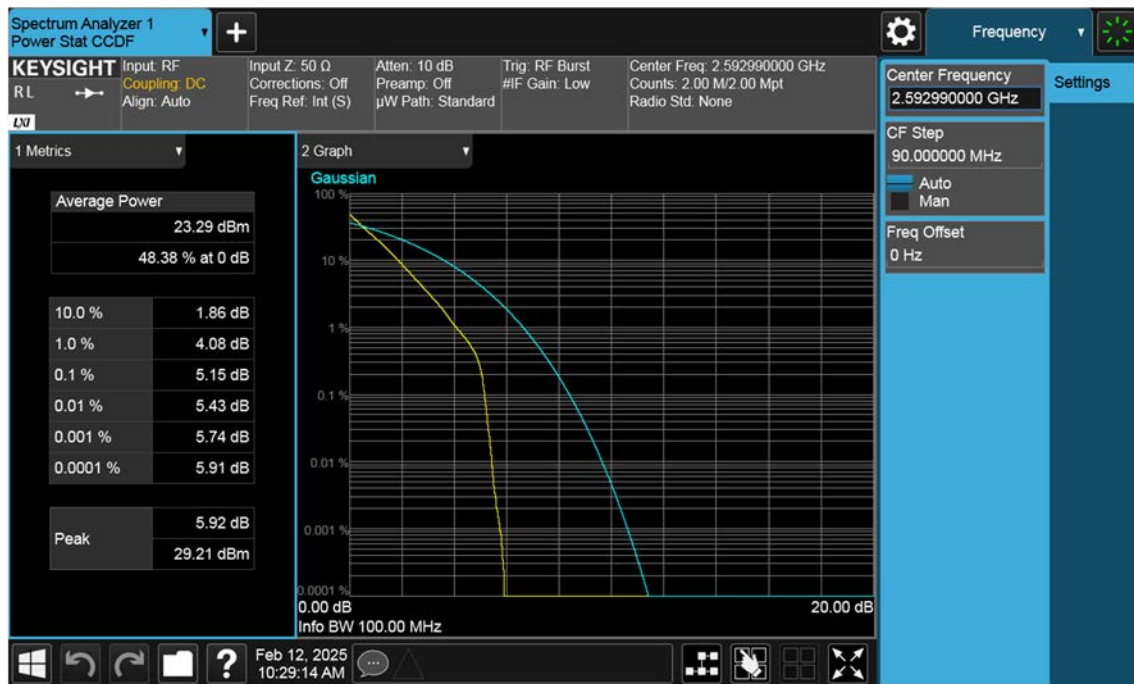
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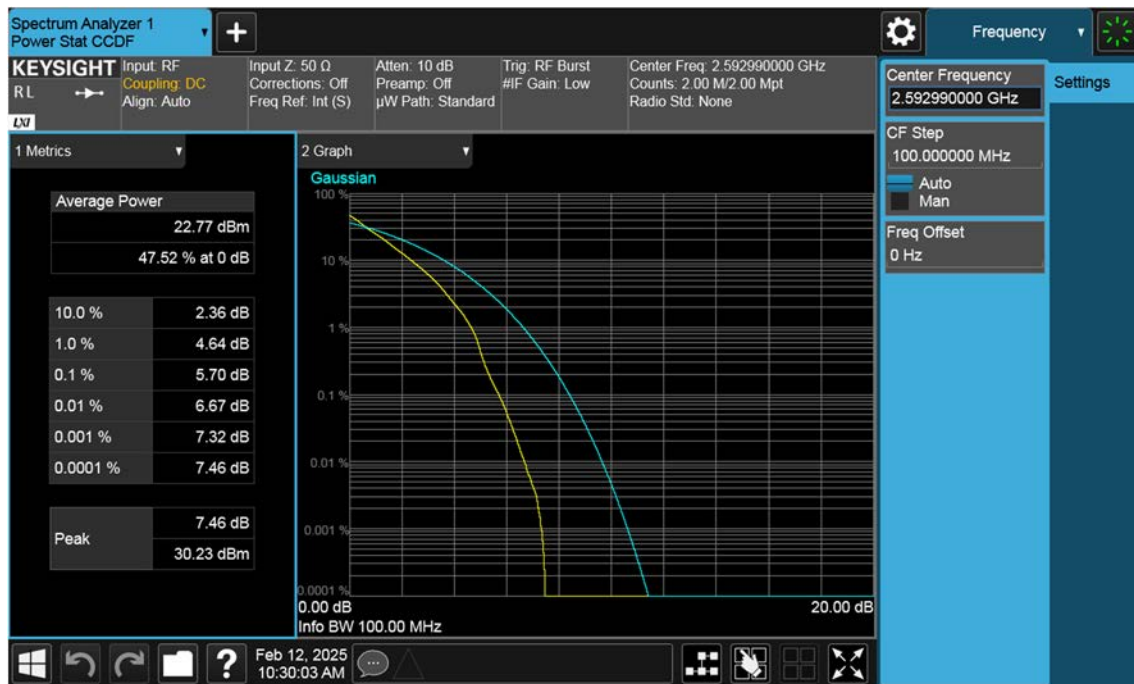
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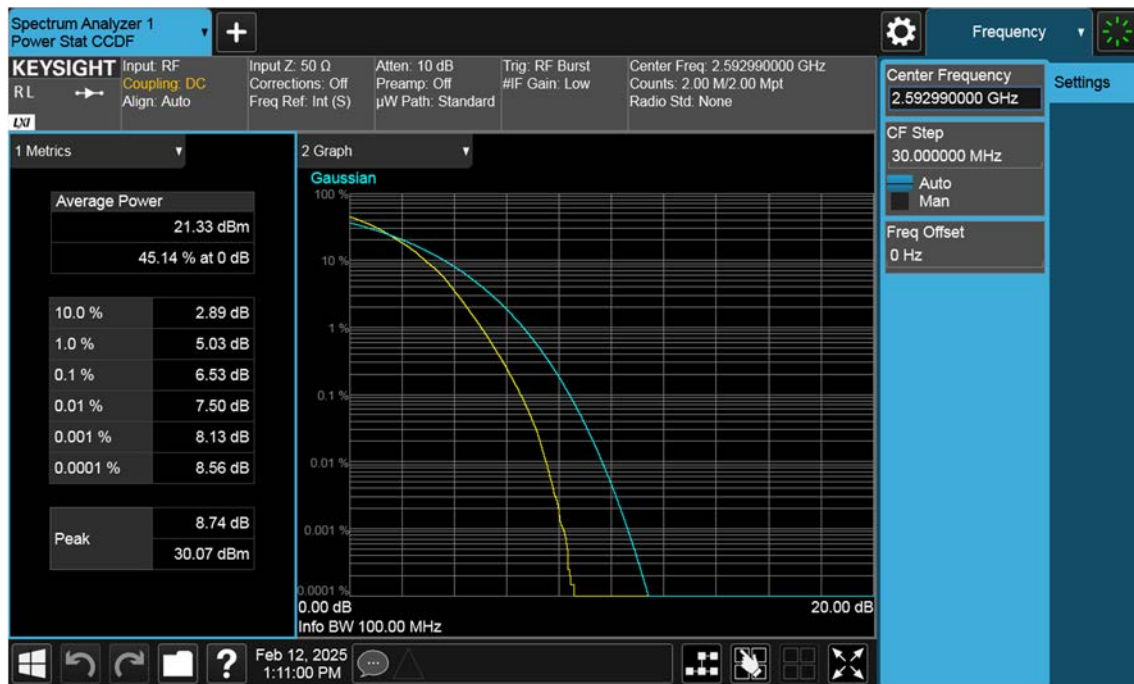
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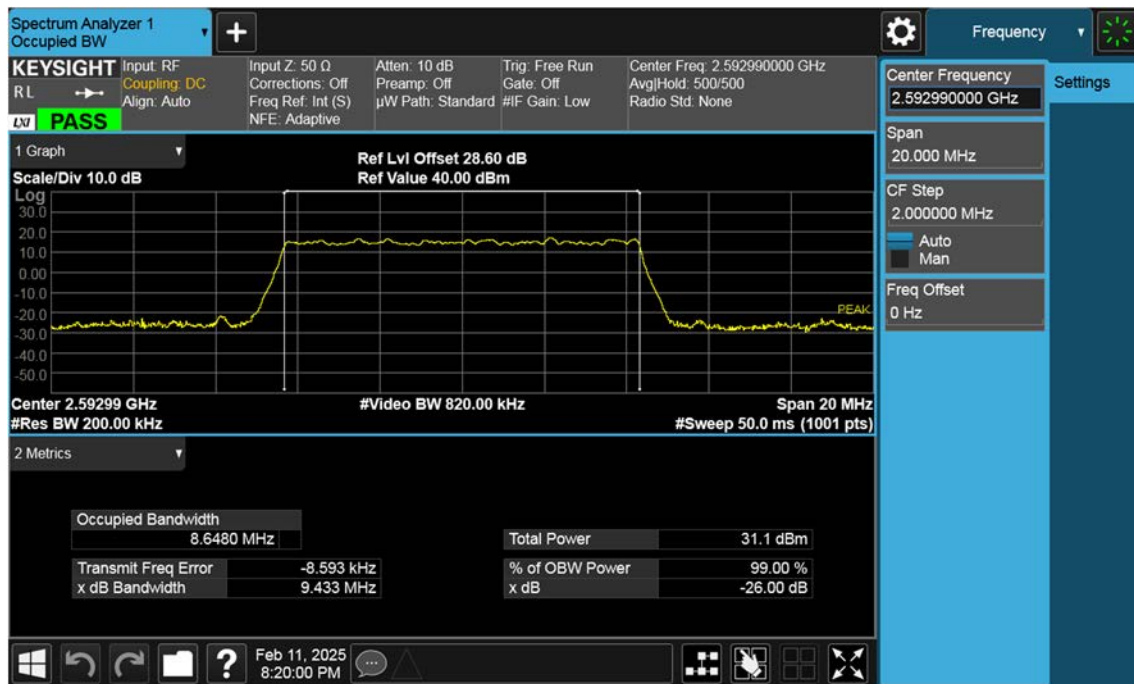
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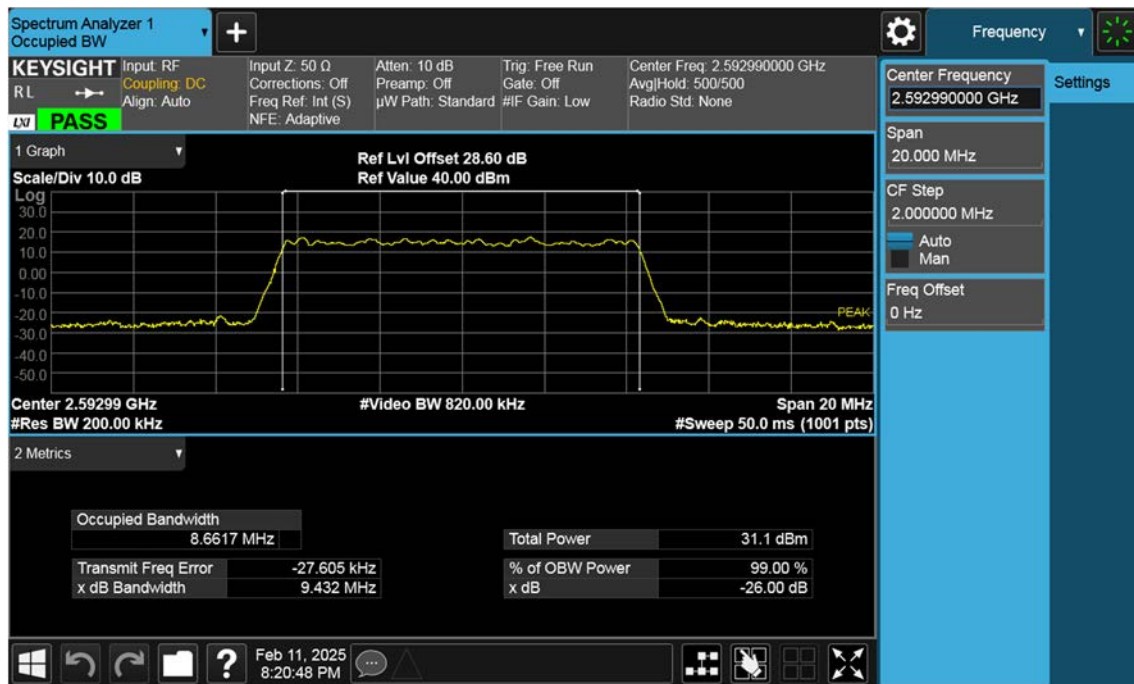
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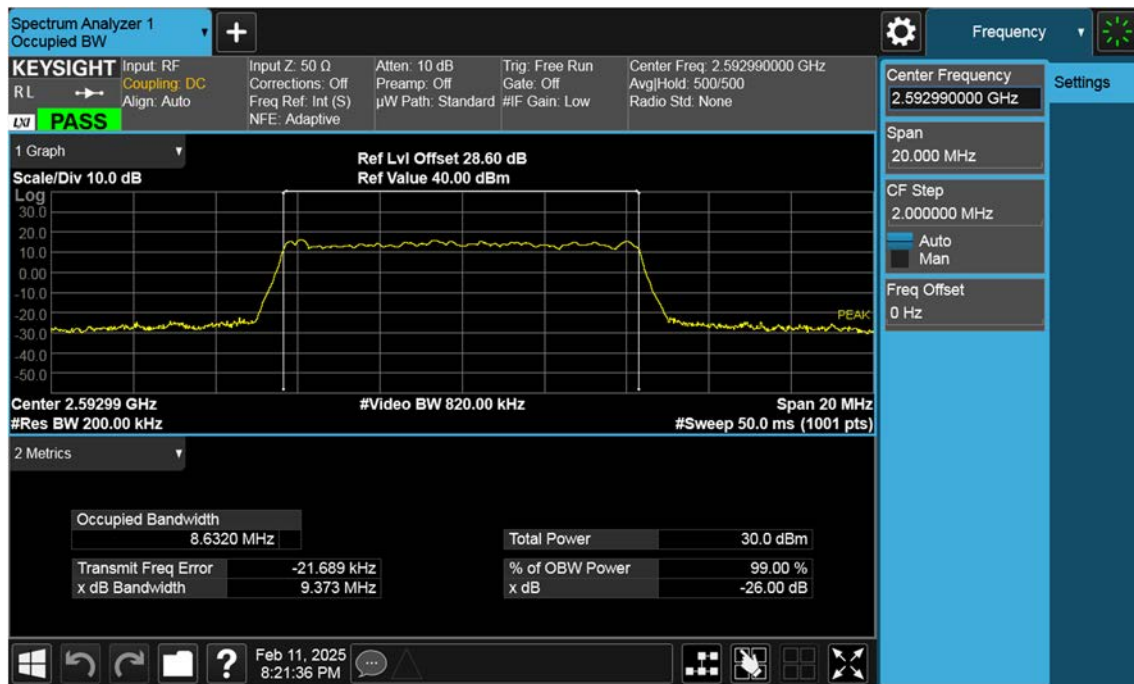
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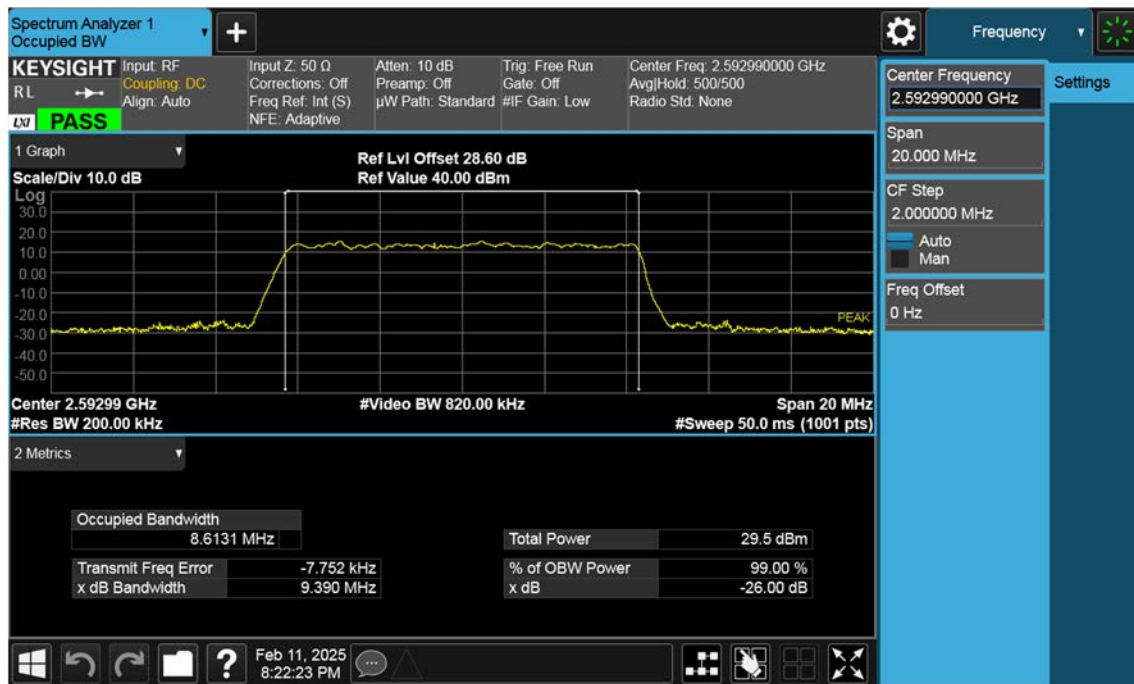
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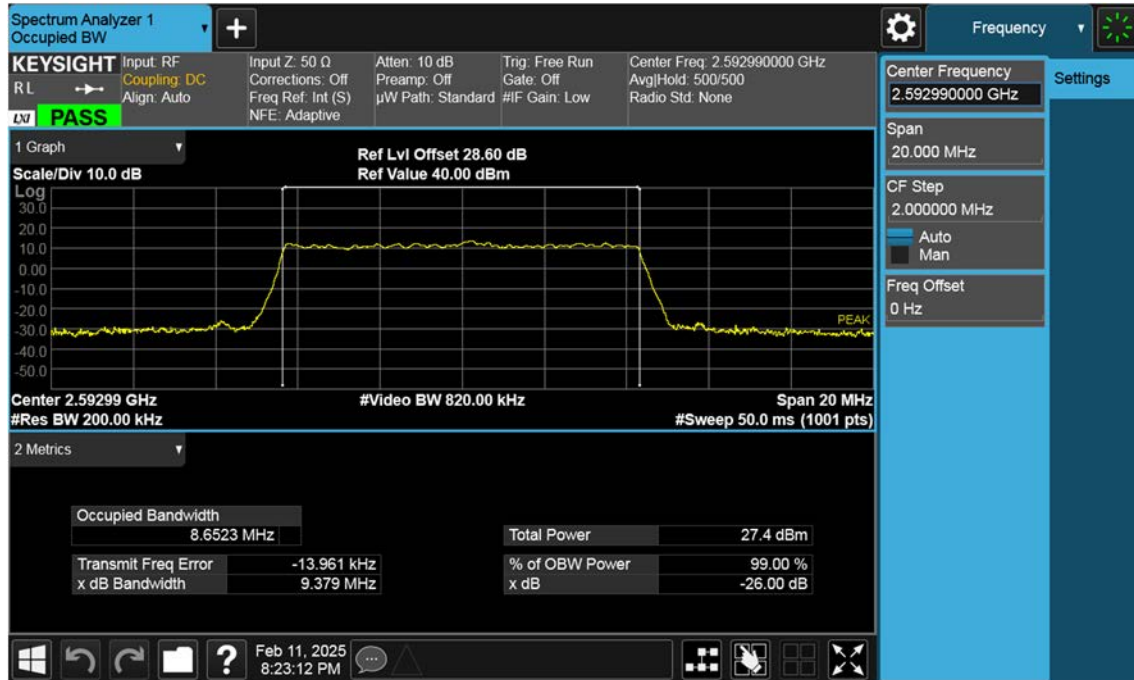
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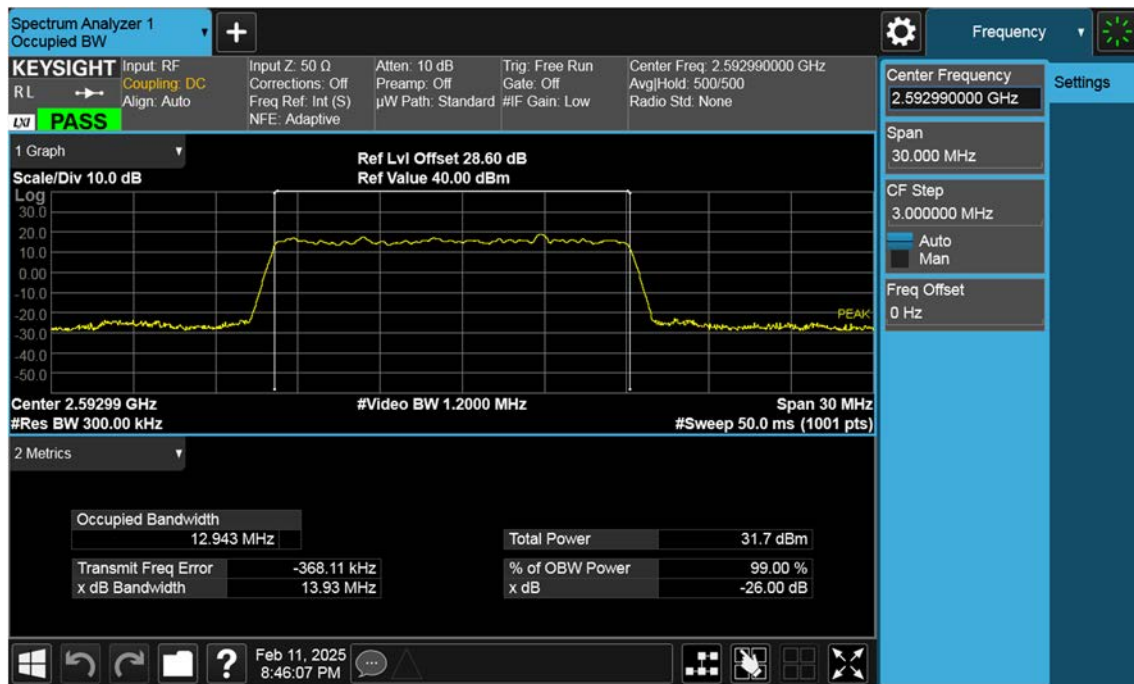
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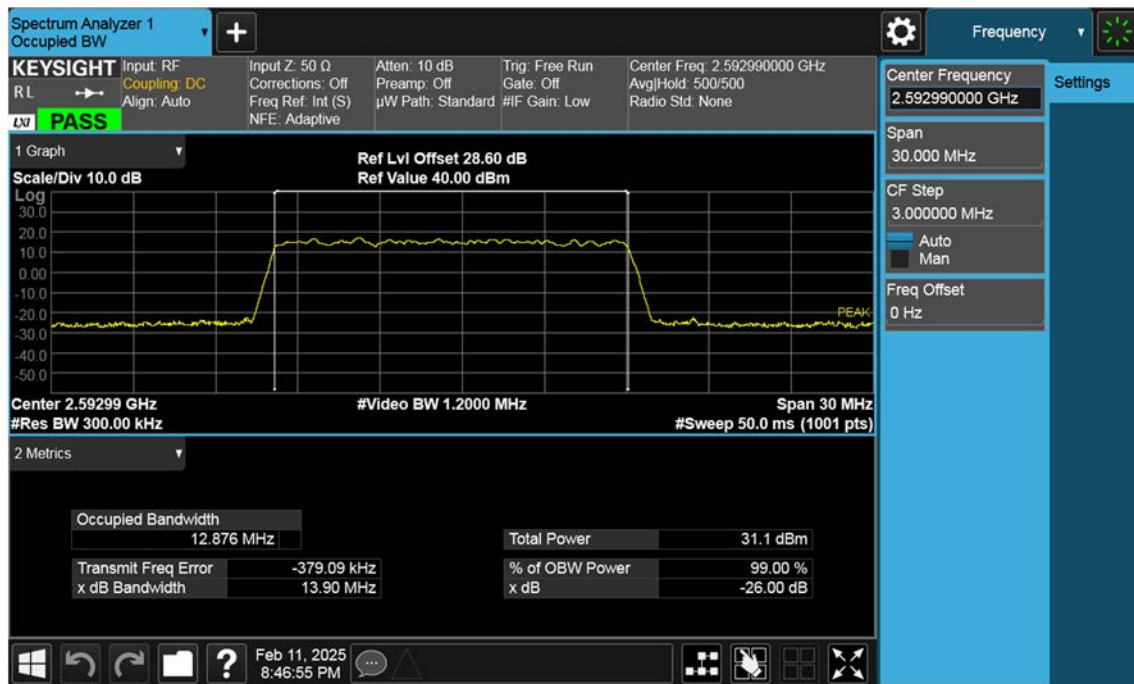
NR41_10 M_OBW_Mid_256QAM_FullRB



NR41_15 M_OBW_Mid_BPSK_FullRB



NR41_15 M_OBW_Mid_QPSK_FullRB



NR41_15 M_OBW_Mid_16QAM_FullRB

