

TEST REPORT

FCC Sub6 n41(38) Test for SM-F761U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2504-FC076-R1

DATE OF ISSUE
May 27, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2504-FC076-R1

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Additional Model

SM-F761U1

Applicant

SAMSUNG Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Product Name

Mobile Phone

Model Name

SM-F761U

Date of Test

February 26, 2025 ~ May 27, 2025

FCC ID

A3LSMF761U

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 Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 29, 2025	Initial Release
1	May 27, 2025	Revised the C.S.E Plot & data. (pages 81 & 364)

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 Bs 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

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMF761U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile Phone
Model(s):	SM-F761U
Additional Model(s)	SM-F761U1
SCS(kHz):	30
Bandwidth(MHz):	Sub6 n38 : 10, 15, 20, 25, 30, 40 Sub6 n41 : 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency:	2575.000 – 2615.000 : 10 MHz(Sub6 n38) 2577.500 – 2612.500 : 15 MHz(Sub6 n38) 2580.000 – 2610.000 : 20 MHz(Sub6 n38) 2582.500 – 2607.500 : 25 MHz(Sub6 n38) 2585.000 – 2605.000 : 30 MHz(Sub6 n38) 2590.000 – 2600.000 : 40 MHz(Sub6 n38) 2501.010 – 2685.000 : 10 MHz(Sub6 n41(38)) 2503.500 – 2682.480 : 15 MHz(Sub6 n41(38)) 2506.020 – 2679.990 : 20 MHz(Sub6 n41(38)) 2508.510 – 2677.500 : 25 MHz(Sub6 n41(38)) 2511.000 – 2674.980 : 30 MHz(Sub6 n41(38)) 2516.010 – 2670.000 : 40 MHz(Sub6 n41(38)) 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 26, 2025 ~ May 27, 2025
Serial number:	Radiated : 8caddb84573a7ece (Main 2 ANT), R3CY20BS0BY(Sub 5 ANT) Conducted : R3CY30G6GJH
Antenna Information	Please refer to the Antenna Specification document.

1.1 MAXIMUM OUTPUT POWER

Main 2 ANT

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n38 (10)	2575.000 – 2615.000	8M69G7D	PI/2 BPSK	0.077	18.88
		8M69G7D	QPSK	0.077	18.86
		8M66W7D	16QAM	0.061	17.85
		8M72W7D	64QAM	0.043	16.36
		8M81W7D	256QAM	0.028	14.50
Sub6 n38 (15)	2577.500 – 2612.500	13M0G7D	PI/2 BPSK	0.075	18.76
		13M0G7D	QPSK	0.074	18.72
		13M0W7D	16QAM	0.060	17.81
		13M0W7D	64QAM	0.041	16.18
		13M0W7D	256QAM	0.026	14.15
Sub6 n38 (20)	2580.000 – 2610.000	18M0G7D	PI/2 BPSK	0.076	18.81
		18M0G7D	QPSK	0.075	18.74
		18M0W7D	16QAM	0.059	17.73
		18M0W7D	64QAM	0.042	16.21
		18M0W7D	256QAM	0.027	14.38
Sub6 n38 (25)	2582.500 – 2607.500	23M1G7D	PI/2 BPSK	0.080	19.01
		23M1G7D	QPSK	0.079	18.98
		23M0W7D	16QAM	0.064	18.07
		23M0W7D	64QAM	0.046	16.62
		23M0W7D	256QAM	0.028	14.54
Sub6 n38 (30)	2585.000 – 2605.000	27M0G7D	PI/2 BPSK	0.081	19.08
		27M0G7D	QPSK	0.079	18.98
		26M9W7D	16QAM	0.063	17.98
		27M0W7D	64QAM	0.045	16.53
		26M9W7D	256QAM	0.028	14.53
Sub6 n38 (40)	2590.000 – 2600.000	35M9G7D	PI/2 BPSK	0.068	18.33
		35M9G7D	QPSK	0.067	18.29
		35M9W7D	16QAM	0.054	17.30
		35M9W7D	64QAM	0.038	15.82
		36M0W7D	256QAM	0.024	13.87

Sub 5 ANT

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41(38) (10)	2501.010 – 2685.000	8M70G7D	PI/2 BPSK	0.306	24.86
		8M69G7D	QPSK	0.305	24.84
		8M72W7D	16QAM	0.232	23.65
		8M70W7D	64QAM	0.169	22.29
		8M67W7D	256QAM	0.107	20.29
Sub6 n41(38) (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.324	25.11
		13M0G7D	QPSK	0.317	25.01
		13M0W7D	16QAM	0.249	23.96
		13M0W7D	64QAM	0.181	22.58
		13M0W7D	256QAM	0.111	20.45
Sub6 n41(38) (20)	2506.020 – 2679.990	18M0G7D	PI/2 BPSK	0.310	24.91
		18M0G7D	QPSK	0.300	24.77
		17M9W7D	16QAM	0.239	23.79
		17M9W7D	64QAM	0.172	22.35
		18M0W7D	256QAM	0.109	20.38
Sub6 n41(38) (25)	2508.510 – 2677.500	23M1G7D	PI/2 BPSK	0.306	24.86
		23M0G7D	QPSK	0.304	24.83
		23M0W7D	16QAM	0.237	23.75
		23M0W7D	64QAM	0.176	22.45
		23M0W7D	256QAM	0.112	20.49
Sub6 n41(38) (30)	2511.000 – 2674.980	27M0G7D	PI/2 BPSK	0.301	24.78
		27M0G7D	QPSK	0.296	24.71
		26M9W7D	16QAM	0.238	23.77
		27M0W7D	64QAM	0.163	22.13
		26M9W7D	256QAM	0.107	20.28
Sub6 n41(38) (40)	2516.010 – 2670.000	36M0G7D	PI/2 BPSK	0.305	24.84
		36M0G7D	QPSK	0.299	24.76
		36M0W7D	16QAM	0.237	23.74
		36M0W7D	64QAM	0.169	22.28
		35M8W7D	256QAM	0.106	20.27
Sub6 n41 (50)	2521.020 – 2664.990	46M0G7D	PI/2 BPSK	0.294	24.69
		46M0G7D	QPSK	0.290	24.63
		46M1W7D	16QAM	0.234	23.70
		45M8W7D	64QAM	0.170	22.31
		46M2W7D	256QAM	0.105	20.20

Sub6 n41 (60)	2526.000 – 2659.980	58M4G7D	PI/2 BPSK	0.304	24.83
		58M2G7D	QPSK	0.303	24.81
		58M2W7D	16QAM	0.243	23.85
		58M2W7D	64QAM	0.165	22.18
		58M2W7D	256QAM	0.108	20.35
Sub6 n41 (70)	2531.010 – 2655.000	64M9G7D	PI/2 BPSK	0.302	24.80
		64M7G7D	QPSK	0.301	24.78
		64M9W7D	16QAM	0.248	23.95
		64M8W7D	64QAM	0.164	22.15
		65M1W7D	256QAM	0.106	20.26
Sub6 n41 (80)	2536.020 – 2649.990	77M5G7D	PI/2 BPSK	0.305	24.85
		77M5G7D	QPSK	0.294	24.69
		77M4W7D	16QAM	0.235	23.71
		77M4W7D	64QAM	0.167	22.23
		77M6W7D	256QAM	0.108	20.32
Sub6 n41 (90)	2541.000 – 2644.980	87M3G7D	PI/2 BPSK	0.305	24.84
		87M1G7D	QPSK	0.296	24.72
		87M1W7D	16QAM	0.252	24.02
		87M2W7D	64QAM	0.167	22.22
		87M3W7D	256QAM	0.104	20.17
Sub6 n41 (100)	2546.010 – 2640.000	96M9G7D	PI/2 BPSK	0.344	25.37
		96M8G7D	QPSK	0.334	25.24
		96M6W7D	16QAM	0.261	24.16
		96M8W7D	64QAM	0.182	22.61
		96M9W7D	256QAM	0.120	20.79

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.

These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq$ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $>$ 2 x 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;

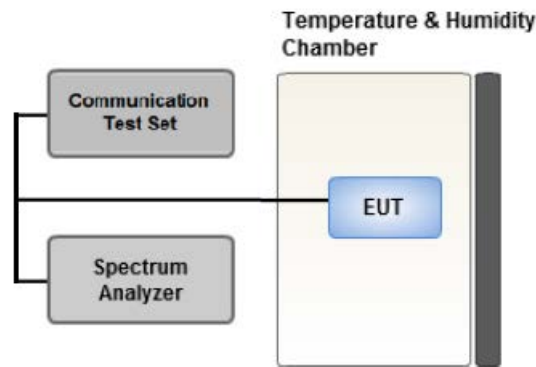
$$\text{Result}_{(\text{dBm})} = P_{\text{g}}_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

Where: P_{g} is the generator output power into the substitution antenna.

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

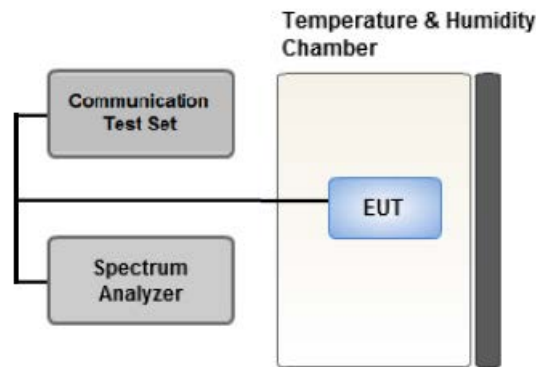
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

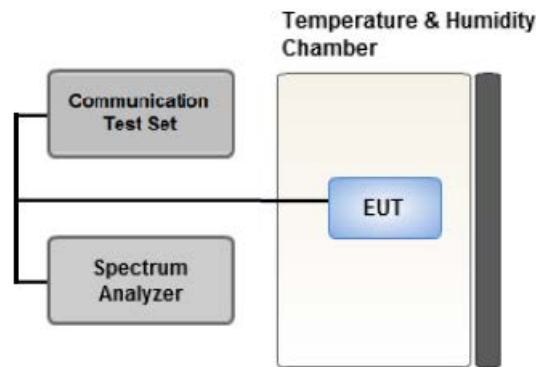
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW $\geq$ 3 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.

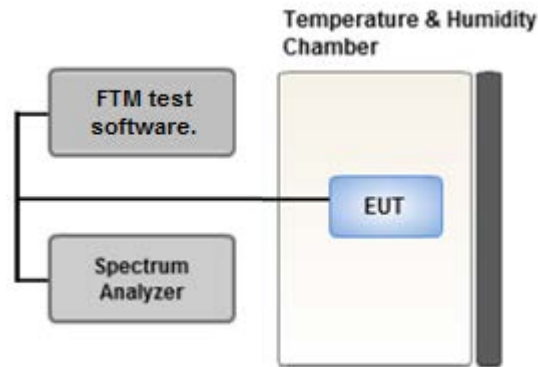
Test Settings (1)

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

Test Settings (2)

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time $>$ Number of points in sweep $\times$ Transmitter period
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

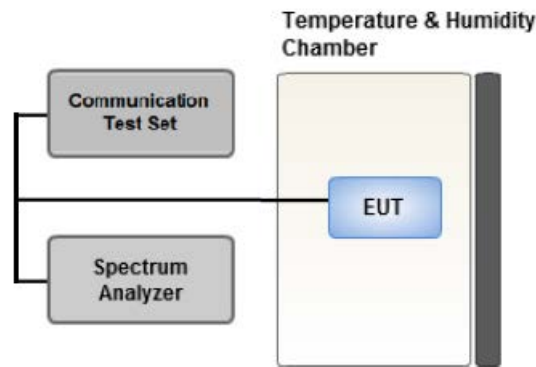
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5.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

Test Notes

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

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

- .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
- .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- The EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported.
- Worst case (Equivalent Isotropic Radiated Power)
: Main 2 ANT (Open), Sub 5 ANT (Open)
- Worst case (Radiated Spurious Emissions)
: Main 2 ANT (Open), Sub 5 ANT (Open)
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- 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.
- SM-F761U & additional models were tested and the worst case results are reported.
(Worst case : SM-F761U)
- Sub6 n41 (2 496 – 2 690 MHz, 10/15/20/25/30/40/50/60/70/80/90/100 MHz bandwidth) overlaps the entire frequency range of Sub6 n38 (2 570 - 2 620 MHz, 10/15/20/25/30/40 MHz bandwidth).
Therefore, test data provided in this report covers Sub6 n41 as well as Sub6 n38. (Sub5 ANT)

[Main 2 ANT 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		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		X

[Sub 5 ANT 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		X
Radiated Spurious and Harmonic 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: NSA, SA, SRS
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.
- SM-F761U & additional models were tested and the worst case results are reported.
(Worst case : SM-F761U)
- Sub6 n41 (2 496 – 2 690 MHz, 10/15/20/25/30/40/50/60/70/80/90/100 MHz bandwidth) overlaps the entire frequency range of Sub6 n38 (2 570 - 2 620 MHz, 10/15/20/25/30/40 MHz bandwidth).
Therefore, test data provided in this report covers Sub6 n41 as well as Sub6 n38. (Sub5 ANT)

[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, 20,25, 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
		25	Low	1	0
			High	1	64
		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, 20,25, 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, 20,25, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/17/2027	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/06/2027	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/05/2027	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/17/2027	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/22/2025	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/04/2026	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	03/21/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	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	05/23/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

Parameter	Expanded Uncertainty ($\pm$ 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	<u>See Note1</u>
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

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

6.2 Test Condition: Radiated Test

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

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA(Main 2 ANT)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2575.000	Sub6 38/ 10 MHz [30 kHz]	PI/2 BPSK	-26.21	10.67	10.86	2.65	H	< 2.00	0.077	18.88	1	1
		QPSK	-26.23	10.65	10.86	2.65	H		0.077	18.86		
		16-QAM	-27.24	9.64	10.86	2.65	H		0.061	17.85		
		64-QAM	-28.73	8.15	10.86	2.65	H		0.043	16.36		
		256-QAM	-30.59	6.29	10.86	2.65	H		0.028	14.50		
2595.000		PI/2 BPSK	-26.96	9.75	11.00	2.55	H		0.066	18.20	1	12
		QPSK	-27.13	9.58	11.00	2.55	H		0.064	18.03		
		16-QAM	-28.08	8.63	11.00	2.55	H		0.051	17.08		
		64-QAM	-29.56	7.15	11.00	2.55	H		0.036	15.60		
		256-QAM	-31.54	5.17	11.00	2.55	H		0.023	13.62		
2615.000		PI/2 BPSK	-27.42	9.75	11.04	2.50	H		0.068	18.29	1	1
		QPSK	-27.49	9.68	11.04	2.50	H		0.066	18.22		
		16-QAM	-28.44	8.73	11.04	2.50	H		0.053	17.27		
		64-QAM	-30.02	7.15	11.04	2.50	H		0.037	15.69		
		256-QAM	-31.99	5.18	11.04	2.50	H		0.024	13.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2577.500	Sub6 38/ 15 MHz [30 kHz]	PI/2 BPSK	-26.14	10.52	10.89	2.65	H	< 2.00	0.075	18.76	1	1
		QPSK	-26.18	10.48	10.89	2.65	H		0.075	18.72		
		16-QAM	-27.09	9.57	10.89	2.65	H		0.060	17.81		
		64-QAM	-28.72	7.94	10.89	2.65	H		0.042	16.18		
		256-QAM	-30.80	5.86	10.89	2.65	H		0.026	14.10		
2595.000		PI/2 BPSK	-26.92	9.79	11.00	2.55	H		0.067	18.24	1	19
		QPSK	-27.07	9.64	11.00	2.55	H		0.064	18.09		
		16-QAM	-27.91	8.80	11.00	2.55	H		0.053	17.25		
		64-QAM	-29.54	7.17	11.00	2.55	H		0.037	15.62		
		256-QAM	-31.47	5.24	11.00	2.55	H		0.023	13.69		
2612.500		PI/2 BPSK	-27.15	10.02	11.04	2.50	H	0.072	18.56	1	1	
		QPSK	-27.24	9.93	11.04	2.50	H	0.070	18.47			
		16-QAM	-28.23	8.94	11.04	2.50	H	0.056	17.48			
		64-QAM	-29.78	7.39	11.04	2.50	H	0.039	15.93			
		256-QAM	-31.56	5.61	11.04	2.50	H	0.026	14.15			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2580.000	Sub6 38/ 20 MHz [30 kHz]	PI/2 BPSK	-26.09	10.57	10.89	2.65	H	< 2.00	0.076	18.81	1	1
		QPSK	-26.16	10.50	10.89	2.65	H		0.075	18.74		
		16-QAM	-27.17	9.49	10.89	2.65	H		0.059	17.73		
		64-QAM	-28.69	7.97	10.89	2.65	H		0.042	16.21		
		256-QAM	-30.52	6.14	10.89	2.65	H		0.027	14.38		
2595.000		PI/2 BPSK	-27.00	9.71	11.00	2.55	H		0.066	18.16	1	1
		QPSK	-27.04	9.67	11.00	2.55	H		0.065	18.12		
		16-QAM	-28.05	8.66	11.00	2.55	H		0.051	17.11		
		64-QAM	-29.62	7.09	11.00	2.55	H		0.036	15.54		
		256-QAM	-31.43	5.28	11.00	2.55	H		0.024	13.73		
2610.000		PI/2 BPSK	-27.19	10.06	11.06	2.48	H		0.073	18.64	1	1
		QPSK	-27.20	10.05	11.06	2.48	H		0.073	18.63		
		16-QAM	-28.18	9.07	11.06	2.48	H		0.058	17.65		
		64-QAM	-29.75	7.50	11.06	2.48	H		0.041	16.08		
		256-QAM	-31.60	5.65	11.06	2.48	H		0.027	14.23		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2582.500	Sub6 38/ 25 MHz [30 kHz]	PI/2 BPSK	-26.04	10.70	10.93	2.62	H	< 2.00	0.080	19.01	1	1
		QPSK	-26.07	10.67	10.93	2.62	H		0.079	18.98		
		16-QAM	-26.98	9.76	10.93	2.62	H		0.064	18.07		
		64-QAM	-28.43	8.31	10.93	2.62	H		0.046	16.62		
		256-QAM	-30.51	6.23	10.93	2.62	H		0.028	14.54		
2595.000		PI/2 BPSK	-26.70	10.01	11.00	2.55	H		0.070	18.46	1	32
		QPSK	-26.95	9.76	11.00	2.55	H		0.066	18.21		
		16-QAM	-28.06	8.65	11.00	2.55	H		0.051	17.10		
		64-QAM	-29.50	7.21	11.00	2.55	H		0.037	15.66		
		256-QAM	-31.43	5.28	11.00	2.55	H		0.024	13.73		
2607.500		PI/2 BPSK	-26.95	10.30	11.06	2.48	H		0.077	18.88	1	1
		QPSK	-26.98	10.27	11.06	2.48	H		0.077	18.85		
		16-QAM	-27.96	9.29	11.06	2.48	H		0.061	17.87		
		64-QAM	-29.47	7.78	11.06	2.48	H		0.043	16.36		
		256-QAM	-31.56	5.69	11.06	2.48	H		0.027	14.27		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2585.000	Sub6 38/ 30 MHz [30 kHz]	PI/2 BPSK	-25.97	10.77	10.93	2.62	H	< 2.00	0.081	19.08	1	1
		QPSK	-26.07	10.67	10.93	2.62	H		0.079	18.98		
		16-QAM	-27.07	9.67	10.93	2.62	H		0.063	17.98		
		64-QAM	-28.52	8.22	10.93	2.62	H		0.045	16.53		
		256-QAM	-30.52	6.22	10.93	2.62	H		0.028	14.53		
2595.000		PI/2 BPSK	-26.84	9.87	11.00	2.55	H		0.068	18.32	1	39
		QPSK	-26.95	9.76	11.00	2.55	H		0.066	18.21		
		16-QAM	-27.95	8.76	11.00	2.55	H		0.053	17.21		
		64-QAM	-29.49	7.22	11.00	2.55	H		0.037	15.67		
		256-QAM	-31.32	5.39	11.00	2.55	H		0.024	13.84		
2605.000		PI/2 BPSK	-27.03	9.91	11.04	2.50	H		0.070	18.45	1	39
		QPSK	-27.04	9.90	11.04	2.50	H		0.070	18.44		
		16-QAM	-28.06	8.88	11.04	2.50	H		0.055	17.42		
		64-QAM	-29.51	7.43	11.04	2.50	H		0.040	15.97		
		256-QAM	-31.37	5.57	11.04	2.50	H		0.026	14.11		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2590.000	Sub6 38/ 40 MHz [30 kHz]	PI/2 BPSK	-26.88	9.94	10.96	2.58	H	< 2.00	0.068	18.32	1	53
		QPSK	-26.91	9.91	10.96	2.58	H		0.068	18.29		
		16-QAM	-27.90	8.92	10.96	2.58	H		0.054	17.30		
		64-QAM	-29.38	7.44	10.96	2.58	H		0.038	15.82		
		256-QAM	-31.35	5.47	10.96	2.58	H		0.024	13.85		
2595.000		PI/2 BPSK	-26.83	9.88	11.00	2.55	H		0.068	18.33	1	53
		QPSK	-26.88	9.83	11.00	2.55	H		0.067	18.28		
		16-QAM	-27.92	8.79	11.00	2.55	H		0.053	17.24		
		64-QAM	-29.37	7.34	11.00	2.55	H		0.038	15.79		
		256-QAM	-31.29	5.42	11.00	2.55	H		0.024	13.87		
2600.000		PI/2 BPSK	-26.93	9.68	11.03	2.52	H		0.066	18.19	1	53
		QPSK	-26.98	9.63	11.03	2.52	H		0.065	18.14		
		16-QAM	-27.90	8.71	11.03	2.52	H		0.053	17.22		
		64-QAM	-29.40	7.21	11.03	2.52	H		0.037	15.72		
		256-QAM	-31.35	5.26	11.03	2.52	H		0.024	13.77		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N38</u>
Bandwidth:	<u>10 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</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
515000 (2575.000)	5 150.00	-62.22	11.49	-63.25	3.77	V	-55.53	-25.00	1	1
	7 725.00	-64.46	11.38	-57.09	4.69	V	-50.40	-25.00		
	10 300.00	-63.33	11.57	-52.38	5.59	V	-46.40	-25.00		
519000 (2595.000)	5 190.00	-56.94	11.63	-58.09	3.80	H	-50.26	-25.00	1	12
	7 785.00	-64.61	11.25	-57.20	4.70	V	-50.65	-25.00		
	10 380.00	-64.05	11.69	-53.66	5.56	V	-47.53	-25.00		
523000 (2615.000)	5 230.00	-58.38	11.75	-60.52	3.77	V	-52.54	-25.00	1	1
	7 845.00	-64.85	11.09	-57.50	4.73	V	-51.14	-25.00		
	10 460.00	-64.16	11.72	-53.35	5.58	V	-47.21	-25.00		

☐ NR Band: N38
☐ Bandwidth: 15 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meters
☐ 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
515500 (2577.500)	5 155.00	-60.70	11.50	-61.87	3.76	V	-54.13	-25.00	1	1
	7 732.50	-64.06	11.36	-56.57	4.71	V	-49.92	-25.00		
	10 310.00	-64.05	11.59	-53.38	5.56	V	-47.35	-25.00		
519000 (2595.000)	5 190.00	-56.90	11.63	-58.05	3.80	H	-50.22	-25.00	1	19
	7 785.00	-63.11	11.25	-55.70	4.70	H	-49.15	-25.00		
	10 380.00	-63.88	11.69	-53.49	5.56	H	-47.36	-25.00		
522500 (2612.500)	5 225.00	-58.53	11.73	-60.58	3.76	H	-52.61	-25.00	1	1
	7 837.50	-64.55	11.11	-57.25	4.72	V	-50.86	-25.00		
	10 450.00	-64.69	11.73	-53.58	5.56	V	-47.41	-25.00		

☐ NR Band: N38
☐ Bandwidth: 20 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meters
☐ 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
516000 (2580.000)	5 160.00	-61.83	11.52	-63.13	3.76	H	-55.37	-25.00	1	1
	7 740.00	-63.83	11.35	-56.23	4.72	H	-49.60	-25.00		
	10 320.00	-64.23	11.61	-53.43	5.55	H	-47.37	-25.00		
519000 (2595.000)	5 190.00	-58.89	11.63	-60.04	3.80	H	-52.21	-25.00	1	1
	7 785.00	-62.82	11.25	-55.41	4.70	H	-48.86	-25.00		
	10 380.00	-63.09	11.69	-52.70	5.56	H	-46.57	-25.00		
522000 (2610.000)	5 220.00	-59.70	11.72	-61.66	3.75	H	-53.69	-25.00	1	1
	7 830.00	-63.77	11.13	-56.06	4.70	H	-49.63	-25.00		
	10 440.00	-63.51	11.73	-52.99	5.57	H	-46.83	-25.00		

■ NR Band: N38
 ■ Bandwidth: 25 MHz
 ■ Modulation: PI/2 BPSK
 ■ Distance: 1 meters
 ■ 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
516500 (2582.500)	5 165.00	-62.51	11.54	-64.00	3.77	H	-56.23	-25.00	1	1
	7 747.50	-63.89	11.33	-56.28	4.72	H	-49.67	-25.00		
	10 330.00	-64.12	11.63	-53.27	5.55	H	-47.19	-25.00		
519000 (2595.000)	5 190.00	-57.12	11.63	-58.27	3.80	H	-50.44	-25.00	1	32
	7 785.00	-63.65	11.25	-56.24	4.70	H	-49.69	-25.00		
	10 380.00	-63.10	11.69	-52.71	5.56	H	-46.58	-25.00		
523000 (2607.500)	5 215.00	-59.99	11.70	-61.78	3.75	H	-53.83	-25.00	1	1
	7 822.50	-64.51	11.14	-56.79	4.69	H	-50.34	-25.00		
	10 430.00	-64.22	11.73	-53.12	5.56	H	-46.95	-25.00		

■ NR Band: N38
 ■ Bandwidth: 30 MHz
 ■ Modulation: PI/2 BPSK
 ■ Distance: 1 meters
 ■ 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
517000 (2585.000)	5 170.00	-62.44	11.56	-64.13	3.78	H	-56.35	-25.00	1	1
	7 755.00	-63.54	11.32	-56.06	4.72	H	-49.46	-25.00		
	10 340.00	-63.89	11.65	-52.87	5.54	H	-46.76	-25.00		
519000 (2595.000)	5 190.00	-56.95	11.63	-58.10	3.80	H	-50.27	-25.00	1	39
	7 785.00	-63.20	11.25	-55.79	4.70	H	-49.24	-25.00		
	10 380.00	-63.89	11.69	-53.50	5.56	H	-47.37	-25.00		
521000 (2605.000)	5 210.00	-60.12	11.69	-61.74	3.75	H	-53.80	-25.00	1	39
	7 815.00	-63.85	11.17	-55.89	4.69	H	-49.41	-25.00		
	10 420.00	-64.73	11.72	-54.35	5.56	H	-48.19	-25.00		

☐ NR Band: N38
☐ Bandwidth: 40 MHz
☐ Modulation: PI/2 BPSK
☐ Distance: 1 meters
☐ 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
518000 (2590.000)	5 180.00	-62.79	11.60	-64.00	3.79	H	-56.19	-25.00	1	53
	7 770.00	-64.00	11.29	-56.68	4.70	H	-50.09	-25.00		
	10 360.00	-64.26	11.67	-53.48	5.55	H	-47.36	-25.00		
519000 (2595.000)	5 190.00	-58.67	11.63	-59.82	3.80	H	-51.99	-25.00	1	53
	7 785.00	-63.97	11.25	-56.56	4.70	H	-50.01	-25.00		
	10 380.00	-63.44	11.69	-53.05	5.56	H	-46.92	-25.00		
520000 (2600.000)	5 200.00	-59.67	11.66	-60.60	3.78	H	-52.72	-25.00	1	53
	7 800.00	-62.85	11.21	-55.05	4.69	H	-48.53	-25.00		
	10 400.00	-63.97	11.70	-53.61	5.56	H	-47.47	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	4.43
			QPSK			5.65
			16-QAM			6.35
			64-QAM			6.49
			256-QAM			6.69
	15 MHz		BPSK	36		4.32
			QPSK			5.63
			16-QAM			6.30
			64-QAM			6.57
			256-QAM			7.10
	20 MHz		BPSK	50		4.26
			QPSK			5.62
			16-QAM			6.40
			64-QAM			6.48
			256-QAM			6.69
	25 MHz		BPSK	64		4.49
			QPSK			5.63
			16-QAM			6.33
			64-QAM			6.46
			256-QAM			6.65
	30 MHz		BPSK	75		4.78
			QPSK			5.64
			16-QAM			6.37
			64-QAM			6.49
			256-QAM			6.66
	40 MHz		BPSK	100		4.66
			QPSK			5.65
			16-QAM			6.35
			64-QAM			6.53
			256-QAM			6.77

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 100 ~ 129.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	8.6882
			QPSK			8.6849
			16-QAM			8.6569
			64-QAM			8.7185
			256-QAM			8.8080
	15 MHz		BPSK	36		12.976
			QPSK			12.964
			16-QAM			12.977
			64-QAM			12.982
			256-QAM			12.967
	20 MHz		BPSK	50		17.981
			QPSK			17.996
			16-QAM			17.957
			64-QAM			18.003
			256-QAM			17.982
	25 MHz		BPSK	64		23.106
			QPSK			23.047
			16-QAM			22.988
			64-QAM			22.974
			256-QAM			23.038
	30 MHz		BPSK	75		26.975
			QPSK			26.997
			16-QAM			26.921
			64-QAM			26.959
			256-QAM			26.893
	40 MHz		BPSK	100		35.879
			QPSK			35.939
			16-QAM			35.916
			64-QAM			35.897
			256-QAM			35.978

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 130 ~ 159.

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)
Sub6 n38	10	2575.000	3.6790	29.722	-63.398	-33.676	-25.00
		2595.000	7.9063	30.315	-63.752	-33.437	
		2615.000	4.1077	29.722	-64.118	-34.396	
	15	2577.500	3.9482	29.722	-63.776	-34.054	
		2595.000	4.9751	29.722	-63.527	-33.805	
		2612.500	8.8136	30.315	-64.298	-33.983	
	20	2580.000	3.6292	29.722	-63.376	-33.654	
		2595.000	3.9183	29.722	-62.263	-32.541	
		2610.000	9.0030	30.315	-63.390	-33.075	
	25	2582.500	6.2014	30.315	-62.853	-32.538	
		2595.000	3.7089	29.722	-62.728	-33.006	
		2607.500	3.7089	29.722	-63.494	-33.772	
	30	2585.000	5.1845	30.315	-63.080	-32.765	
		2595.000	7.5274	30.315	-62.816	-32.501	
		2605.000	6.3809	30.315	-63.593	-33.278	
	40	2590.000	3.8784	29.722	-63.288	-33.566	
		2595.000	3.7488	29.722	-63.638	-33.916	
		2600.000	4.7757	29.722	-62.791	-33.069	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 160 ~ 195.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	29.722
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

8.6 CHANNEL EDGE

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	2575.000	BPSK	Full RB	0	-25.78	-26.24	-28.08	-28.87
	2595.000	BPSK	Full RB	0	-24.92	-26.30	-28.71	-29.87
	2615.000	BPSK	Full RB	0	-25.70	-25.88	-28.00	-28.65
15 MHz	2577.500	BPSK	Full RB	0	-26.36	-34.48	-31.27	-36.33
	2595.000	BPSK	Full RB	0	-25.68	-34.85	-30.74	-35.92
	2612.500	BPSK	Full RB	0	-26.07	-34.84	-29.85	-34.64
20 MHz	2580.000	BPSK	Full RB	0	-27.35	-32.42	-32.43	-35.17
	2595.000	BPSK	Full RB	0	-27.64	-31.86	-32.35	-36.17
	2610.000	BPSK	Full RB	0	-27.61	-32.25	-31.82	-36.03
25 MHz	2582.500	BPSK	Full RB	0	-27.36	-32.22	-33.16	-36.10
	2595.000	BPSK	Full RB	0	-26.66	-31.49	-32.80	-37.12
	2607.500	BPSK	Full RB	0	-26.43	-31.58	-31.86	-36.79
30 MHz	2585.000	BPSK	Full RB	0	-28.38	-40.07	-35.13	-40.33
	2595.000	BPSK	Full RB	0	-28.08	-39.84	-33.94	-38.84
	2605.000	BPSK	Full RB	0	-27.89	-39.63	-33.62	-38.16
40 MHz	2590.000	BPSK	Full RB	0	-27.53	-41.15	-34.39	-39.26
	2595.000	BPSK	Full RB	0	-26.86	-39.07	-33.91	-39.78
	2600.000	BPSK	Full RB	0	-26.92	-39.53	-33.42	-38.15
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	2575.000	BPSK	Full RB	0	-34.58	-33.37	-40.71	-40.43
	2595.000	BPSK	Full RB	0	-32.03	-32.22	-41.97	-42.52
	2615.000	BPSK	Full RB	0	-31.42	-31.83	-42.35	-42.43
15 MHz	2577.500	BPSK	Full RB	0	-38.62	-38.24	-45.48	-45.99
	2595.000	BPSK	Full RB	0	-36.19	-38.48	-44.72	-45.63
	2612.500	BPSK	Full RB	0	-34.26	-37.16	-46.38	-46.54
20 MHz	2580.000	BPSK	Full RB	0	-38.01	-40.22	-44.66	-45.93
	2595.000	BPSK	Full RB	0	-36.74	-41.11	-45.84	-47.35
	2610.000	BPSK	Full RB	0	-34.85	-40.74	-44.49	-45.98
25 MHz	2582.500	BPSK	Full RB	0	-36.44	-38.20	-43.97	-44.77
	2595.000	BPSK	Full RB	0	-34.74	-40.34	-43.87	-45.23
	2607.500	BPSK	Full RB	0	-33.41	-39.48	-43.77	-45.65
30 MHz	2585.000	BPSK	Full RB	0	-36.32	-39.08	-46.26	-47.61
	2595.000	BPSK	Full RB	0	-34.07	-38.32	-45.79	-47.47
	2605.000	BPSK	Full RB	0	-33.33	-39.49	-45.07	-47.65
40 MHz	2590.000	BPSK	Full RB	0	-34.66	-37.27	-50.64	-50.02
	2595.000	BPSK	Full RB	0	-35.41	-37.81	-51.79	-51.90
	2600.000	BPSK	Full RB	0	-33.24	-36.70	-45.74	-46.86
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 196 ~ 225. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2575.000	100 %	+20(Ref)	2574 999 997	0.0	0.000 000	0.000
	100 %	-30	2574 999 996	-1.3	0.000 000	0.000
	100 %	-20	2574 999 996	-1.0	0.000 000	0.000
	100 %	-10	2574 999 996	-1.4	0.000 000	-0.001
	100 %	0	2574 999 997	-0.3	0.000 000	0.000
	100 %	+10	2574 999 995	-2.0	0.000 000	-0.001
	100 %	+30	2574 999 996	-1.5	0.000 000	-0.001
	100 %	+40	2574 999 996	-1.6	0.000 000	-0.001
	100 %	+50	2574 999 995	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	2574 999 994	-3.1	0.000 000	-0.001
2615.000	100 %	+20(Ref)	2614 999 999	0.0	0.000 000	0.000
	100 %	-30	2615 000 000	0.7	0.000 000	0.000
	100 %	-20	2614 999 998	-0.6	0.000 000	0.000
	100 %	-10	2614 999 997	-1.7	0.000 000	-0.001
	100 %	0	2614 999 999	0.0	0.000 000	0.000
	100 %	+10	2614 999 999	-0.1	0.000 000	0.000
	100 %	+30	2614 999 998	-0.9	0.000 000	0.000
	100 %	+40	2614 999 998	-0.8	0.000 000	0.000
	100 %	+50	2614 999 999	0.0	0.000 000	0.000
	Batt. Endpoint	+20	2614 999 997	-2.0	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2577.500	100 %	+20(Ref)	2577 500 000	0.0	0.000 000	0.000
	100 %	-30	2577 500 000	0.8	0.000 000	0.000
	100 %	-20	2577 499 997	-2.7	0.000 000	-0.001
	100 %	-10	2577 499 999	-0.2	0.000 000	0.000
	100 %	0	2577 499 997	-2.2	0.000 000	-0.001
	100 %	+10	2577 499 997	-2.5	0.000 000	-0.001
	100 %	+30	2577 500 000	0.0	0.000 000	0.000
	100 %	+40	2577 499 995	-4.4	0.000 000	-0.002
	100 %	+50	2577 500 000	0.1	0.000 000	0.000
	Batt. Endpoint	+20	2577 499 998	-2.0	0.000 000	-0.001
2612.500	100 %	+20(Ref)	2612 500 000	0.0	0.000 000	0.000
	100 %	-30	2612 499 998	-1.7	0.000 000	-0.001
	100 %	-20	2612 500 000	0.4	0.000 000	0.000
	100 %	-10	2612 500 001	1.5	0.000 000	0.001
	100 %	0	2612 499 996	-4.0	0.000 000	-0.002
	100 %	+10	2612 499 997	-3.0	0.000 000	-0.001
	100 %	+30	2612 499 998	-1.3	0.000 000	-0.001
	100 %	+40	2612 499 999	-0.4	0.000 000	0.000
	100 %	+50	2612 499 998	-1.4	0.000 000	-0.001
	Batt. Endpoint	+20	2612 499 997	-3.0	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2580.000	100 %	+20(Ref)	2580 000 000	0.0	0.000 000	0.000
	100 %	-30	2579 999 998	-2.2	0.000 000	-0.001
	100 %	-20	2580 000 000	-0.4	0.000 000	0.000
	100 %	-10	2580 000 000	-0.7	0.000 000	0.000
	100 %	0	2579 999 998	-1.8	0.000 000	-0.001
	100 %	+10	2579 999 999	-1.4	0.000 000	-0.001
	100 %	+30	2579 999 999	-1.7	0.000 000	-0.001
	100 %	+40	2580 000 002	2.1	0.000 000	0.001
	100 %	+50	2580 000 002	1.3	0.000 000	0.000
	Batt. Endpoint	+20	2579 999 999	-1.2	0.000 000	0.000
2610.000	100 %	+20(Ref)	2609 999 998	0.0	0.000 000	0.000
	100 %	-30	2609 999 997	-0.9	0.000 000	0.000
	100 %	-20	2609 999 998	0.2	0.000 000	0.000
	100 %	-10	2609 999 997	-0.7	0.000 000	0.000
	100 %	0	2609 999 998	-0.2	0.000 000	0.000
	100 %	+10	2609 999 997	-0.5	0.000 000	0.000
	100 %	+30	2609 999 999	1.2	0.000 000	0.000
	100 %	+40	2609 999 996	-1.4	0.000 000	-0.001
	100 %	+50	2609 999 998	0.2	0.000 000	0.000
	Batt. Endpoint	+20	2609 999 995	-2.8	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2582.500	100 %	+20(Ref)	2582 499 998	0.0	0.000 000	0.000
	100 %	-30	2582 499 995	-2.4	0.000 000	-0.001
	100 %	-20	2582 499 995	-2.9	0.000 000	-0.001
	100 %	-10	2582 499 993	-4.8	0.000 000	-0.002
	100 %	0	2582 499 993	-4.1	0.000 000	-0.002
	100 %	+10	2582 499 996	-1.8	0.000 000	-0.001
	100 %	+30	2582 499 994	-3.9	0.000 000	-0.002
	100 %	+40	2582 499 994	-3.9	0.000 000	-0.001
	100 %	+50	2582 499 997	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2582 499 994	-3.5	0.000 000	-0.001
2607.500	100 %	+20(Ref)	2607 499 998	0.0	0.000 000	0.000
	100 %	-30	2607 499 996	-1.7	0.000 000	-0.001
	100 %	-20	2607 499 994	-3.5	0.000 000	-0.001
	100 %	-10	2607 499 996	-1.9	0.000 000	-0.001
	100 %	0	2607 499 997	-0.7	0.000 000	0.000
	100 %	+10	2607 499 996	-1.7	0.000 000	-0.001
	100 %	+30	2607 499 996	-1.8	0.000 000	-0.001
	100 %	+40	2607 499 997	-0.9	0.000 000	0.000
	100 %	+50	2607 499 996	-1.5	0.000 000	-0.001
	Batt. Endpoint	+20	2607 499 995	-2.8	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2585.000	100 %	+20(Ref)	2584 999 999	0.0	0.000 000	0.000
	100 %	-30	2584 999 998	-1.1	0.000 000	0.000
	100 %	-20	2584 999 998	-1.1	0.000 000	0.000
	100 %	-10	2584 999 998	-1.5	0.000 000	-0.001
	100 %	0	2584 999 998	-1.5	0.000 000	-0.001
	100 %	+10	2584 999 997	-2.3	0.000 000	-0.001
	100 %	+30	2584 999 997	-2.4	0.000 000	-0.001
	100 %	+40	2584 999 998	-1.3	0.000 000	-0.001
	100 %	+50	2584 999 998	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	2584 999 999	0.1	0.000 000	0.000
2605.000	100 %	+20(Ref)	2605 000 001	0.0	0.000 000	0.000
	100 %	-30	2604 999 998	-3.0	0.000 000	-0.001
	100 %	-20	2605 000 000	-1.2	0.000 000	0.000
	100 %	-10	2605 000 001	0.7	0.000 000	0.000
	100 %	0	2604 999 999	-1.5	0.000 000	-0.001
	100 %	+10	2604 999 999	-2.2	0.000 000	-0.001
	100 %	+30	2604 999 998	-2.9	0.000 000	-0.001
	100 %	+40	2604 999 999	-2.1	0.000 000	-0.001
	100 %	+50	2604 999 998	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	2604 999 999	-2.2	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2590.000	100 %	+20(Ref)	2589 999 997	0.0	0.000 000	0.000
	100 %	-30	2589 999 994	-2.4	0.000 000	-0.001
	100 %	-20	2589 999 997	-0.1	0.000 000	0.000
	100 %	-10	2589 999 995	-1.3	0.000 000	0.000
	100 %	0	2589 999 994	-2.3	0.000 000	-0.001
	100 %	+10	2589 999 996	-1.0	0.000 000	0.000
	100 %	+30	2589 999 995	-2.1	0.000 000	-0.001
	100 %	+40	2589 999 995	-1.8	0.000 000	-0.001
	100 %	+50	2589 999 997	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	2589 999 995	-2.2	0.000 000	-0.001
2600.000	100 %	+20(Ref)	2599 999 998	0.0	0.000 000	0.000
	100 %	-30	2599 999 995	-3.0	0.000 000	-0.001
	100 %	-20	2599 999 998	0.2	0.000 000	0.000
	100 %	-10	2599 999 995	-2.8	0.000 000	-0.001
	100 %	0	2599 999 996	-2.3	0.000 000	-0.001
	100 %	+10	2599 999 996	-2.2	0.000 000	-0.001
	100 %	+30	2599 999 996	-2.3	0.000 000	-0.001
	100 %	+40	2599 999 996	-1.9	0.000 000	-0.001
	100 %	+50	2599 999 995	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	2599 999 995	-2.7	0.000 000	-0.001

9. TEST DATA(Sub 5 ANT)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2501.010	Sub6 n41(38) / 10 MHz [30 kHz]	PI/2 BPSK	-22.25	14.55	10.61	2.50	H	< 2.00	0.185	22.66	1	12
		QPSK	-22.43	14.37	10.61	2.50	H		0.177	22.48		
		16-QAM	-23.33	13.47	10.61	2.50	H		0.144	21.58		
		64-QAM	-24.67	12.13	10.61	2.50	H		0.106	20.24		
		256-QAM	-26.57	10.23	10.61	2.50	H		0.068	18.34		
2505.000		PI/2 BPSK	-22.01	14.85	10.58	2.51	V		0.196	22.92	1	1
		QPSK	-22.22	14.64	10.58	2.51	V		0.187	22.71		
		16-QAM	-22.94	13.92	10.58	2.51	V		0.158	21.99		
		64-QAM	-24.63	12.23	10.58	2.51	V		0.107	20.30		
		256-QAM	-26.56	10.30	10.58	2.51	V		0.069	18.37		
2592.990		PI/2 BPSK	-20.30	16.41	11.00	2.55	H		0.306	24.86	1	22
		QPSK	-20.32	16.39	11.00	2.55	H		0.305	24.84		
		16-QAM	-21.51	15.20	11.00	2.55	H		0.232	23.65		
		64-QAM	-22.87	13.84	11.00	2.55	H		0.169	22.29		
		256-QAM	-24.87	11.84	11.00	2.55	H		0.107	20.29		
2685.000		PI/2 BPSK	-23.03	14.53	10.82	2.61	H		0.188	22.74	1	12
		QPSK	-23.08	14.48	10.82	2.61	H		0.186	22.69		
		16-QAM	-23.95	13.61	10.82	2.61	H		0.152	21.82		
		64-QAM	-25.55	12.01	10.82	2.61	H		0.105	20.22		
		256-QAM	-27.67	9.89	10.82	2.61	H		0.065	18.10		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2503.500	Sub6 n41(38) / 15 MHz [30 kHz]	PI/2 BPSK	-22.17	14.69	10.58	2.51	H	< 2.00	0.189	22.76	1	1
		QPSK	-22.30	14.56	10.58	2.51	H		0.183	22.63		
		16-QAM	-23.54	13.32	10.58	2.51	H		0.138	21.39		
		64-QAM	-25.01	11.85	10.58	2.51	H		0.098	19.92		
		256-QAM	-27.04	9.82	10.58	2.51	H		0.062	17.89		
2507.500		PI/2 BPSK	-22.18	14.74	10.55	2.51	V		0.190	22.78	1	1
		QPSK	-22.26	14.66	10.55	2.51	V		0.186	22.70		
		16-QAM	-23.13	13.79	10.55	2.51	V		0.152	21.83		
		64-QAM	-24.64	12.28	10.55	2.51	V		0.108	20.32		
		256-QAM	-26.74	10.18	10.55	2.51	V		0.066	18.22		
2592.990	PI/2 BPSK	-20.05	16.66	11.00	2.55	H	0.324	25.11	1	1		
	QPSK	-20.15	16.56	11.00	2.55	H	0.317	25.01				
	16-QAM	-21.20	15.51	11.00	2.55	H	0.249	23.96				
	64-QAM	-22.58	14.13	11.00	2.55	H	0.181	22.58				
	256-QAM	-24.71	12.00	11.00	2.55	H	0.111	20.45				
2682.480	PI/2 BPSK	-22.89	14.78	10.84	2.61	H	0.200	23.01	1	1		
	QPSK	-23.09	14.58	10.84	2.61	H	0.191	22.81				
	16-QAM	-23.74	13.93	10.84	2.61	H	0.164	22.16				
	64-QAM	-25.30	12.37	10.84	2.61	H	0.115	20.60				
	256-QAM	-27.40	10.27	10.84	2.61	H	0.071	18.50				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2506.020	Sub6 n41(38) / 20 MHz [30 kHz]	PI/2 BPSK	-22.14	14.72	10.58	2.51	H	< 2.00	0.190	22.79	1	49
		QPSK	-22.24	14.62	10.58	2.51	H		0.186	22.69		
		16-QAM	-23.37	13.49	10.58	2.51	H		0.143	21.56		
		64-QAM	-24.65	12.21	10.58	2.51	H		0.107	20.28		
		256-QAM	-26.93	9.93	10.58	2.51	H		0.063	18.00		
2510.010		PI/2 BPSK	-22.14	14.78	10.55	2.51	V		0.191	22.82	1	1
		QPSK	-22.17	14.75	10.55	2.51	V		0.190	22.79		
		16-QAM	-23.12	13.80	10.55	2.51	V		0.153	21.84		
		64-QAM	-24.60	12.32	10.55	2.51	V		0.109	20.36		
		256-QAM	-26.50	10.42	10.55	2.51	V		0.070	18.46		
2592.990		PI/2 BPSK	-20.25	16.46	11.00	2.55	H		0.310	24.91	1	25
		QPSK	-20.39	16.32	11.00	2.55	H		0.300	24.77		
		16-QAM	-21.37	15.34	11.00	2.55	H		0.239	23.79		
		64-QAM	-22.81	13.90	11.00	2.55	H		0.172	22.35		
		256-QAM	-24.78	11.93	11.00	2.55	H		0.109	20.38		
2679.990		PI/2 BPSK	-22.72	14.95	10.84	2.61	H		0.208	23.18	1	1
		QPSK	-22.80	14.87	10.84	2.61	H		0.204	23.10		
		16-QAM	-23.57	14.10	10.84	2.61	H		0.171	22.33		
		64-QAM	-25.22	12.45	10.84	2.61	H		0.117	20.68		
		256-QAM	-27.24	10.43	10.84	2.61	H		0.074	18.66		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2508.510	Sub6 n41(38) / 25 MHz [30 kHz]	PI/2 BPSK	-21.85	15.07	10.55	2.51	H	< 2.00	0.205	23.11	1	63
		QPSK	-21.91	15.01	10.55	2.51	H		0.202	23.05		
		16-QAM	-22.70	14.22	10.55	2.51	H		0.168	22.26		
		64-QAM	-24.25	12.67	10.55	2.51	H		0.118	20.71		
		256-QAM	-26.49	10.43	10.55	2.51	H		0.070	18.47		
2512.500		PI/2 BPSK	-21.66	15.27	10.52	2.53	V		0.212	23.26	1	63
		QPSK	-21.69	15.24	10.52	2.53	V		0.210	23.23		
		16-QAM	-22.65	14.28	10.52	2.53	V		0.169	22.27		
		64-QAM	-24.29	12.64	10.52	2.53	V		0.116	20.63		
		256-QAM	-26.18	10.75	10.52	2.53	V		0.075	18.74		
2592.990		PI/2 BPSK	-20.30	16.41	11.00	2.55	H		0.306	24.86	1	32
		QPSK	-20.33	16.38	11.00	2.55	H		0.304	24.83		
		16-QAM	-21.41	15.30	11.00	2.55	H		0.237	23.75		
		64-QAM	-22.71	14.00	11.00	2.55	H		0.176	22.45		
		256-QAM	-24.67	12.04	11.00	2.55	H		0.112	20.49		
2677.500		PI/2 BPSK	-22.67	15.00	10.84	2.61	H		0.210	23.23	1	1
		QPSK	-22.69	14.98	10.84	2.61	H		0.209	23.21		
		16-QAM	-23.85	13.82	10.84	2.61	H		0.160	22.05		
		64-QAM	-25.20	12.47	10.84	2.61	H		0.118	20.70		
		256-QAM	-27.31	10.36	10.84	2.61	H		0.072	18.59		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2511.000	Sub6 n41(38) / 30 MHz [30 kHz]	PI/2 BPSK	-21.53	15.39	10.55	2.51	H	< 2.00	0.220	23.43	1	76
		QPSK	-21.61	15.31	10.55	2.51	H		0.216	23.35		
		16-QAM	-22.57	14.35	10.55	2.51	H		0.173	22.39		
		64-QAM	-24.22	12.70	10.55	2.51	H		0.119	20.74		
		256-QAM	-26.19	10.73	10.55	2.51	H		0.075	18.77		
2515.020		PI/2 BPSK	-21.34	15.59	10.52	2.53	V		0.228	23.58	1	76
		QPSK	-21.52	15.41	10.52	2.53	V		0.219	23.40		
		16-QAM	-22.36	14.57	10.52	2.53	V		0.180	22.56		
		64-QAM	-24.10	12.83	10.52	2.53	V		0.121	20.82		
		256-QAM	-25.92	11.01	10.52	2.53	V		0.079	19.00		
2592.990		PI/2 BPSK	-20.38	16.33	11.00	2.55	H		0.301	24.78	1	39
		QPSK	-20.45	16.26	11.00	2.55	H		0.296	24.71		
		16-QAM	-21.39	15.32	11.00	2.55	H		0.238	23.77		
		64-QAM	-23.03	13.68	11.00	2.55	H		0.163	22.13		
		256-QAM	-24.88	11.83	11.00	2.55	H		0.107	20.28		
2674.980		PI/2 BPSK	-22.47	14.82	10.85	2.62	H		0.202	23.05	1	1
		QPSK	-22.58	14.71	10.85	2.62	H		0.197	22.94		
		16-QAM	-23.53	13.76	10.85	2.62	H		0.158	21.99		
		64-QAM	-25.04	12.25	10.85	2.62	H		0.112	20.48		
		256-QAM	-27.09	10.20	10.85	2.62	H		0.070	18.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2516.010	Sub6 n41(38) / 40 MHz [30 kHz]	PI/2 BPSK	-21.06	15.87	10.52	2.53	H	< 2.00	0.243	23.86	1	104
		QPSK	-21.16	15.77	10.52	2.53	H		0.238	23.76		
		16-QAM	-22.12	14.81	10.52	2.53	H		0.191	22.80		
		64-QAM	-23.65	13.28	10.52	2.53	H		0.134	21.27		
		256-QAM	-25.65	11.28	10.52	2.53	H		0.085	19.27		
2520.000		PI/2 BPSK	-21.00	15.93	10.49	2.54	V		0.244	23.88	1	104
		QPSK	-21.05	15.88	10.49	2.54	V		0.242	23.83		
		16-QAM	-22.08	14.85	10.49	2.54	V		0.191	22.80		
		64-QAM	-23.63	13.30	10.49	2.54	V		0.133	21.25		
		256-QAM	-25.63	11.30	10.49	2.54	V		0.084	19.25		
2592.990	-20.43	-20.32	16.39	11.00	2.55	H	0.305	24.84	1	53		
	-20.50	-20.40	16.31	11.00	2.55	H	0.299	24.76				
	-21.70	-21.42	15.29	11.00	2.55	H	0.237	23.74				
	-22.96	-22.88	13.83	11.00	2.55	H	0.169	22.28				
	-25.24	-24.89	11.82	11.00	2.55	H	0.106	20.27				
2670.000	PI/2 BPSK	-22.10	14.80	10.87	2.62	H	0.202	23.05	1	1		
	QPSK	-22.11	14.79	10.87	2.62	H	0.201	23.04				
	16-QAM	-23.16	13.74	10.87	2.62	H	0.158	21.99				
	64-QAM	-24.59	12.31	10.87	2.62	H	0.114	20.56				
	256-QAM	-26.45	10.45	10.87	2.62	H	0.074	18.70				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-20.93	16.00	10.49	2.54	H	< 2.00	0.248	23.95	1	131
		QPSK	-20.99	15.94	10.49	2.54	H		0.245	23.89		
		16-QAM	-21.99	14.94	10.49	2.54	H		0.195	22.89		
		64-QAM	-23.47	13.46	10.49	2.54	H		0.138	21.41		
		256-QAM	-25.33	11.60	10.49	2.54	H		0.090	19.55		
2525.010		PI/2 BPSK	-20.43	16.20	10.52	2.54	V		0.262	24.18	1	131
		QPSK	-20.58	16.05	10.52	2.54	V		0.253	24.03		
		16-QAM	-21.51	15.12	10.52	2.54	V		0.204	23.10		
		64-QAM	-23.12	13.51	10.52	2.54	V		0.141	21.49		
		256-QAM	-25.15	11.48	10.52	2.54	V		0.088	19.46		
2592.990		-20.43	-20.47	16.24	11.00	2.55	H		0.294	24.69	1	66
		-20.50	-20.53	16.18	11.00	2.55	H		0.290	24.63		
		-21.70	-21.46	15.25	11.00	2.55	H		0.234	23.70		
		-22.96	-22.85	13.86	11.00	2.55	H		0.170	22.31		
		-25.24	-24.96	11.75	11.00	2.55	H		0.105	20.20		
2664.990		PI/2 BPSK	-22.19	14.76	10.88	2.64	H		0.200	23.00	1	1
		QPSK	-22.22	14.73	10.88	2.64	H		0.198	22.97		
		16-QAM	-23.16	13.79	10.88	2.64	H		0.160	22.03		
		64-QAM	-24.77	12.18	10.88	2.64	H		0.110	20.42		
		256-QAM	-26.48	10.47	10.88	2.64	H		0.074	18.71		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-20.93	15.70	10.52	2.54	H	< 2.00	0.233	23.68	1	160
		QPSK	-21.12	15.51	10.52	2.54	H		0.223	23.49		
		16-QAM	-21.76	14.87	10.52	2.54	H		0.193	22.85		
		64-QAM	-23.38	13.25	10.52	2.54	H		0.133	21.23		
		256-QAM	-25.38	11.25	10.52	2.54	H		0.084	19.23		
2530.020		PI/2 BPSK	-20.24	16.09	10.56	2.54	V		0.258	24.11	1	160
		QPSK	-20.25	16.08	10.56	2.54	V		0.257	24.10		
		16-QAM	-21.49	14.84	10.56	2.54	V		0.193	22.86		
		64-QAM	-22.77	13.56	10.56	2.54	V		0.144	21.58		
		256-QAM	-24.90	11.43	10.56	2.54	V		0.088	19.45		
2592.990		PI/2 BPSK	-20.33	16.38	11.00	2.55	H		0.304	24.83	1	82
		QPSK	-20.35	16.36	11.00	2.55	H		0.303	24.81		
		16-QAM	-21.31	15.40	11.00	2.55	H		0.243	23.85		
		64-QAM	-22.98	13.73	11.00	2.55	H		0.165	22.18		
		256-QAM	-24.81	11.90	11.00	2.55	H		0.108	20.35		
2659.980		PI/2 BPSK	-21.51	15.50	10.90	2.67	H		0.236	23.73	1	1
		QPSK	-21.69	15.32	10.90	2.67	H		0.227	23.55		
		16-QAM	-22.39	14.62	10.90	2.67	H		0.193	22.85		
		64-QAM	-24.16	12.85	10.90	2.67	H		0.128	21.08		
		256-QAM	-26.00	11.01	10.90	2.67	H		0.084	19.24		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-20.38	15.95	10.56	2.54	H	< 2.00	0.250	23.97	1	187
		QPSK	-20.39	15.94	10.56	2.54	H		0.249	23.96		
		16-QAM	-21.45	14.88	10.56	2.54	H		0.195	22.90		
		64-QAM	-23.03	13.30	10.56	2.54	H		0.136	21.32		
		256-QAM	-24.99	11.34	10.56	2.54	H		0.086	19.36		
2535.000		PI/2 BPSK	-20.47	15.99	10.59	2.54	V		0.254	24.04	1	187
		QPSK	-20.59	15.87	10.59	2.54	V		0.247	23.92		
		16-QAM	-21.55	14.91	10.59	2.54	V		0.198	22.96		
		64-QAM	-23.13	13.33	10.59	2.54	V		0.137	21.38		
		256-QAM	-25.06	11.40	10.59	2.54	V		0.088	19.45		
2592.990		PI/2 BPSK	-20.36	16.35	11.00	2.55	H		0.302	24.80	1	94
		QPSK	-20.38	16.33	11.00	2.55	H		0.301	24.78		
		16-QAM	-21.21	15.50	11.00	2.55	H		0.248	23.95		
		64-QAM	-23.01	13.70	11.00	2.55	H		0.164	22.15		
		256-QAM	-24.90	11.81	11.00	2.55	H		0.106	20.26		
2655.000		PI/2 BPSK	-20.73	16.18	10.91	2.68	H		0.276	24.41	1	1
		QPSK	-20.83	16.08	10.91	2.68	H		0.270	24.31		
		16-QAM	-21.75	15.16	10.91	2.68	H		0.218	23.39		
		64-QAM	-23.42	13.49	10.91	2.68	H		0.149	21.72		
		256-QAM	-25.36	11.55	10.91	2.68	H		0.095	19.78		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-20.80	15.66	10.59	2.54	H	< 2.00	0.235	23.71	1	108
		QPSK	-21.01	15.45	10.59	2.54	H		0.224	23.50		
		16-QAM	-21.92	14.54	10.59	2.54	H		0.182	22.59		
		64-QAM	-23.37	13.09	10.59	2.54	H		0.130	21.14		
		256-QAM	-25.50	10.96	10.59	2.54	H		0.080	19.01		
2540.010		PI/2 BPSK	-20.44	16.14	10.62	2.53	V		0.265	24.23	1	215
		QPSK	-20.55	16.03	10.62	2.53	V		0.258	24.12		
		16-QAM	-21.61	14.97	10.62	2.53	V		0.202	23.06		
		64-QAM	-23.09	13.49	10.62	2.53	V		0.144	21.58		
		256-QAM	-25.04	11.54	10.62	2.53	V		0.092	19.63		
2592.990		PI/2 BPSK	-20.31	16.40	11.00	2.55	H		0.306	24.85	1	108
		QPSK	-20.47	16.24	11.00	2.55	H		0.294	24.69		
		16-QAM	-21.45	15.26	11.00	2.55	H		0.235	23.71		
		64-QAM	-22.93	13.78	11.00	2.55	H		0.167	22.23		
		256-QAM	-24.84	11.87	11.00	2.55	H		0.108	20.32		
2649.990		PI/2 BPSK	-20.81	15.98	10.93	2.69	H		0.264	24.22	1	1
		QPSK	-20.84	15.95	10.93	2.69	H		0.262	24.19		
		16-QAM	-21.66	15.13	10.93	2.69	H		0.217	23.37		
		64-QAM	-23.12	13.67	10.93	2.69	H		0.155	21.91		
		256-QAM	-25.50	11.29	10.93	2.69	H		0.090	19.53		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-20.82	15.76	10.62	2.53	H	< 2.00	0.243	23.85	1	122
		QPSK	-21.05	15.53	10.62	2.53	H		0.230	23.62		
		16-QAM	-21.77	14.81	10.62	2.53	H		0.195	22.90		
		64-QAM	-23.57	13.01	10.62	2.53	H		0.129	21.10		
		256-QAM	-25.78	10.80	10.62	2.53	H		0.077	18.89		
2545.020		PI/2 BPSK	-20.42	16.13	10.66	2.53	V		0.267	24.26	1	243
		QPSK	-20.57	15.98	10.66	2.53	V		0.258	24.11		
		16-QAM	-21.43	15.12	10.66	2.53	V		0.211	23.25		
		64-QAM	-22.77	13.78	10.66	2.53	V		0.155	21.91		
		256-QAM	-24.82	11.73	10.66	2.53	V		0.097	19.86		
2592.990		PI/2 BPSK	-20.32	16.39	11.00	2.55	H		0.305	24.84	1	122
		QPSK	-20.64	16.07	11.00	2.55	H		0.283	24.52		
		16-QAM	-21.14	15.57	11.00	2.55	H		0.252	24.02		
		64-QAM	-22.94	13.77	11.00	2.55	H		0.167	22.22		
		256-QAM	-25.05	11.66	11.00	2.55	H		0.103	20.11		
2644.980		PI/2 BPSK	-20.57	16.54	10.95	2.68	H		0.303	24.81	1	1
		QPSK	-20.66	16.45	10.95	2.68	H		0.297	24.72		
		16-QAM	-21.46	15.65	10.95	2.68	H		0.247	23.92		
		64-QAM	-23.28	13.83	10.95	2.68	H		0.162	22.10		
		256-QAM	-25.21	11.90	10.95	2.68	H		0.104	20.17		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-20.58	15.97	10.66	2.53	H	< 2.00	0.257	24.10	1	271
		QPSK	-20.60	15.95	10.66	2.53	H		0.256	24.08		
		16-QAM	-21.56	14.99	10.66	2.53	H		0.205	23.12		
		64-QAM	-22.96	13.59	10.66	2.53	H		0.149	21.72		
		256-QAM	-25.07	11.48	10.66	2.53	H		0.091	19.61		
2550.000		PI/2 BPSK	-20.33	16.20	10.69	2.53	V		0.273	24.36	1	136
		QPSK	-20.45	16.08	10.69	2.53	V		0.266	24.24		
		16-QAM	-21.34	15.19	10.69	2.53	V		0.216	23.35		
		64-QAM	-23.00	13.53	10.69	2.53	V		0.148	21.69		
		256-QAM	-24.95	11.58	10.69	2.53	V		0.094	19.74		
2592.990		PI/2 BPSK	-20.33	16.38	11.00	2.55	H		0.304	24.83	1	136
		QPSK	-20.37	16.34	11.00	2.55	H		0.301	24.79		
		16-QAM	-21.17	15.54	11.00	2.55	H		0.251	23.99		
		64-QAM	-22.61	14.10	11.00	2.55	H		0.180	22.55		
		256-QAM	-24.66	12.05	11.00	2.55	H		0.112	20.50		
2640.000		PI/2 BPSK	-20.35	17.09	10.96	2.68	H		0.344	25.37	1	1
		QPSK	-20.48	16.96	10.96	2.68	H		0.334	25.24		
		16-QAM	-21.56	15.88	10.96	2.68	H		0.261	24.16		
		64-QAM	-23.11	14.33	10.96	2.68	H		0.182	22.61		
		256-QAM	-24.93	12.51	10.96	2.68	H		0.120	20.79		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>n41(38)</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	-61.23	11.22	-62.94	3.71	H	-55.43	-25.00	1	12
	7 503.03	-47.63	11.54	-40.20	4.60	H	-33.26	-25.00		
	10 004.04	-62.30	11.47	-52.90	5.47	H	-46.90	-25.00		
501000 (2505.000)	5 010.00	-61.98	11.18	-63.12	3.72	H	-55.66	-25.00	1	1
	7 515.00	-54.97	11.56	-47.39	4.60	H	-40.43	-25.00		
	10 020.00	-62.99	11.46	-53.31	5.47	H	-47.32	-25.00		
518598 (2592.990)	5 185.98	-61.13	11.61	-62.30	3.80	V	-54.49	-25.00	1	22
	7 778.97	-46.88	11.26	-39.81	4.70	H	-33.25	-25.00		
	10 371.96	-63.99	11.68	-52.90	5.55	V	-46.77	-25.00		
537000 (2685.000)	5 370.00	-53.91	11.96	-55.54	3.92	H	-47.50	-25.00	1	12
	8 055.00	-47.03	11.24	-39.75	4.81	H	-33.32	-25.00		
	10 740.00	-63.09	11.55	-51.07	5.64	H	-45.16	-25.00		

■ NR Band: n41(38)
 ■ 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	-61.20	11.20	-62.63	3.71	H	-55.14	-25.00	1	1
	7 510.50	-48.95	11.55	-41.41	4.60	H	-34.46	-25.00		
	10 014.00	-62.78	11.46	-53.39	5.47	H	-47.40	-25.00		
501504 (2507.500)	5 015.00	-59.83	11.17	-60.75	3.70	H	-53.28	-25.00	1	1
	7 522.50	-54.28	11.57	-46.63	4.61	H	-39.67	-25.00		
	10 030.00	-61.95	11.45	-52.91	5.47	H	-46.93	-25.00		
518598 (2592.990)	5 185.98	-61.08	11.61	-62.25	3.80	H	-54.44	-25.00	1	1
	7 778.97	-49.50	11.26	-42.43	4.70	H	-35.87	-25.00		
	10 371.96	-63.10	11.68	-52.01	5.55	H	-45.88	-25.00		
536496 (2682.480)	5 364.96	-54.19	11.95	-55.71	3.91	H	-47.67	-25.00	1	1
	8 047.44	-44.82	11.23	-37.60	4.81	H	-31.18	-25.00		
	10 729.92	-62.62	11.56	-50.55	5.65	H	-44.64	-25.00		

☐ NR Band: n41(38)
☐ 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	-62.20	11.18	-63.34	3.72	H	-55.88	-25.00	1	49
	7 518.06	-49.46	11.56	-41.82	4.61	H	-34.87	-25.00		
	10 024.08	-62.99	11.46	-53.64	5.47	H	-47.65	-25.00		
502002 (2510.010)	5 020.02	-61.93	11.17	-62.63	3.69	H	-55.15	-25.00	1	1
	7 530.03	-54.21	11.57	-46.55	4.60	H	-39.58	-25.00		
	10 040.04	-62.49	11.44	-53.03	5.49	H	-47.08	-25.00		
518598 (2592.990)	5 185.98	-61.55	11.61	-62.72	3.80	H	-54.91	-25.00	1	25
	7 778.97	-48.88	11.26	-41.81	4.70	H	-35.25	-25.00		
	10 371.96	-62.09	11.68	-51.00	5.55	H	-44.87	-25.00		
535998 (2679.990)	5 359.98	-54.24	11.95	-55.67	3.90	H	-47.62	-25.00	1	1
	8 039.97	-45.01	11.22	-37.70	4.80	H	-31.28	-25.00		
	10 719.96	-63.87	11.56	-52.22	5.64	H	-46.30	-25.00		

☐ NR Band: n41(38)
☐ Bandwidth: 25 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
501702 (2508.510)	5 017.02	-61.74	11.17	-62.66	3.70	H	-55.19	-25.00	1	63
	7 525.53	-48.20	11.57	-40.55	4.61	H	-33.59	-25.00		
	10 034.04	-63.92	11.45	-54.68	5.48	H	-48.71	-25.00		
502500 (2512.500)	5 025.00	-60.20	11.18	-60.97	3.68	H	-53.47	-25.00	1	63
	7 537.50	-53.55	11.58	-46.02	4.61	H	-39.05	-25.00		
	10 050.00	-60.78	11.43	-51.58	5.48	H	-45.63	-25.00		
518598 (2592.990)	5 185.98	-61.86	11.61	-63.03	3.80	H	-55.22	-25.00	1	32
	7 778.97	-49.10	11.26	-42.03	4.70	H	-35.47	-25.00		
	10 371.96	-61.76	11.68	-50.67	5.55	H	-44.54	-25.00		
535500 (2677.500)	5 355.00	-54.03	11.94	-55.58	3.88	H	-47.52	-25.00	1	1
	8 032.50	-44.24	11.21	-36.95	4.80	H	-30.54	-25.00		
	10 710.00	-63.44	11.57	-51.72	5.65	H	-45.80	-25.00		

☐ NR Band: n41(38)
☐ 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	-62.06	11.17	-62.76	3.69	H	-55.28	-25.00	1	76
	7 533.00	-47.25	11.57	-39.65	4.61	H	-32.69	-25.00		
	10 044.00	-63.14	11.44	-53.82	5.48	H	-47.86	-25.00		
503004 (2515.020)	5 030.04	-60.99	11.19	-61.83	3.67	H	-54.31	-25.00	1	76
	7 545.06	-53.11	11.58	-45.65	4.62	H	-38.69	-25.00		
	10 060.08	-62.04	11.42	-52.92	5.48	H	-46.98	-25.00		
518598 (2592.990)	5 185.98	-61.56	11.61	-62.73	3.80	H	-54.92	-25.00	1	39
	7 778.97	-46.37	11.26	-39.30	4.70	H	-32.74	-25.00		
	10 371.96	-63.44	11.68	-52.35	5.55	H	-46.22	-25.00		
534996 (2674.980)	5 349.96	-55.07	11.94	-56.76	3.85	H	-48.67	-25.00	1	1
	8 024.94	-44.80	11.20	-37.55	4.79	H	-31.14	-25.00		
	10 699.92	-63.62	11.57	-51.62	5.67	H	-45.72	-25.00		

☐ NR Band: n41(38)
☐ 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	-62.15	11.19	-62.99	3.67	H	-55.47	-25.00	1	104
	7 548.03	-45.74	11.59	-38.37	4.63	H	-31.41	-25.00		
	10 064.04	-63.31	11.42	-54.09	5.47	H	-48.14	-25.00		
504000 (2520.000)	5 040.00	-61.55	11.20	-62.59	3.68	H	-55.07	-25.00	1	104
	7 560.00	-52.92	11.60	-45.38	4.64	H	-38.42	-25.00		
	10 080.00	-61.77	11.41	-52.76	5.47	H	-46.82	-25.00		
518598 (2592.990)	5 185.98	-61.12	11.61	-62.29	3.80	H	-54.48	-25.00	1	53
	7 778.97	-45.88	11.26	-38.81	4.70	H	-32.25	-25.00		
	10 371.96	-62.11	11.68	-51.02	5.55	H	-44.89	-25.00		
534000 (2670.000)	5 340.00	-55.78	11.93	-57.76	3.80	H	-49.63	-25.00	1	1
	8 010.00	-43.86	11.17	-36.54	4.77	H	-30.14	-25.00		
	10 680.00	-62.30	11.57	-49.72	5.71	H	-43.86	-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	-61.22	11.20	-62.26	3.68	H	-54.74	-25.00	1	131
	7 563.06	-44.62	11.60	-37.09	4.64	H	-30.13	-25.00		
	10 084.08	-63.04	11.40	-53.81	5.46	H	-47.87	-25.00		
505002 (2525.010)	5 050.02	-60.04	11.22	-61.51	3.73	H	-54.02	-25.00	1	131
	7 575.03	-53.80	11.61	-46.21	4.65	H	-39.25	-25.00		
	10 100.04	-63.39	11.39	-53.97	5.46	H	-48.04	-25.00		
518598 (2592.990)	5 185.98	-61.20	11.61	-62.37	3.80	H	-54.56	-25.00	1	66
	7 778.97	-46.31	11.26	-39.24	4.70	H	-32.68	-25.00		
	10 371.96	-63.12	11.68	-52.03	5.55	H	-45.90	-25.00		
532998 (2664.990)	5 329.98	-56.39	11.92	-58.12	3.77	H	-49.97	-25.00	1	1
	7 994.97	-43.95	11.13	-36.40	4.77	H	-30.04	-25.00		
	10 659.96	-62.20	11.58	-49.80	5.67	H	-43.89	-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	-61.56	11.22	-63.03	3.73	H	-55.54	-25.00	1	160
	7 578.00	-44.62	11.61	-36.96	4.65	H	-30.00	-25.00		
	10 104.00	-63.29	11.39	-53.73	5.46	H	-47.80	-25.00		
506004 (2530.020)	5 060.04	-61.00	11.24	-62.37	3.78	H	-54.91	-25.00	1	160
	7 590.06	-53.37	11.62	-46.01	4.64	H	-39.03	-25.00		
	10 120.08	-62.15	11.38	-52.27	5.47	H	-46.36	-25.00		
518598 (2592.990)	5 185.98	-60.67	11.61	-61.84	3.80	H	-54.03	-25.00	1	82
	7 778.97	-46.17	11.26	-39.10	4.70	H	-32.54	-25.00		
	10 371.96	-62.96	11.68	-51.87	5.55	H	-45.74	-25.00		
531996 (2659.980)	5 319.96	-56.84	11.91	-58.39	3.79	H	-50.27	-25.00	1	1
	7 979.94	-44.16	11.10	-36.46	4.79	H	-30.15	-25.00		
	10 639.92	-62.32	11.58	-49.94	5.61	H	-43.97	-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	-59.98	11.24	-61.35	3.78	H	-53.89	-25.00	1	187
	7 593.03	-44.27	11.62	-36.99	4.64	H	-30.01	-25.00		
	10 124.04	-62.57	11.37	-52.88	5.47	H	-46.98	-25.00		
507000 (2535.000)	5 070.00	-59.95	11.25	-61.11	3.80	H	-53.66	-25.00	1	187
	7 605.00	-52.77	11.60	-45.72	4.64	H	-38.76	-25.00		
	10 140.00	-60.87	11.36	-50.93	5.48	H	-45.05	-25.00		
518598 (2592.990)	5 185.98	-60.56	11.61	-61.73	3.80	H	-53.92	-25.00	1	94
	7 778.97	-47.13	11.26	-40.06	4.70	H	-33.50	-25.00		
	10 371.96	-62.01	11.68	-50.92	5.55	H	-44.79	-25.00		
531000 (2655.000)	5 310.00	-57.02	11.91	-58.13	3.82	H	-50.04	-25.00	1	1
	7 965.00	-44.08	11.07	-36.26	4.80	H	-29.99	-25.00		
	10 620.00	-63.05	11.58	-51.01	5.65	H	-45.08	-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	-61.52	11.25	-62.68	3.80	H	-55.23	-25.00	1	108
	7 608.06	-44.16	11.60	-37.28	4.64	H	-30.32	-25.00		
	10 144.08	-62.34	11.36	-52.73	5.48	H	-46.85	-25.00		
508002 (2540.010)	5 080.02	-60.54	11.27	-61.34	3.81	H	-53.88	-25.00	1	215
	7 620.03	-53.30	11.58	-46.42	4.65	H	-39.49	-25.00		
	10 160.04	-61.59	11.35	-51.47	5.49	H	-45.61	-25.00		
518598 (2592.990)	5 185.98	-60.88	11.61	-62.05	3.80	H	-54.24	-25.00	1	108
	7 778.97	-47.33	11.26	-40.26	4.70	H	-33.70	-25.00		
	10 371.96	-62.34	11.68	-51.25	5.55	H	-45.12	-25.00		
529998 (2649.990)	5 299.98	-56.72	11.90	-58.22	3.83	H	-50.15	-25.00	1	1
	7 949.97	-44.00	11.03	-36.35	4.78	H	-30.10	-25.00		
	10 599.96	-63.22	11.58	-51.93	5.67	H	-46.02	-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	-60.84	11.27	-61.64	3.81	H	-54.18	-25.00	1	122
	7 623.00	-44.96	11.57	-38.02	4.65	H	-31.10	-25.00		
	10 164.00	-62.66	11.34	-52.80	5.50	H	-46.96	-25.00		
509004 (2545.020)	5 090.04	-61.05	11.29	-61.93	3.78	H	-54.42	-25.00	1	243
	7 635.06	-52.00	11.55	-45.01	4.67	H	-38.13	-25.00		
	10 180.08	-61.29	11.35	-50.98	5.51	H	-45.14	-25.00		
518598 (2592.990)	5 185.98	-61.80	11.61	-62.97	3.80	H	-55.16	-25.00	1	122
	7 778.97	-46.95	11.26	-39.88	4.70	H	-33.32	-25.00		
	10 371.96	-62.00	11.68	-50.91	5.55	H	-44.78	-25.00		
528996 (2644.980)	5 289.96	-56.85	11.89	-58.43	3.83	H	-50.37	-25.00	1	1
	7 934.94	-45.44	11.01	-38.06	4.77	H	-31.82	-25.00		
	10 579.92	-61.59	11.62	-50.44	5.65	H	-44.47	-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	-61.87	11.29	-62.75	3.78	H	-55.24	-25.00	1	271
	7 638.03	-44.37	11.54	-37.40	4.68	H	-30.54	-25.00		
	10 184.04	-62.69	11.35	-52.65	5.52	H	-46.82	-25.00		
510000 (2550.000)	5 100.00	-60.96	11.31	-62.15	3.78	H	-54.62	-25.00	1	136
	7 650.00	-51.86	11.52	-44.73	4.68	H	-37.89	-25.00		
	10 200.00	-62.07	11.38	-51.91	5.54	H	-46.07	-25.00		
518598 (2592.990)	5 185.98	-59.68	11.61	-60.85	3.80	H	-53.04	-25.00	1	136
	7 778.97	-46.19	11.26	-39.12	4.70	H	-32.56	-25.00		
	10 371.96	-63.20	11.68	-52.11	5.55	H	-45.98	-25.00		
528000 (2640.000)	5 280.00	-56.61	11.88	-58.64	3.80	H	-50.56	-25.00	1	1
	7 920.00	-47.78	11.02	-40.36	4.77	H	-34.11	-25.00		
	10 560.00	-62.95	11.65	-52.01	5.63	H	-45.99	-25.00		

9.3 PEAK-TO-AVERAGE RATIO

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41(38) / 10 MHz	2592.990	BPSK	24	0	5.79
		QPSK			6.12
		16-QAM			6.77
		64-QAM			6.90
		256-QAM			6.77
Sub6 n41(38) / 15 MHz		BPSK	36		4.60
		QPSK			5.90
		16-QAM			6.63
		64-QAM			6.84
		256-QAM			6.98
Sub6 n41(38) / 20 MHz		BPSK	50		5.69
		QPSK			6.00
		16-QAM			6.58
		64-QAM			6.82
		256-QAM			6.90
Sub6 n41(38) / 25 MHz		BPSK	64		5.22
		QPSK			5.99
		16-QAM			6.76
		64-QAM			6.87
		256-QAM			6.93
Sub6 n41(38) / 30 MHz	BPSK	75	4.74		
	QPSK		5.98		
	16-QAM		6.77		
	64-QAM		6.86		
	256-QAM		6.97		
Sub6 n41(38) / 40 MHz	BPSK	100	5.20		
	QPSK		6.02		
	16-QAM		6.66		
	64-QAM		6.87		
	256-QAM		6.94		

Sub6 n41 / 50 MHz	BPSK	128	4.61
	QPSK		5.90
	16-QAM		6.70
	64-QAM		6.82
	256-QAM		6.86
Sub6 n41 / 60 MHz	BPSK	162	5.85
	QPSK		6.10
	16-QAM		6.63
	64-QAM		6.85
	256-QAM		6.89
Sub6 n41 / 70 MHz	BPSK	180	5.39
	QPSK		5.90
	16-QAM		6.65
	64-QAM		6.79
	256-QAM		6.89
Sub6 n41 / 80 MHz	BPSK	216	4.57
	QPSK		5.90
	16-QAM		6.70
	64-QAM		6.82
	256-QAM		6.92
Sub6 n41 / 90 MHz	BPSK	243	6.05
	QPSK		6.25
	16-QAM		6.68
	64-QAM		6.79
	256-QAM		6.99
Sub6 n41 / 100 MHz	BPSK	270	4.59
	QPSK		5.85
	16-QAM		6.71
	64-QAM		6.81
	256-QAM		6.94

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 227 ~ 286.

9.4 OCCUPIED BANDWIDTH

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41(38) / 10 MHz	2592.990	BPSK	24	0	8.7014
		QPSK			8.6925
		16-QAM			8.7227
		64-QAM			8.7006
		256-QAM			8.6700
Sub6 n41(38) / 15 MHz		BPSK	36		12.986
		QPSK			12.955
		16-QAM			12.965
		64-QAM			13.009
		256-QAM			13.001
Sub6 n41(38) / 20 MHz		BPSK	50		17.981
		QPSK			18.008
		16-QAM			17.929
		64-QAM			17.936
		256-QAM			17.974
Sub6 n41(38) / 25 MHz		BPSK	64		23.051
		QPSK			23.023
		16-QAM			23.030
		64-QAM			23.021
		256-QAM			23.016
Sub6 n41(38) / 30 MHz		BPSK	75		26.956
		QPSK			26.946
		16-QAM			26.943
		64-QAM			26.978
		256-QAM			26.941
Sub6 n41(38) / 40 MHz		BPSK	100		35.987
		QPSK			35.965
		16-QAM			35.955
		64-QAM			35.965
		256-QAM			35.817

Sub6 n41 / 50 MHz	BPSK	128	45.960
	QPSK		46.020
	16-QAM		46.070
	64-QAM		45.822
	256-QAM		46.242
Sub6 n41 / 60 MHz	BPSK	162	58.420
	QPSK		58.205
	16-QAM		58.152
	64-QAM		58.177
	256-QAM		58.244
Sub6 n41 / 70 MHz	BPSK	180	64.915
	QPSK		64.732
	16-QAM		64.845
	64-QAM		64.839
	256-QAM		65.085
Sub6 n41 / 80 MHz	BPSK	216	77.467
	QPSK		77.512
	16-QAM		77.427
	64-QAM		77.426
	256-QAM		77.596
Sub6 n41 / 90 MHz	BPSK	243	87.335
	QPSK		87.135
	16-QAM		87.140
	64-QAM		87.241
	256-QAM		87.247
Sub6 n41 / 100 MHz	BPSK	270	96.877
	QPSK		96.819
	16-QAM		96.555
	64-QAM		96.824
	256-QAM		96.851

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 287 ~ 346.

9.5 CONDUCTED SPURIOUS EMISSIONS

Band / Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Detector	Limit (dBm)
Sub 6 n41(38) / 10	2501.010	9.6909	30.315	-63.904	-33.589	Peak	-25.00
	2505.000	4.7558	29.722	-63.989	-34.267	Peak	
	2592.990	7.2184	30.315	-64.245	-33.930	Peak	
	2685.000	4.9851	29.722	-62.995	-33.273	Peak	
Sub 6 n41(38) / 15	2503.500	4.8156	29.722	-62.433	-32.711	Peak	
	2507.520	3.6790	29.722	-63.571	-33.849	Peak	
	2592.990	4.8056	29.722	-62.711	-32.989	Peak	
	2682.480	4.9851	29.722	-62.942	-33.220	Peak	
Sub 6 n41(38) / 20	2506.020	3.9283	29.722	-63.486	-33.764	Peak	
	2510.010	3.6890	29.722	-62.918	-33.196	Peak	
	2592.990	4.7957	29.722	-63.543	-33.821	Peak	
	2679.990	3.6591	29.722	-63.374	-33.652	Peak	
Sub 6 n41(38) / 25	2508.510	7.8465	30.315	-63.957	-33.642	Peak	
	2512.500	9.0130	30.315	-63.535	-33.220	Peak	
	2592.990	8.8335	30.315	-63.661	-33.346	Peak	
	2677.500	9.8903	30.315	-63.637	-33.322	Peak	
Sub 6 n41(38) / 30	2511.000	7.2483	30.315	-63.454	-33.139	Peak	
	2515.020	5.0349	30.315	-62.932	-32.617	Peak	
	2592.990	4.7658	29.722	-62.863	-33.141	Peak	
	2674.980	9.8804	30.315	-63.436	-33.121	Peak	
Sub 6 n41(38) / 40	2516.010	5.9721	30.315	-63.548	-33.233	Peak	
	2520.000	3.8984	29.722	-63.261	-33.539	Peak	
	2592.990	4.7857	29.722	-62.146	-32.424	Peak	
	2670.000	3.9183	29.722	-63.490	-33.768	Peak	
Sub 6 n41 / 50	2521.020	9.0329	30.315	-63.161	-32.846	Peak	
	2525.010	3.9482	29.722	-63.370	-33.648	Peak	
	2592.990	3.5095	29.722	-63.299	-33.577	Peak	
	2664.990	2.7354	36.712	-64.930	-28.218	Average	
Sub 6 n41 / 60	2526.000	3.2304	29.722	-62.808	-33.086	Peak	
	2530.020	4.8056	29.722	-63.113	-33.391	Peak	
	2592.990	2.8814	29.722	-63.002	-33.280	Peak	
	2659.980	2.7458	36.712	-69.000	-32.288	Average	
Sub 6 n41 / 70	2531.010	3.0709	29.722	-63.370	-33.648	Peak	
	2535.000	3.9283	29.722	-63.310	-33.588	Peak	
	2592.990	3.1307	29.722	-62.851	-33.129	Peak	
	2655.000	2.7553	36.712	-77.955	-41.243	Average	
Sub 6 n41 / 80	2536.020	4.8455	29.722	-63.281	-33.559	Peak	
	2540.010	5.0150	30.315	-62.874	-32.559	Peak	
	2592.990	3.1506	29.722	-62.756	-33.034	Peak	
	2649.990	4.9851	29.722	-63.158	-33.436	Peak	
Sub 6 n41 / 90	2541.000	3.2005	29.722	-63.318	-33.596	Peak	
	2545.020	4.9751	29.722	-63.472	-33.750	Peak	
	2592.990	2.7234	36.712	-66.281	-29.569	Average	
	2644.980	4.7857	29.722	-63.885	-34.163	Peak	
Sub 6 n41 / 100	2546.010	4.7857	29.722	-62.146	-32.424	Peak	
	2550.000	5.7628	30.315	-63.740	-33.425	Peak	
	2592.990	2.7388	36.712	-67.669	-30.957	Average	
	2640.000	2.7319	29.722	-63.050	-33.328	Peak	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 347 ~ 442.

2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)

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

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	29.722
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

4. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.99

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

- Result(dBm) = Reading + Factor

5. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.002
1 – 5	36.712
5 – 10	37.305
10 – 15	37.830
15 – 20	38.203
Above 20	38.845

9.6 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	-21.16	-21.27	-23.74	-23.46	-29.29	-27.59	-36.34
15	2503.500	BPSK	Full RB	-21.98	-27.55	-26.62	-27.53	-31.83	-27.56	-38.39
20	2506.020	BPSK	Full RB	-23.29	-25.66	-26.03	-22.91	-29.45	-26.76	-36.26
25	2508.510	BPSK	Full RB	-22.26	-25.01	-25.67	-27.25	-29.96	-27.32	-38.02
30	2511.000	BPSK	Full RB	-24.28	-29.12	-29.49	-28.22	-31.48	-28.01	-39.83
40	2516.010	BPSK	Full RB	-22.01	-26.64	-25.41	-25.86	-26.71	-25.71	-38.82
50	2521.020	BPSK	Full RB	-20.42	-24.62	-25.56	-25.99	-30.03	-26.71	-37.24
60	2526.000	BPSK	Full RB	-14.36	-15.11	-22.30	-21.88	-27.14	-24.60	-36.01
70	2531.010	BPSK	Full RB	-19.01	-25.26	-22.91	-25.72	-27.22	-24.84	-36.93
80	2536.020	BPSK	Full RB	-18.09	-20.30	-21.54	-22.76	-27.56	-25.65	-37.94
90	2541.000	BPSK	Full RB	-18.97	-24.68	-24.99	-26.63	-28.34	-27.28	-35.20
100	2546.010	BPSK	Full RB	-18.89	-24.93	-25.28	-26.89	-29.01	-27.44	-40.14
Limit (dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

BW	Test. Frequency (MHz)	Modulat ion	RB Size	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	2505.000	BPSK	Full RB	-21.07	-20.54	-30.38	-23.31	-38.82	-27.87	-37.91
15	2507.520	BPSK	Full RB	-22.15	-28.11	-30.56	-26.45	-33.49	-26.67	-37.58
20	2510.010	BPSK	Full RB	-24.12	-25.07	-31.58	-26.48	-32.50	-27.58	-40.16
25	2512.500	BPSK	Full RB	-23.09	-24.63	-30.98	-25.48	-30.88	-27.33	-38.53
30	2515.020	BPSK	Full RB	-24.43	-27.39	-29.89	-26.44	-30.38	-26.76	-39.52
40	2520.000	BPSK	Full RB	-22.37	-29.51	-31.06	-29.20	-30.58	-27.68	-40.23
50	2525.010	BPSK	Full RB	-20.85	-26.33	-27.00	-27.88	-28.81	-27.34	-38.76
60	2530.020	BPSK	Full RB	-15.64	-17.09	-28.71	-23.73	-31.29	-27.38	-39.47
70	2535.000	BPSK	Full RB	-19.96	-27.14	-28.01	-27.65	-29.68	-26.91	-39.15
80	2540.010	BPSK	Full RB	-19.16	-23.36	-27.97	-26.06	-29.78	-27.31	-38.63
90	2545.020	BPSK	Full RB	-19.24	-24.58	-25.98	-26.66	-26.90	-27.74	-37.99
100	2550.000	BPSK	Full RB	-18.47	-24.92	-29.33	-27.30	-30.70	-27.62	-41.36
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	-20.33	-21.17	-23.67	-22.92
	2685.000	BPSK	Full RB	0	-20.86	-21.72	-23.76	-23.85
15 MHz	2592.990	BPSK	Full RB	0	-20.83	-27.10	-24.16	-23.08
	2682.480	BPSK	Full RB	0	-20.79	-27.02	-24.51	-24.99
20 MHz	2592.990	BPSK	Full RB	0	-21.95	-24.55	-25.20	-24.14
	2679.990	BPSK	Full RB	0	-22.08	-25.98	-24.94	-25.63
25 MHz	2592.990	BPSK	Full RB	0	-21.72	-23.73	-25.46	-24.76
	2677.500	BPSK	Full RB	0	-20.97	-23.58	-23.86	-23.78
30 MHz	2592.990	BPSK	Full RB	0	-22.97	-27.06	-26.43	-26.82
	2674.980	BPSK	Full RB	0	-22.05	-25.45	-25.04	-24.26
40 MHz	2592.990	BPSK	Full RB	0	-21.16	-25.95	-25.68	-25.31
	2670.000	BPSK	Full RB	0	-20.82	-24.90	-24.46	-24.92
50 MHz	2592.990	BPSK	Full RB	0	-19.38	-24.20	-24.49	-25.27
	2664.990	BPSK	Full RB	0	-17.82	-22.83	-22.93	-24.47
60 MHz	2592.990	BPSK	Full RB	0	-14.24	-15.81	-22.26	-22.25
	2659.980	BPSK	Full RB	0	-13.63	-15.80	-21.77	-22.00
70 MHz	2592.990	BPSK	Full RB	0	-17.57	-26.01	-21.76	-26.80
	2655.000	BPSK	Full RB	0	-17.43	-24.85	-22.04	-24.82
80 MHz	2592.990	BPSK	Full RB	0	-19.06	-21.56	-23.90	-24.36
	2649.990	BPSK	Full RB	0	-18.05	-21.23	-23.70	-24.49
90 MHz	2592.990	BPSK	Full RB	0	-19.65	-24.50	-25.33	-26.52
	2644.980	BPSK	Full RB	0	-18.33	-25.44	-24.28	-27.44
100 MHz	2592.990	BPSK	Full RB	0	-17.67	-25.38	-24.65	-27.07
	2640.000	BPSK	Full RB	0	-17.75	-26.30	-25.17	-27.83
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	-25.65	-23.95	-37.70	-36.33
	2685.000	BPSK	Full RB	0	-27.94	-28.75	-35.74	-35.42
15 MHz	2592.990	BPSK	Full RB	0	-25.64	-23.23	-38.57	-36.71
	2682.480	BPSK	Full RB	0	-26.83	-25.15	-40.04	-38.22
20 MHz	2592.990	BPSK	Full RB	0	-26.32	-23.82	-36.52	-36.08
	2679.990	BPSK	Full RB	0	-27.22	-24.84	-39.99	-38.32
25 MHz	2592.990	BPSK	Full RB	0	-27.75	-24.93	-38.48	-37.17
	2677.500	BPSK	Full RB	0	-27.27	-25.55	-37.81	-39.63
30 MHz	2592.990	BPSK	Full RB	0	-27.46	-24.30	-39.31	-37.06
	2674.980	BPSK	Full RB	0	-26.03	-25.21	-35.50	-36.84
40 MHz	2592.990	BPSK	Full RB	0	-27.15	-24.79	-35.91	-37.28
	2670.000	BPSK	Full RB	0	-27.37	-25.67	-37.44	-40.86
50 MHz	2592.990	BPSK	Full RB	0	-27.82	-25.08	-36.15	-36.51
	2664.990	BPSK	Full RB	0	-27.98	-26.42	-36.83	-40.92
60 MHz	2592.990	BPSK	Full RB	0	-26.90	-24.64	-34.54	-31.67
	2659.980	BPSK	Full RB	0	-27.40	-26.46	-35.82	-41.61
70 MHz	2592.990	BPSK	Full RB	0	-27.06	-25.85	-37.21	-35.75
	2655.000	BPSK	Full RB	0	-26.91	-26.32	-36.54	-46.01
80 MHz	2592.990	BPSK	Full RB	0	-26.35	-26.76	-42.12	-41.01
	2649.990	BPSK	Full RB	0	-29.03	-27.75	-37.26	-49.34
90 MHz	2592.990	BPSK	Full RB	0	-28.08	-27.80	-54.71	-39.29
	2644.980	BPSK	Full RB	0	-29.53	-29.47	-39.70	-54.37
100 MHz	2592.990	BPSK	Full RB	0	-28.32	-28.47	-54.09	-42.32
	2640.000	BPSK	Full RB	0	-29.94	-28.44	-39.04	-53.73
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 443 ~ 574. (1RB & Full RB)

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

BandWidth:	10 MHz
Voltage(100 %):	3.880 VDC
Batt. Endpoint:	3.300 VDC
LIMIT:	Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2501.010	100 %	+20(Ref)	2501 009 997	0.0	0.000 000	0.000
	100 %	-30	2501 009 992	-5.1	0.000 000	-0.002
	100 %	-20	2501 009 995	-1.8	0.000 000	-0.001
	100 %	-10	2501 009 994	-2.9	0.000 000	-0.001
	100 %	0	2501 009 995	-2.2	0.000 000	-0.001
	100 %	+10	2501 009 995	-2.1	0.000 000	-0.001
	100 %	+30	2501 009 994	-3.4	0.000 000	-0.001
	100 %	+40	2501 009 994	-3.1	0.000 000	-0.001
	100 %	+50	2501 009 994	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	2501 009 994	-3.5	0.000 000	-0.001
2505.000	100 %	+20(Ref)	2505 000 000	0.0	0.000 000	0.000
	100 %	-30	2504 999 997	-2.8	0.000 000	-0.001
	100 %	-20	2504 999 996	-3.7	0.000 000	-0.001
	100 %	-10	2504 999 997	-2.3	0.000 000	-0.001
	100 %	0	2504 999 996	-3.7	0.000 000	-0.001
	100 %	+10	2504 999 998	-1.3	0.000 000	-0.001
	100 %	+30	2504 999 996	-3.9	0.000 000	-0.002
	100 %	+40	2504 999 998	-1.2	0.000 000	0.000
	100 %	+50	2504 999 996	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	2504 999 997	-2.3	0.000 000	-0.001
2685.000	100 %	+20(Ref)	2684 999 998	0.0	0.000 000	0.000
	100 %	-30	2684 999 997	-1.3	0.000 000	0.000
	100 %	-20	2684 999 997	-1.2	0.000 000	0.000
	100 %	-10	2684 999 996	-2.0	0.000 000	-0.001
	100 %	0	2684 999 995	-3.0	0.000 000	-0.001
	100 %	+10	2684 999 996	-2.0	0.000 000	-0.001
	100 %	+30	2684 999 995	-3.1	0.000 000	-0.001
	100 %	+40	2684 999 998	-0.5	0.000 000	0.000
	100 %	+50	2684 999 997	-1.5	0.000 000	-0.001
	Batt. Endpoint	+20	2684 999 997	-1.5	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 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 499 999	0.0	0.000 000	0.000
	100 %	-30	2503 499 996	-3.3	0.000 000	-0.001
	100 %	-20	2503 499 997	-2.4	0.000 000	-0.001
	100 %	-10	2503 499 996	-2.8	0.000 000	-0.001
	100 %	0	2503 499 997	-2.4	0.000 000	-0.001
	100 %	+10	2503 499 997	-1.6	0.000 000	-0.001
	100 %	+30	2503 499 996	-2.7	0.000 000	-0.001
	100 %	+40	2503 499 998	-1.3	0.000 000	-0.001
	100 %	+50	2503 499 997	-1.8	0.000 000	-0.001
	Batt. Endpoint	+20	2503 499 996	-2.6	0.000 000	-0.001
2507.520	100 %	+20(Ref)	2507 519 999	0.0	0.000 000	0.000
	100 %	-30	2507 519 996	-2.9	0.000 000	-0.001
	100 %	-20	2507 519 997	-1.5	0.000 000	-0.001
	100 %	-10	2507 519 997	-2.0	0.000 000	-0.001
	100 %	0	2507 519 997	-1.5	0.000 000	-0.001
	100 %	+10	2507 519 997	-1.5	0.000 000	-0.001
	100 %	+30	2507 519 997	-2.2	0.000 000	-0.001
	100 %	+40	2507 519 995	-3.5	0.000 000	-0.001
	100 %	+50	2507 519 996	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	2507 519 997	-1.7	0.000 000	-0.001
2682.480	100 %	+20(Ref)	2682 479 999	0.0	0.000 000	0.000
	100 %	-30	2682 479 997	-2.7	0.000 000	-0.001
	100 %	-20	2682 479 999	-0.3	0.000 000	0.000
	100 %	-10	2682 479 998	-1.5	0.000 000	-0.001
	100 %	0	2682 479 998	-1.3	0.000 000	0.000
	100 %	+10	2682 479 995	-4.0	0.000 000	-0.001
	100 %	+30	2682 479 998	-1.4	0.000 000	-0.001
	100 %	+40	2682 479 997	-2.3	0.000 000	-0.001
	100 %	+50	2682 479 999	-0.6	0.000 000	0.000
	Batt. Endpoint	+20	2682 479 998	-1.1	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 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 019 997	0.0	0.000 000	0.000
	100 %	-30	2506 019 994	-3.1	0.000 000	-0.001
	100 %	-20	2506 019 993	-3.7	0.000 000	-0.001
	100 %	-10	2506 019 991	-5.5	0.000 000	-0.002
	100 %	0	2506 019 994	-3.2	0.000 000	-0.001
	100 %	+10	2506 019 995	-2.3	0.000 000	-0.001
	100 %	+30	2506 019 994	-3.2	0.000 000	-0.001
	100 %	+40	2506 019 995	-2.4	0.000 000	-0.001
	100 %	+50	2506 019 994	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	2506 019 996	-1.4	0.000 000	-0.001
2510.010	100 %	+20(Ref)	2510 009 997	0.0	0.000 000	0.000
	100 %	-30	2510 009 995	-2.9	0.000 000	-0.001
	100 %	-20	2510 009 995	-2.9	0.000 000	-0.001
	100 %	-10	2510 009 994	-3.4	0.000 000	-0.001
	100 %	0	2510 009 995	-2.3	0.000 000	-0.001
	100 %	+10	2510 009 996	-1.5	0.000 000	-0.001
	100 %	+30	2510 009 995	-2.5	0.000 000	-0.001
	100 %	+40	2510 009 994	-3.5	0.000 000	-0.001
	100 %	+50	2510 009 995	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	2510 009 995	-2.5	0.000 000	-0.001
2679.990	100 %	+20(Ref)	2679 989 999	0.0	0.000 000	0.000
	100 %	-30	2679 990 000	1.1	0.000 000	0.000
	100 %	-20	2679 990 001	2.1	0.000 000	0.001
	100 %	-10	2679 989 999	-0.3	0.000 000	0.000
	100 %	0	2679 989 999	-0.4	0.000 000	0.000
	100 %	+10	2679 990 000	0.9	0.000 000	0.000
	100 %	+30	2679 989 999	-0.1	0.000 000	0.000
	100 %	+40	2679 990 001	1.7	0.000 000	0.001
	100 %	+50	2679 989 998	-1.5	0.000 000	-0.001
	Batt. Endpoint	+20	2679 989 999	-0.2	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2508.510	100 %	+20(Ref)	2508 509 997	0.0	0.000 000	0.000
	100 %	-30	2508 509 995	-2.1	0.000 000	-0.001
	100 %	-20	2508 509 994	-3.2	0.000 000	-0.001
	100 %	-10	2508 509 994	-3.2	0.000 000	-0.001
	100 %	0	2508 509 995	-2.3	0.000 000	-0.001
	100 %	+10	2508 509 994	-3.8	0.000 000	-0.002
	100 %	+30	2508 509 994	-3.0	0.000 000	-0.001
	100 %	+40	2508 509 993	-4.8	0.000 000	-0.002
	100 %	+50	2508 509 992	-4.9	0.000 000	-0.002
	Batt. Endpoint	+20	2508 509 996	-1.8	0.000 000	-0.001
2512.500	100 %	+20(Ref)	2512 499 998	0.0	0.000 000	0.000
	100 %	-30	2512 499 997	-0.6	0.000 000	0.000
	100 %	-20	2512 499 995	-3.2	0.000 000	-0.001
	100 %	-10	2512 499 992	-6.0	0.000 000	-0.002
	100 %	0	2512 499 996	-2.1	0.000 000	-0.001
	100 %	+10	2512 499 995	-2.4	0.000 000	-0.001
	100 %	+30	2512 499 997	-1.1	0.000 000	0.000
	100 %	+40	2512 499 995	-2.6	0.000 000	-0.001
	100 %	+50	2512 499 997	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2512 499 996	-2.1	0.000 000	-0.001
2677.500	100 %	+20(Ref)	2677 499 998	0.0	0.000 000	0.000
	100 %	-30	2677 499 996	-1.7	0.000 000	-0.001
	100 %	-20	2677 499 996	-1.3	0.000 000	0.000
	100 %	-10	2677 499 997	-0.4	0.000 000	0.000
	100 %	0	2677 499 997	-1.0	0.000 000	0.000
	100 %	+10	2677 499 996	-1.7	0.000 000	-0.001
	100 %	+30	2677 499 995	-2.8	0.000 000	-0.001
	100 %	+40	2677 499 997	-0.8	0.000 000	0.000
	100 %	+50	2677 499 997	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	2677 499 997	-0.9	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 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 999 994	-2.2	0.000 000	-0.001
	100 %	-20	2510 999 994	-2.4	0.000 000	-0.001
	100 %	-10	2510 999 994	-1.9	0.000 000	-0.001
	100 %	0	2510 999 994	-2.5	0.000 000	-0.001
	100 %	+10	2510 999 994	-2.0	0.000 000	-0.001
	100 %	+30	2510 999 993	-3.5	0.000 000	-0.001
	100 %	+40	2510 999 994	-2.4	0.000 000	-0.001
	100 %	+50	2510 999 993	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	2510 999 993	-3.0	0.000 000	-0.001
2515.020	100 %	+20(Ref)	2515 019 996	0.0	0.000 000	0.000
	100 %	-30	2515 019 993	-3.6	0.000 000	-0.001
	100 %	-20	2515 019 992	-4.0	0.000 000	-0.002
	100 %	-10	2515 019 993	-3.7	0.000 000	-0.001
	100 %	0	2515 019 993	-3.4	0.000 000	-0.001
	100 %	+10	2515 019 992	-4.1	0.000 000	-0.002
	100 %	+30	2515 019 992	-4.4	0.000 000	-0.002
	100 %	+40	2515 019 994	-2.8	0.000 000	-0.001
	100 %	+50	2515 019 993	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	2515 019 993	-3.7	0.000 000	-0.001
2674.980	100 %	+20(Ref)	2674 979 998	0.0	0.000 000	0.000
	100 %	-30	2674 979 997	-1.5	0.000 000	-0.001
	100 %	-20	2674 979 997	-1.1	0.000 000	0.000
	100 %	-10	2674 979 998	-0.4	0.000 000	0.000
	100 %	0	2674 979 998	-0.7	0.000 000	0.000
	100 %	+10	2674 979 997	-1.6	0.000 000	-0.001
	100 %	+30	2674 979 998	-0.8	0.000 000	0.000
	100 %	+40	2674 979 995	-3.6	0.000 000	-0.001
	100 %	+50	2674 979 995	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	2674 979 996	-2.5	0.000 000	-0.001

■ BandWidth: 40 MHz
 ■ Voltage(100 %): 3.880 VDC
 ■ Batt. Endpoint: 3.300 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 010 000	0.0	0.000 000	0.000
	100 %	-30	2516 009 998	-1.6	0.000 000	-0.001
	100 %	-20	2516 009 996	-3.4	0.000 000	-0.001
	100 %	-10	2516 009 998	-1.5	0.000 000	-0.001
	100 %	0	2516 009 997	-2.3	0.000 000	-0.001
	100 %	+10	2516 009 996	-3.6	0.000 000	-0.001
	100 %	+30	2516 009 998	-1.8	0.000 000	-0.001
	100 %	+40	2516 009 998	-2.0	0.000 000	-0.001
	100 %	+50	2516 009 996	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	2516 009 998	-1.9	0.000 000	-0.001
2520.000	100 %	+20(Ref)	2519 999 998	0.0	0.000 000	0.000
	100 %	-30	2519 999 995	-3.1	0.000 000	-0.001
	100 %	-20	2519 999 995	-3.1	0.000 000	-0.001
	100 %	-10	2519 999 996	-1.7	0.000 000	-0.001
	100 %	0	2519 999 995	-3.2	0.000 000	-0.001
	100 %	+10	2519 999 997	-0.7	0.000 000	0.000
	100 %	+30	2519 999 998	-0.2	0.000 000	0.000
	100 %	+40	2519 999 997	-1.3	0.000 000	-0.001
	100 %	+50	2519 999 995	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	2519 999 995	-3.1	0.000 000	-0.001
2670.000	100 %	+20(Ref)	2669 999 998	0.0	0.000 000	0.000
	100 %	-30	2669 999 997	-0.3	0.000 000	0.000
	100 %	-20	2669 999 995	-2.7	0.000 000	-0.001
	100 %	-10	2669 999 997	-0.9	0.000 000	0.000
	100 %	0	2669 999 998	0.1	0.000 000	0.000
	100 %	+10	2669 999 996	-1.7	0.000 000	-0.001
	100 %	+30	2669 999 997	-0.4	0.000 000	0.000
	100 %	+40	2669 999 995	-2.7	0.000 000	-0.001
	100 %	+50	2669 999 995	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	2669 999 996	-1.3	0.000 000	-0.001

■ BandWidth: 50 MHz
 ■ Voltage(100 %): 3.880 VDC
 ■ Batt. Endpoint: 3.300 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 019 997	0.0	0.000 000	0.000
	100 %	-30	2521 019 995	-1.1	0.000 000	0.000
	100 %	-20	2521 019 996	-1.0	0.000 000	0.000
	100 %	-10	2521 019 994	-2.5	0.000 000	-0.001
	100 %	0	2521 019 994	-2.2	0.000 000	-0.001
	100 %	+10	2521 019 995	-1.7	0.000 000	-0.001
	100 %	+30	2521 019 995	-1.7	0.000 000	-0.001
	100 %	+40	2521 019 995	-1.9	0.000 000	-0.001
	100 %	+50	2521 019 994	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	2521 019 994	-2.9	0.000 000	-0.001
2525.010	100 %	+20(Ref)	2525 010 000	0.0	0.000 000	0.000
	100 %	-30	2525 010 000	0.3	0.000 000	0.000
	100 %	-20	2525 009 999	-0.8	0.000 000	0.000
	100 %	-10	2525 009 998	-2.1	0.000 000	-0.001
	100 %	0	2525 010 000	0.5	0.000 000	0.000
	100 %	+10	2525 009 999	-0.8	0.000 000	0.000
	100 %	+30	2525 009 998	-1.7	0.000 000	-0.001
	100 %	+40	2525 009 999	-1.0	0.000 000	0.000
	100 %	+50	2525 009 999	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2525 009 998	-1.4	0.000 000	-0.001
2664.990	100 %	+20(Ref)	2664 989 998	0.0	0.000 000	0.000
	100 %	-30	2664 989 997	-0.8	0.000 000	0.000
	100 %	-20	2664 989 997	-0.8	0.000 000	0.000
	100 %	-10	2664 989 994	-3.4	0.000 000	-0.001
	100 %	0	2664 989 995	-2.4	0.000 000	-0.001
	100 %	+10	2664 989 995	-2.4	0.000 000	-0.001
	100 %	+30	2664 989 994	-3.4	0.000 000	-0.001
	100 %	+40	2664 989 995	-3.1	0.000 000	-0.001
	100 %	+50	2664 989 999	0.9	0.000 000	0.000
	Batt. Endpoint	+20	2664 989 997	-0.9	0.000 000	0.000

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 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 999 995	0.0	0.000 000	0.000
	100 %	-30	2525 999 993	-2.0	0.000 000	-0.001
	100 %	-20	2525 999 992	-3.1	0.000 000	-0.001
	100 %	-10	2525 999 992	-3.3	0.000 000	-0.001
	100 %	0	2525 999 990	-4.9	0.000 000	-0.002
	100 %	+10	2525 999 990	-5.2	0.000 000	-0.002
	100 %	+30	2525 999 990	-4.9	0.000 000	-0.002
	100 %	+40	2525 999 991	-3.5	0.000 000	-0.001
	100 %	+50	2525 999 989	-5.4	0.000 000	-0.002
	Batt. Endpoint	+20	2525 999 986	-9.2	0.000 000	-0.004
2530.020	100 %	+20(Ref)	2530 019 997	0.0	0.000 000	0.000
	100 %	-30	2530 019 996	-1.2	0.000 000	0.000
	100 %	-20	2530 019 993	-3.8	0.000 000	-0.001
	100 %	-10	2530 019 995	-1.6	0.000 000	-0.001
	100 %	0	2530 019 996	-0.7	0.000 000	0.000
	100 %	+10	2530 019 995	-2.2	0.000 000	-0.001
	100 %	+30	2530 019 994	-2.9	0.000 000	-0.001
	100 %	+40	2530 019 995	-1.8	0.000 000	-0.001
	100 %	+50	2530 019 996	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	2530 019 994	-2.7	0.000 000	-0.001
2659.980	100 %	+20(Ref)	2659 979 998	0.0	0.000 000	0.000
	100 %	-30	2659 979 995	-2.9	0.000 000	-0.001
	100 %	-20	2659 979 996	-1.9	0.000 000	-0.001
	100 %	-10	2659 979 995	-2.8	0.000 000	-0.001
	100 %	0	2659 979 993	-5.3	0.000 000	-0.002
	100 %	+10	2659 979 995	-3.4	0.000 000	-0.001
	100 %	+30	2659 979 997	-0.6	0.000 000	0.000
	100 %	+40	2659 979 998	-0.5	0.000 000	0.000
	100 %	+50	2659 979 996	-1.8	0.000 000	-0.001
	Batt. Endpoint	+20	2659 979 996	-2.0	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 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 009 995	0.0	0.000 000	0.000
	100 %	-30	2531 009 991	-4.7	0.000 000	-0.002
	100 %	-20	2531 009 992	-2.9	0.000 000	-0.001
	100 %	-10	2531 009 992	-2.9	0.000 000	-0.001
	100 %	0	2531 009 992	-3.7	0.000 000	-0.001
	100 %	+10	2531 009 992	-3.3	0.000 000	-0.001
	100 %	+30	2531 009 992	-3.3	0.000 000	-0.001
	100 %	+40	2531 009 991	-4.3	0.000 000	-0.002
	100 %	+50	2531 009 994	-1.6	0.000 000	-0.001
	Batt. Endpoint	+20	2531 009 992	-3.5	0.000 000	-0.001
2535.000	100 %	+20(Ref)	2534 999 997	0.0	0.000 000	0.000
	100 %	-30	2534 999 995	-1.6	0.000 000	-0.001
	100 %	-20	2534 999 994	-2.7	0.000 000	-0.001
	100 %	-10	2534 999 994	-2.7	0.000 000	-0.001
	100 %	0	2534 999 995	-1.8	0.000 000	-0.001
	100 %	+10	2534 999 993	-4.1	0.000 000	-0.002
	100 %	+30	2534 999 995	-2.1	0.000 000	-0.001
	100 %	+40	2534 999 994	-2.4	0.000 000	-0.001
	100 %	+50	2534 999 996	-1.4	0.000 000	-0.001
	Batt. Endpoint	+20	2534 999 993	-3.9	0.000 000	-0.002
2655.000	100 %	+20(Ref)	2654 999 996	0.0	0.000 000	0.000
	100 %	-30	2654 999 993	-2.8	0.000 000	-0.001
	100 %	-20	2654 999 996	-0.6	0.000 000	0.000
	100 %	-10	2654 999 993	-3.0	0.000 000	-0.001
	100 %	0	2654 999 993	-3.3	0.000 000	-0.001
	100 %	+10	2654 999 996	-0.7	0.000 000	0.000
	100 %	+30	2654 999 994	-2.1	0.000 000	-0.001
	100 %	+40	2654 999 994	-2.1	0.000 000	-0.001
	100 %	+50	2654 999 994	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	2654 999 995	-1.5	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 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 019 998	0.0	0.000 000	0.000
	100 %	-30	2536 019 996	-1.8	0.000 000	-0.001
	100 %	-20	2536 019 994	-3.9	0.000 000	-0.002
	100 %	-10	2536 019 995	-3.2	0.000 000	-0.001
	100 %	0	2536 019 997	-1.0	0.000 000	0.000
	100 %	+10	2536 019 995	-2.8	0.000 000	-0.001
	100 %	+30	2536 019 994	-3.4	0.000 000	-0.001
	100 %	+40	2536 019 993	-4.5	0.000 000	-0.002
	100 %	+50	2536 019 996	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	2536 019 996	-2.2	0.000 000	-0.001
2540.010	100 %	+20(Ref)	2540 009 998	0.0	0.000 000	0.000
	100 %	-30	2540 009 995	-2.8	0.000 000	-0.001
	100 %	-20	2540 009 995	-2.8	0.000 000	-0.001
	100 %	-10	2540 009 995	-2.7	0.000 000	-0.001
	100 %	0	2540 009 995	-2.9	0.000 000	-0.001
	100 %	+10	2540 009 995	-2.6	0.000 000	-0.001
	100 %	+30	2540 009 995	-2.6	0.000 000	-0.001
	100 %	+40	2540 009 996	-1.7	0.000 000	-0.001
	100 %	+50	2540 009 997	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	2540 009 994	-3.2	0.000 000	-0.001
2649.990	100 %	+20(Ref)	2649 990 000	0.0	0.000 000	0.000
	100 %	-30	2649 989 999	-1.6	0.000 000	-0.001
	100 %	-20	2649 989 998	-2.1	0.000 000	-0.001
	100 %	-10	2649 989 998	-2.1	0.000 000	-0.001
	100 %	0	2649 989 998	-2.0	0.000 000	-0.001
	100 %	+10	2649 989 997	-2.8	0.000 000	-0.001
	100 %	+30	2649 989 999	-0.8	0.000 000	0.000
	100 %	+40	2649 990 002	2.1	0.000 000	0.001
	100 %	+50	2649 989 999	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2649 989 999	-1.7	0.000 000	-0.001

BandWidth:	90 MHz
Voltage(100 %):	3.880 VDC
Batt. Endpoint:	3.300 VDC
LIMIT:	Emission must remain in band

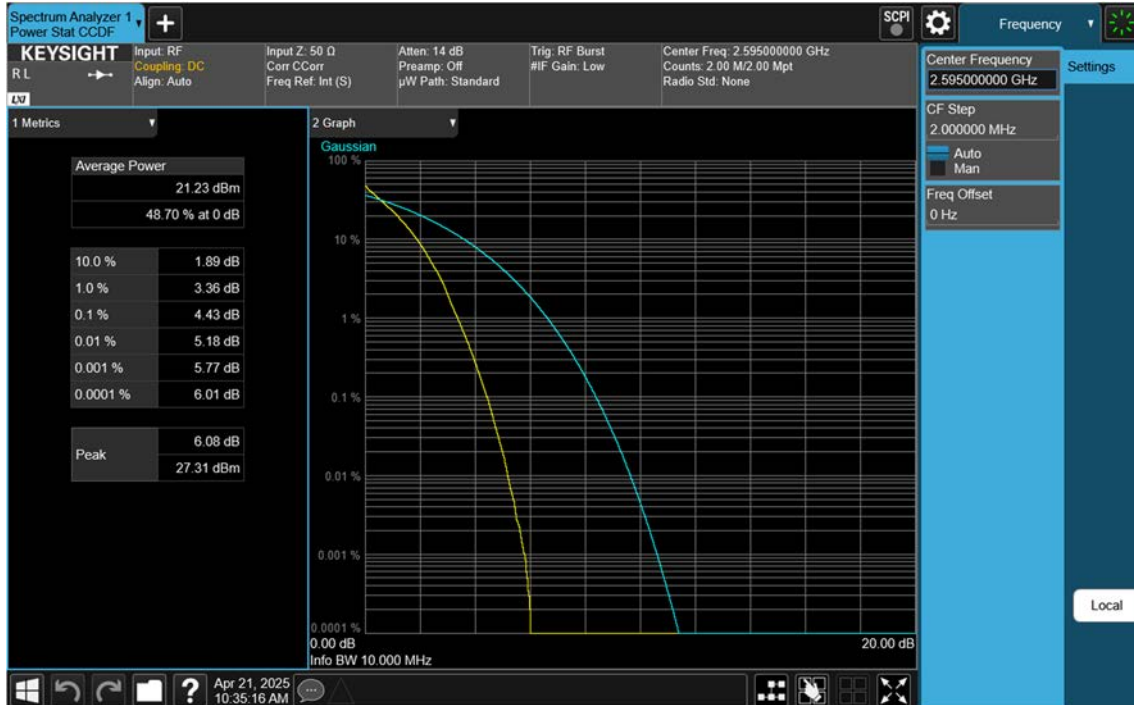
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2541.000	100 %	+20(Ref)	2540 999 996	0.0	0.000 000	0.000
	100 %	-30	2540 999 993	-3.2	0.000 000	-0.001
	100 %	-20	2540 999 993	-2.8	0.000 000	-0.001
	100 %	-10	2540 999 993	-3.0	0.000 000	-0.001
	100 %	0	2540 999 993	-3.0	0.000 000	-0.001
	100 %	+10	2540 999 992	-4.2	0.000 000	-0.002
	100 %	+30	2540 999 996	-0.1	0.000 000	0.000
	100 %	+40	2540 999 994	-2.6	0.000 000	-0.001
	100 %	+50	2540 999 997	0.8	0.000 000	0.000
	Batt. Endpoint	+20	2540 999 994	-2.8	0.000 000	-0.001
2545.020	100 %	+20(Ref)	2545 020 000	0.0	0.000 000	0.000
	100 %	-30	2545 020 000	-0.9	0.000 000	0.000
	100 %	-20	2545 020 000	-0.3	0.000 000	0.000
	100 %	-10	2545 019 999	-1.4	0.000 000	-0.001
	100 %	0	2545 020 001	0.6	0.000 000	0.000
	100 %	+10	2545 020 001	0.6	0.000 000	0.000
	100 %	+30	2545 020 001	0.1	0.000 000	0.000
	100 %	+40	2545 019 999	-1.7	0.000 000	-0.001
	100 %	+50	2545 020 000	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2545 019 999	-1.8	0.000 000	-0.001
2644.980	100 %	+20(Ref)	2644 979 999	0.0	0.000 000	0.000
	100 %	-30	2644 979 997	-2.7	0.000 000	-0.001
	100 %	-20	2644 979 999	0.0	0.000 000	0.000
	100 %	-10	2644 979 999	-0.5	0.000 000	0.000
	100 %	0	2644 979 999	-0.1	0.000 000	0.000
	100 %	+10	2644 979 998	-1.9	0.000 000	-0.001
	100 %	+30	2644 979 999	-0.1	0.000 000	0.000
	100 %	+40	2644 980 000	0.1	0.000 000	0.000
	100 %	+50	2644 980 000	0.2	0.000 000	0.000
	Batt. Endpoint	+20	2644 979 999	-0.5	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

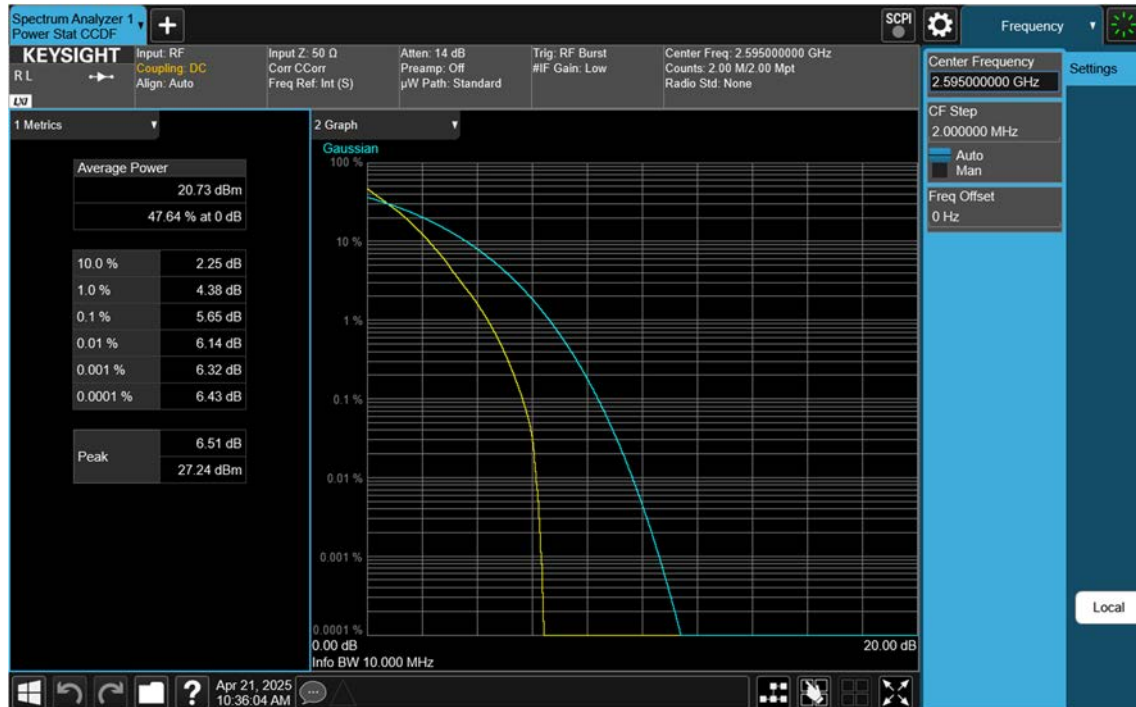
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 009 997	0.0	0.000 000	0.000
	100 %	-30	2546 009 993	-4.0	0.000 000	-0.002
	100 %	-20	2546 009 995	-2.7	0.000 000	-0.001
	100 %	-10	2546 009 995	-2.6	0.000 000	-0.001
	100 %	0	2546 009 992	-5.2	0.000 000	-0.002
	100 %	+10	2546 009 993	-4.7	0.000 000	-0.002
	100 %	+30	2546 009 992	-5.4	0.000 000	-0.002
	100 %	+40	2546 009 993	-4.2	0.000 000	-0.002
	100 %	+50	2546 009 993	-4.2	0.000 000	-0.002
	Batt. Endpoint	+20	2546 009 995	-2.3	0.000 000	-0.001
2550.000	100 %	+20(Ref)	2549 999 998	0.0	0.000 000	0.000
	100 %	-30	2549 999 995	-3.3	0.000 000	-0.001
	100 %	-20	2549 999 996	-1.6	0.000 000	-0.001
	100 %	-10	2549 999 996	-1.9	0.000 000	-0.001
	100 %	0	2549 999 992	-5.7	0.000 000	-0.002
	100 %	+10	2549 999 993	-4.9	0.000 000	-0.002
	100 %	+30	2549 999 994	-3.9	0.000 000	-0.002
	100 %	+40	2549 999 994	-3.9	0.000 000	-0.002
	100 %	+50	2549 999 996	-1.6	0.000 000	-0.001
	Batt. Endpoint	+20	2549 999 996	-1.9	0.000 000	-0.001
2640.000	100 %	+20(Ref)	2640 000 000	0.0	0.000 000	0.000
	100 %	-30	2639 999 999	-1.1	0.000 000	0.000
	100 %	-20	2640 000 000	-0.5	0.000 000	0.000
	100 %	-10	2639 999 999	-1.3	0.000 000	0.000
	100 %	0	2639 999 999	-0.7	0.000 000	0.000
	100 %	+10	2639 999 998	-2.2	0.000 000	-0.001
	100 %	+30	2639 999 999	-0.8	0.000 000	0.000
	100 %	+40	2639 999 999	-1.5	0.000 000	-0.001
	100 %	+50	2639 999 999	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	2639 999 998	-2.1	0.000 000	-0.001

10. TEST PLOTS(Main 2 ANT)

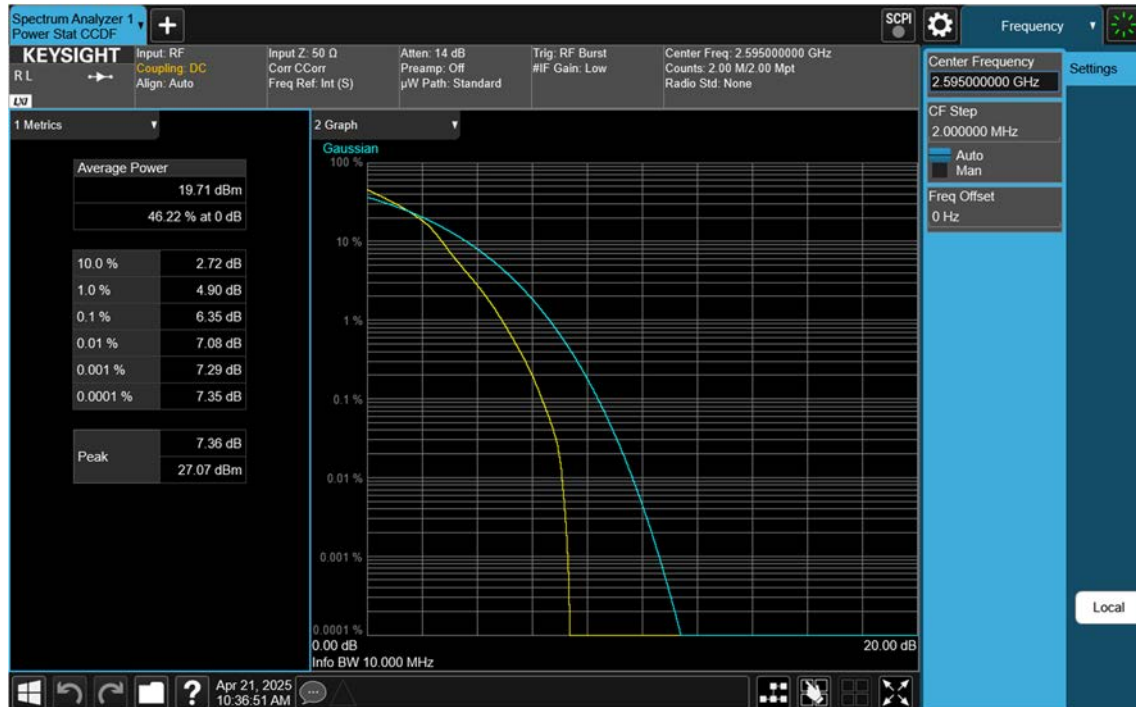
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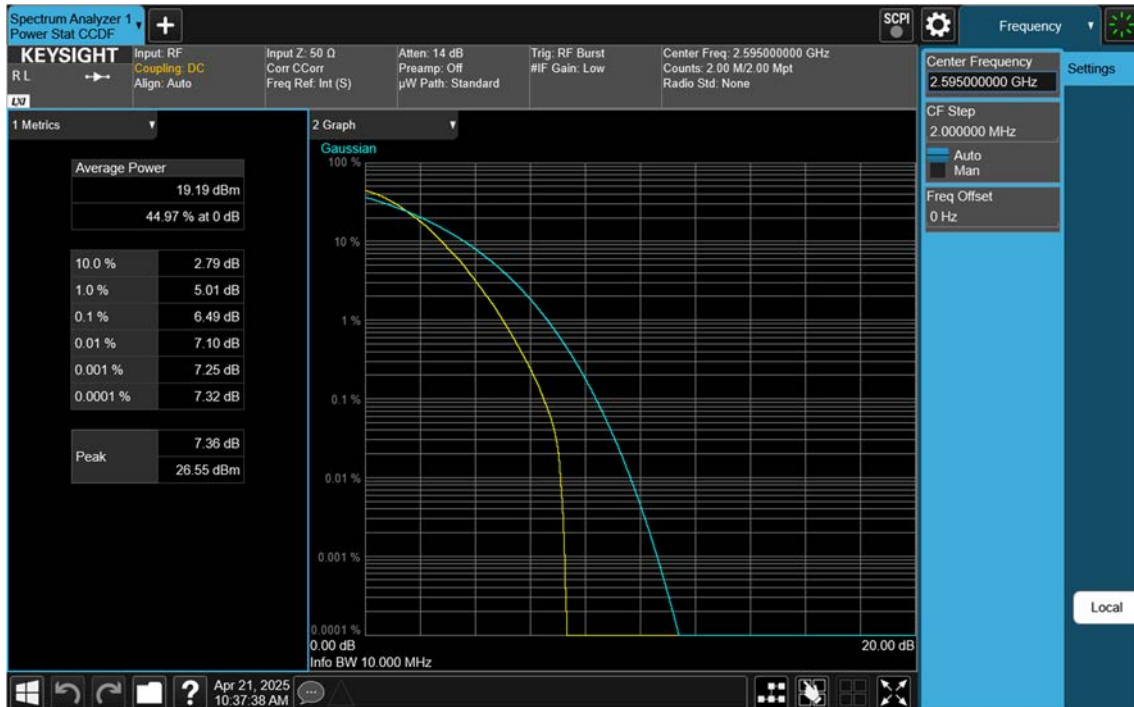
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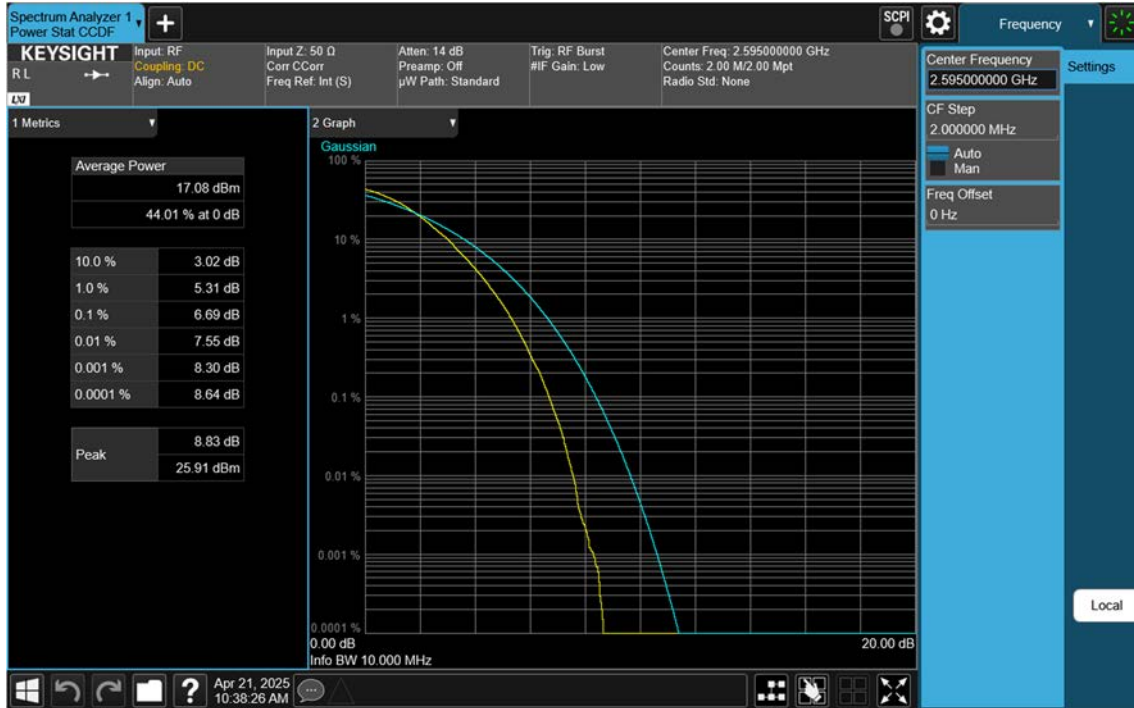
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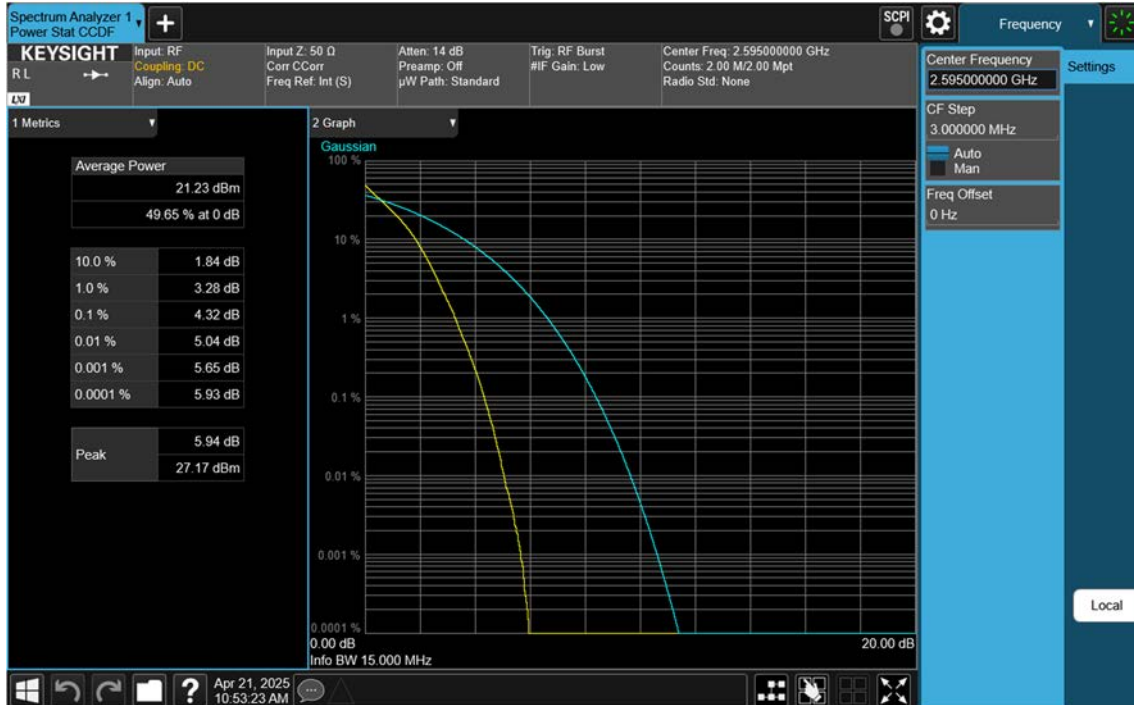
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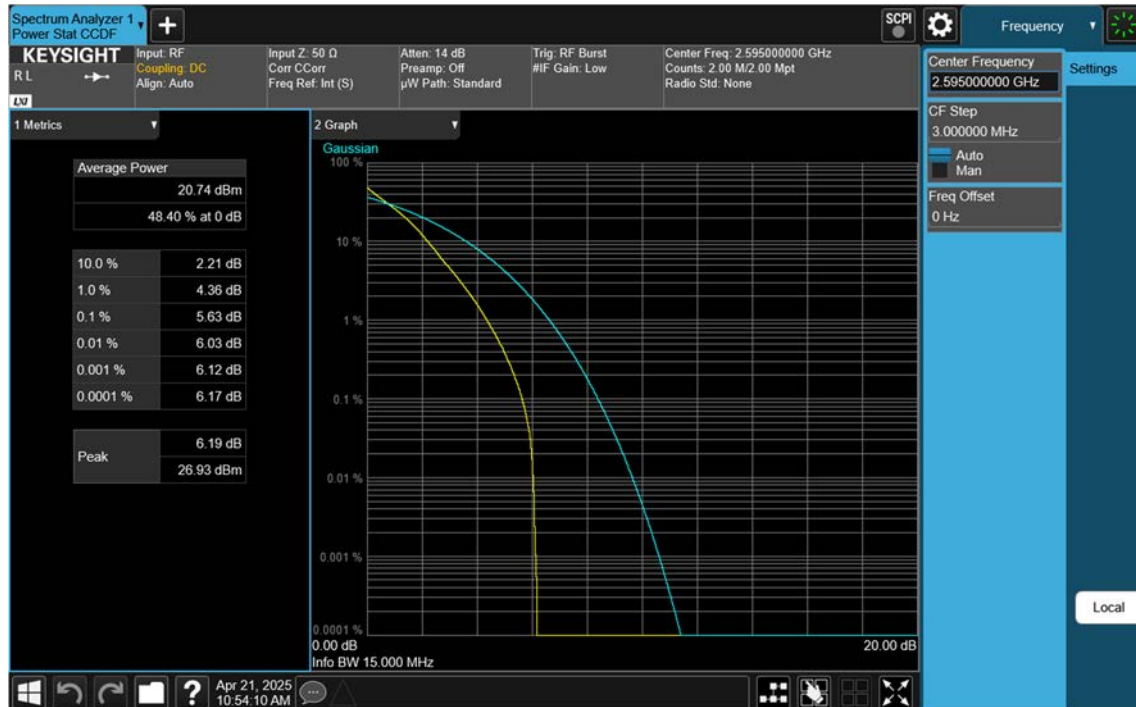
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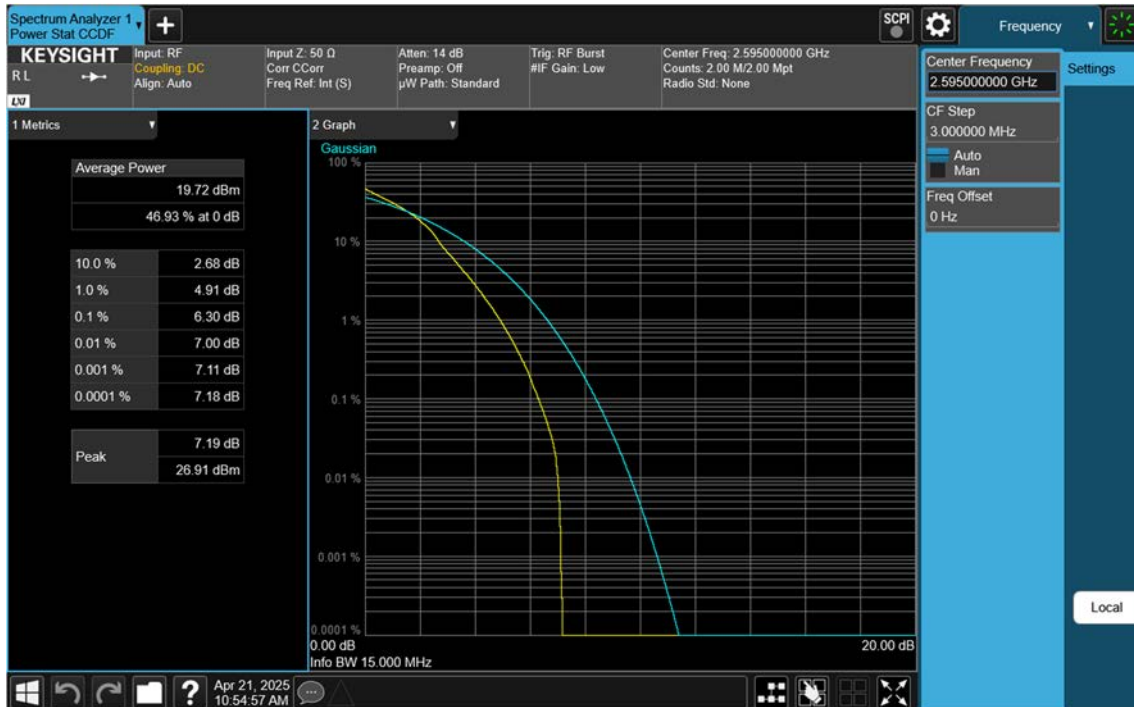
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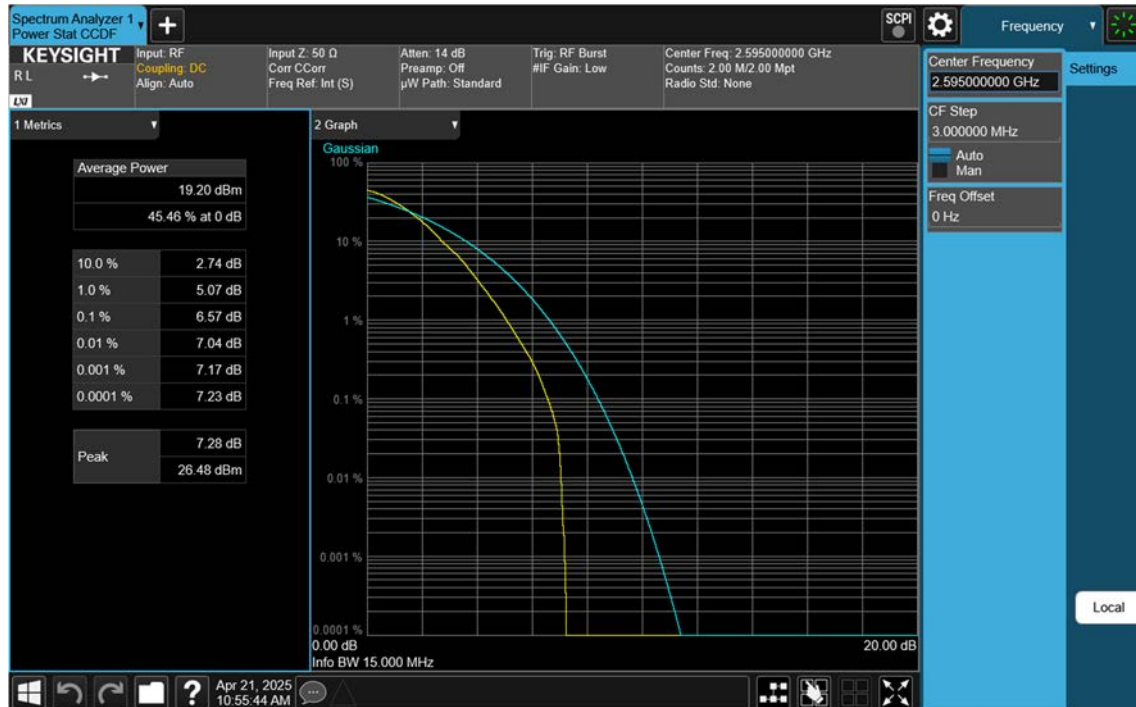
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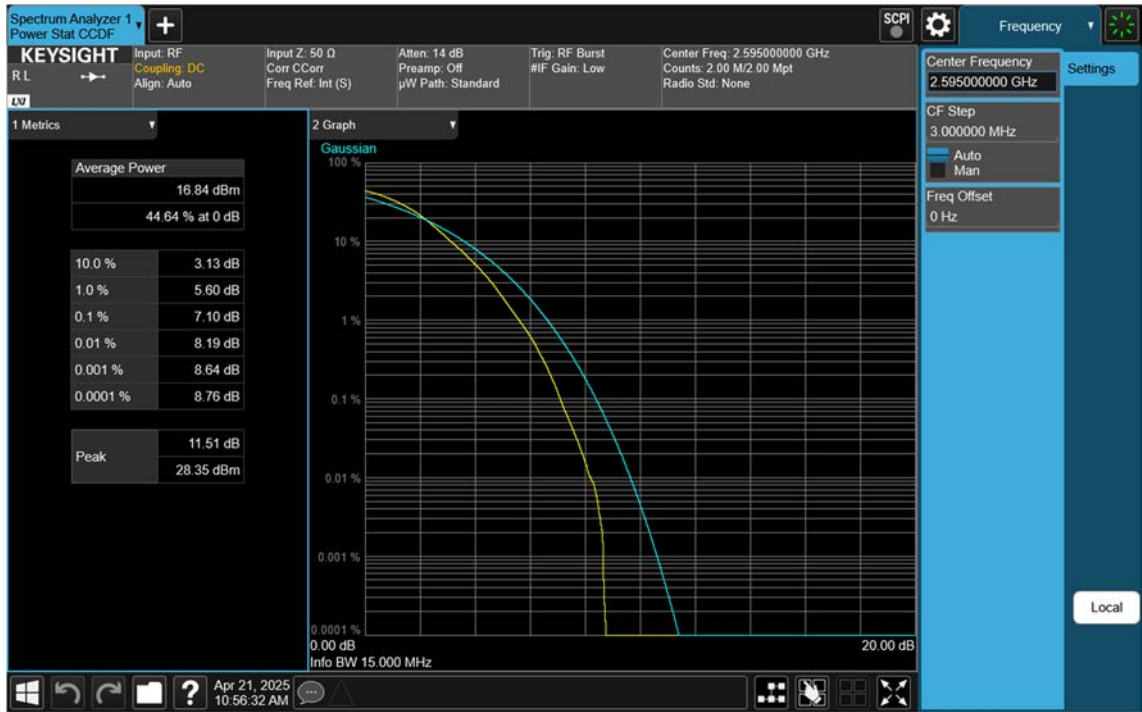
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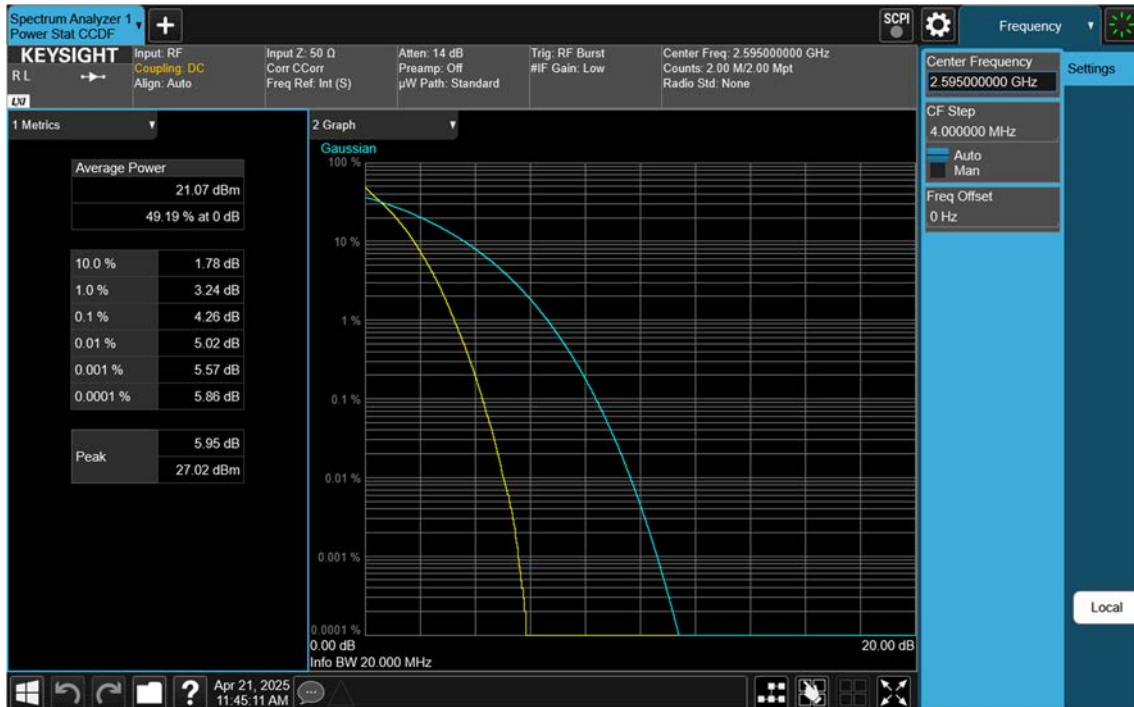
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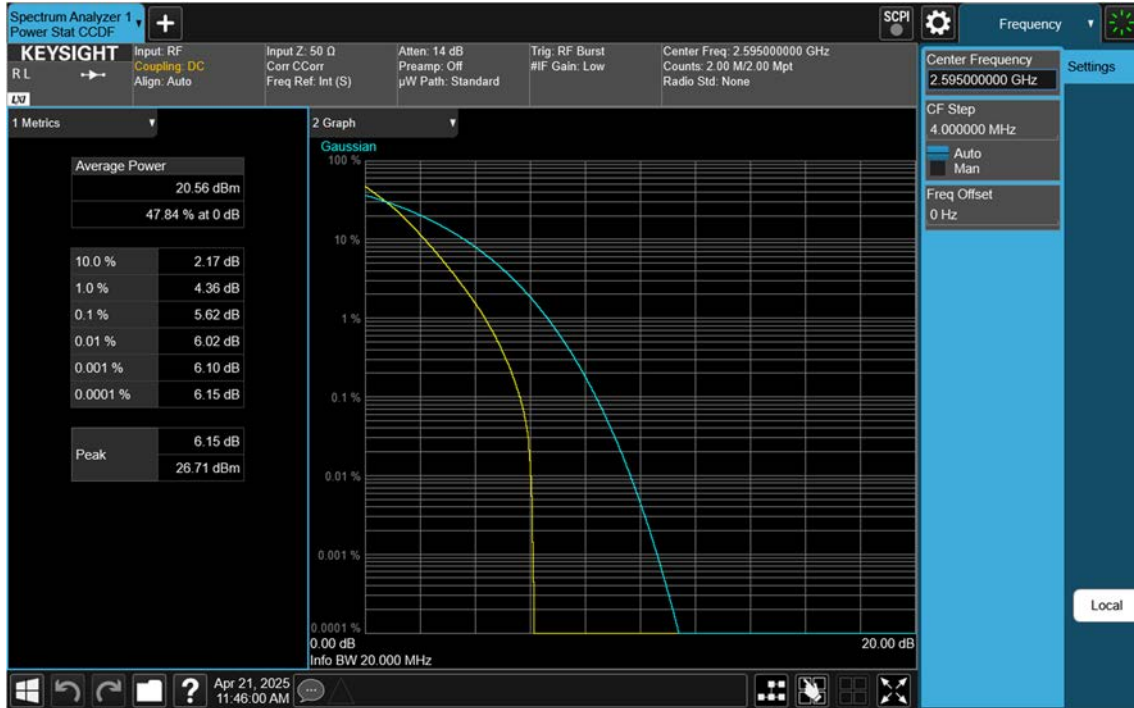
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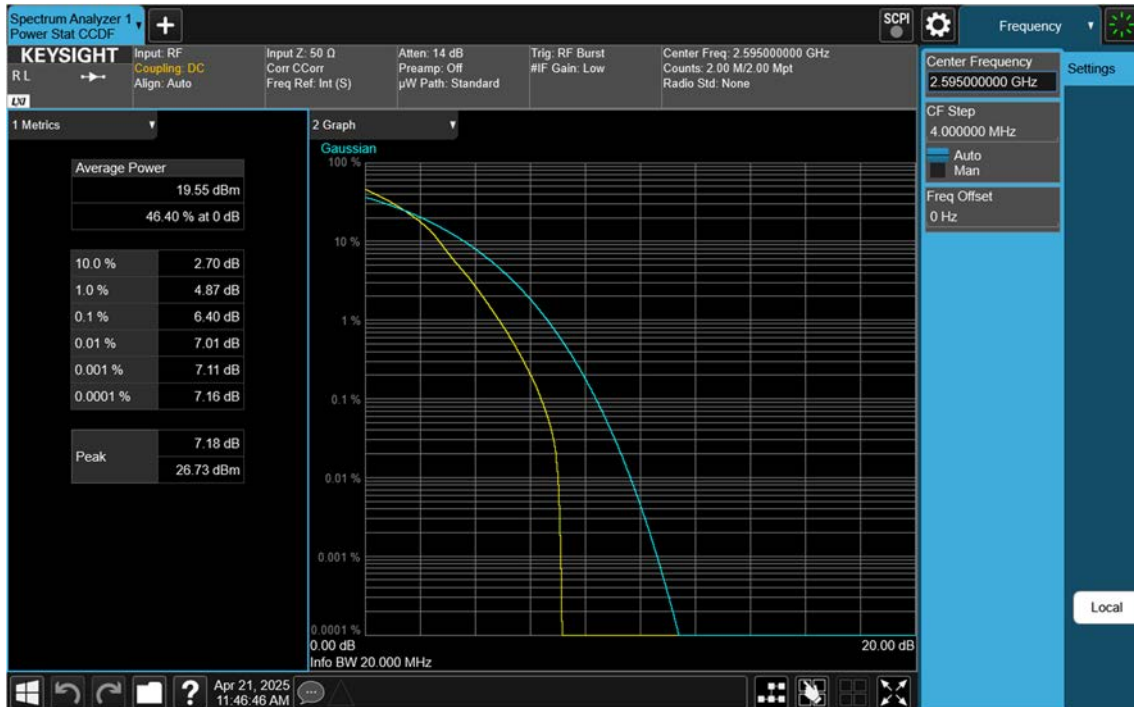
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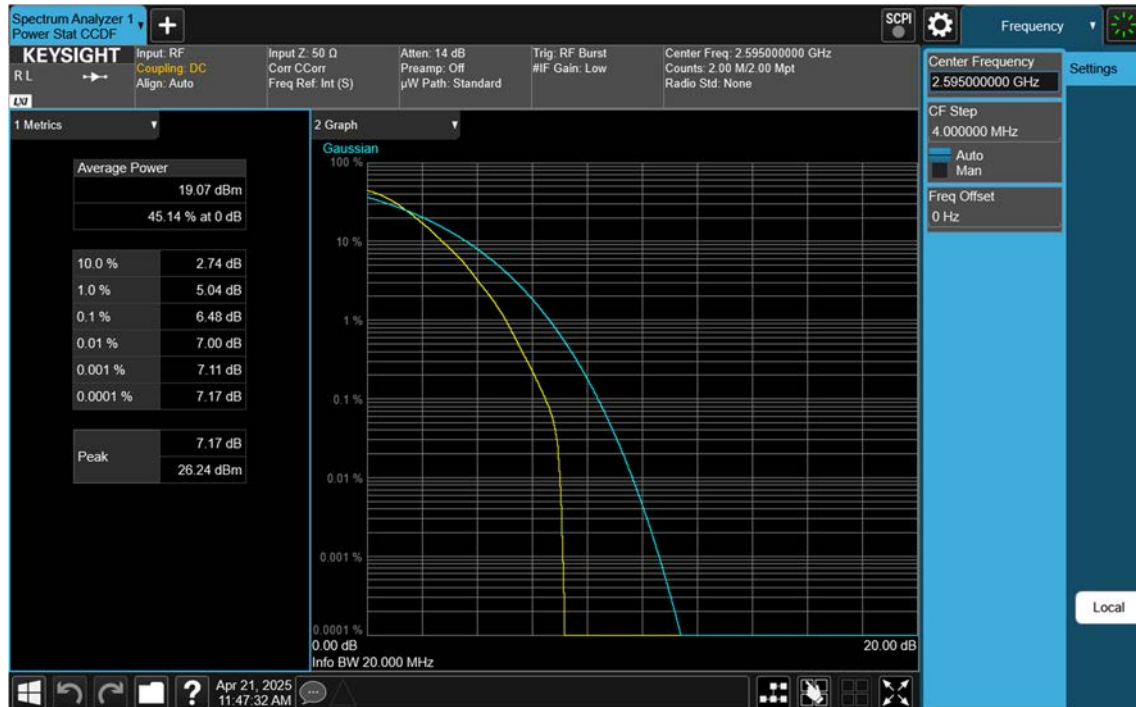
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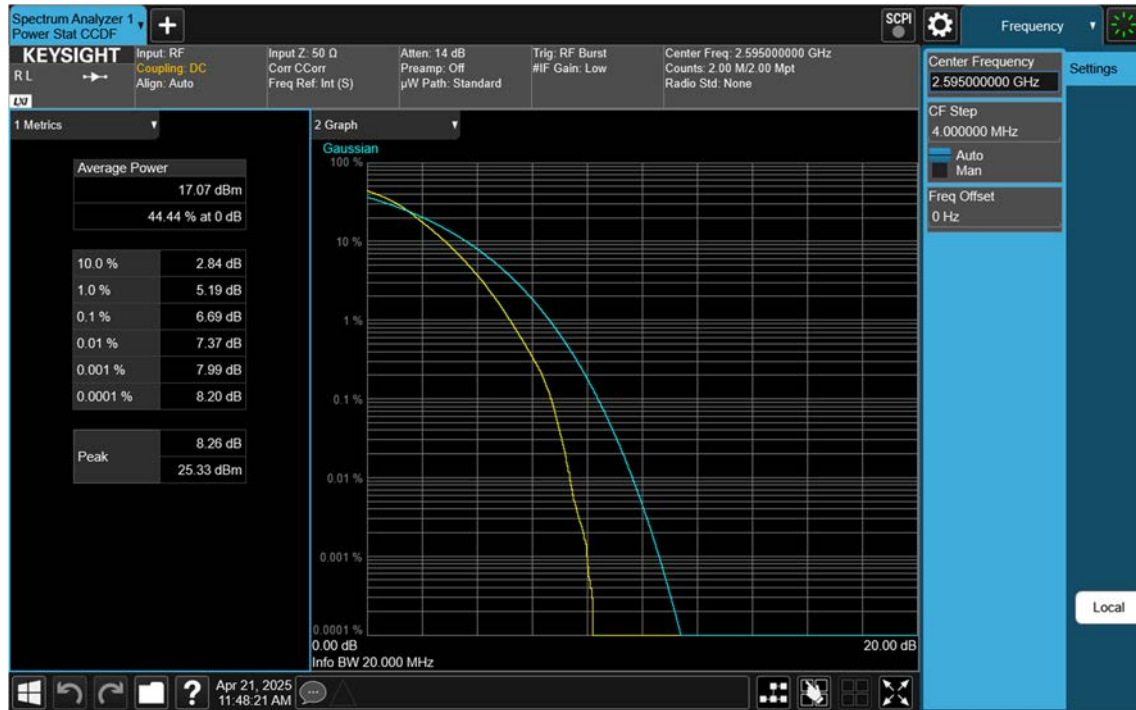
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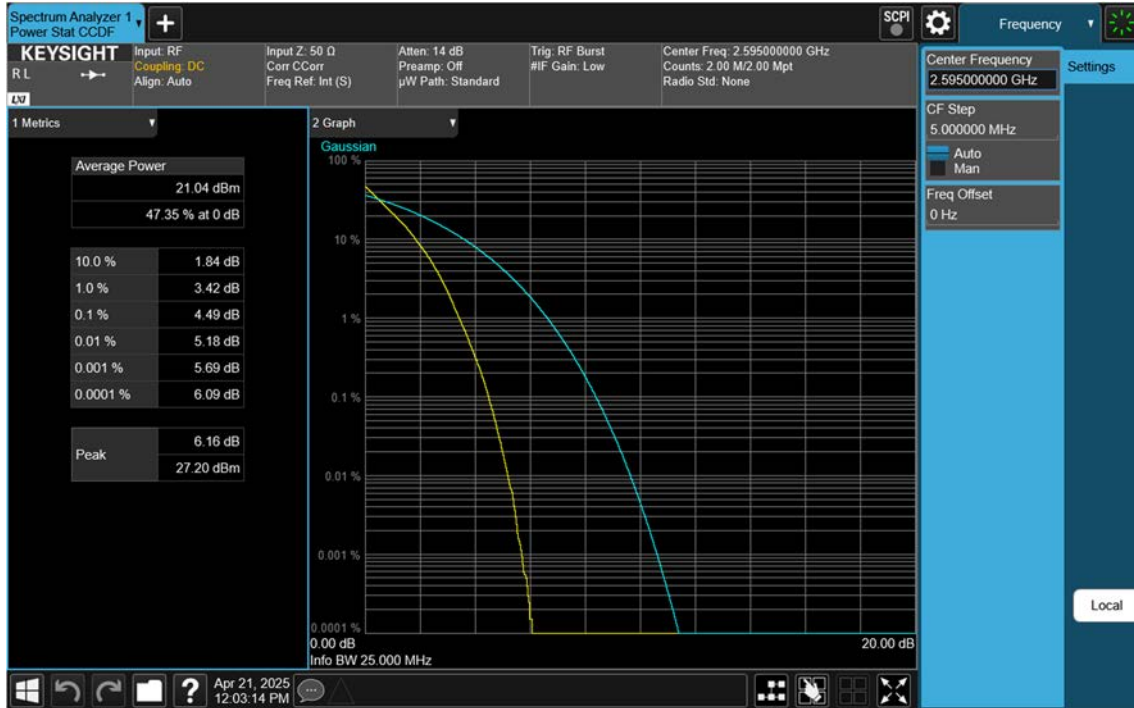
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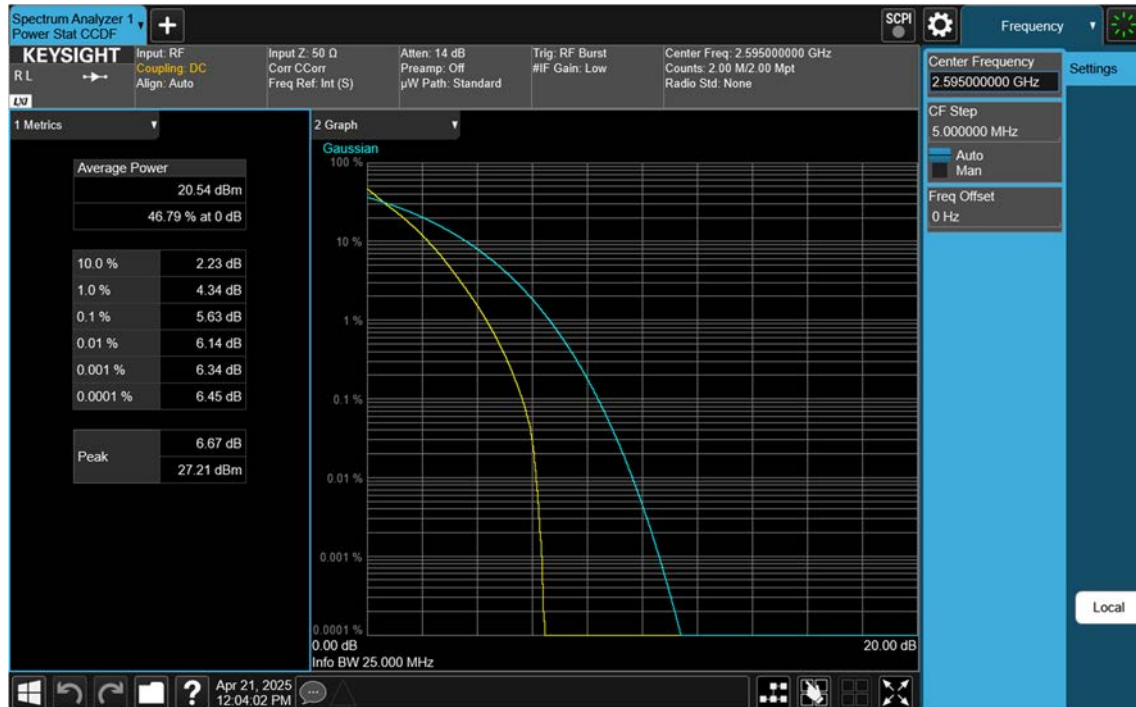
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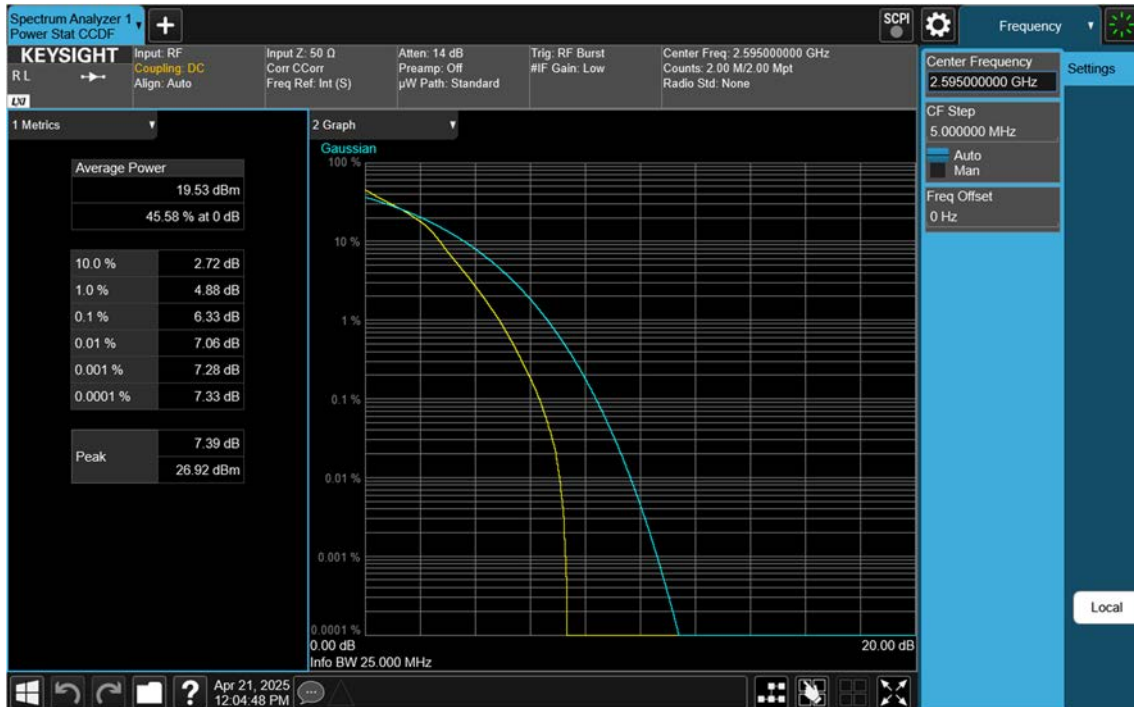
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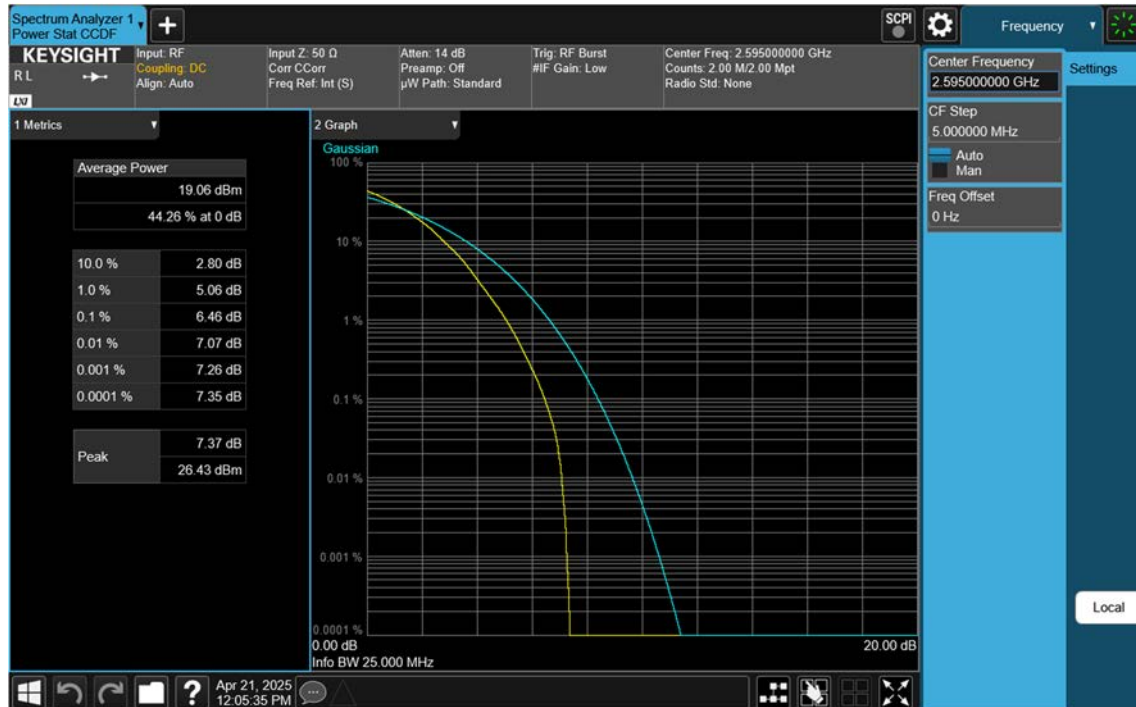
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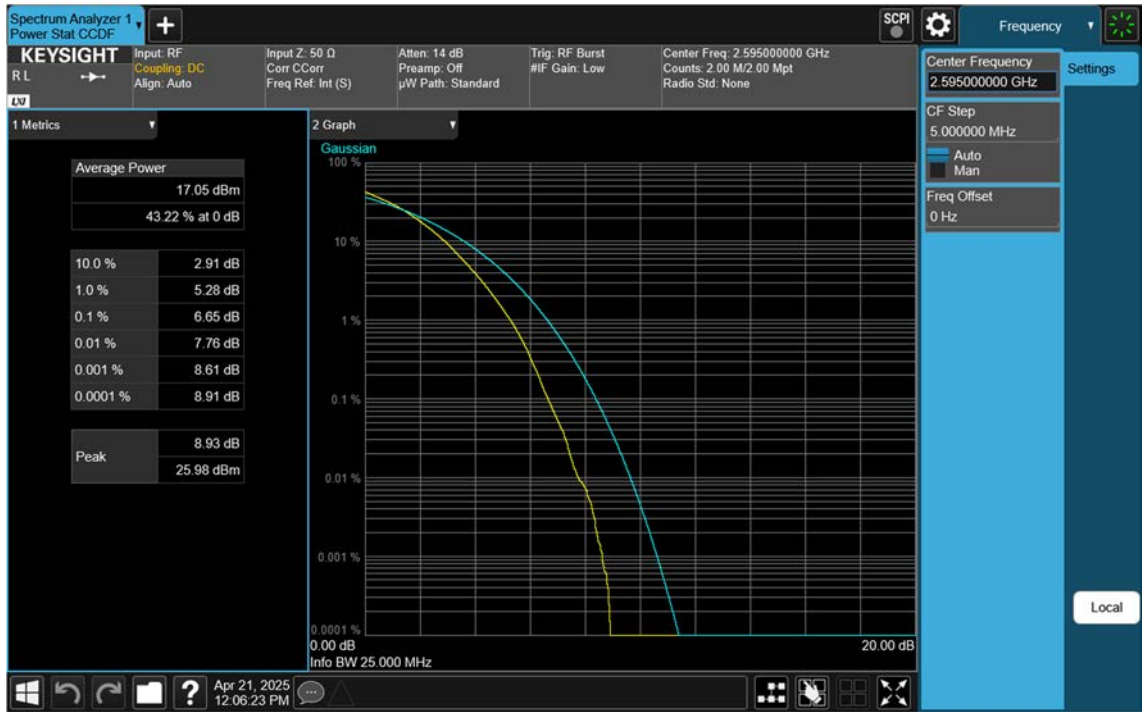
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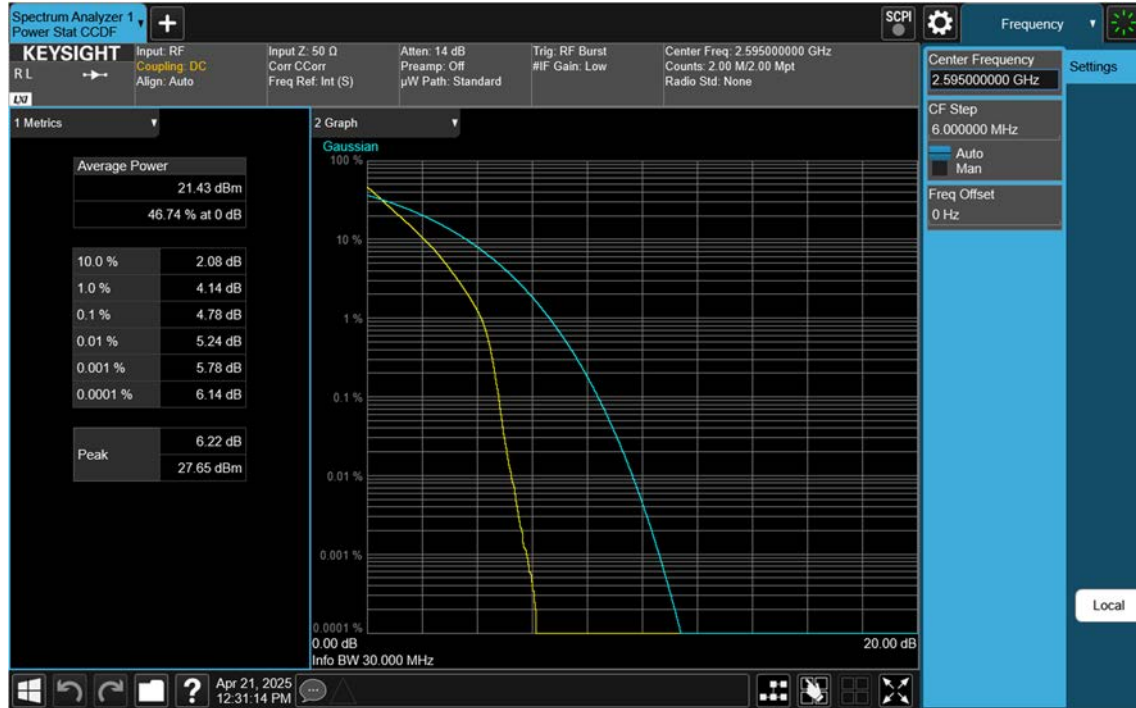
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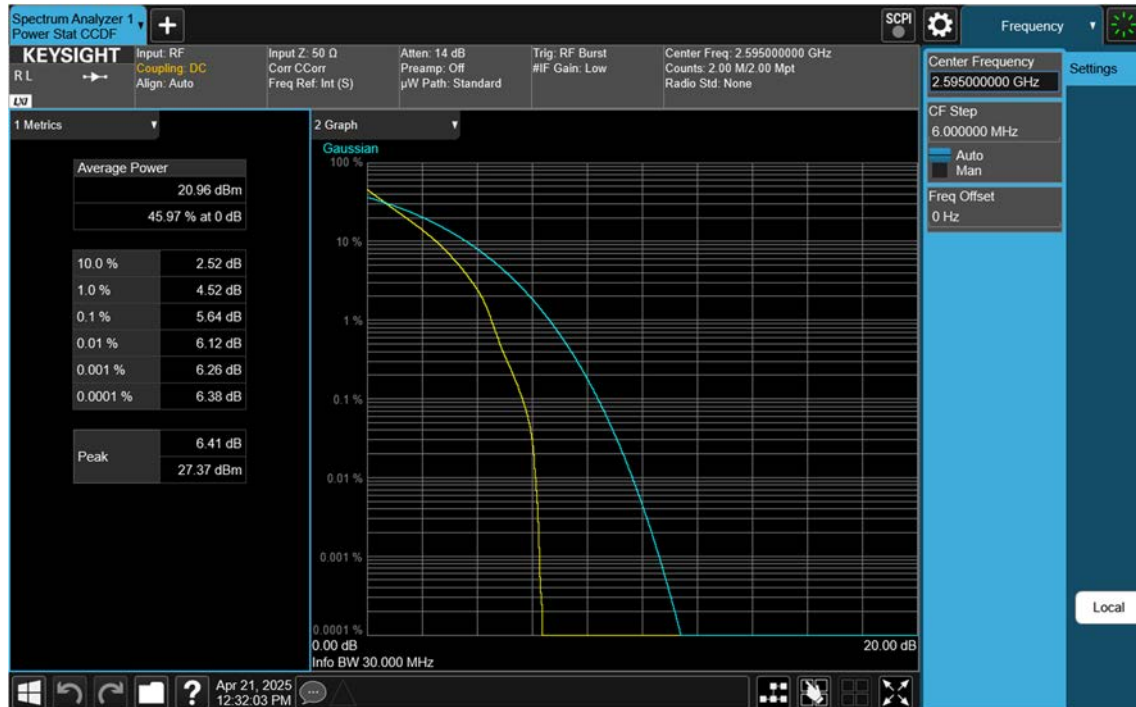
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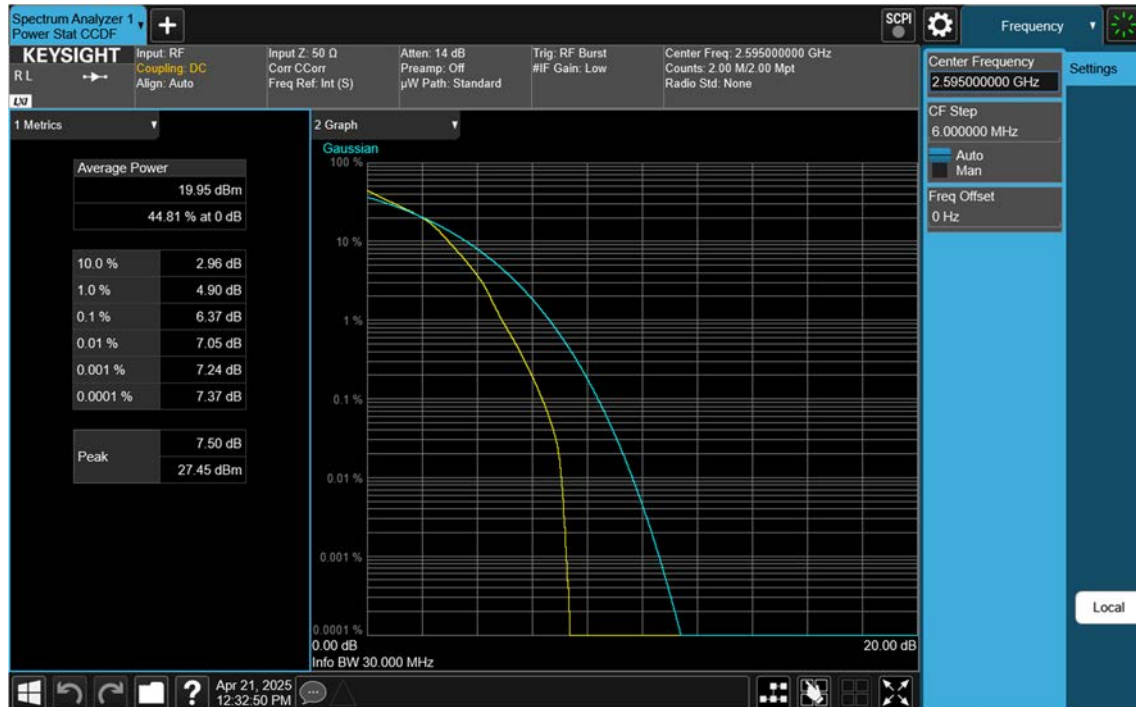
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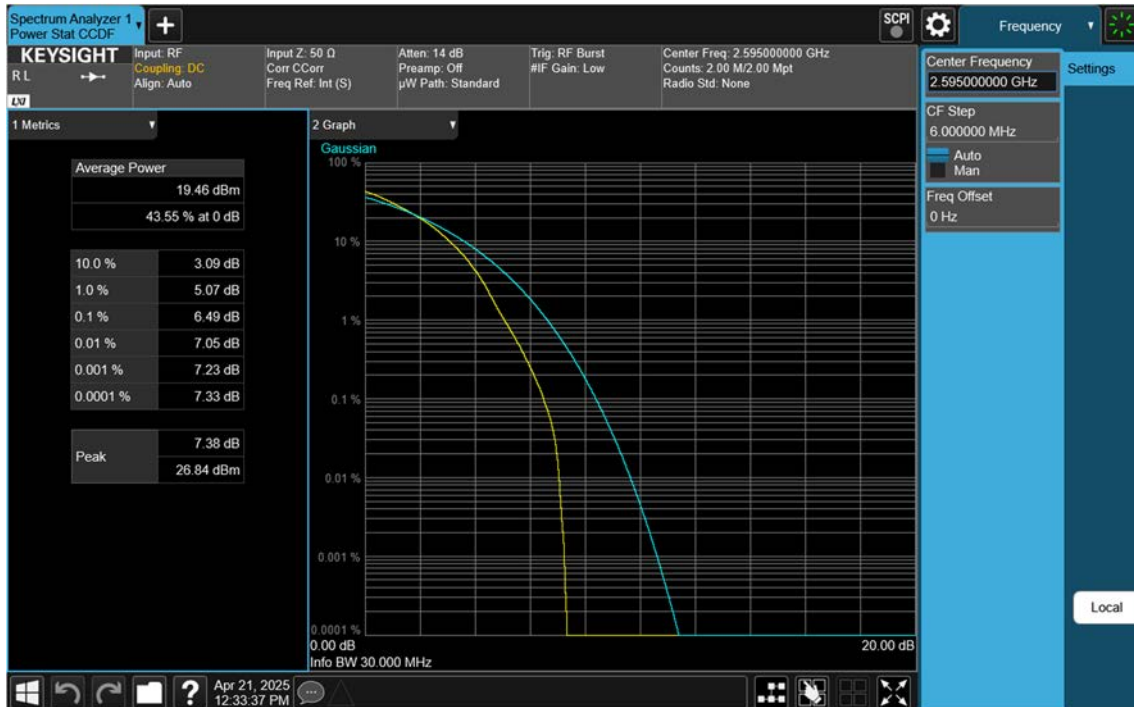
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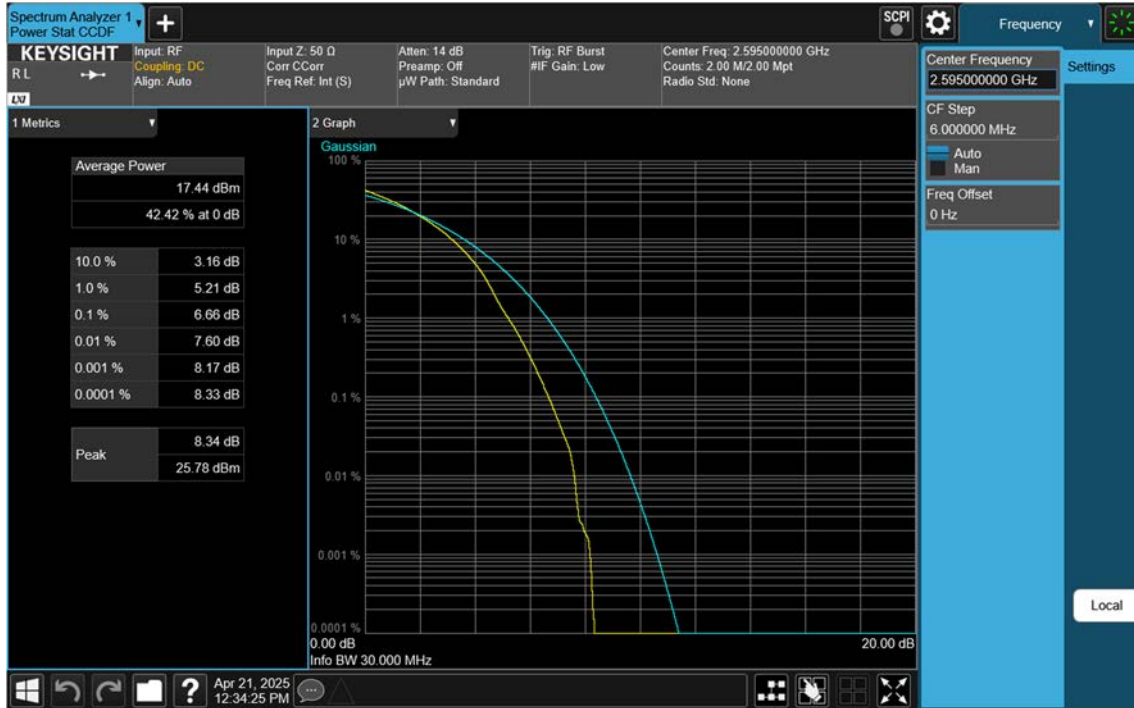
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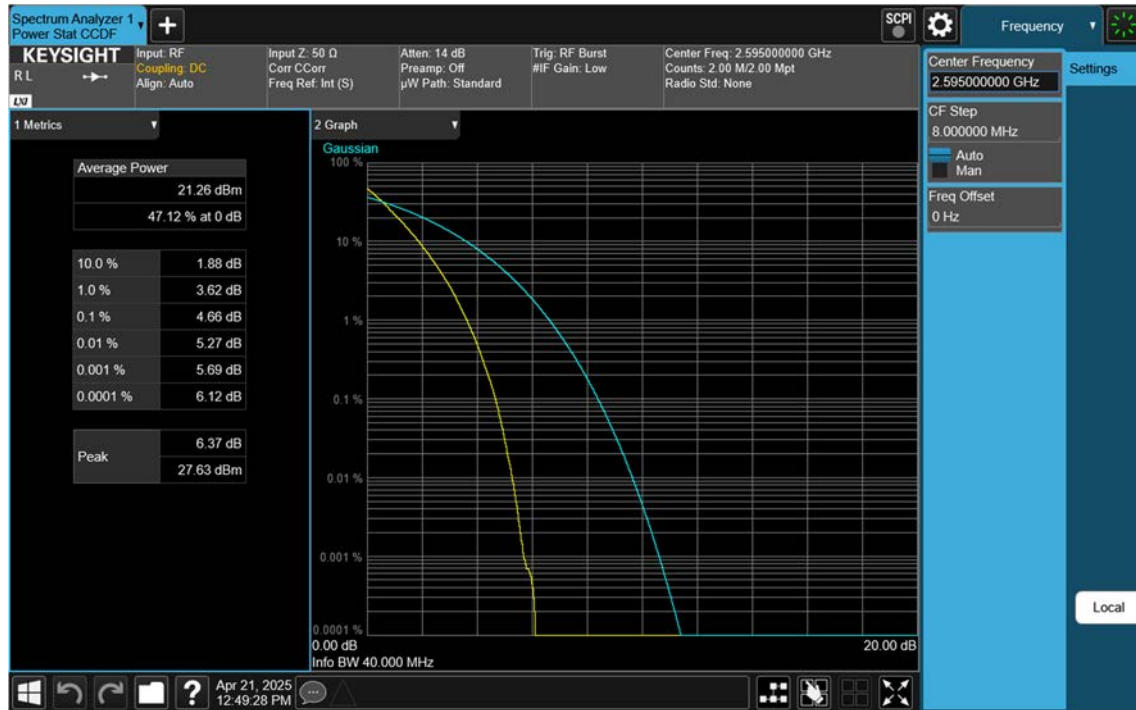
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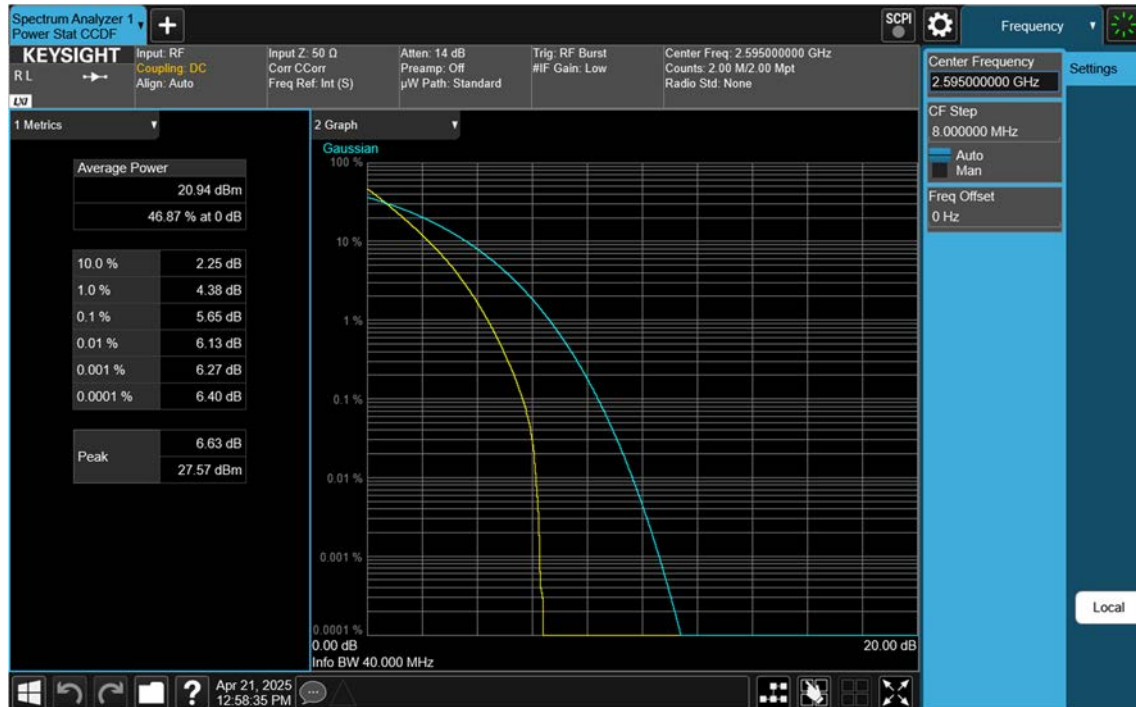
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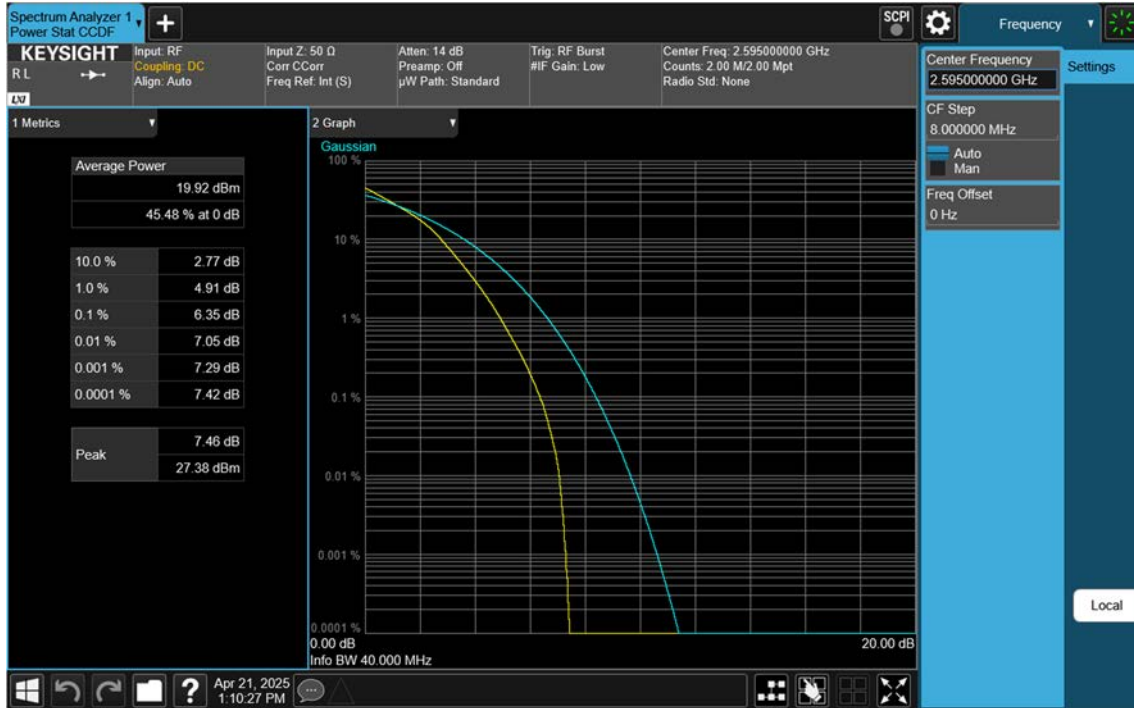
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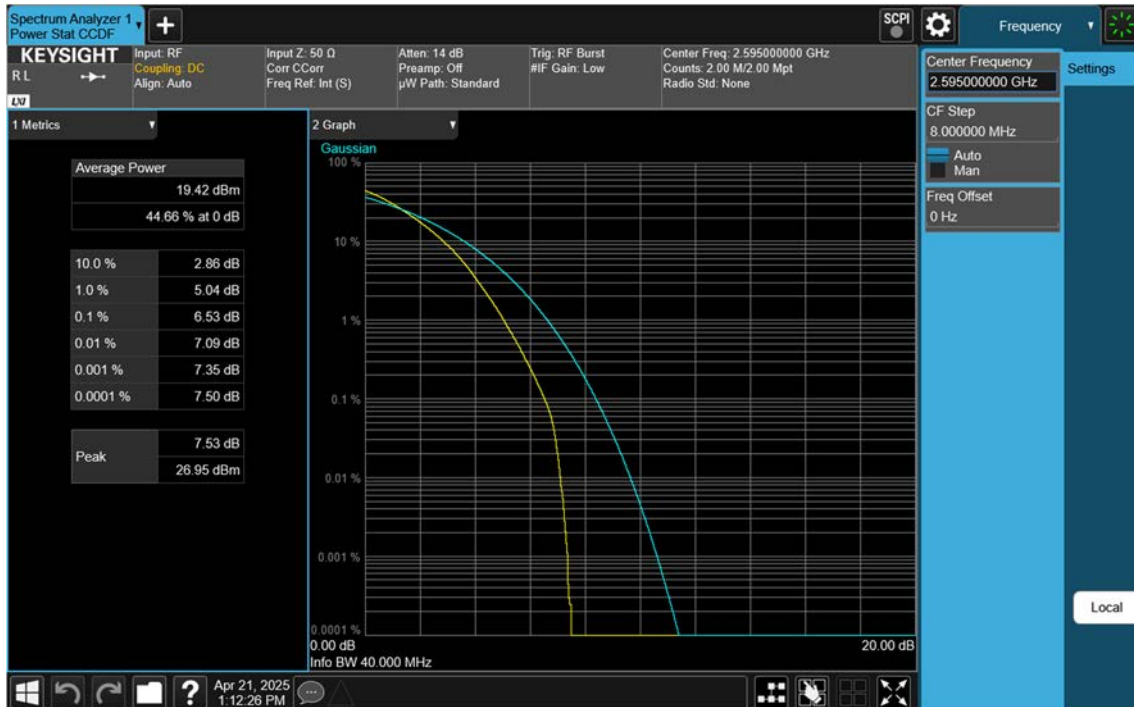
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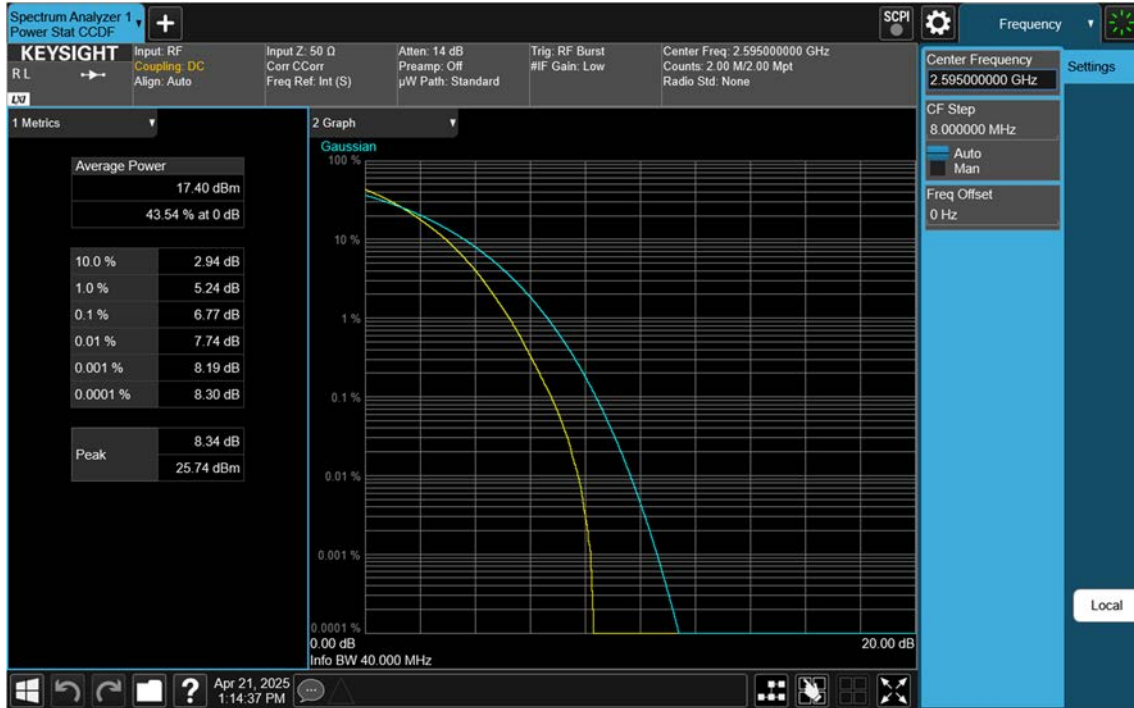
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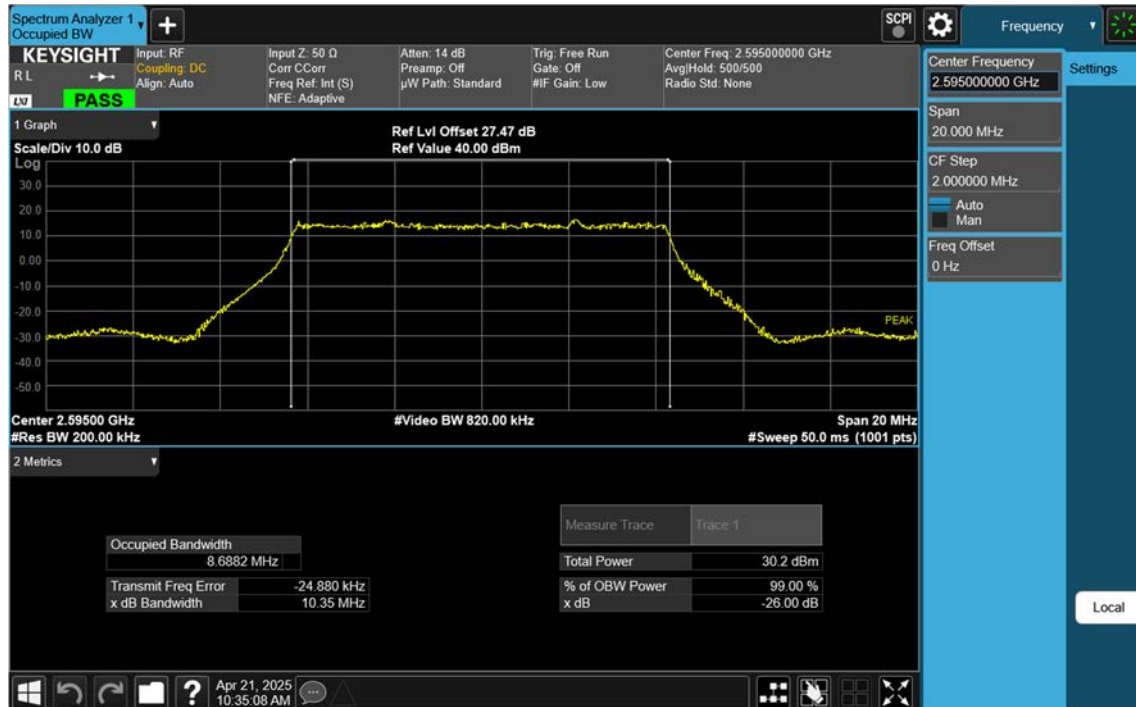
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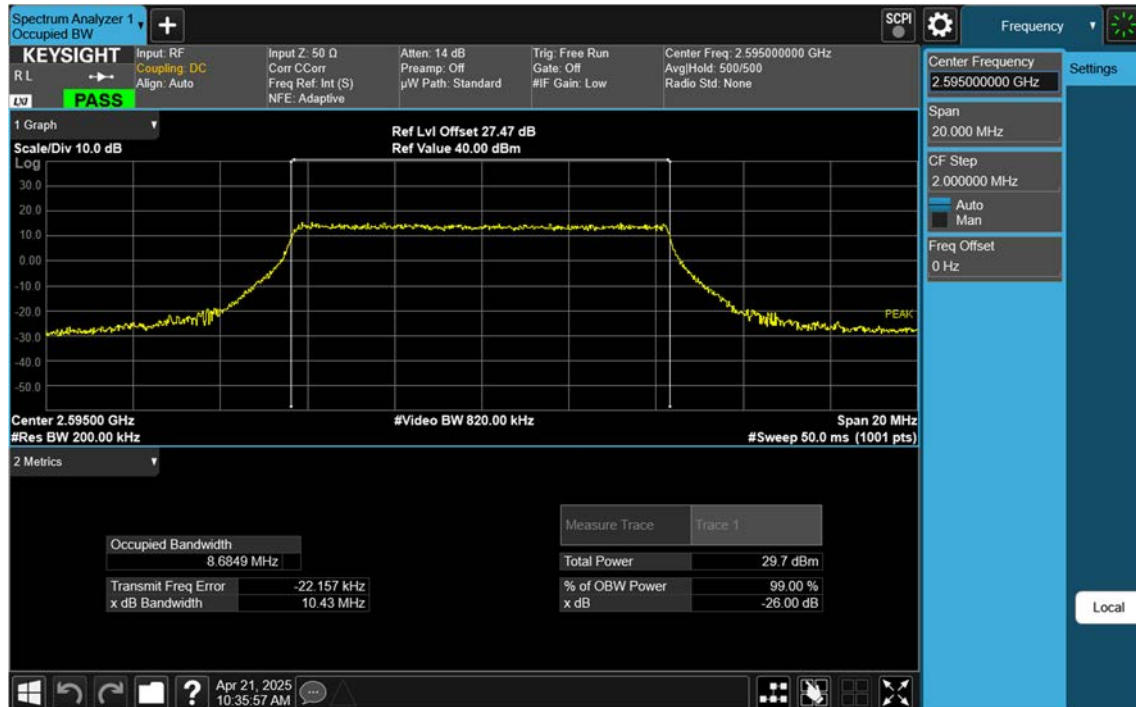
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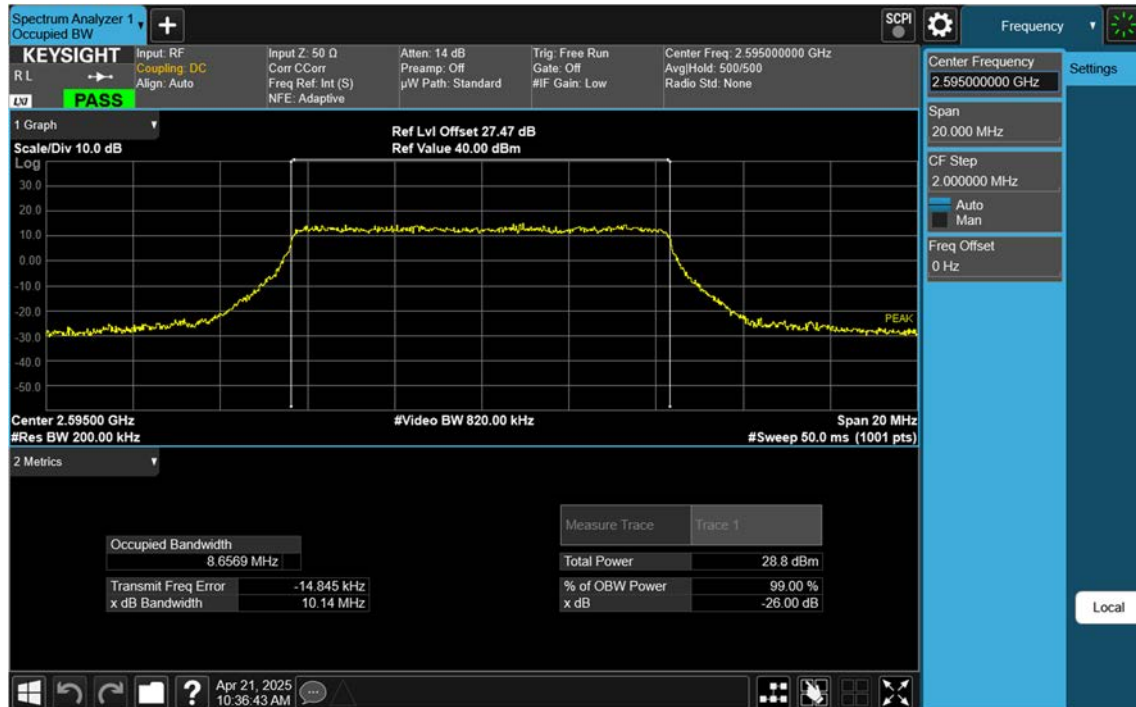
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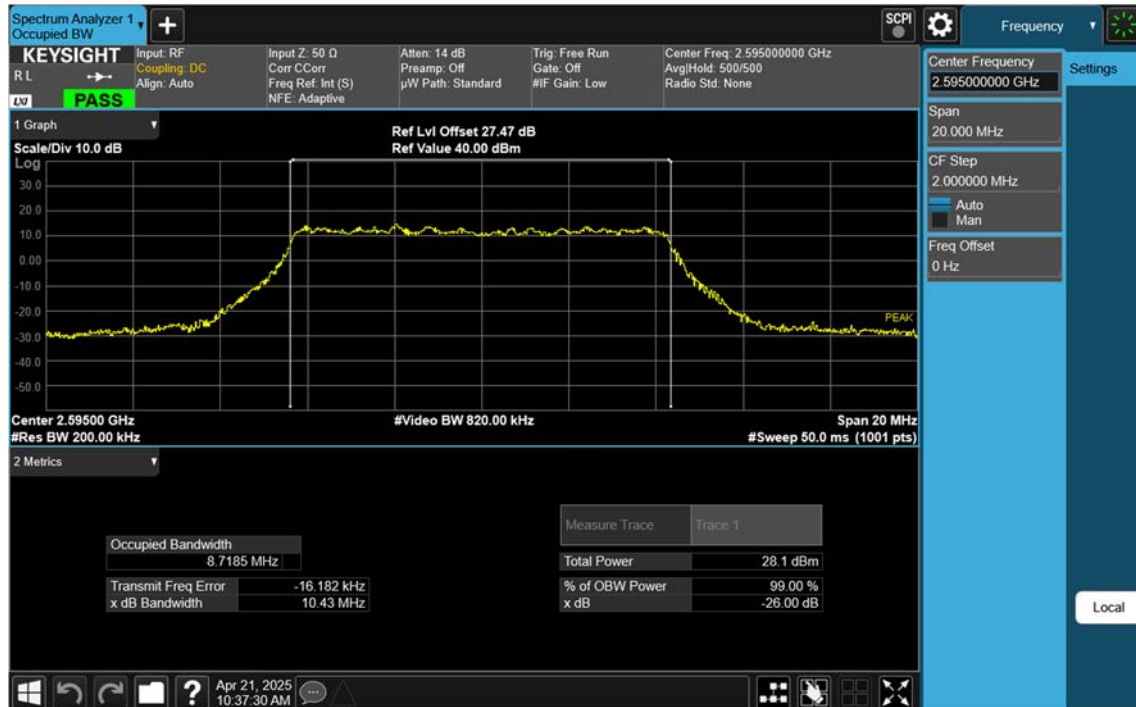
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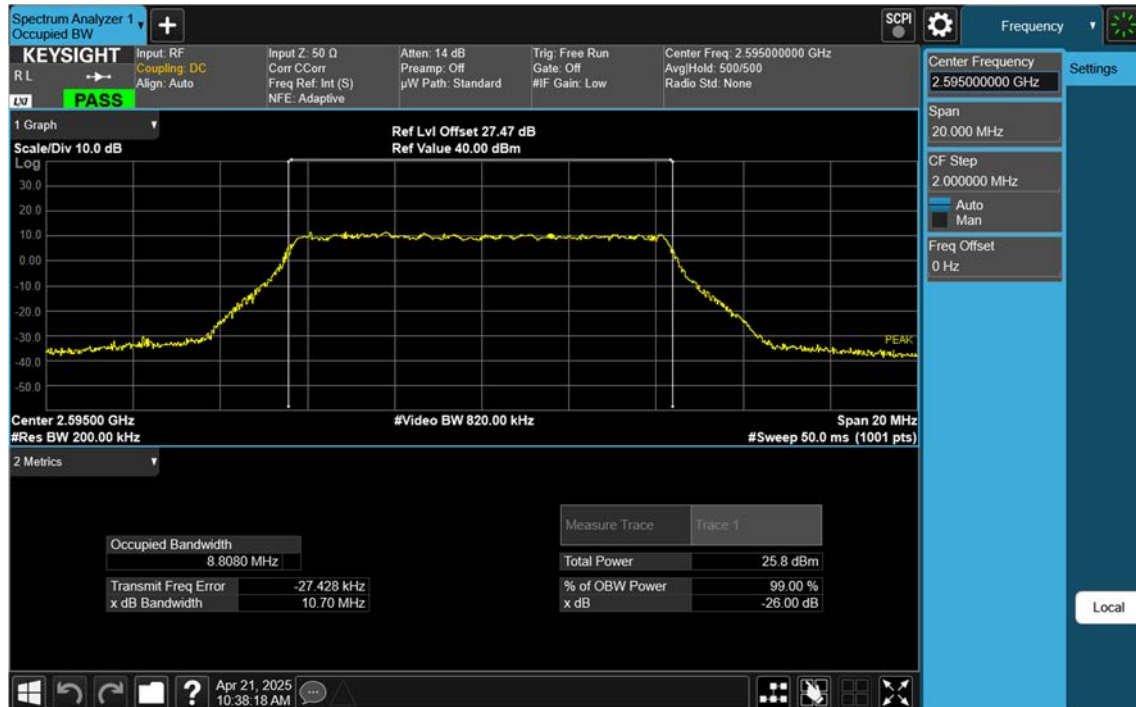
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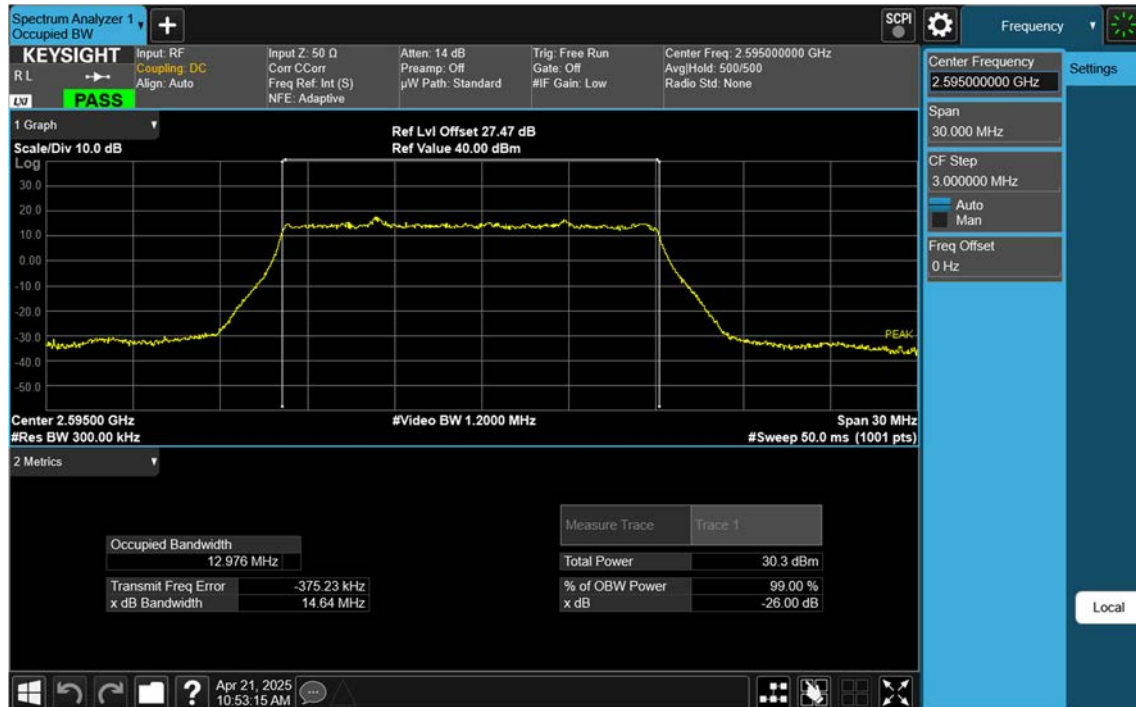
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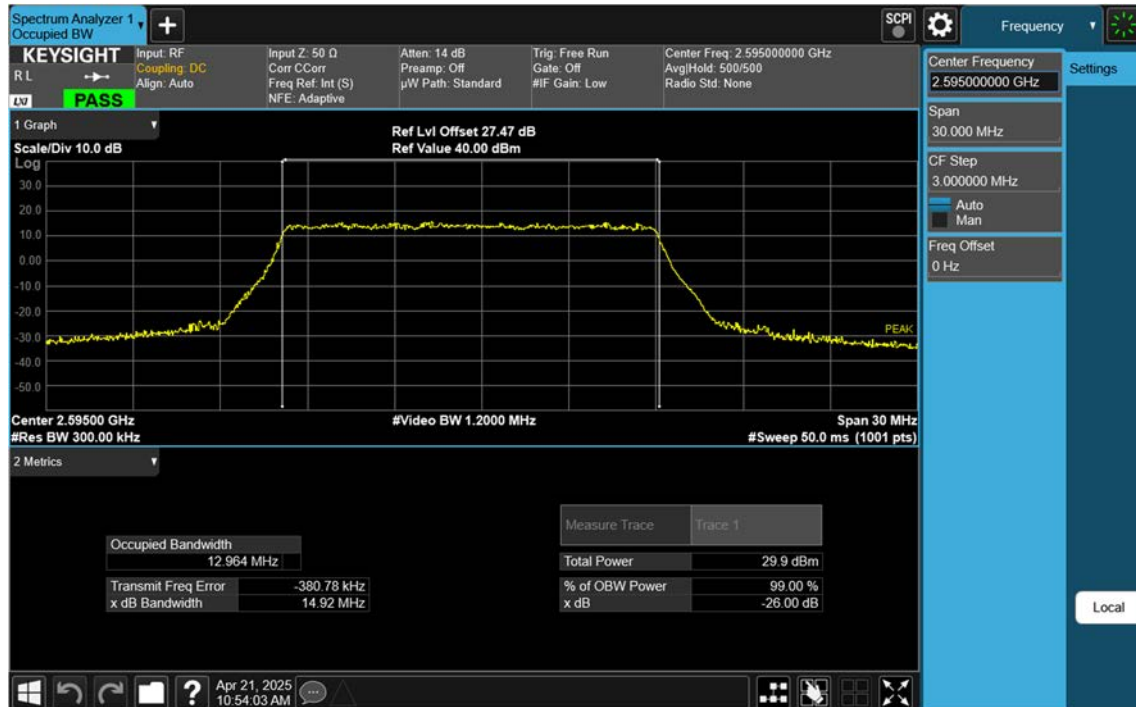
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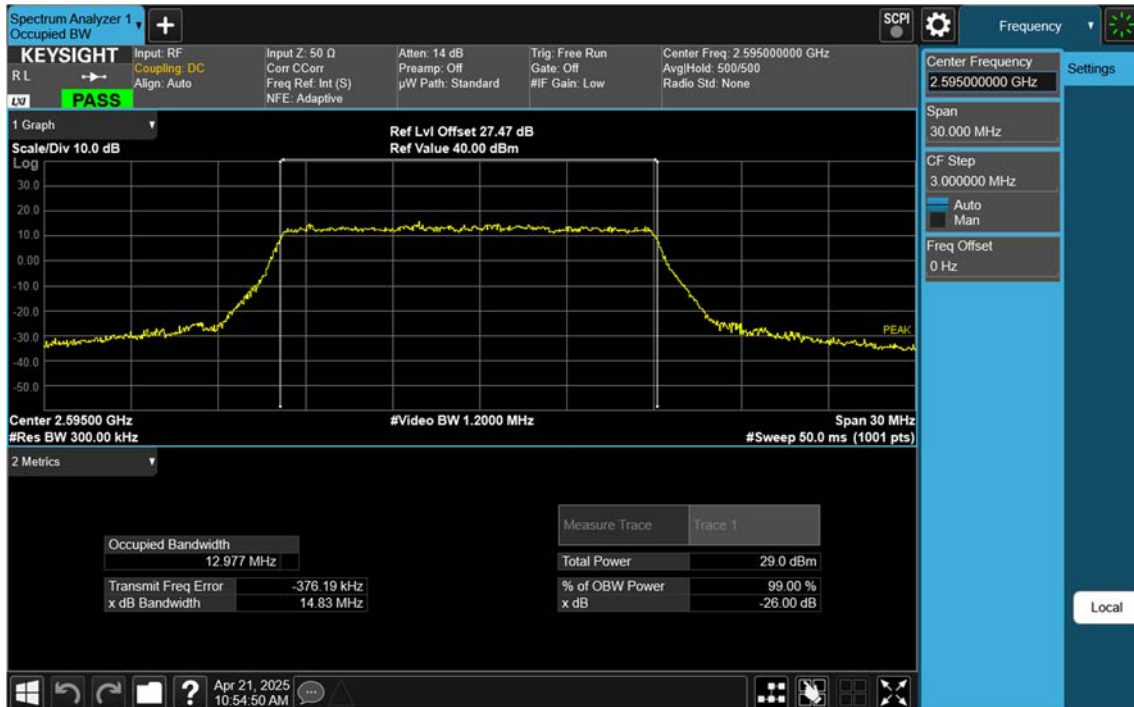
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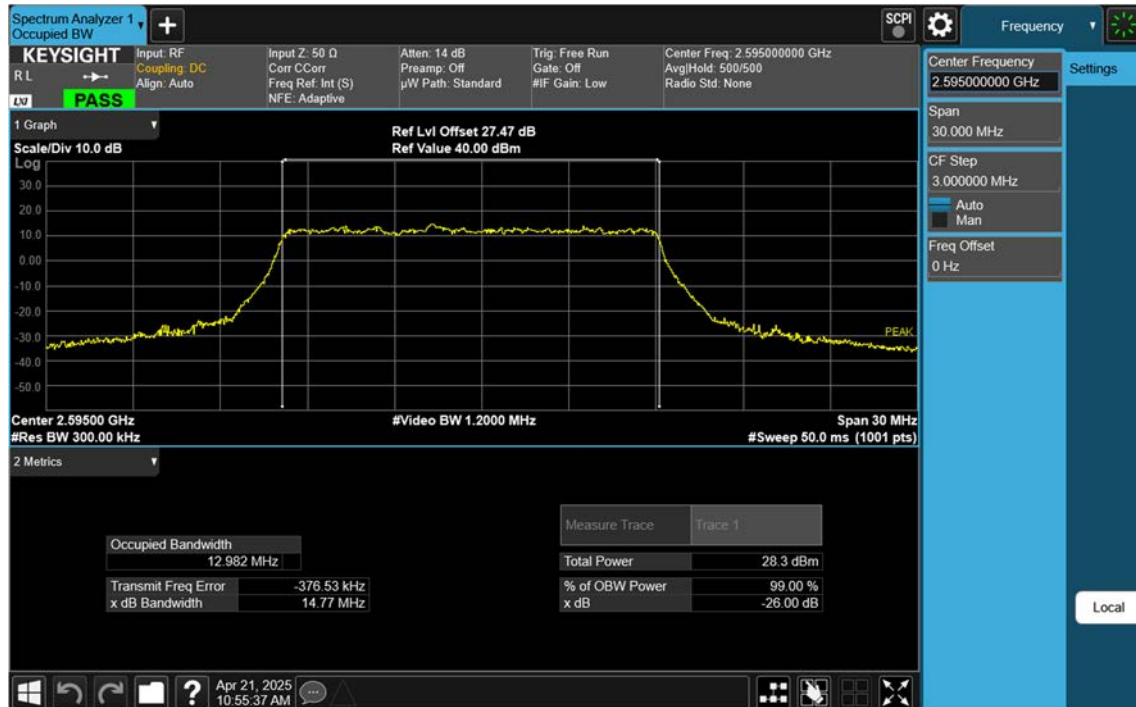
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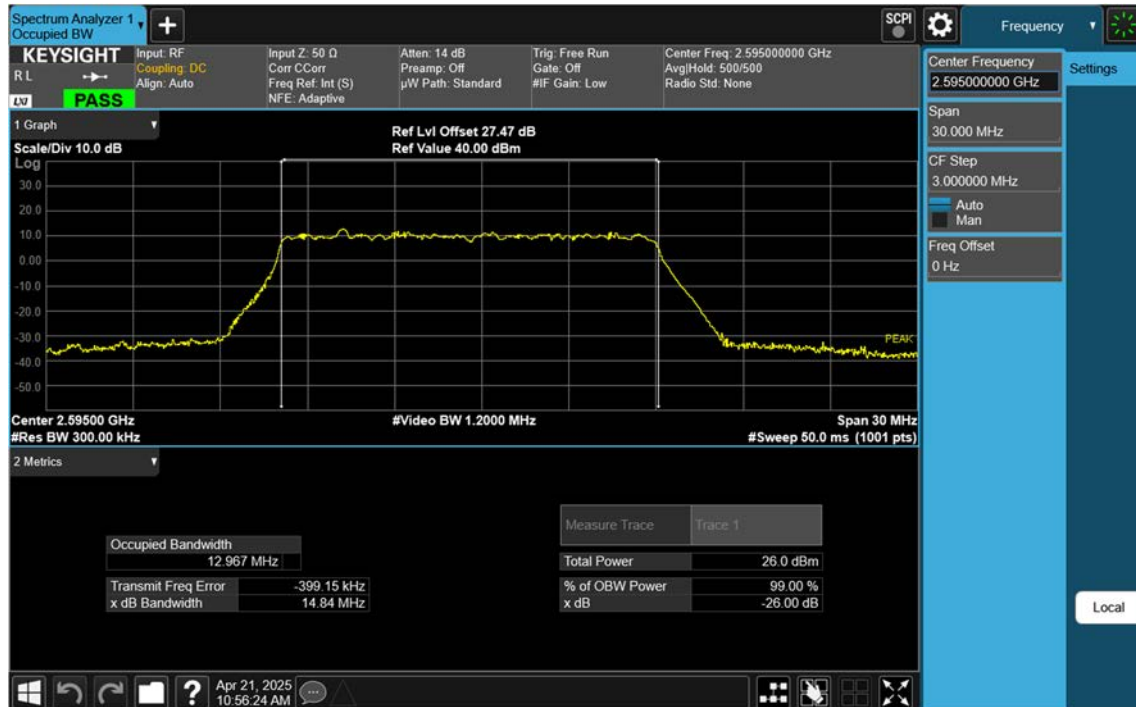
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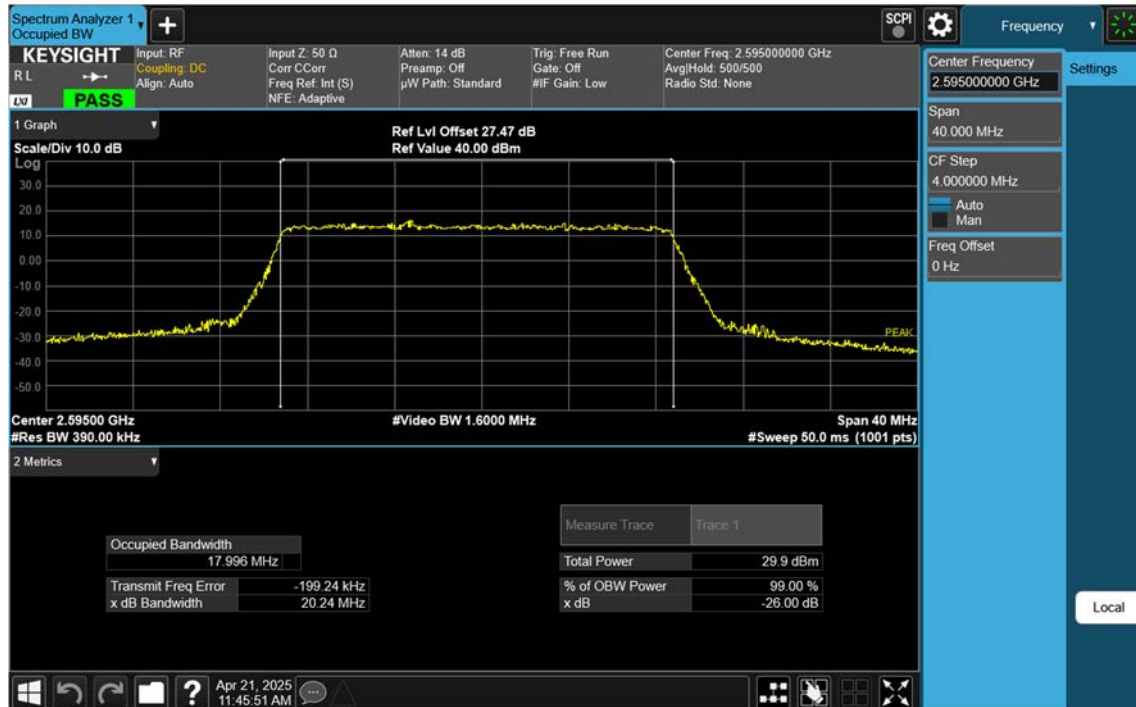
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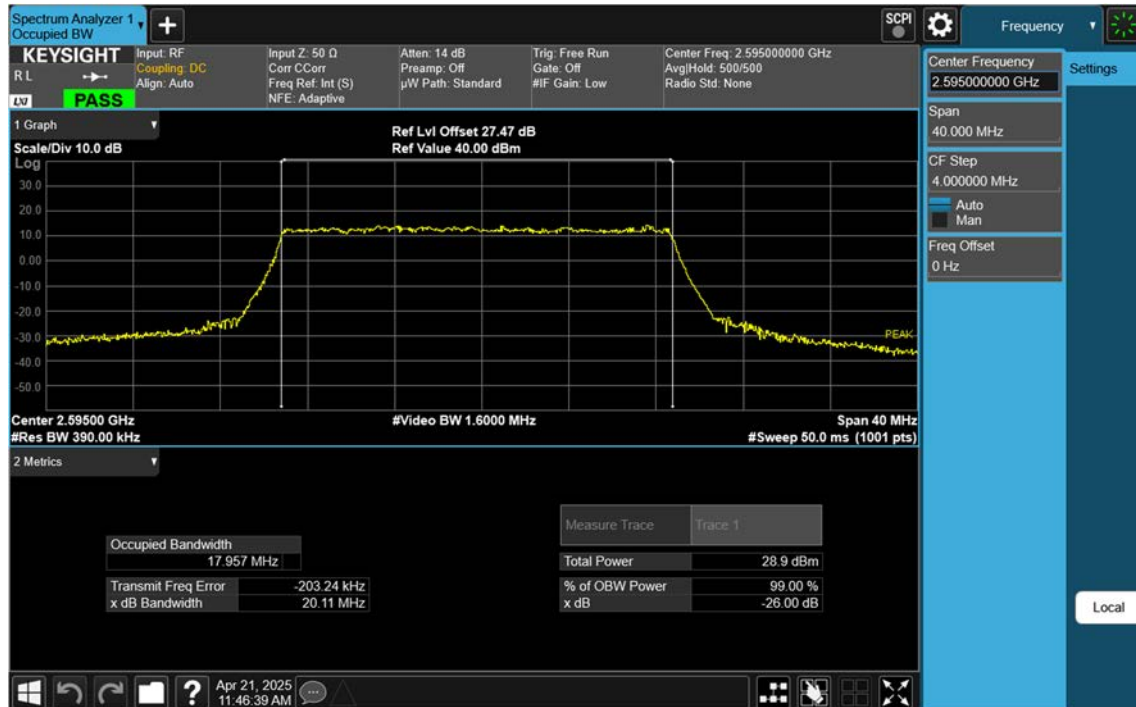
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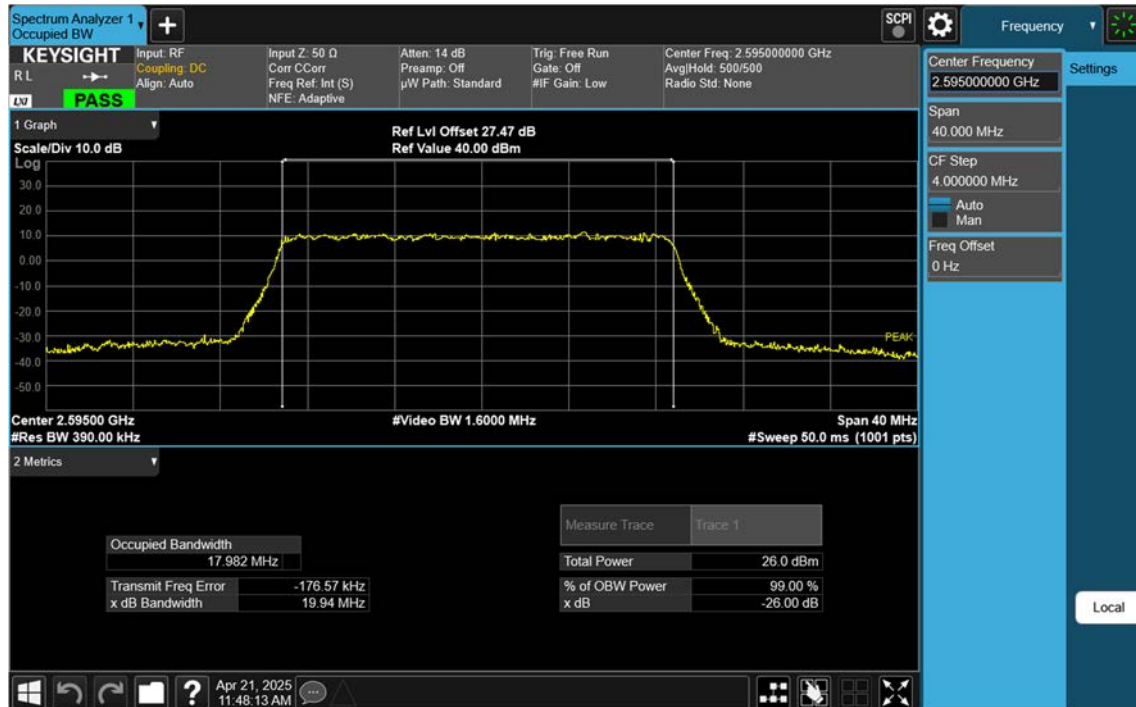
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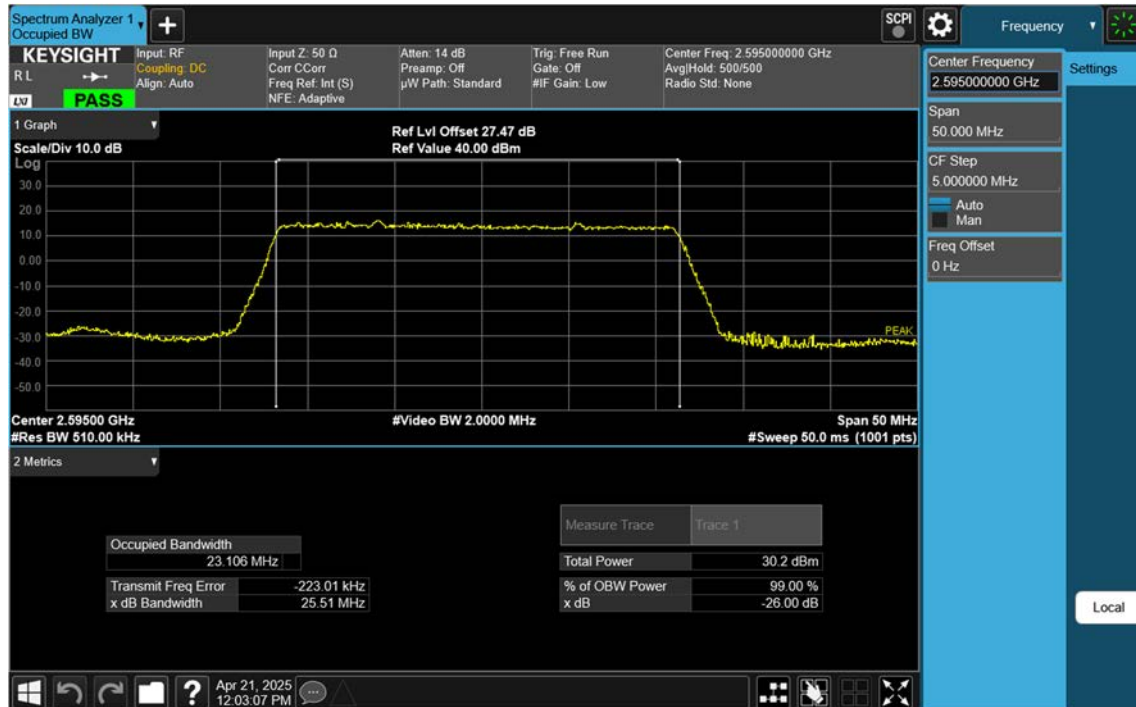
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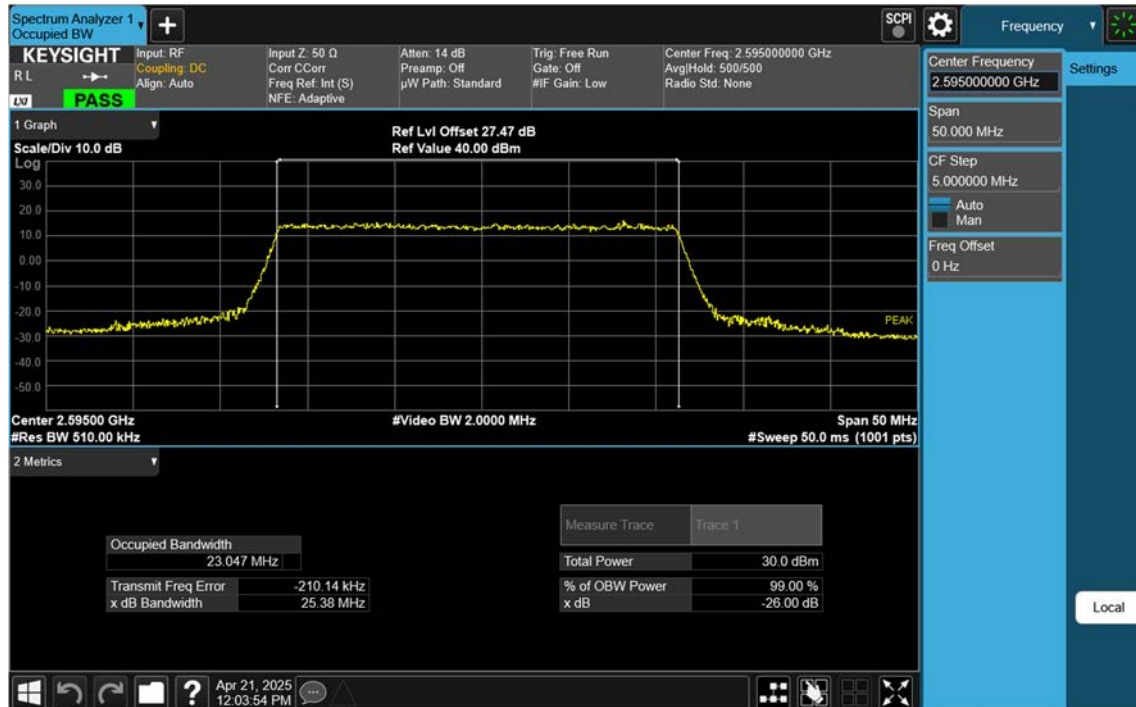
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NR38_25 M_OBW_Mid_BPSK_FullRB



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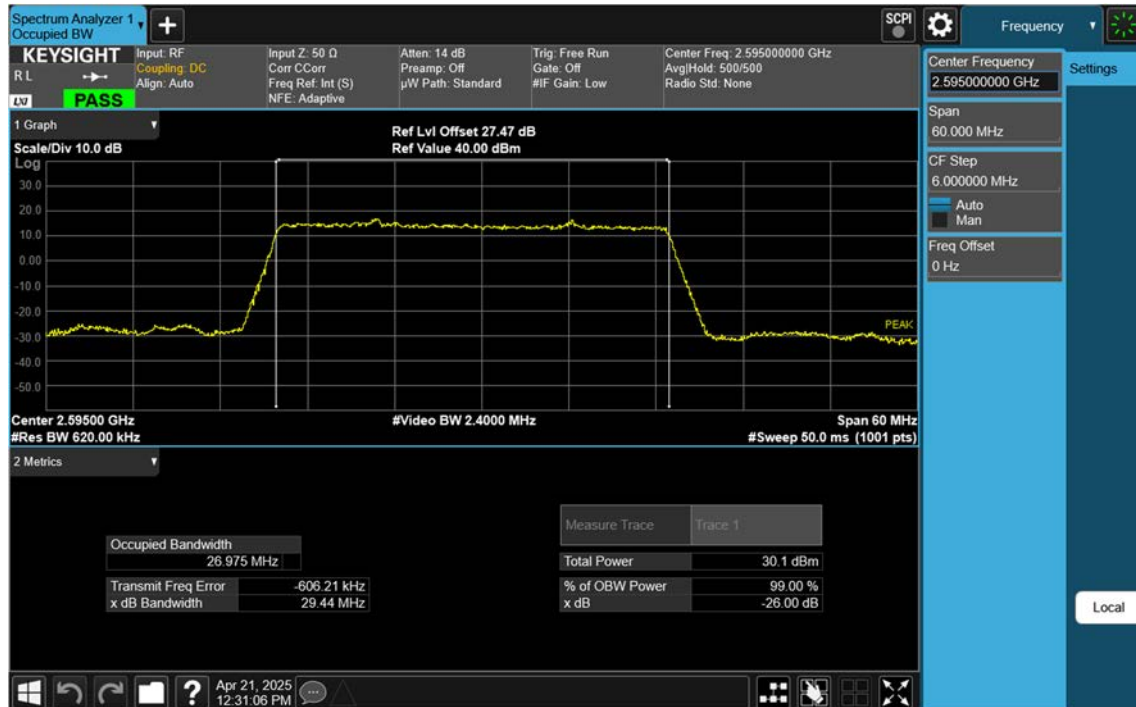
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NR38_25 M_OBW_Mid_256QAM_FullRB



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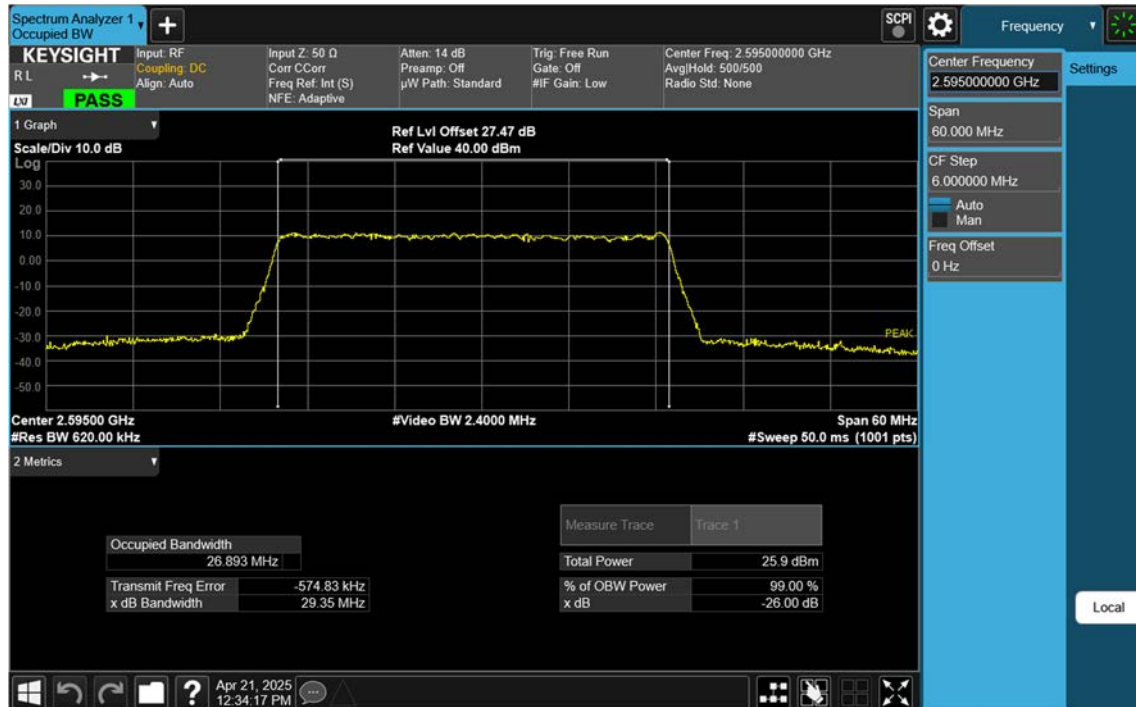
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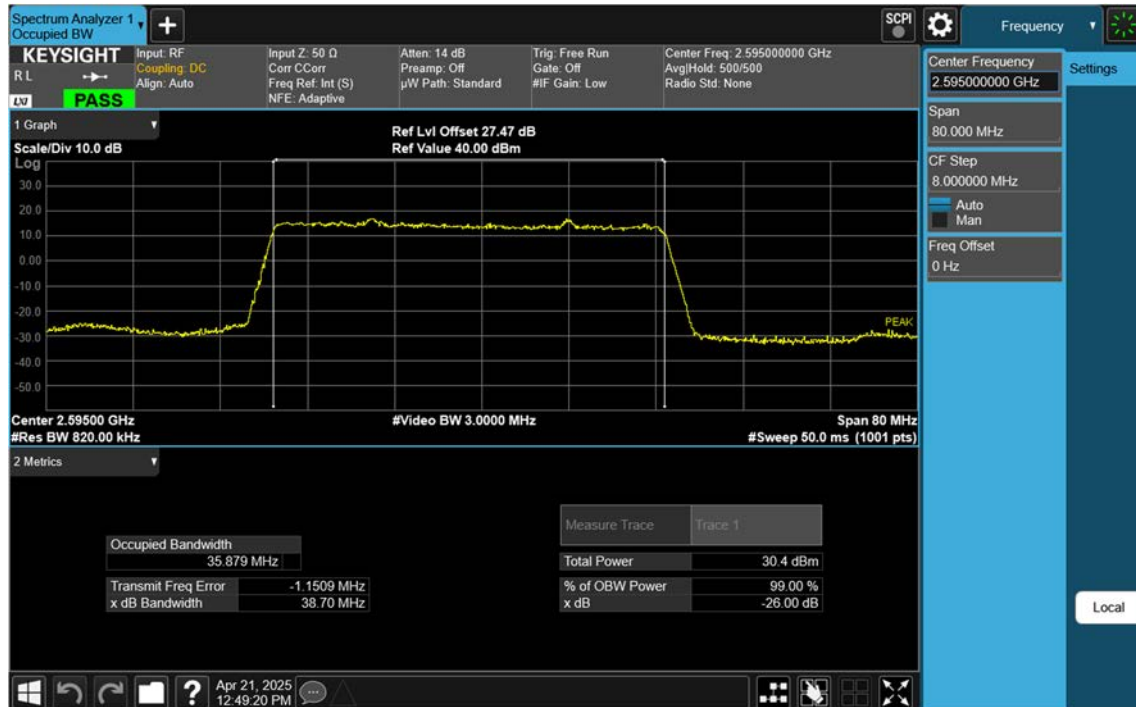
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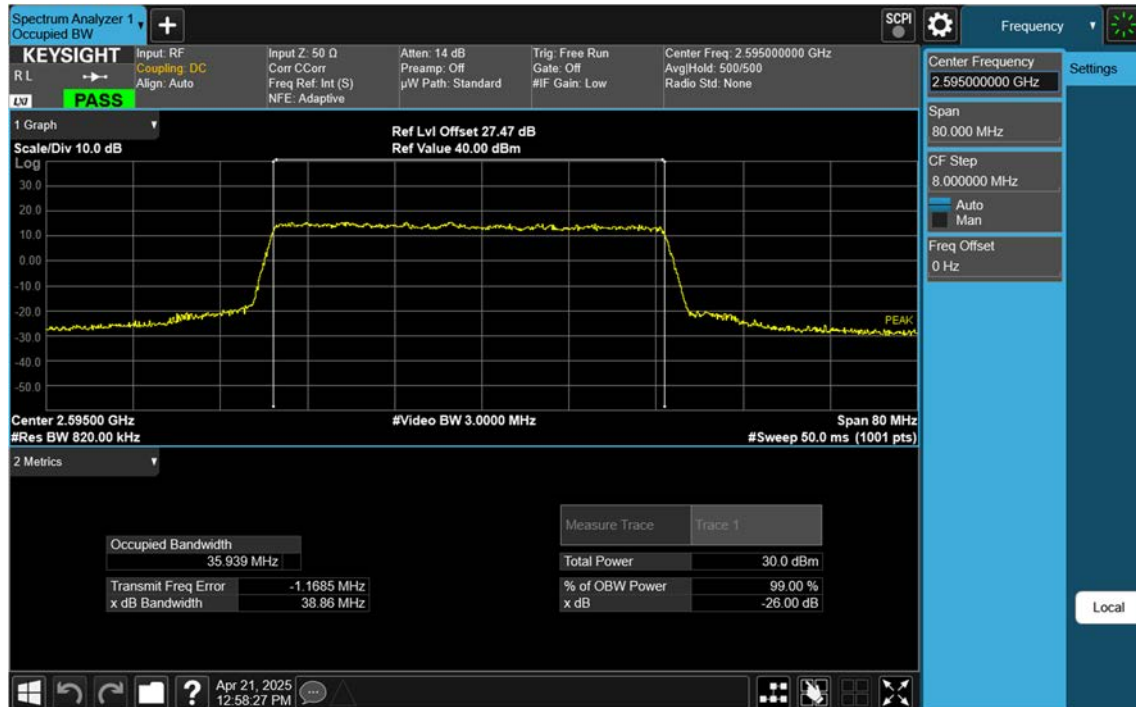
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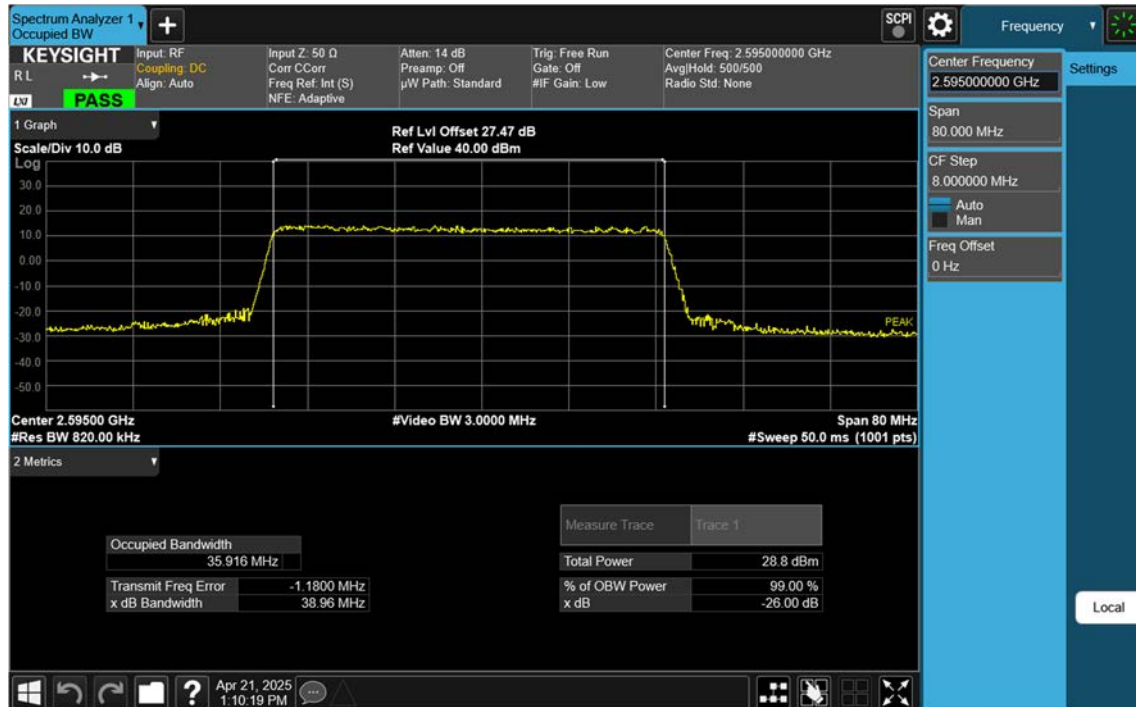
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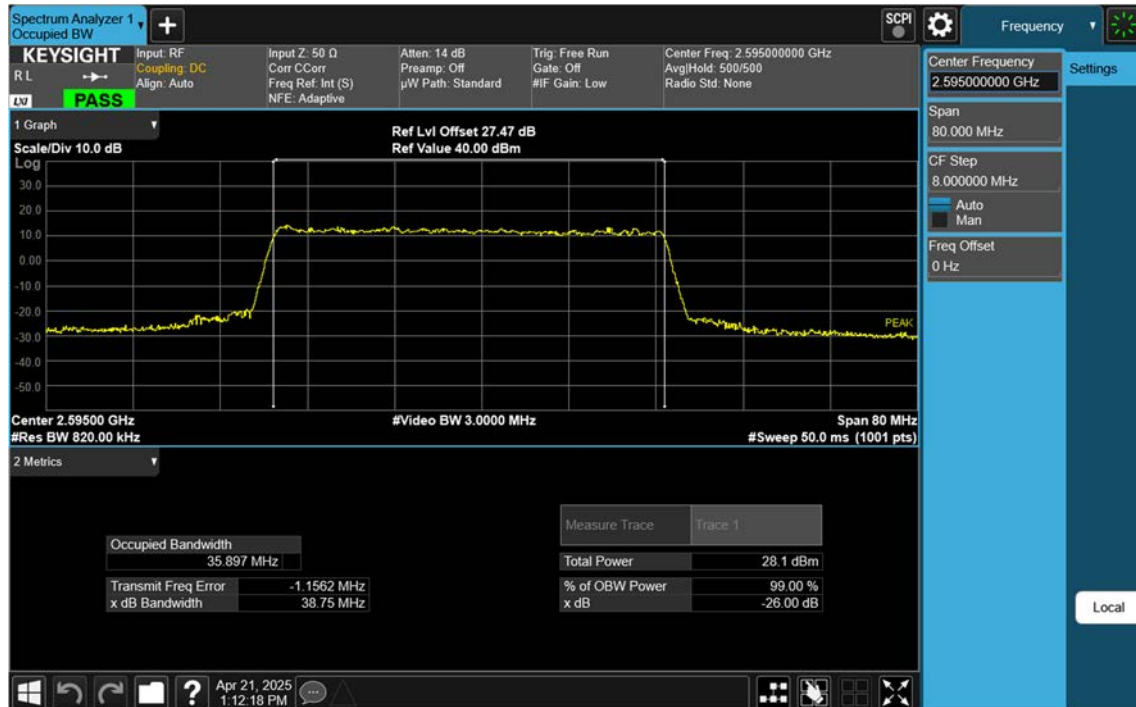
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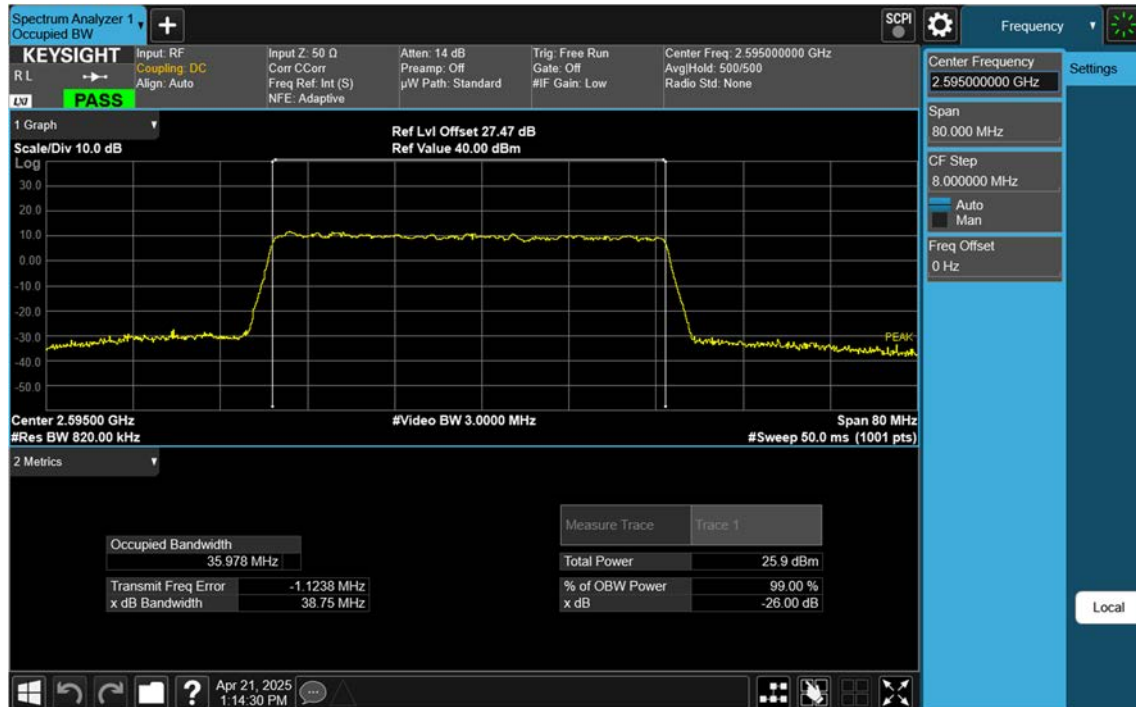
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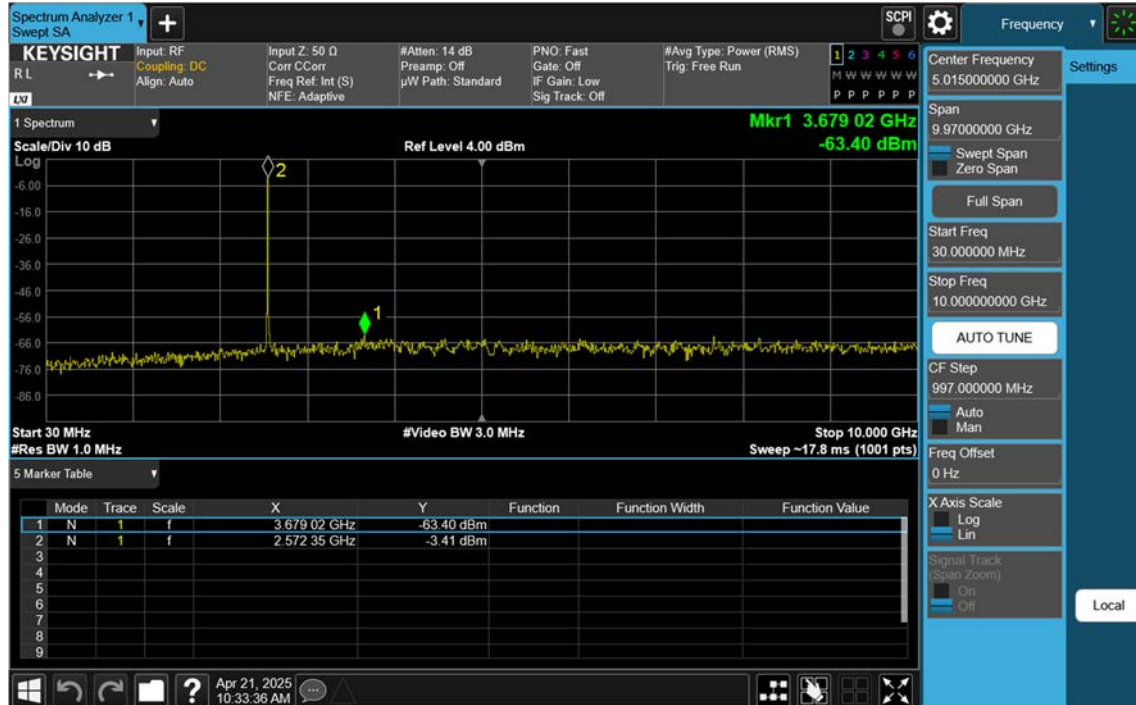
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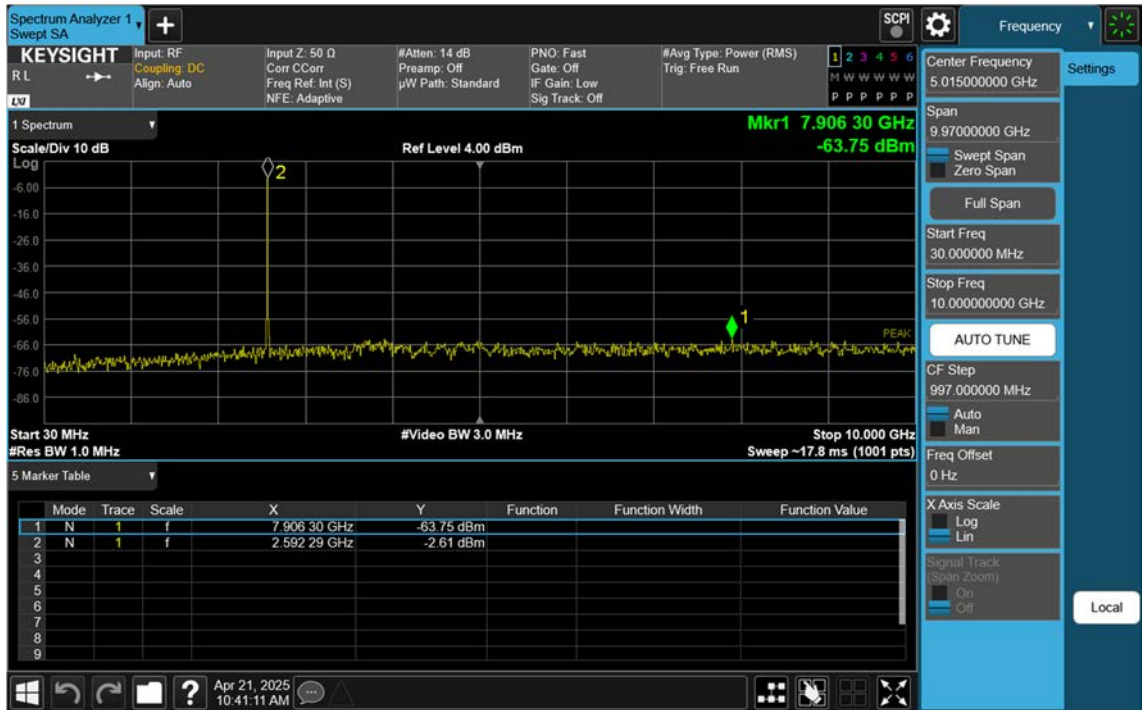
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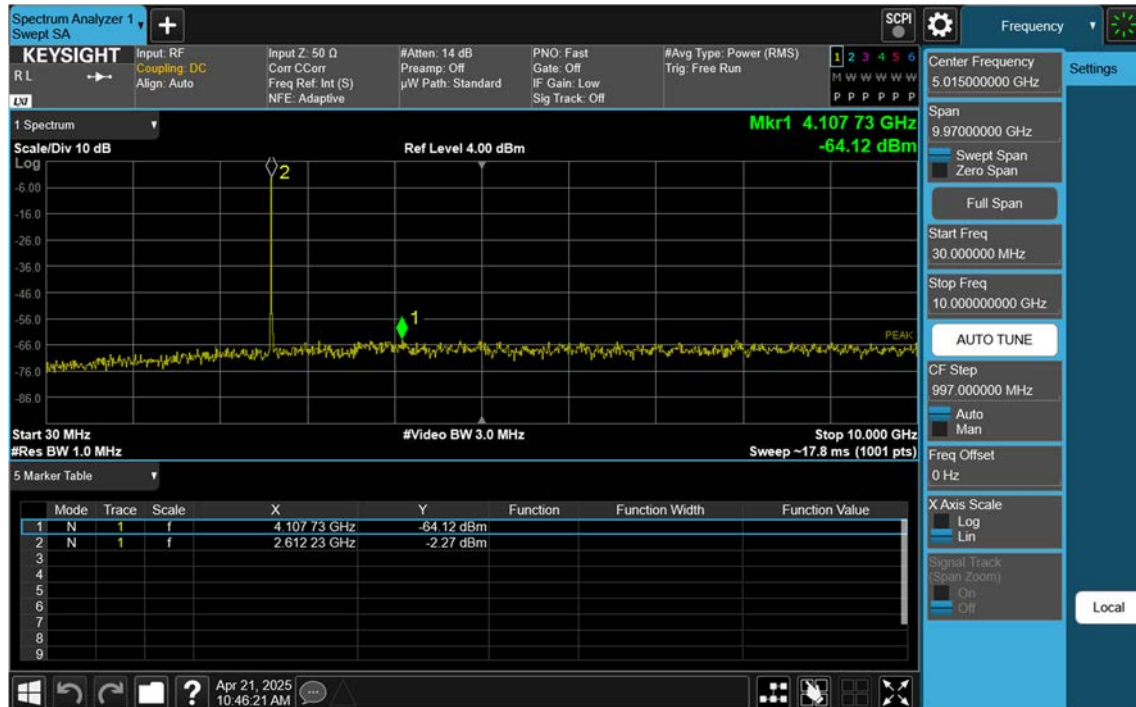
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NR38_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



NR38_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



NR38_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

