

TEST REPORT

FCC Sub6 n41 Test for SC-55F
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2505-FC130

DATE OF ISSUE
June 11, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2505-FC130

DATE OF ISSUE

June 11, 2025

Additional Model

SCG35

Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Mobile Phone

Model Name

SC-55F

Date of Test

May 19, 2025 ~ June 10, 2025

FCC ID

A3LSMF766JPN

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	June 11, 2025	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

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:	A3LSMF766JPN
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile Phone
Model(s):	SC-55F
Additional Model(s):	SCG35
SCS(kHz):	30
Bandwidth(MHz):	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:	2501.010 – 2685.000 : 10 MHz(Sub6 n41) 2503.500 – 2682.480 : 15 MHz(Sub6 n41) 2506.020 – 2679.990 : 20 MHz(Sub6 n41) 2508.510 – 2677.500 : 25 MHz(Sub6 n41) 2511.000 – 2674.980 : 30 MHz(Sub6 n41) 2516.010 – 2670.000 : 40 MHz(Sub6 n41) 2521.020 – 2664.990 : 50 MHz(Sub6 n41) 2526.000 – 2659.980 : 60 MHz(Sub6 n41) 2531.010 – 2655.000 : 70 MHz(Sub6 n41) 2536.020 – 2649.990 : 80 MHz(Sub6 n41) 2541.000 – 2644.980 : 90 MHz(Sub6 n41) 2546.010 – 2640.000 : 100 MHz(Sub6 n41)
Date(s) of Tests:	May 19, 2025 ~ June 09, 2025
Serial number:	Radiated : R3CY30P6LBM Conducted : R3CY40XH65N
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 n41 (10)	2501.010 – 2685.000	8M69G7D	PI/2 BPSK	0.116	20.64
		8M67G7D	QPSK	0.115	20.62
		8M74W7D	16QAM	0.092	19.65
		8M74W7D	64QAM	0.064	18.07
		8M68W7D	256QAM	0.042	16.19
Sub6 n41 (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.118	20.72
		13M0G7D	QPSK	0.117	20.67
		13M0W7D	16QAM	0.096	19.83
		13M0W7D	64QAM	0.068	18.30
		13M0W7D	256QAM	0.042	16.23
Sub6 n41 (20)	2506.020 – 2679.990	18M0G7D	PI/2 BPSK	0.121	20.81
		18M0G7D	QPSK	0.120	20.79
		18M0W7D	16QAM	0.099	19.95
		18M0W7D	64QAM	0.066	18.22
		18M0W7D	256QAM	0.042	16.20
Sub6 n41 (25)	2508.510 – 2677.500	23M0G7D	PI/2 BPSK	0.119	20.77
		23M1G7D	QPSK	0.119	20.75
		23M0W7D	16QAM	0.093	19.68
		23M0W7D	64QAM	0.066	18.21
		23M0W7D	256QAM	0.042	16.23
Sub6 n41 (30)	2511.000 – 2674.980	27M1G7D	PI/2 BPSK	0.121	20.83
		27M0G7D	QPSK	0.121	20.82
		26M9W7D	16QAM	0.096	19.81
		27M0W7D	64QAM	0.068	18.32
		26M9W7D	256QAM	0.042	16.24
Sub6 n41 (40)	2516.010 – 2670.000	36M0G7D	PI/2 BPSK	0.122	20.87
		36M0G7D	QPSK	0.122	20.85
		36M0W7D	16QAM	0.095	19.77
		36M0W7D	64QAM	0.068	18.31
		36M1W7D	256QAM	0.043	16.33
Sub6 n41 (50)	2521.020 – 2664.990	45M9G7D	PI/2 BPSK	0.122	20.87
		46M0G7D	QPSK	0.119	20.77
		46M1W7D	16QAM	0.094	19.71
		45M9W7D	64QAM	0.066	18.17
		45M8W7D	256QAM	0.041	16.10

Sub6 n41 (60)	2526.000 – 2659.980	58M2G7D	PI/2 BPSK	0.120	20.79
		58M1G7D	QPSK	0.119	20.74
		58M3W7D	16QAM	0.096	19.81
		58M3W7D	64QAM	0.068	18.31
		58M3W7D	256QAM	0.041	16.18
Sub6 n41 (70)	2531.010 – 2655.000	64M9G7D	PI/2 BPSK	0.115	20.61
		64M7G7D	QPSK	0.114	20.58
		64M9W7D	16QAM	0.092	19.63
		64M9W7D	64QAM	0.063	18.02
		64M8W7D	256QAM	0.041	16.08
Sub6 n41 (80)	2536.020 – 2649.990	77M5G7D	PI/2 BPSK	0.115	20.62
		77M6G7D	QPSK	0.114	20.57
		77M4W7D	16QAM	0.093	19.67
		77M5W7D	64QAM	0.064	18.06
		77M8W7D	256QAM	0.038	15.85
Sub6 n41 (90)	2541.000 – 2644.980	87M5G7D	PI/2 BPSK	0.125	20.98
		87M3G7D	QPSK	0.124	20.93
		87M1W7D	16QAM	0.097	19.85
		87M0W7D	64QAM	0.068	18.35
		87M0W7D	256QAM	0.044	16.45
Sub6 n41 (100)	2546.010 – 2640.000	96M9G7D	PI/2 BPSK	0.142	21.53
		96M8G7D	QPSK	0.141	21.50
		96M6W7D	16QAM	0.110	20.43
		96M8W7D	64QAM	0.076	18.80
		96M4W7D	256QAM	0.046	16.65

Sub 5 ANT

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41 (10)	2501.010 – 2685.000	8M68G7D	PI/2 BPSK	0.183	22.63
		8M70G7D	QPSK	0.181	22.57
		8M72W7D	16QAM	0.144	21.59
		8M74W7D	64QAM	0.102	20.08
		8M67W7D	256QAM	0.059	17.72
Sub6 n41 (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.183	22.63
		13M0G7D	QPSK	0.182	22.60
		13M0W7D	16QAM	0.149	21.74
		13M0W7D	64QAM	0.098	19.90
		12M9W7D	256QAM	0.066	18.20
Sub6 n41 (20)	2506.020 – 2679.990	18M0G7D	PI/2 BPSK	0.178	22.50
		18M0G7D	QPSK	0.177	22.48
		18M0W7D	16QAM	0.139	21.44
		18M0W7D	64QAM	0.100	20.01
		17M9W7D	256QAM	0.065	18.10
Sub6 n41 (25)	2508.510 – 2677.500	23M0G7D	PI/2 BPSK	0.189	22.77
		23M1G7D	QPSK	0.188	22.75
		23M1W7D	16QAM	0.150	21.76
		23M1W7D	64QAM	0.104	20.17
		23M0W7D	256QAM	0.066	18.18
Sub6 n41 (30)	2511.000 – 2674.980	27M0G7D	PI/2 BPSK	0.191	22.80
		27M0G7D	QPSK	0.190	22.79
		26M9W7D	16QAM	0.151	21.78
		26M9W7D	64QAM	0.105	20.22
		26M9W7D	256QAM	0.066	18.21
Sub6 n41 (40)	2516.010 – 2670.000	36M0G7D	PI/2 BPSK	0.186	22.70
		36M0G7D	QPSK	0.185	22.67
		36M0W7D	16QAM	0.153	21.86
		35M9W7D	64QAM	0.099	19.97
		36M0W7D	256QAM	0.064	18.07
Sub6 n41 (50)	2521.020 – 2664.990	46M0G7D	PI/2 BPSK	0.183	22.62
		46M0G7D	QPSK	0.182	22.61
		46M0W7D	16QAM	0.147	21.68
		45M9W7D	64QAM	0.100	20.02
		45M9W7D	256QAM	0.063	17.96
Sub6 n41 (60)	2526.000 – 2659.980	58M2G7D	PI/2 BPSK	0.191	22.81
		58M3G7D	QPSK	0.191	22.80

		58M3W7D	16QAM	0.152	21.81
		58M4W7D	64QAM	0.109	20.36
		58M3W7D	256QAM	0.067	18.27
Sub6 n41 (70)	2531.010 – 2655.000	64M8G7D	PI/2 BPSK	0.185	22.66
		64M9G7D	QPSK	0.184	22.64
		64M8W7D	16QAM	0.146	21.64
		65M0W7D	64QAM	0.104	20.16
		64M9W7D	256QAM	0.062	17.92
Sub6 n41 (80)	2536.020 – 2649.990	77M6G7D	PI/2 BPSK	0.185	22.67
		77M5G7D	QPSK	0.184	22.65
		77M4W7D	16QAM	0.148	21.69
		77M5W7D	64QAM	0.102	20.07
		77M8W7D	256QAM	0.066	18.17
Sub6 n41 (90)	2541.000 – 2644.980	87M4G7D	PI/2 BPSK	0.210	23.22
		87M2G7D	QPSK	0.206	23.14
		87M0W7D	16QAM	0.167	22.24
		87M1W7D	64QAM	0.114	20.56
		87M1W7D	256QAM	0.074	18.69
Sub6 n41 (100)	2546.010 – 2640.000	96M9G7D	PI/2 BPSK	0.230	23.61
		96M9G7D	QPSK	0.229	23.60
		96M9W7D	16QAM	0.180	22.56
		96M8W7D	64QAM	0.124	20.95
		96M7W7D	256QAM	0.079	18.95

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;

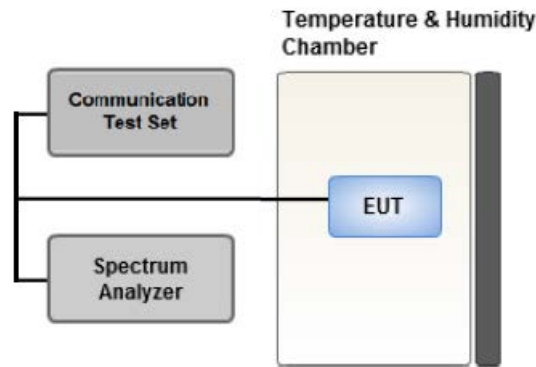
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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)

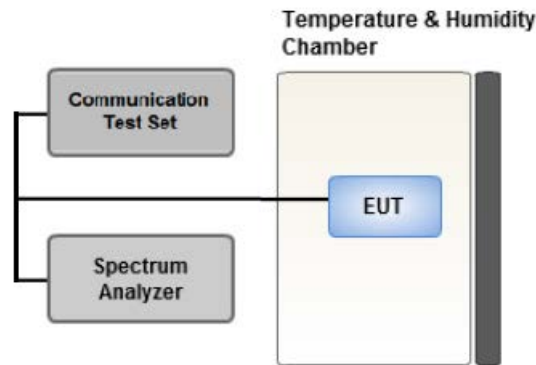
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

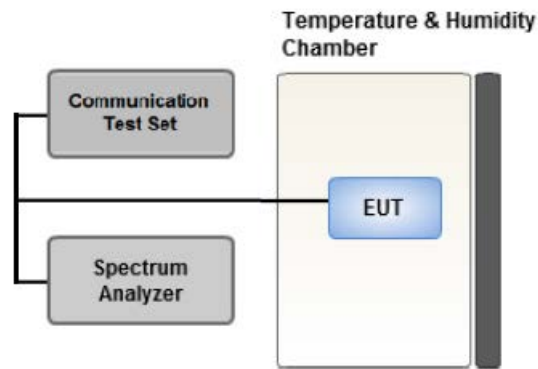
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

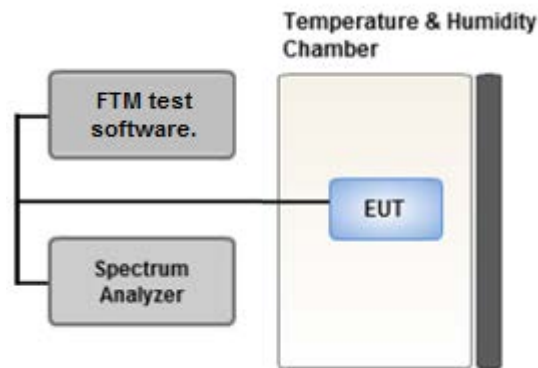
Test Overview

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

3.7 CHANNEL EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum power and at the appropriate frequencies.

All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

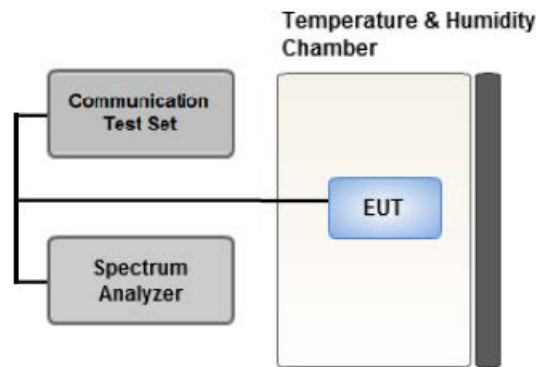
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep Time > (Number of Points) $\times$ (Symbol Period)
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.
- 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 modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- 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.
- SC-55F & additional models were tested and the worst case results are reported.
(Worst case : SM- SC-55F)

[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		X

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
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.
- SC-55F & additional models were tested and the worst case results are reported.
(Worst case : SM- SC-55F)

[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	05/08/2026	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/08/2026	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/08/2026	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/08/2026	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
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/08/2026	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/14/2026	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
2501.010	Sub6 n41 / 10 MHz [30 kHz]	PI/2 BPSK	-24.38	12.42	10.61	2.50	H	< 2.00	0.113	20.53	1	12
		QPSK	-24.52	12.28	10.61	2.50	H		0.109	20.39		
		16-QAM	-25.50	11.30	10.61	2.50	H		0.087	19.41		
		64-QAM	-27.05	9.75	10.61	2.50	H		0.061	17.86		
		256-QAM	-29.25	7.55	10.61	2.50	H		0.037	15.66		
2592.990		PI/2 BPSK	-24.52	12.19	11.00	2.55	H		0.116	20.64	1	1
		QPSK	-24.54	12.17	11.00	2.55	H		0.115	20.62		
		16-QAM	-25.51	11.20	11.00	2.55	H		0.092	19.65		
		64-QAM	-27.09	9.62	11.00	2.55	H		0.064	18.07		
		256-QAM	-28.97	7.74	11.00	2.55	H		0.042	16.19		
2685.000		PI/2 BPSK	-26.23	11.33	10.82	2.61	H		0.090	19.54	1	12
		QPSK	-26.32	11.24	10.82	2.61	H		0.088	19.45		
		16-QAM	-27.30	10.26	10.82	2.61	H		0.070	18.47		
		64-QAM	-28.94	8.62	10.82	2.61	H		0.048	16.83		
		256-QAM	-30.99	6.57	10.82	2.61	H		0.030	14.78		

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
2503.500	Sub6 n41 / 15 MHz [30 kHz]	PI/2 BPSK	-24.36	12.50	10.58	2.51	H	< 2.00	0.114	20.57	1	36
		QPSK	-24.37	12.49	10.58	2.51	H		0.114	20.56		
		16-QAM	-25.20	11.66	10.58	2.51	H		0.094	19.73		
		64-QAM	-27.01	9.85	10.58	2.51	H		0.062	17.92		
		256-QAM	-28.79	8.07	10.58	2.51	H		0.041	16.14		
2592.990		PI/2 BPSK	-24.44	12.27	11.00	2.55	H		0.118	20.72	1	1
		QPSK	-24.49	12.22	11.00	2.55	H		0.117	20.67		
		16-QAM	-25.33	11.38	11.00	2.55	H		0.096	19.83		
		64-QAM	-26.86	9.85	11.00	2.55	H		0.068	18.30		
		256-QAM	-28.93	7.78	11.00	2.55	H		0.042	16.23		
2682.480		PI/2 BPSK	-26.16	11.51	10.84	2.61	H		0.094	19.74	1	1
		QPSK	-26.19	11.48	10.84	2.61	H		0.094	19.71		
		16-QAM	-27.01	10.66	10.84	2.61	H		0.077	18.89		
		64-QAM	-28.74	8.93	10.84	2.61	H		0.052	17.16		
		256-QAM	-30.74	6.93	10.84	2.61	H		0.033	15.16		

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
2506.020	Sub6 n41 / 20 MHz [30 kHz]	PI/2 BPSK	-24.12	12.74	10.58	2.51	H	< 2.00	0.121	20.81	1	49
		QPSK	-24.14	12.72	10.58	2.51	H		0.120	20.79		
		16-QAM	-24.98	11.88	10.58	2.51	H		0.099	19.95		
		64-QAM	-26.71	10.15	10.58	2.51	H		0.066	18.22		
		256-QAM	-28.73	8.13	10.58	2.51	H		0.042	16.20		
2592.990		PI/2 BPSK	-24.64	12.07	11.00	2.55	H		0.113	20.52	1	25
		QPSK	-24.68	12.03	11.00	2.55	H		0.112	20.48		
		16-QAM	-25.69	11.02	11.00	2.55	H		0.089	19.47		
		64-QAM	-27.10	9.61	11.00	2.55	H		0.064	18.06		
		256-QAM	-29.21	7.50	11.00	2.55	H		0.039	15.95		
2679.990		PI/2 BPSK	-26.12	11.55	10.84	2.61	H		0.095	19.78	1	1
		QPSK	-26.14	11.53	10.84	2.61	H		0.095	19.76		
		16-QAM	-27.27	10.40	10.84	2.61	H		0.073	18.63		
		64-QAM	-28.60	9.07	10.84	2.61	H		0.054	17.30		
		256-QAM	-30.89	6.78	10.84	2.61	H		0.032	15.01		

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
2508.510	Sub6 n41 / 25 MHz [30 kHz]	PI/2 BPSK	-24.19	12.73	10.55	2.51	H	< 2.00	0.119	20.77	1	63
		QPSK	-24.21	12.71	10.55	2.51	H		0.119	20.75		
		16-QAM	-25.28	11.64	10.55	2.51	H		0.093	19.68		
		64-QAM	-26.81	10.11	10.55	2.51	H		0.065	18.15		
		256-QAM	-28.92	8.00	10.55	2.51	H		0.040	16.04		
2592.990		PI/2 BPSK	-24.49	12.22	11.00	2.55	H		0.117	20.67	1	1
		QPSK	-24.53	12.18	11.00	2.55	H		0.116	20.63		
		16-QAM	-25.58	11.13	11.00	2.55	H		0.091	19.58		
		64-QAM	-26.95	9.76	11.00	2.55	H		0.066	18.21		
		256-QAM	-28.93	7.78	11.00	2.55	H		0.042	16.23		
2677.500		PI/2 BPSK	-26.10	11.57	10.84	2.61	H		0.095	19.80	1	32
		QPSK	-26.13	11.54	10.84	2.61	H		0.095	19.77		
		16-QAM	-27.20	10.47	10.84	2.61	H		0.074	18.70		
		64-QAM	-28.67	9.00	10.84	2.61	H		0.053	17.23		
		256-QAM	-30.89	6.78	10.84	2.61	H		0.032	15.01		

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
2511.000	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	-24.18	12.74	10.55	2.51	H	< 2.00	0.120	20.78	1	76
		QPSK	-24.20	12.72	10.55	2.51	H		0.119	20.76		
		16-QAM	-25.25	11.67	10.55	2.51	H		0.094	19.71		
		64-QAM	-26.65	10.27	10.55	2.51	H		0.068	18.31		
		256-QAM	-28.72	8.20	10.55	2.51	H		0.042	16.24		
2592.990		PI/2 BPSK	-24.33	12.38	11.00	2.55	H		0.121	20.83	1	1
		QPSK	-24.34	12.37	11.00	2.55	H		0.121	20.82		
		16-QAM	-25.35	11.36	11.00	2.55	H		0.096	19.81		
		64-QAM	-26.84	9.87	11.00	2.55	H		0.068	18.32		
		256-QAM	-28.93	7.78	11.00	2.55	H		0.042	16.23		
2674.980		PI/2 BPSK	-26.07	11.22	10.85	2.62	H		0.088	19.45	1	1
		QPSK	-26.08	11.21	10.85	2.62	H		0.088	19.44		
		16-QAM	-27.09	10.20	10.85	2.62	H		0.070	18.43		
		64-QAM	-28.85	8.44	10.85	2.62	H		0.046	16.67		
		256-QAM	-30.61	6.68	10.85	2.62	H		0.031	14.91		

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
2516.010	Sub6 n41 / 40 MHz [30 kHz]	PI/2 BPSK	-24.05	12.88	10.52	2.53	H	< 2.00	0.122	20.87	1	53
		QPSK	-24.07	12.86	10.52	2.53	H		0.122	20.85		
		16-QAM	-25.15	11.78	10.52	2.53	H		0.095	19.77		
		64-QAM	-26.61	10.32	10.52	2.53	H		0.068	18.31		
		256-QAM	-28.59	8.34	10.52	2.53	H		0.043	16.33		
2592.990		PI/2 BPSK	-24.49	12.22	11.00	2.55	H		0.117	20.67	1	53
		QPSK	-24.55	12.16	11.00	2.55	H		0.115	20.61		
		16-QAM	-25.63	11.08	11.00	2.55	H		0.090	19.53		
		64-QAM	-27.08	9.63	11.00	2.55	H		0.064	18.08		
		256-QAM	-29.19	7.52	11.00	2.55	H		0.040	15.97		
2670.000		PI/2 BPSK	-26.00	10.90	10.87	2.62	H		0.082	19.15	1	1
		QPSK	-26.01	10.89	10.87	2.62	H		0.082	19.14		
		16-QAM	-27.05	9.85	10.87	2.62	H		0.065	18.10		
		64-QAM	-28.72	8.18	10.87	2.62	H		0.044	16.43		
		256-QAM	-30.39	6.51	10.87	2.62	H		0.030	14.76		

Freq. (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-24.01	12.92	10.49	2.54	H	< 2.00	0.122	20.87	1	66
		QPSK	-24.11	12.82	10.49	2.54	H		0.119	20.77		
		16-QAM	-25.17	11.76	10.49	2.54	H		0.094	19.71		
		64-QAM	-26.76	10.17	10.49	2.54	H		0.065	18.12		
		256-QAM	-28.78	8.15	10.49	2.54	H		0.041	16.10		
2592.990		PI/2 BPSK	-24.57	12.14	11.00	2.55	H		0.115	20.59	1	66
		QPSK	-24.59	12.12	11.00	2.55	H		0.114	20.57		
		16-QAM	-25.59	11.12	11.00	2.55	H		0.091	19.57		
		64-QAM	-26.99	9.72	11.00	2.55	H		0.066	18.17		
		256-QAM	-29.11	7.60	11.00	2.55	H		0.040	16.05		
2664.990		PI/2 BPSK	-26.08	10.87	10.88	2.64	H		0.081	19.11	1	1
		QPSK	-26.12	10.83	10.88	2.64	H		0.081	19.07		
		16-QAM	-27.03	9.92	10.88	2.64	H		0.065	18.16		
		64-QAM	-28.69	8.26	10.88	2.64	H		0.045	16.50		
		256-QAM	-30.56	6.39	10.88	2.64	H		0.029	14.63		

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
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-24.15	12.48	10.52	2.54	H	< 2.00	0.111	20.46	1	82
		QPSK	-24.19	12.44	10.52	2.54	H		0.110	20.42		
		16-QAM	-25.01	11.62	10.52	2.54	H		0.091	19.60		
		64-QAM	-26.71	9.92	10.52	2.54	H		0.062	17.90		
		256-QAM	-28.87	7.76	10.52	2.54	H		0.037	15.74		
2592.990		PI/2 BPSK	-24.37	12.34	11.00	2.55	H		0.120	20.79	1	1
		QPSK	-24.42	12.29	11.00	2.55	H		0.119	20.74		
		16-QAM	-25.35	11.36	11.00	2.55	H		0.096	19.81		
		64-QAM	-26.85	9.86	11.00	2.55	H		0.068	18.31		
		256-QAM	-28.98	7.73	11.00	2.55	H		0.041	16.18		
2659.980		PI/2 BPSK	-25.66	11.35	10.90	2.67	H		0.091	19.58	1	1
		QPSK	-25.69	11.32	10.90	2.67	H		0.090	19.55		
		16-QAM	-26.75	10.26	10.90	2.67	H		0.071	18.49		
		64-QAM	-28.23	8.78	10.90	2.67	H		0.050	17.01		
		256-QAM	-30.22	6.79	10.90	2.67	H		0.032	15.02		

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
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-24.37	11.96	10.56	2.54	H	< 2.00	0.100	19.98	1	1
		QPSK	-24.42	11.91	10.56	2.54	H		0.098	19.93		
		16-QAM	-25.48	10.85	10.56	2.54	H		0.077	18.87		
		64-QAM	-27.19	9.14	10.56	2.54	H		0.052	17.16		
		256-QAM	-28.95	7.38	10.56	2.54	H		0.035	15.40		
2592.990		PI/2 BPSK	-24.55	12.16	11.00	2.55	H		0.115	20.61	1	94
		QPSK	-24.58	12.13	11.00	2.55	H		0.114	20.58		
		16-QAM	-25.53	11.18	11.00	2.55	H		0.092	19.63		
		64-QAM	-27.14	9.57	11.00	2.55	H		0.063	18.02		
		256-QAM	-29.08	7.63	11.00	2.55	H		0.041	16.08		
2655.000		PI/2 BPSK	-24.99	11.92	10.91	2.68	H		0.104	20.15	1	1
		QPSK	-25.03	11.88	10.91	2.68	H		0.103	20.11		
		16-QAM	-26.08	10.83	10.91	2.68	H		0.081	19.06		
		64-QAM	-27.77	9.14	10.91	2.68	H		0.055	17.37		
		256-QAM	-29.56	7.35	10.91	2.68	H		0.036	15.58		

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
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-24.17	12.29	10.59	2.54	H	< 2.00	0.108	20.34	1	108
		QPSK	-24.29	12.17	10.59	2.54	H		0.105	20.22		
		16-QAM	-25.24	11.22	10.59	2.54	H		0.085	19.27		
		64-QAM	-26.75	9.71	10.59	2.54	H		0.060	17.76		
		256-QAM	-28.94	7.52	10.59	2.54	H		0.036	15.57		
2592.990		PI/2 BPSK	-24.54	12.17	11.00	2.55	H		0.115	20.62	1	108
		QPSK	-24.59	12.12	11.00	2.55	H		0.114	20.57		
		16-QAM	-25.49	11.22	11.00	2.55	H		0.093	19.67		
		64-QAM	-27.10	9.61	11.00	2.55	H		0.064	18.06		
		256-QAM	-29.31	7.40	11.00	2.55	H		0.038	15.85		
2649.990		PI/2 BPSK	-24.71	12.08	10.93	2.69	H		0.108	20.32	1	1
		QPSK	-24.75	12.04	10.93	2.69	H		0.107	20.28		
		16-QAM	-25.76	11.03	10.93	2.69	H		0.085	19.27		
		64-QAM	-27.26	9.53	10.93	2.69	H		0.060	17.77		
		256-QAM	-29.24	7.55	10.93	2.69	H		0.038	15.79		

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
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-24.26	12.32	10.62	2.53	H	< 2.00	0.110	20.41	1	1
		QPSK	-24.27	12.31	10.62	2.53	H		0.110	20.40		
		16-QAM	-25.22	11.36	10.62	2.53	H		0.088	19.45		
		64-QAM	-26.83	9.75	10.62	2.53	H		0.061	17.84		
		256-QAM	-28.69	7.89	10.62	2.53	H		0.040	15.98		
2592.990		PI/2 BPSK	-24.28	12.43	11.00	2.55	H		0.122	20.88	1	1
		QPSK	-24.30	12.41	11.00	2.55	H		0.122	20.86		
		16-QAM	-25.38	11.33	11.00	2.55	H		0.095	19.78		
		64-QAM	-26.89	9.82	11.00	2.55	H		0.067	18.27		
		256-QAM	-28.71	8.00	11.00	2.55	H		0.044	16.45		
2644.980		PI/2 BPSK	-24.40	12.71	10.95	2.68	H		0.125	20.98	1	1
		QPSK	-24.45	12.66	10.95	2.68	H		0.124	20.93		
		16-QAM	-25.53	11.58	10.95	2.68	H		0.097	19.85		
		64-QAM	-27.03	10.08	10.95	2.68	H		0.068	18.35		
		256-QAM	-28.97	8.14	10.95	2.68	H		0.044	16.41		

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
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-24.18	12.37	10.66	2.53	H	< 2.00	0.112	20.50	1	1
		QPSK	-24.19	12.36	10.66	2.53	H		0.112	20.49		
		16-QAM	-25.16	11.39	10.66	2.53	H		0.090	19.52		
		64-QAM	-26.78	9.77	10.66	2.53	H		0.062	17.90		
		256-QAM	-28.65	7.90	10.66	2.53	H		0.040	16.03		
2592.990		PI/2 BPSK	-24.31	12.40	11.00	2.55	H		0.122	20.85	1	1
		QPSK	-24.33	12.38	11.00	2.55	H		0.121	20.83		
		16-QAM	-25.35	11.36	11.00	2.55	H		0.096	19.81		
		64-QAM	-27.03	9.68	11.00	2.55	H		0.065	18.13		
		256-QAM	-29.16	7.55	11.00	2.55	H		0.040	16.00		
2640.000		PI/2 BPSK	-24.19	13.25	10.96	2.68	H		0.142	21.53	1	1
		QPSK	-24.22	13.22	10.96	2.68	H		0.141	21.50		
		16-QAM	-25.29	12.15	10.96	2.68	H		0.110	20.43		
		64-QAM	-26.92	10.52	10.96	2.68	H		0.076	18.80		
		256-QAM	-29.07	8.37	10.96	2.68	H		0.046	16.65		

8.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: n41
- ▣ Bandwidth: 10 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
500202 (2501.010)	5 002.02	-63.05	11.22	-64.76	3.71	V	-57.25	-25.00	1	12
	7 503.03	-62.98	11.54	-55.55	4.60	V	-48.61	-25.00		
	10 004.04	-63.52	11.47	-54.12	5.47	V	-48.12	-25.00		
518598 (2592.990)	5 185.98	-59.59	11.61	-60.76	3.80	V	-52.95	-25.00	1	1
	7 778.97	-64.36	11.26	-57.29	4.70	V	-50.73	-25.00		
	10 371.96	-64.03	11.68	-52.94	5.55	V	-46.81	-25.00		
537000 (2685.000)	5 370.00	-62.99	11.96	-64.62	3.92	V	-56.58	-25.00	1	12
	8 055.00	-63.32	11.24	-56.04	4.81	V	-49.61	-25.00		
	10 740.00	-63.83	11.55	-51.81	5.64	V	-45.90	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 15 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500700 (2503.500)	5 007.00	-61.71	11.20	-63.14	3.71	V	-55.65	-25.00	1	36
	7 510.50	-62.02	11.55	-54.48	4.60	V	-47.53	-25.00		
	10 014.00	-64.74	11.46	-55.35	5.47	V	-49.36	-25.00		
518598 (2592.990)	5 185.98	-60.87	11.61	-62.04	3.80	V	-54.23	-25.00	1	1
	7 778.97	-62.73	11.26	-55.66	4.70	V	-49.10	-25.00		
	10 371.96	-62.85	11.68	-51.76	5.55	V	-45.63	-25.00		
536496 (2682.480)	5 364.96	-62.61	11.95	-64.13	3.91	V	-56.09	-25.00	1	1
	8 047.44	-63.14	11.23	-55.92	4.81	V	-49.50	-25.00		
	10 729.92	-63.69	11.56	-51.62	5.65	V	-45.71	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 20 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501204 (2506.020)	5 012.04	-61.92	11.18	-63.06	3.72	V	-55.60	-25.00	1	49
	7 518.06	-62.36	11.56	-54.72	4.61	V	-47.77	-25.00		
	10 024.08	-63.79	11.46	-54.44	5.47	V	-48.45	-25.00		
518598 (2592.990)	5 185.98	-60.85	11.61	-62.02	3.80	V	-54.21	-25.00	1	25
	7 778.97	-64.36	11.26	-57.29	4.70	V	-50.73	-25.00		
	10 371.96	-64.72	11.68	-53.63	5.55	V	-47.50	-25.00		
535998 (2679.990)	5 359.98	-62.11	11.95	-63.54	3.90	V	-55.49	-25.00	1	1
	8 039.97	-63.59	11.22	-56.28	4.80	V	-49.86	-25.00		
	10 719.96	-64.30	11.56	-52.65	5.64	V	-46.73	-25.00		

- ▣ NR Band: n41
- ▣ 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	-62.73	11.17	-63.65	3.70	V	-56.18	-25.00	1	63
	7 525.53	-63.86	11.57	-56.21	4.61	V	-49.25	-25.00		
	10 034.04	-64.90	11.45	-55.66	5.48	V	-49.69	-25.00		
518598 (2592.990)	5 185.98	-60.99	11.61	-62.16	3.80	V	-54.35	-25.00	1	1
	7 778.97	-63.26	11.26	-56.19	4.70	V	-49.63	-25.00		
	10 371.96	-63.85	11.68	-52.76	5.55	V	-46.63	-25.00		
535500 (2677.500)	5 355.00	-62.33	11.94	-63.88	3.88	V	-55.82	-25.00	1	32
	8 032.50	-62.60	11.21	-55.31	4.80	V	-48.90	-25.00		
	10 710.00	-63.57	11.57	-51.85	5.65	V	-45.93	-25.00		

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502200 (2511.000)	5 022.00	-62.21	11.17	-62.91	3.69	V	-55.43	-25.00	1	76
	7 533.00	-63.57	11.57	-55.97	4.61	V	-49.01	-25.00		
	10 044.00	-63.89	11.44	-54.57	5.48	V	-48.61	-25.00		
518598 (2592.990)	5 185.98	-61.10	11.61	-62.27	3.80	V	-54.46	-25.00	1	1
	7 778.97	-62.49	11.26	-55.42	4.70	V	-48.86	-25.00		
	10 371.96	-63.22	11.68	-52.13	5.55	V	-46.00	-25.00		
534996 (2674.980)	5 349.96	-62.72	11.94	-64.41	3.85	V	-56.32	-25.00	1	1
	8 024.94	-63.84	11.20	-56.59	4.79	V	-50.18	-25.00		
	10 699.92	-63.51	11.57	-51.51	5.67	V	-45.61	-25.00		

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503202 (2516.010)	5 032.02	-62.98	11.19	-63.82	3.67	V	-56.30	-25.00	1	53
	7 548.03	-63.07	11.59	-55.70	4.63	V	-48.74	-25.00		
	10 064.04	-62.60	11.42	-53.38	5.47	V	-47.43	-25.00		
518598 (2592.990)	5 185.98	-60.98	11.61	-62.15	3.80	V	-54.34	-25.00	1	53
	7 778.97	-62.45	11.26	-55.38	4.70	V	-48.82	-25.00		
	10 371.96	-62.59	11.68	-51.50	5.55	V	-45.37	-25.00		
534000 (2670.000)	5 340.00	-62.74	11.93	-64.72	3.80	V	-56.59	-25.00	1	1
	8 010.00	-63.21	11.17	-55.89	4.77	V	-49.49	-25.00		
	10 680.00	-63.28	11.57	-50.70	5.71	V	-44.84	-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	-63.17	11.20	-64.21	3.68	V	-56.69	-25.00	1	66
	7 563.06	-64.94	11.60	-57.41	4.64	V	-50.45	-25.00		
	10 084.08	-63.61	11.40	-54.38	5.46	V	-48.44	-25.00		
518598 (2592.990)	5 185.98	-61.49	11.61	-62.66	3.80	V	-54.85	-25.00	1	66
	7 778.97	-63.97	11.26	-56.90	4.70	V	-50.34	-25.00		
	10 371.96	-64.14	11.68	-53.05	5.55	V	-46.92	-25.00		
532998 (2664.990)	5 329.98	-63.39	11.92	-65.12	3.77	V	-56.97	-25.00	1	1
	7 994.97	-63.55	11.13	-56.00	4.77	V	-49.64	-25.00		
	10 659.96	-62.66	11.58	-50.26	5.67	V	-44.35	-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	-63.04	11.22	-64.51	3.73	V	-57.02	-25.00	1	82
	7 578.00	-64.01	11.61	-56.35	4.65	V	-49.39	-25.00		
	10 104.00	-63.18	11.39	-53.62	5.46	V	-47.69	-25.00		
518598 (2592.990)	5 185.98	-61.70	11.61	-62.87	3.80	V	-55.06	-25.00	1	1
	7 778.97	-63.97	11.26	-56.90	4.70	V	-50.34	-25.00		
	10 371.96	-64.76	11.68	-53.67	5.55	V	-47.54	-25.00		
531996 (2659.980)	5 319.96	-63.47	11.91	-65.02	3.79	V	-56.90	-25.00	1	1
	7 979.94	-63.38	11.10	-55.68	4.79	V	-49.37	-25.00		
	10 639.92	-63.18	11.58	-50.80	5.61	V	-44.83	-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	-62.96	11.24	-64.33	3.78	V	-56.87	-25.00	1	1
	7 593.03	-64.09	11.62	-56.81	4.64	V	-49.83	-25.00		
	10 124.04	-63.26	11.37	-53.57	5.47	V	-47.67	-25.00		
518598 (2592.990)	5 185.98	-61.59	11.61	-62.76	3.80	V	-54.95	-25.00	1	94
	7 778.97	-63.01	11.26	-55.94	4.70	V	-49.38	-25.00		
	10 371.96	-63.99	11.68	-52.90	5.55	V	-46.77	-25.00		
531000 (2655.000)	5 310.00	-63.04	11.91	-64.15	3.82	V	-56.06	-25.00	1	1
	7 965.00	-63.70	11.07	-55.88	4.80	V	-49.61	-25.00		
	10 620.00	-63.10	11.58	-51.06	5.65	V	-45.13	-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	-62.14	11.25	-63.30	3.80	V	-55.85	-25.00	1	108
	7 608.06	-63.28	11.60	-56.40	4.64	V	-49.44	-25.00		
	10 144.08	-61.86	11.36	-52.25	5.48	V	-46.37	-25.00		
518598 (2592.990)	5 185.98	-62.99	11.61	-64.16	3.80	V	-56.35	-25.00	1	108
	7 778.97	-63.86	11.26	-56.79	4.70	V	-50.23	-25.00		
	10 371.96	-62.39	11.68	-51.30	5.55	V	-45.17	-25.00		
529998 (2649.990)	5 299.98	-62.21	11.90	-63.71	3.83	V	-55.64	-25.00	1	1
	7 949.97	-63.86	11.03	-56.21	4.78	V	-49.96	-25.00		
	10 599.96	-62.59	11.58	-51.30	5.67	V	-45.39	-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	-61.76	11.27	-62.56	3.81	V	-55.10	-25.00	1	1
	7 623.00	-64.07	11.57	-57.13	4.65	V	-50.21	-25.00		
	10 164.00	-62.68	11.34	-52.82	5.50	V	-46.98	-25.00		
518598 (2592.990)	5 185.98	-61.66	11.61	-62.83	3.80	V	-55.02	-25.00	1	1
	7 778.97	-63.88	11.26	-56.81	4.70	V	-50.25	-25.00		
	10 371.96	-62.90	11.68	-51.81	5.55	V	-45.68	-25.00		
528996 (2644.980)	5 289.96	-62.10	11.89	-63.68	3.83	V	-55.62	-25.00	1	1
	7 934.94	-63.26	11.01	-55.88	4.77	V	-49.64	-25.00		
	10 579.92	-63.14	11.62	-51.99	5.65	V	-46.02	-25.00		

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-62.52	11.29	-63.40	3.78	V	-55.89	-25.00	1	1
	7 638.03	-63.90	11.54	-56.93	4.68	V	-50.07	-25.00		
	10 184.04	-63.48	11.35	-53.44	5.52	V	-47.61	-25.00		
518598 (2592.990)	5 185.98	-62.22	11.61	-63.39	3.80	V	-55.58	-25.00	1	1
	7 778.97	-63.65	11.26	-56.58	4.70	V	-50.02	-25.00		
	10 371.96	-62.96	11.68	-51.87	5.55	V	-45.74	-25.00		
528000 (2640.000)	5 280.00	-62.05	11.88	-64.08	3.80	V	-56.00	-25.00	1	1
	7 920.00	-64.24	11.02	-56.82	4.77	V	-50.57	-25.00		
	10 560.00	-63.83	11.65	-52.89	5.63	V	-46.87	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41	10 MHz	2592.990	BPSK	24	0	4.55
			QPSK			5.96
			16-QAM			6.67
			64-QAM			6.82
			256-QAM			7.27
	15 MHz		BPSK	36		4.72
			QPSK			5.85
			16-QAM			6.75
			64-QAM			6.83
			256-QAM			6.79
	20 MHz		BPSK	50		4.56
			QPSK			5.93
			16-QAM			6.71
			64-QAM			6.84
			256-QAM			6.72
	25 MHz		BPSK	64		4.61
			QPSK			6.04
			16-QAM			6.72
			64-QAM			6.78
			256-QAM			6.77
	30 MHz		BPSK	75		4.87
			QPSK			6.02
			16-QAM			6.75
			64-QAM			6.85
			256-QAM			6.72
	40 MHz		BPSK	100		4.74
			QPSK			6.12
			16-QAM			6.86
			64-QAM			6.87
			256-QAM			6.82
	50 MHz		BPSK	128		5.16
			QPSK			5.88
			16-QAM			6.68
			64-QAM			6.74
			256-QAM			6.60

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41	60 MHz	2592.990	BPSK	162	0	6.07
			QPSK			6.22
			16-QAM			6.80
			64-QAM			6.84
			256-QAM			6.71
	70 MHz		BPSK	180		4.56
			QPSK			5.92
			16-QAM			6.73
			64-QAM			6.82
			256-QAM			6.76
	80 MHz		BPSK	216		4.69
			QPSK			5.80
			16-QAM			6.62
			64-QAM			6.73
			256-QAM			6.74
	90 MHz		BPSK	243		4.50
			QPSK			5.84
			16-QAM			6.61
			64-QAM			6.68
			256-QAM			6.62
	100 MHz		BPSK	270		5.12
			QPSK			5.82
			16-QAM			6.63
			64-QAM			6.69
			256-QAM			6.64

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 120 ~ 179.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41	10 MHz	2592.990	BPSK	24	0	8.6860
			QPSK			8.6661
			16-QAM			8.7368
			64-QAM			8.7400
			256-QAM			8.6835
	15 MHz		BPSK	36		12.951
			QPSK			12.996
			16-QAM			12.992
			64-QAM			12.960
			256-QAM			12.945
	20 MHz		BPSK	50		18.000
			QPSK			18.027
			16-QAM			17.972
			64-QAM			17.973
			256-QAM			18.042
	25 MHz		BPSK	64		23.011
			QPSK			23.056
			16-QAM			23.027
			64-QAM			22.982
			256-QAM			22.962
	30 MHz		BPSK	75		27.055
			QPSK			26.977
			16-QAM			26.926
			64-QAM			26.963
			256-QAM			26.890
	40 MHz		BPSK	100		35.987
			QPSK			36.027
			16-QAM			35.947
			64-QAM			35.965
			256-QAM			36.050
	50 MHz		BPSK	128		45.922
			QPSK			45.973
			16-QAM			46.048
			64-QAM			45.889
			256-QAM			45.801

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41	60 MHz	2592.990	BPSK	162	0	58.222
			QPSK			58.090
			16-QAM			58.300
			64-QAM			58.311
			256-QAM			58.254
	70 MHz		BPSK	180		64.862
			QPSK			64.716
			16-QAM			64.871
			64-QAM			64.878
			256-QAM			64.757
	80 MHz		BPSK	216		77.541
			QPSK			77.618
			16-QAM			77.385
			64-QAM			77.484
			256-QAM			77.755
	90 MHz		BPSK	243		87.478
			QPSK			87.256
			16-QAM			87.098
			64-QAM			87.013
			256-QAM			87.024
	100 MHz		BPSK	270		96.881
			QPSK			96.761
			16-QAM			96.585
			64-QAM			96.778
			256-QAM			96.363

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 180 ~ 239.

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 n41	10	2501.010	4.2872	29.722	-63.760	-34.038	-25.00
		2592.990	5.2044	30.315	-63.398	-33.083	
		2685.000	8.3350	30.315	-62.985	-32.670	
	15	2503.500	9.7109	30.315	-62.843	-32.528	
		2592.990	9.9502	30.315	-63.512	-33.197	
		2682.480	3.7987	29.722	-62.307	-32.585	
	20	2506.020	4.0280	29.722	-61.556	-31.834	
		2592.990	9.4018	30.315	-63.354	-33.039	
		2679.990	4.0579	29.722	-62.847	-33.125	
	25	2508.480	8.2951	30.315	-63.206	-32.891	
		2592.990	8.9731	30.315	-62.808	-32.493	
		2677.500	3.8186	29.722	-63.251	-33.529	
	30	2511.000	4.9652	29.722	-62.911	-33.189	
		2592.990	3.7488	29.722	-62.875	-33.153	
		2674.980	5.7029	30.315	-63.212	-32.897	
	40	2516.010	9.3819	30.315	-62.692	-32.377	
		2592.990	4.0878	29.722	-63.377	-33.655	
		2670.000	2.7219	29.722	-61.898	-32.176	
	50	2521.020	7.6870	30.315	-64.181	-33.866	
		2592.990	4.9751	29.722	-62.512	-32.790	
		2664.990	2.7319	29.722	-63.021	-33.299	
	60	2526.000	9.1725	30.315	-62.200	-31.885	
		2592.990	8.3849	30.315	-63.060	-32.745	
		2659.980	2.7418	29.722	-63.036	-33.314	
	70	2531.010	9.6311	30.315	-61.998	-31.683	
		2592.990	3.7289	29.722	-61.872	-32.150	
		2655.000	9.1426	30.315	-62.776	-32.461	
	80	2536.020	9.4118	30.315	-63.311	-32.996	
		2592.990	9.4517	30.315	-63.669	-33.354	
		2649.990	2.7319	29.722	-58.992	-29.270	
	90	2541.000	9.6710	30.315	-62.529	-32.214	
		2592.990	2.7219	29.722	-59.952	-30.230	
		2644.980	2.7319	29.722	-62.550	-32.828	
	100	2546.010	7.7867	30.315	-63.658	-33.343	
		2592.990	5.4736	30.315	-62.350	-32.035	
		2640.000	2.7418	29.722	-62.036	-32.314	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 240 ~ 311.
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

BW	Test. Frequency (MHz)	Modulation	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 MHz	2501.010	BPSK	Full RB	-23.08	-23.04	-26.99	-26.98	-28.09	-27.54	-36.81
15 MHz	2503.500	BPSK	Full RB	-23.12	-30.56	-27.54	-27.99	-28.64	-28.02	-37.86
20 MHz	2506.020	BPSK	Full RB	-25.07	-28.53	-30.14	-29.95	-28.43	-26.36	-35.94
25 MHz	2508.510	BPSK	Full RB	-24.53	-28.92	-30.76	-31.31	-34.93	-32.25	-35.38
30 MHz	2511.000	BPSK	Full RB	-26.44	-34.90	-32.78	-35.05	-36.78	-30.74	-36.91
40 MHz	2516.010	BPSK	Full RB	-23.77	-34.30	-32.46	-34.93	-34.07	-30.20	-38.89
50 MHz	2521.020	BPSK	Full RB	-22.47	-28.52	-28.14	-29.11	-33.11	-30.17	-41.55
60 MHz	2526.000	BPSK	Full RB	-18.17	-19.59	-26.19	-26.09	-33.06	-30.40	-41.57
70 MHz	2531.010	BPSK	Full RB	-22.30	-30.47	-26.64	-30.96	-33.73	-30.78	-41.76
80 MHz	2536.020	BPSK	Full RB	-22.07	-25.80	-27.19	-28.80	-34.38	-30.77	-44.27
90 MHz	2541.000	BPSK	Full RB	-20.75	-26.79	-26.67	-29.32	-32.91	-30.99	-44.93
100 MHz	2546.010	BPSK	Full RB	-21.27	-28.63	-28.43	-30.58	-35.06	-31.64	-47.07
Limit				-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	-23.77	-23.06	-27.61	-27.53
	2685.000	BPSK	Full RB	0	-22.71	-22.25	-24.53	-25.16
15 MHz	2592.990	BPSK	Full RB	0	-23.55	-31.85	-28.69	-33.78
	2682.480	BPSK	Full RB	0	-21.62	-31.56	-26.55	-32.87
20 MHz	2592.990	BPSK	Full RB	0	-25.10	-28.85	-31.76	-34.25
	2679.990	BPSK	Full RB	0	-22.51	-28.44	-24.59	-28.12
25 MHz	2592.990	BPSK	Full RB	0	-24.48	-29.00	-32.06	-35.43
	2677.500	BPSK	Full RB	0	-22.67	-27.52	-25.69	-29.82
30 MHz	2592.990	BPSK	Full RB	0	-25.99	-38.53	-33.29	-38.38
	2679.990	BPSK	Full RB	0	-23.52	-32.55	-27.09	-31.16
40 MHz	2592.990	BPSK	Full RB	0	-24.81	-37.32	-33.91	-37.84
	2670.000	BPSK	Full RB	0	-23.45	-33.66	-27.58	-32.91
50 MHz	2592.990	BPSK	Full RB	0	-22.91	-32.64	-29.18	-34.72
	2664.990	BPSK	Full RB	0	-22.16	-35.37	-28.44	-38.22
60 MHz	2592.990	BPSK	Full RB	0	-18.13	-20.11	-26.90	-27.60
	2659.980	BPSK	Full RB	0	-17.17	-20.64	-26.34	-28.36
70 MHz	2592.990	BPSK	Full RB	0	-22.77	-33.20	-27.81	-34.19
	2655.000	BPSK	Full RB	0	-22.08	-36.06	-27.02	-37.83
80 MHz	2592.990	BPSK	Full RB	0	-22.54	-27.33	-27.82	-30.53
	2649.990	BPSK	Full RB	0	-22.17	-28.11	-28.38	-32.15
90 MHz	2592.990	BPSK	Full RB	0	-21.31	-27.48	-27.96	-30.40
	2644.980	BPSK	Full RB	0	-21.22	-30.20	-28.56	-33.41
100 MHz	2592.990	BPSK	Full RB	0	-20.52	-29.12	-28.56	-31.95
	2640.000	BPSK	Full RB	0	-19.38	-30.00	-27.02	-33.30
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	-30.82	-31.78	-40.49	-40.31
	2685.000	BPSK	Full RB	0	-28.25	-36.61	-40.43	-41.41
15 MHz	2592.990	BPSK	Full RB	0	-33.72	-32.99	-42.91	-43.14
	2682.480	BPSK	Full RB	0	-30.62	-33.88	-44.49	-45.67
20 MHz	2592.990	BPSK	Full RB	0	-29.80	-30.55	-41.55	-42.31
	2679.990	BPSK	Full RB	0	-26.29	-35.27	-37.61	-41.55
25 MHz	2592.990	BPSK	Full RB	0	-36.18	-37.39	-40.97	-41.63
	2677.500	BPSK	Full RB	0	-26.40	-33.17	-40.76	-44.30
30 MHz	2592.990	BPSK	Full RB	0	-35.64	-36.00	-42.08	-41.69
	2679.990	BPSK	Full RB	0	-26.09	-33.72	-41.59	-43.37
40 MHz	2592.990	BPSK	Full RB	0	-30.56	-30.95	-44.19	-44.19
	2670.000	BPSK	Full RB	0	-27.09	-34.56	-39.23	-41.29
50 MHz	2592.990	BPSK	Full RB	0	-33.93	-35.33	-41.54	-43.19
	2664.990	BPSK	Full RB	0	-33.93	-39.19	-40.65	-47.83
60 MHz	2592.990	BPSK	Full RB	0	-33.44	-34.20	-41.50	-43.63
	2659.980	BPSK	Full RB	0	-33.82	-36.55	-40.41	-49.65
70 MHz	2592.990	BPSK	Full RB	0	-35.41	-35.96	-42.95	-44.02
	2655.000	BPSK	Full RB	0	-34.09	-38.06	-41.40	-53.88
80 MHz	2592.990	BPSK	Full RB	0	-34.34	-35.05	-51.64	-46.06
	2649.990	BPSK	Full RB	0	-34.06	-38.17	-42.08	-54.66
90 MHz	2592.990	BPSK	Full RB	0	-32.40	-34.40	-54.73	-48.19
	2644.980	BPSK	Full RB	0	-33.84	-37.95	-45.11	-54.76
100 MHz	2592.990	BPSK	Full RB	0	-33.93	-34.91	-54.83	-48.96
	2640.000	BPSK	Full RB	0	-34.29	-37.96	-44.82	-54.86
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 312 ~ 395. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

BandWidth:	10 MHz
Voltage(100 %):	3.900 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)	(%)	
2501.010	100 %	+20(Ref)	2501 009 997	0.0	0.000 000	0.000
	100 %	-30	2501 009 994	-3.0	0.000 000	-0.001
	100 %	-20	2501 009 995	-1.5	0.000 000	-0.001
	100 %	-10	2501 009 993	-3.7	0.000 000	-0.001
	100 %	0	2501 009 992	-4.3	0.000 000	-0.002
	100 %	+10	2501 009 995	-2.0	0.000 000	-0.001
	100 %	+30	2501 009 993	-3.3	0.000 000	-0.001
	100 %	+40	2501 009 995	-2.1	0.000 000	-0.001
	100 %	+50	2501 009 994	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	2501 009 992	-4.8	0.000 000	-0.002
2685.000	100 %	+20(Ref)	2684 999 992	0.0	0.000 000	0.000
	100 %	-30	2684 999 989	-3.4	0.000 000	-0.001
	100 %	-20	2684 999 984	-8.0	0.000 000	-0.003
	100 %	-10	2684 999 987	-5.3	0.000 000	-0.002
	100 %	0	2684 999 978	-13.6	-0.000 001	-0.005
	100 %	+10	2684 999 985	-7.4	0.000 000	-0.003
	100 %	+30	2684 999 985	-7.3	0.000 000	-0.003
	100 %	+40	2684 999 990	-2.4	0.000 000	-0.001
	100 %	+50	2684 999 983	-8.7	0.000 000	-0.003
	Batt. Endpoint	+20	2684 999 983	-8.5	0.000 000	-0.003

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.900 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 499 998	0.0	0.000 000	0.000
	100 %	-30	2503 499 995	-3.0	0.000 000	-0.001
	100 %	-20	2503 499 996	-1.9	0.000 000	-0.001
	100 %	-10	2503 499 999	0.7	0.000 000	0.000
	100 %	0	2503 499 997	-0.8	0.000 000	0.000
	100 %	+10	2503 499 996	-1.9	0.000 000	-0.001
	100 %	+30	2503 499 995	-3.2	0.000 000	-0.001
	100 %	+40	2503 499 997	-0.6	0.000 000	0.000
	100 %	+50	2503 499 994	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	2503 499 997	-1.1	0.000 000	0.000
2682.480	100 %	+20(Ref)	2682 479 997	0.0	0.000 000	0.000
	100 %	-30	2682 479 993	-4.4	0.000 000	-0.002
	100 %	-20	2682 479 993	-4.0	0.000 000	-0.001
	100 %	-10	2682 479 994	-2.8	0.000 000	-0.001
	100 %	0	2682 479 992	-5.3	0.000 000	-0.002
	100 %	+10	2682 479 995	-2.2	0.000 000	-0.001
	100 %	+30	2682 479 989	-7.8	0.000 000	-0.003
	100 %	+40	2682 479 993	-3.9	0.000 000	-0.001
	100 %	+50	2682 479 994	-2.5	0.000 000	-0.001
	Batt. Endpoint	+20	2682 479 993	-3.9	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.900 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 019 996	0.0	0.000 000	0.000
	100 %	-30	2506 019 994	-2.3	0.000 000	-0.001
	100 %	-20	2506 019 996	-0.6	0.000 000	0.000
	100 %	-10	2506 019 994	-2.3	0.000 000	-0.001
	100 %	0	2506 019 994	-2.4	0.000 000	-0.001
	100 %	+10	2506 019 991	-5.3	0.000 000	-0.002
	100 %	+30	2506 019 994	-1.9	0.000 000	-0.001
	100 %	+40	2506 019 993	-3.6	0.000 000	-0.001
	100 %	+50	2506 019 993	-3.8	0.000 000	-0.002
	Batt. Endpoint	+20	2506 019 995	-1.3	0.000 000	-0.001
2679.990	100 %	+20(Ref)	2679 989 996	0.0	0.000 000	0.000
	100 %	-30	2679 989 991	-4.7	0.000 000	-0.002
	100 %	-20	2679 989 989	-7.5	0.000 000	-0.003
	100 %	-10	2679 989 993	-3.2	0.000 000	-0.001
	100 %	0	2679 989 988	-7.8	0.000 000	-0.003
	100 %	+10	2679 989 988	-8.2	0.000 000	-0.003
	100 %	+30	2679 989 992	-3.9	0.000 000	-0.001
	100 %	+40	2679 989 989	-7.1	0.000 000	-0.003
	100 %	+50	2679 989 988	-8.5	0.000 000	-0.003
	Batt. Endpoint	+20	2679 989 989	-6.6	0.000 000	-0.002

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.900 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 509 995	0.0	0.000 000	0.000
	100 %	-30	2508 509 994	-1.7	0.000 000	-0.001
	100 %	-20	2508 509 991	-4.3	0.000 000	-0.002
	100 %	-10	2508 509 991	-4.6	0.000 000	-0.002
	100 %	0	2508 509 994	-1.3	0.000 000	-0.001
	100 %	+10	2508 509 991	-4.5	0.000 000	-0.002
	100 %	+30	2508 509 989	-5.8	0.000 000	-0.002
	100 %	+40	2508 509 990	-5.2	0.000 000	-0.002
	100 %	+50	2508 509 990	-4.9	0.000 000	-0.002
	Batt. Endpoint	+20	2508 509 992	-3.5	0.000 000	-0.001
2677.500	100 %	+20(Ref)	2677 499 991	0.0	0.000 000	0.000
	100 %	-30	2677 499 983	-7.7	0.000 000	-0.003
	100 %	-20	2677 499 985	-5.4	0.000 000	-0.002
	100 %	-10	2677 499 984	-6.1	0.000 000	-0.002
	100 %	0	2677 499 984	-6.4	0.000 000	-0.002
	100 %	+10	2677 499 986	-4.4	0.000 000	-0.002
	100 %	+30	2677 499 986	-4.5	0.000 000	-0.002
	100 %	+40	2677 499 985	-5.3	0.000 000	-0.002
	100 %	+50	2677 499 980	-10.0	0.000 000	-0.004
	Batt. Endpoint	+20	2677 499 982	-8.9	0.000 000	-0.003

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.900 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 999 995	0.0	0.000 000	0.000
	100 %	-30	2510 999 993	-2.0	0.000 000	-0.001
	100 %	-20	2510 999 992	-2.5	0.000 000	-0.001
	100 %	-10	2510 999 991	-3.2	0.000 000	-0.001
	100 %	0	2510 999 994	-0.2	0.000 000	0.000
	100 %	+10	2510 999 992	-2.6	0.000 000	-0.001
	100 %	+30	2510 999 989	-5.7	0.000 000	-0.002
	100 %	+40	2510 999 989	-5.5	0.000 000	-0.002
	100 %	+50	2510 999 990	-4.6	0.000 000	-0.002
	Batt. Endpoint	+20	2510 999 990	-4.9	0.000 000	-0.002
2674.980	100 %	+20(Ref)	2674 980 000	0.0	0.000 000	0.000
	100 %	-30	2674 979 999	-1.5	0.000 000	-0.001
	100 %	-20	2674 979 996	-3.8	0.000 000	-0.001
	100 %	-10	2674 980 000	-0.3	0.000 000	0.000
	100 %	0	2674 980 000	-0.4	0.000 000	0.000
	100 %	+10	2674 979 999	-1.4	0.000 000	-0.001
	100 %	+30	2674 980 002	2.1	0.000 000	0.001
	100 %	+40	2674 980 000	-0.3	0.000 000	0.000
	100 %	+50	2674 979 998	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	2674 979 998	-1.8	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.900 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 009 995	0.0	0.000 000	0.000
	100 %	-30	2516 009 990	-5.0	0.000 000	-0.002
	100 %	-20	2516 009 987	-8.1	0.000 000	-0.003
	100 %	-10	2516 009 988	-7.1	0.000 000	-0.003
	100 %	0	2516 009 991	-3.7	0.000 000	-0.001
	100 %	+10	2516 009 989	-5.5	0.000 000	-0.002
	100 %	+30	2516 009 989	-6.0	0.000 000	-0.002
	100 %	+40	2516 009 989	-5.9	0.000 000	-0.002
	100 %	+50	2516 009 992	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	2516 009 992	-3.0	0.000 000	-0.001
2670.000	100 %	+20(Ref)	2670 000 003	0.0	0.000 000	0.000
	100 %	-30	2670 000 001	-2.0	0.000 000	-0.001
	100 %	-20	2670 000 005	1.2	0.000 000	0.000
	100 %	-10	2670 000 001	-2.6	0.000 000	-0.001
	100 %	0	2669 999 997	-6.5	0.000 000	-0.002
	100 %	+10	2670 000 003	-0.6	0.000 000	0.000
	100 %	+30	2670 000 001	-2.5	0.000 000	-0.001
	100 %	+40	2670 000 001	-2.5	0.000 000	-0.001
	100 %	+50	2670 000 004	0.8	0.000 000	0.000
	Batt. Endpoint	+20	2670 000 001	-2.1	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.900 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 019 995	0.0	0.000 000	0.000
	100 %	-30	2521 019 992	-3.1	0.000 000	-0.001
	100 %	-20	2521 019 990	-5.1	0.000 000	-0.002
	100 %	-10	2521 019 991	-3.4	0.000 000	-0.001
	100 %	0	2521 019 990	-5.1	0.000 000	-0.002
	100 %	+10	2521 019 991	-3.9	0.000 000	-0.002
	100 %	+30	2521 019 991	-4.0	0.000 000	-0.002
	100 %	+40	2521 019 990	-4.5	0.000 000	-0.002
	100 %	+50	2521 019 991	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	2521 019 990	-4.8	0.000 000	-0.002
2664.990	100 %	+20(Ref)	2664 989 993	0.0	0.000 000	0.000
	100 %	-30	2664 989 987	-5.5	0.000 000	-0.002
	100 %	-20	2664 989 993	0.1	0.000 000	0.000
	100 %	-10	2664 989 989	-4.0	0.000 000	-0.002
	100 %	0	2664 989 989	-3.2	0.000 000	-0.001
	100 %	+10	2664 989 989	-4.1	0.000 000	-0.002
	100 %	+30	2664 989 990	-2.7	0.000 000	-0.001
	100 %	+40	2664 989 990	-2.5	0.000 000	-0.001
	100 %	+50	2664 989 989	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	2664 989 991	-1.6	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.900 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)	2526 000 000	0.0	0.000 000	0.000
	100 %	-30	2525 999 997	-3.4	0.000 000	-0.001
	100 %	-20	2525 999 997	-3.0	0.000 000	-0.001
	100 %	-10	2526 000 000	-0.6	0.000 000	0.000
	100 %	0	2525 999 998	-1.8	0.000 000	-0.001
	100 %	+10	2525 999 996	-3.8	0.000 000	-0.001
	100 %	+30	2526 000 002	1.8	0.000 000	0.001
	100 %	+40	2525 999 999	-0.8	0.000 000	0.000
	100 %	+50	2526 000 002	1.5	0.000 000	0.001
	Batt. Endpoint	+20	2526 000 000	0.0	0.000 000	0.000
2659.980	100 %	+20(Ref)	2659 979 999	0.0	0.000 000	0.000
	100 %	-30	2659 979 997	-1.9	0.000 000	-0.001
	100 %	-20	2659 979 997	-2.1	0.000 000	-0.001
	100 %	-10	2659 979 997	-2.1	0.000 000	-0.001
	100 %	0	2659 979 996	-2.9	0.000 000	-0.001
	100 %	+10	2659 979 998	-1.1	0.000 000	0.000
	100 %	+30	2659 979 997	-2.2	0.000 000	-0.001
	100 %	+40	2659 979 997	-2.3	0.000 000	-0.001
	100 %	+50	2659 979 999	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	2659 979 996	-3.0	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.900 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 009 994	0.0	0.000 000	0.000
	100 %	-30	2531 009 991	-2.7	0.000 000	-0.001
	100 %	-20	2531 009 987	-7.4	0.000 000	-0.003
	100 %	-10	2531 009 991	-3.3	0.000 000	-0.001
	100 %	0	2531 009 989	-5.6	0.000 000	-0.002
	100 %	+10	2531 009 989	-5.4	0.000 000	-0.002
	100 %	+30	2531 009 994	-0.4	0.000 000	0.000
	100 %	+40	2531 009 984	-10.4	0.000 000	-0.004
	100 %	+50	2531 009 992	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	2531 009 991	-3.0	0.000 000	-0.001
2655.000	100 %	+20(Ref)	2655 000 003	0.0	0.000 000	0.000
	100 %	-30	2655 000 007	4.1	0.000 000	0.002
	100 %	-20	2655 000 002	-0.8	0.000 000	0.000
	100 %	-10	2655 000 001	-1.5	0.000 000	-0.001
	100 %	0	2655 000 006	3.3	0.000 000	0.001
	100 %	+10	2655 000 003	-0.3	0.000 000	0.000
	100 %	+30	2655 000 003	0.4	0.000 000	0.000
	100 %	+40	2655 000 003	0.5	0.000 000	0.000
	100 %	+50	2655 000 002	-1.4	0.000 000	-0.001
	Batt. Endpoint	+20	2655 000 005	1.8	0.000 000	0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.900 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 020 000	0.0	0.000 000	0.000
	100 %	-30	2536 020 004	3.8	0.000 000	0.001
	100 %	-20	2536 020 000	-0.2	0.000 000	0.000
	100 %	-10	2536 020 002	2.0	0.000 000	0.001
	100 %	0	2536 019 998	-1.9	0.000 000	-0.001
	100 %	+10	2536 019 998	-1.9	0.000 000	-0.001
	100 %	+30	2536 019 999	-1.5	0.000 000	-0.001
	100 %	+40	2536 020 002	1.5	0.000 000	0.001
	100 %	+50	2536 019 997	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	2536 020 001	0.7	0.000 000	0.000
2649.990	100 %	+20(Ref)	2649 990 001	0.0	0.000 000	0.000
	100 %	-30	2649 989 996	-4.7	0.000 000	-0.002
	100 %	-20	2649 989 996	-4.7	0.000 000	-0.002
	100 %	-10	2649 989 999	-2.0	0.000 000	-0.001
	100 %	0	2649 989 994	-6.6	0.000 000	-0.002
	100 %	+10	2649 989 999	-2.3	0.000 000	-0.001
	100 %	+30	2649 989 997	-3.9	0.000 000	-0.001
	100 %	+40	2649 989 999	-1.7	0.000 000	-0.001
	100 %	+50	2649 989 997	-4.1	0.000 000	-0.002
	Batt. Endpoint	+20	2649 989 998	-2.6	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.900 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 999 995	0.0	0.000 000	0.000
	100 %	-30	2540 999 992	-3.5	0.000 000	-0.001
	100 %	-20	2540 999 991	-4.0	0.000 000	-0.002
	100 %	-10	2540 999 993	-2.1	0.000 000	-0.001
	100 %	0	2540 999 990	-5.3	0.000 000	-0.002
	100 %	+10	2540 999 992	-3.4	0.000 000	-0.001
	100 %	+30	2540 999 992	-3.6	0.000 000	-0.001
	100 %	+40	2540 999 991	-3.8	0.000 000	-0.002
	100 %	+50	2540 999 992	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	2540 999 991	-3.8	0.000 000	-0.001
2644.980	100 %	+20(Ref)	2644 979 998	0.0	0.000 000	0.000
	100 %	-30	2644 979 996	-2.2	0.000 000	-0.001
	100 %	-20	2644 979 998	-0.2	0.000 000	0.000
	100 %	-10	2644 979 998	0.6	0.000 000	0.000
	100 %	0	2644 979 999	1.5	0.000 000	0.001
	100 %	+10	2644 979 999	1.5	0.000 000	0.001
	100 %	+30	2644 979 999	1.1	0.000 000	0.000
	100 %	+40	2644 979 996	-1.4	0.000 000	-0.001
	100 %	+50	2644 980 000	1.9	0.000 000	0.001
	Batt. Endpoint	+20	2644 979 997	-0.6	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.900 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 009 999	0.0	0.000 000	0.000
	100 %	-30	2546 010 000	1.1	0.000 000	0.000
	100 %	-20	2546 009 996	-2.3	0.000 000	-0.001
	100 %	-10	2546 009 997	-1.2	0.000 000	0.000
	100 %	0	2546 009 997	-1.2	0.000 000	0.000
	100 %	+10	2546 009 997	-1.6	0.000 000	-0.001
	100 %	+30	2546 009 998	-0.5	0.000 000	0.000
	100 %	+40	2546 009 998	-0.8	0.000 000	0.000
	100 %	+50	2546 009 994	-4.4	0.000 000	-0.002
	Batt. Endpoint	+20	2546 009 997	-1.4	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	-0.3	0.000 000	0.000
	100 %	-20	2639 999 999	-1.1	0.000 000	0.000
	100 %	-10	2640 000 004	4.6	0.000 000	0.002
	100 %	0	2639 999 994	-5.5	0.000 000	-0.002
	100 %	+10	2639 999 997	-3.2	0.000 000	-0.001
	100 %	+30	2640 000 001	1.3	0.000 000	0.001
	100 %	+40	2639 999 995	-4.2	0.000 000	-0.002
	100 %	+50	2639 999 997	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	2640 000 002	2.6	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 Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2501.010	Sub6 n41 / 10 MHz [30 kHz]	PI/2 BPSK	-24.42	12.38	10.61	2.50	H	< 2.00	0.112	20.49	1	22
		QPSK	-24.43	12.37	10.61	2.50	H		0.112	20.48		
		16-QAM	-25.42	11.38	10.61	2.50	H		0.089	19.49		
		64-QAM	-27.11	9.69	10.61	2.50	H		0.060	17.80		
		256-QAM	-29.29	7.51	10.61	2.50	H		0.036	15.62		
2592.990		PI/2 BPSK	-22.53	14.18	11.00	2.55	H		0.183	22.63	1	1
		QPSK	-22.59	14.12	11.00	2.55	H		0.181	22.57		
		16-QAM	-23.57	13.14	11.00	2.55	H		0.144	21.59		
		64-QAM	-25.08	11.63	11.00	2.55	H		0.102	20.08		
		256-QAM	-27.44	9.27	11.00	2.55	H		0.059	17.72		
2685.000		PI/2 BPSK	-25.09	12.47	10.82	2.61	H		0.117	20.68	1	12
		QPSK	-25.12	12.44	10.82	2.61	H		0.116	20.65		
		16-QAM	-26.15	11.41	10.82	2.61	H		0.092	19.62		
		64-QAM	-27.79	9.77	10.82	2.61	H		0.063	17.98		
		256-QAM	-29.63	7.93	10.82	2.61	H		0.041	16.14		

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
2503.500	Sub6 n41 / 15 MHz [30 kHz]	PI/2 BPSK	-24.04	12.82	10.58	2.51	H	< 2.00	0.123	20.89	1	36
		QPSK	-24.05	12.81	10.58	2.51	H		0.122	20.88		
		16-QAM	-25.01	11.85	10.58	2.51	H		0.098	19.92		
		64-QAM	-26.77	10.09	10.58	2.51	H		0.065	18.16		
		256-QAM	-28.43	8.43	10.58	2.51	H		0.045	16.50		
2592.990		PI/2 BPSK	-22.53	14.18	11.00	2.55	H		0.183	22.63	1	1
		QPSK	-22.56	14.15	11.00	2.55	H		0.182	22.60		
		16-QAM	-23.42	13.29	11.00	2.55	H		0.149	21.74		
		64-QAM	-25.26	11.45	11.00	2.55	H		0.098	19.90		
		256-QAM	-26.96	9.75	11.00	2.55	H		0.066	18.20		
2682.480		PI/2 BPSK	-24.93	12.74	10.84	2.61	H		0.125	20.97	1	1
		QPSK	-24.95	12.72	10.84	2.61	H		0.124	20.95		
		16-QAM	-25.86	11.81	10.84	2.61	H		0.101	20.04		
		64-QAM	-27.44	10.23	10.84	2.61	H		0.070	18.46		
		256-QAM	-29.47	8.20	10.84	2.61	H		0.044	16.43		

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
2506.020	Sub6 n41 / 20 MHz [30 kHz]	PI/2 BPSK	-23.47	13.39	10.58	2.51	H	< 2.00	0.140	21.46	1	49
		QPSK	-23.49	13.37	10.58	2.51	H		0.139	21.44		
		16-QAM	-24.57	12.29	10.58	2.51	H		0.109	20.36		
		64-QAM	-26.06	10.80	10.58	2.51	H		0.077	18.87		
		256-QAM	-27.95	8.91	10.58	2.51	H		0.050	16.98		
2592.990		PI/2 BPSK	-22.66	14.05	11.00	2.55	H		0.178	22.50	1	25
		QPSK	-22.68	14.03	11.00	2.55	H		0.177	22.48		
		16-QAM	-23.72	12.99	11.00	2.55	H		0.139	21.44		
		64-QAM	-25.15	11.56	11.00	2.55	H		0.100	20.01		
		256-QAM	-27.06	9.65	11.00	2.55	H		0.065	18.10		
2679.990		PI/2 BPSK	-24.73	12.94	10.84	2.61	H		0.131	21.17	1	1
		QPSK	-24.77	12.90	10.84	2.61	H		0.130	21.13		
		16-QAM	-25.57	12.10	10.84	2.61	H		0.108	20.33		
		64-QAM	-27.54	10.13	10.84	2.61	H		0.069	18.36		
		256-QAM	-29.37	8.30	10.84	2.61	H		0.045	16.53		

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
2508.510	Sub6 n41 / 25 MHz [30 kHz]	PI/2 BPSK	-23.19	13.73	10.55	2.51	H	< 2.00	0.150	21.77	1	63
		QPSK	-23.22	13.70	10.55	2.51	H		0.149	21.74		
		16-QAM	-24.25	12.67	10.55	2.51	H		0.118	20.71		
		64-QAM	-25.74	11.18	10.55	2.51	H		0.084	19.22		
		256-QAM	-27.63	9.29	10.55	2.51	H		0.054	17.33		
2592.990		PI/2 BPSK	-22.39	14.32	11.00	2.55	H		0.189	22.77	1	1
		QPSK	-22.41	14.30	11.00	2.55	H		0.188	22.75		
		16-QAM	-23.40	13.31	11.00	2.55	H		0.150	21.76		
		64-QAM	-24.99	11.72	11.00	2.55	H		0.104	20.17		
		256-QAM	-26.98	9.73	11.00	2.55	H		0.066	18.18		
2677.500		PI/2 BPSK	-24.65	13.02	10.84	2.61	H		0.133	21.25	1	1
		QPSK	-24.59	13.08	10.84	2.61	H		0.135	21.31		
		16-QAM	-25.67	12.00	10.84	2.61	H		0.105	20.23		
		64-QAM	-27.32	10.35	10.84	2.61	H		0.072	18.58		
		256-QAM	-29.17	8.50	10.84	2.61	H		0.047	16.73		

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
2511.000	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	-22.83	14.09	10.55	2.51	H	< 2.00	0.163	22.13	1	76
		QPSK	-22.84	14.08	10.55	2.51	H		0.163	22.12		
		16-QAM	-23.86	13.06	10.55	2.51	H		0.129	21.10		
		64-QAM	-25.51	11.41	10.55	2.51	H		0.088	19.45		
		256-QAM	-27.57	9.35	10.55	2.51	H		0.055	17.39		
2592.990		PI/2 BPSK	-22.36	14.35	11.00	2.55	H		0.191	22.80	1	1
		QPSK	-22.37	14.34	11.00	2.55	H		0.190	22.79		
		16-QAM	-23.38	13.33	11.00	2.55	H		0.151	21.78		
		64-QAM	-24.94	11.77	11.00	2.55	H		0.105	20.22		
		256-QAM	-26.95	9.76	11.00	2.55	H		0.066	18.21		
2674.980		PI/2 BPSK	-24.41	12.88	10.85	2.62	H		0.129	21.11	1	1
		QPSK	-24.42	12.87	10.85	2.62	H		0.129	21.10		
		16-QAM	-25.26	12.03	10.85	2.62	H		0.106	20.26		
		64-QAM	-27.17	10.12	10.85	2.62	H		0.068	18.35		
		256-QAM	-29.22	8.07	10.85	2.62	H		0.043	16.30		

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
2516.010	Sub6 n41 / 40 MHz [30 kHz]	PI/2 BPSK	-22.28	14.65	10.52	2.53	H	< 2.00	0.184	22.64	1	104
		QPSK	-22.32	14.61	10.52	2.53	H		0.182	22.60		
		16-QAM	-23.28	13.65	10.52	2.53	H		0.146	21.64		
		64-QAM	-24.97	11.96	10.52	2.53	H		0.099	19.95		
		256-QAM	-26.95	9.98	10.52	2.53	H		0.063	17.97		
2592.990		PI/2 BPSK	-22.46	14.25	11.00	2.55	H		0.186	22.70	1	53
		QPSK	-22.49	14.22	11.00	2.55	H		0.185	22.67		
		16-QAM	-23.30	13.41	11.00	2.55	H		0.153	21.86		
		64-QAM	-25.19	11.52	11.00	2.55	H		0.099	19.97		
		256-QAM	-27.09	9.62	11.00	2.55	H		0.064	18.07		
2670.000		PI/2 BPSK	-24.22	12.68	10.87	2.62	H		0.124	20.93	1	1
		QPSK	-24.24	12.66	10.87	2.62	H		0.123	20.91		
		16-QAM	-25.08	11.82	10.87	2.62	H		0.102	20.07		
		64-QAM	-27.01	9.89	10.87	2.62	H		0.065	18.14		
		256-QAM	-28.89	8.01	10.87	2.62	H		0.042	16.26		

Freq. (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-22.33	14.60	10.49	2.54	H	< 2.00	0.180	22.55	1	131
		QPSK	-22.34	14.59	10.49	2.54	H		0.179	22.54		
		16-QAM	-23.42	13.51	10.49	2.54	H		0.140	21.46		
		64-QAM	-24.86	12.07	10.49	2.54	H		0.100	20.02		
		256-QAM	-26.92	10.01	10.49	2.54	H		0.063	17.96		
2592.990		PI/2 BPSK	-22.54	14.17	11.00	2.55	H		0.183	22.62	1	66
		QPSK	-22.55	14.16	11.00	2.55	H		0.182	22.61		
		16-QAM	-23.48	13.23	11.00	2.55	H		0.147	21.68		
		64-QAM	-25.30	11.41	11.00	2.55	H		0.097	19.86		
		256-QAM	-27.26	9.45	11.00	2.55	H		0.062	17.90		
2664.990		PI/2 BPSK	-24.27	12.68	10.88	2.64	H		0.124	20.92	1	1
		QPSK	-24.33	12.62	10.88	2.64	H		0.122	20.86		
		16-QAM	-25.32	11.63	10.88	2.64	H		0.097	19.87		
		64-QAM	-26.78	10.17	10.88	2.64	H		0.069	18.41		
		256-QAM	-28.84	8.11	10.88	2.64	H		0.043	16.35		

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
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-22.65	13.98	10.52	2.54	H	< 2.00	0.157	21.96	1	82
		QPSK	-22.67	13.96	10.52	2.54	H		0.156	21.94		
		16-QAM	-23.71	12.92	10.52	2.54	H		0.123	20.90		
		64-QAM	-25.31	11.32	10.52	2.54	H		0.085	19.30		
		256-QAM	-27.23	9.40	10.52	2.54	H		0.055	17.38		
2592.990		PI/2 BPSK	-22.35	14.36	11.00	2.55	H		0.191	22.81	1	1
		QPSK	-22.36	14.35	11.00	2.55	H		0.191	22.80		
		16-QAM	-23.35	13.36	11.00	2.55	H		0.152	21.81		
		64-QAM	-24.80	11.91	11.00	2.55	H		0.109	20.36		
		256-QAM	-26.89	9.82	11.00	2.55	H		0.067	18.27		
2659.980		PI/2 BPSK	-23.78	13.23	10.90	2.67	H		0.140	21.46	1	1
		QPSK	-23.82	13.19	10.90	2.67	H		0.139	21.42		
		16-QAM	-24.80	12.21	10.90	2.67	H		0.111	20.44		
		64-QAM	-26.39	10.62	10.90	2.67	H		0.077	18.85		
		256-QAM	-28.51	8.50	10.90	2.67	H		0.047	16.73		

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
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-22.30	14.03	10.56	2.54	H	< 2.00	0.160	22.05	1	187
		QPSK	-22.31	14.02	10.56	2.54	H		0.160	22.04		
		16-QAM	-23.26	13.07	10.56	2.54	H		0.129	21.09		
		64-QAM	-24.99	11.34	10.56	2.54	H		0.086	19.36		
		256-QAM	-26.89	9.44	10.56	2.54	H		0.056	17.46		
2592.990		PI/2 BPSK	-22.50	14.21	11.00	2.55	H		0.185	22.66	1	1
		QPSK	-22.52	14.19	11.00	2.55	H		0.184	22.64		
		16-QAM	-23.52	13.19	11.00	2.55	H		0.146	21.64		
		64-QAM	-25.00	11.71	11.00	2.55	H		0.104	20.16		
		256-QAM	-27.24	9.47	11.00	2.55	H		0.062	17.92		
2655.000		PI/2 BPSK	-22.92	13.99	10.91	2.68	H		0.167	22.22	1	1
		QPSK	-22.97	13.94	10.91	2.68	H		0.165	22.17		
		16-QAM	-23.86	13.05	10.91	2.68	H		0.134	21.28		
		64-QAM	-25.55	11.36	10.91	2.68	H		0.091	19.59		
		256-QAM	-27.63	9.28	10.91	2.68	H		0.056	17.51		

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
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-22.24	14.22	10.59	2.54	H	< 2.00	0.169	22.27	1	108
		QPSK	-22.27	14.19	10.59	2.54	H		0.167	22.24		
		16-QAM	-23.34	13.12	10.59	2.54	H		0.131	21.17		
		64-QAM	-24.86	11.60	10.59	2.54	H		0.092	19.65		
		256-QAM	-26.97	9.49	10.59	2.54	H		0.057	17.54		
2592.990		PI/2 BPSK	-22.49	14.22	11.00	2.55	H		0.185	22.67	1	108
		QPSK	-22.51	14.20	11.00	2.55	H		0.184	22.65		
		16-QAM	-23.47	13.24	11.00	2.55	H		0.148	21.69		
		64-QAM	-25.09	11.62	11.00	2.55	H		0.102	20.07		
		256-QAM	-26.99	9.72	11.00	2.55	H		0.066	18.17		
2649.990		PI/2 BPSK	-22.56	14.23	10.93	2.69	H		0.177	22.47	1	1
		QPSK	-22.58	14.21	10.93	2.69	H		0.176	22.45		
		16-QAM	-23.59	13.20	10.93	2.69	H		0.139	21.44		
		64-QAM	-25.22	11.57	10.93	2.69	H		0.096	19.81		
		256-QAM	-27.15	9.64	10.93	2.69	H		0.061	17.88		

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
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-22.06	14.52	10.62	2.53	H	< 2.00	0.182	22.61	1	122
		QPSK	-22.12	14.46	10.62	2.53	H		0.180	22.55		
		16-QAM	-23.16	13.42	10.62	2.53	H		0.142	21.51		
		64-QAM	-24.75	11.83	10.62	2.53	H		0.098	19.92		
		256-QAM	-26.72	9.86	10.62	2.53	H		0.062	17.95		
2592.990		PI/2 BPSK	-21.94	14.77	11.00	2.55	H		0.210	23.22	1	1
		QPSK	-22.02	14.69	11.00	2.55	H		0.206	23.14		
		16-QAM	-22.92	13.79	11.00	2.55	H		0.167	22.24		
		64-QAM	-24.66	12.05	11.00	2.55	H		0.112	20.50		
		256-QAM	-26.47	10.24	11.00	2.55	H		0.074	18.69		
2644.980		PI/2 BPSK	-22.24	14.87	10.95	2.68	H		0.206	23.14	1	1
		QPSK	-22.33	14.78	10.95	2.68	H		0.202	23.05		
		16-QAM	-23.37	13.74	10.95	2.68	H		0.159	22.01		
		64-QAM	-24.82	12.29	10.95	2.68	H		0.114	20.56		
		256-QAM	-26.99	10.12	10.95	2.68	H		0.069	18.39		

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
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-22.10	14.45	10.66	2.53	H	< 2.00	0.181	22.58	1	271
		QPSK	-22.19	14.36	10.66	2.53	H		0.177	22.49		
		16-QAM	-23.17	13.38	10.66	2.53	H		0.142	21.51		
		64-QAM	-24.73	11.82	10.66	2.53	H		0.099	19.95		
		256-QAM	-26.88	9.67	10.66	2.53	H		0.060	17.80		
2592.990		PI/2 BPSK	-21.96	14.75	11.00	2.55	H		0.209	23.20	1	1
		QPSK	-21.97	14.74	11.00	2.55	H		0.208	23.19		
		16-QAM	-23.02	13.69	11.00	2.55	H		0.164	22.14		
		64-QAM	-24.52	12.19	11.00	2.55	H		0.116	20.64		
		256-QAM	-26.59	10.12	11.00	2.55	H		0.072	18.57		
2640.000		PI/2 BPSK	-22.11	15.33	10.96	2.68	H		0.230	23.61	1	1
		QPSK	-22.12	15.32	10.96	2.68	H		0.229	23.60		
		16-QAM	-23.16	14.28	10.96	2.68	H		0.180	22.56		
		64-QAM	-24.77	12.67	10.96	2.68	H		0.124	20.95		
		256-QAM	-26.77	10.67	10.96	2.68	H		0.079	18.95		

9.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: n41
- ▣ Bandwidth: 10 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
500202 (2501.010)	5 002.02	-62.88	11.22	-64.59	3.71	V	-57.08	-25.00	1	22
	7 503.03	-64.01	11.54	-56.58	4.60	V	-49.64	-25.00		
	10 004.04	-62.95	11.47	-53.55	5.47	V	-47.55	-25.00		
518598 (2592.990)	5 185.98	-62.23	11.61	-63.40	3.80	V	-55.59	-25.00	1	1
	7 778.97	-62.24	11.26	-55.17	4.70	V	-48.61	-25.00		
	10 371.96	-63.07	11.68	-51.98	5.55	V	-45.85	-25.00		
537000 (2685.000)	5 370.00	-62.94	11.96	-64.57	3.92	V	-56.53	-25.00	1	12
	8 055.00	-60.85	11.24	-53.57	4.81	V	-47.14	-25.00		
	10 740.00	-64.52	11.55	-52.50	5.64	V	-46.59	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 15 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500700 (2503.500)	5 007.00	-62.12	11.20	-63.55	3.71	V	-56.06	-25.00	1	36
	7 510.50	-61.57	11.55	-54.03	4.60	V	-47.08	-25.00		
	10 014.00	-64.09	11.46	-54.70	5.47	V	-48.71	-25.00		
518598 (2592.990)	5 185.98	-61.55	11.61	-62.72	3.80	V	-54.91	-25.00	1	1
	7 778.97	-63.31	11.26	-56.24	4.70	V	-49.68	-25.00		
	10 371.96	-62.41	11.68	-51.32	5.55	V	-45.19	-25.00		
536496 (2682.480)	5 364.96	-62.09	11.95	-63.61	3.91	V	-55.57	-25.00	1	1
	8 047.44	-63.32	11.23	-56.10	4.81	V	-49.68	-25.00		
	10 729.92	-63.97	11.56	-51.90	5.65	V	-45.99	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 20 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501204 (2506.020)	5 012.04	-62.06	11.18	-63.20	3.72	V	-55.74	-25.00	1	49
	7 518.06	-61.26	11.56	-53.62	4.61	V	-46.67	-25.00		
	10 024.08	-64.70	11.46	-55.35	5.47	V	-49.36	-25.00		
518598 (2592.990)	5 185.98	-61.05	11.61	-62.22	3.80	V	-54.41	-25.00	1	25
	7 778.97	-63.20	11.26	-56.13	4.70	V	-49.57	-25.00		
	10 371.96	-63.16	11.68	-52.07	5.55	V	-45.94	-25.00		
535998 (2679.990)	5 359.98	-62.86	11.95	-64.29	3.90	V	-56.24	-25.00	1	1
	8 039.97	-62.42	11.22	-55.11	4.80	V	-48.69	-25.00		
	10 719.96	-63.25	11.56	-51.60	5.64	V	-45.68	-25.00		

- ▣ NR Band: n41
- ▣ 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	-62.08	11.17	-63.00	3.70	V	-55.53	-25.00	1	63
	7 525.53	-61.40	11.57	-53.75	4.61	V	-46.79	-25.00		
	10 034.04	-65.45	11.45	-56.21	5.48	V	-50.24	-25.00		
518598 (2592.990)	5 185.98	-60.79	11.61	-61.96	3.80	V	-54.15	-25.00	1	1
	7 778.97	-61.94	11.26	-54.87	4.70	V	-48.31	-25.00		
	10 371.96	-62.62	11.68	-51.53	5.55	V	-45.40	-25.00		
535500 (2677.500)	5 355.00	-63.29	11.94	-64.84	3.88	V	-56.78	-25.00	1	1
	8 032.50	-62.64	11.21	-55.35	4.80	V	-48.94	-25.00		
	10 710.00	-63.07	11.57	-51.35	5.65	V	-45.43	-25.00		

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502200 (2511.000)	5 022.00	-61.94	11.17	-62.64	3.69	V	-55.16	-25.00	1	76
	7 533.00	-61.90	11.57	-54.30	4.61	V	-47.34	-25.00		
	10 044.00	-64.30	11.44	-54.98	5.48	V	-49.02	-25.00		
518598 (2592.990)	5 185.98	-60.53	11.61	-61.70	3.80	V	-53.89	-25.00	1	1
	7 778.97	-62.22	11.26	-55.15	4.70	V	-48.59	-25.00		
	10 371.96	-63.26	11.68	-52.17	5.55	V	-46.04	-25.00		
534996 (2674.980)	5 349.96	-62.18	11.94	-63.87	3.85	V	-55.78	-25.00	1	1
	8 024.94	-62.98	11.20	-55.73	4.79	V	-49.32	-25.00		
	10 699.92	-63.09	11.57	-51.09	5.67	V	-45.19	-25.00		

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503202 (2516.010)	5 032.02	-61.19	11.19	-62.03	3.67	V	-54.51	-25.00	1	104
	7 548.03	-62.73	11.59	-55.36	4.63	V	-48.40	-25.00		
	10 064.04	-64.19	11.42	-54.97	5.47	V	-49.02	-25.00		
518598 (2592.990)	5 185.98	-60.71	11.61	-61.88	3.80	V	-54.07	-25.00	1	53
	7 778.97	-62.64	11.26	-55.57	4.70	V	-49.01	-25.00		
	10 371.96	-62.79	11.68	-51.70	5.55	V	-45.57	-25.00		
534000 (2670.000)	5 340.00	-63.15	11.93	-65.13	3.80	V	-57.00	-25.00	1	1
	8 010.00	-63.44	11.17	-56.12	4.77	V	-49.72	-25.00		
	10 680.00	-63.11	11.57	-50.53	5.71	V	-44.67	-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	-61.04	11.20	-62.08	3.68	V	-54.56	-25.00	1	131
	7 563.06	-62.07	11.60	-54.54	4.64	V	-47.58	-25.00		
	10 084.08	-64.01	11.40	-54.78	5.46	V	-48.84	-25.00		
518598 (2592.990)	5 185.98	-61.40	11.61	-62.57	3.80	V	-54.76	-25.00	1	66
	7 778.97	-63.31	11.26	-56.24	4.70	V	-49.68	-25.00		
	10 371.96	-63.20	11.68	-52.11	5.55	V	-45.98	-25.00		
532998 (2664.990)	5 329.98	-62.98	11.92	-64.71	3.77	V	-56.56	-25.00	1	1
	7 994.97	-63.21	11.13	-55.66	4.77	V	-49.30	-25.00		
	10 659.96	-64.33	11.58	-51.93	5.67	V	-46.02	-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	-61.61	11.22	-63.08	3.73	V	-55.59	-25.00	1	82
	7 578.00	-62.45	11.61	-54.79	4.65	V	-47.83	-25.00		
	10 104.00	-64.15	11.39	-54.59	5.46	V	-48.66	-25.00		
518598 (2592.990)	5 185.98	-60.12	11.61	-61.29	3.80	V	-53.48	-25.00	1	1
	7 778.97	-62.10	11.26	-55.03	4.70	V	-48.47	-25.00		
	10 371.96	-62.61	11.68	-51.52	5.55	V	-45.39	-25.00		
531996 (2659.980)	5 319.96	-63.09	11.91	-64.64	3.79	V	-56.52	-25.00	1	1
	7 979.94	-63.13	11.10	-55.43	4.79	V	-49.12	-25.00		
	10 639.92	-63.22	11.58	-50.84	5.61	V	-44.87	-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	-61.87	11.24	-63.24	3.78	V	-55.78	-25.00	1	187
	7 593.03	-62.48	11.62	-55.20	4.64	V	-48.22	-25.00		
	10 124.04	-64.55	11.37	-54.86	5.47	V	-48.96	-25.00		
518598 (2592.990)	5 185.98	-60.13	11.61	-61.30	3.80	V	-53.49	-25.00	1	1
	7 778.97	-62.67	11.26	-55.60	4.70	V	-49.04	-25.00		
	10 371.96	-63.05	11.68	-51.96	5.55	V	-45.83	-25.00		
531000 (2655.000)	5 310.00	-61.90	11.91	-63.01	3.82	V	-54.92	-25.00	1	1
	7 965.00	-63.68	11.07	-55.86	4.80	V	-49.59	-25.00		
	10 620.00	-63.26	11.58	-51.22	5.65	V	-45.29	-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	-61.77	11.25	-62.93	3.80	V	-55.48	-25.00	1	108
	7 608.06	-61.24	11.60	-54.36	4.64	V	-47.40	-25.00		
	10 144.08	-64.07	11.36	-54.46	5.48	V	-48.58	-25.00		
518598 (2592.990)	5 185.98	-60.95	11.61	-62.12	3.80	V	-54.31	-25.00	1	108
	7 778.97	-62.85	11.26	-55.78	4.70	V	-49.22	-25.00		
	10 371.96	-62.94	11.68	-51.85	5.55	V	-45.72	-25.00		
529998 (2649.990)	5 299.98	-63.05	11.90	-64.55	3.83	V	-56.48	-25.00	1	1
	7 949.97	-63.74	11.03	-56.09	4.78	V	-49.84	-25.00		
	10 599.96	-63.26	11.58	-51.97	5.67	V	-46.06	-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	-61.48	11.27	-62.28	3.81	V	-54.82	-25.00	1	122
	7 623.00	-61.58	11.57	-54.64	4.65	V	-47.72	-25.00		
	10 164.00	-65.10	11.34	-55.24	5.50	V	-49.40	-25.00		
518598 (2592.990)	5 185.98	-60.43	11.61	-61.60	3.80	V	-53.79	-25.00	1	1
	7 778.97	-62.69	11.26	-55.62	4.70	V	-49.06	-25.00		
	10 371.96	-62.31	11.68	-51.22	5.55	V	-45.09	-25.00		
528996 (2644.980)	5 289.96	-62.23	11.89	-63.81	3.83	V	-55.75	-25.00	1	1
	7 934.94	-62.75	11.01	-55.37	4.77	V	-49.13	-25.00		
	10 579.92	-63.21	11.62	-52.06	5.65	V	-46.09	-25.00		

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-61.85	11.29	-62.73	3.78	V	-55.22	-25.00	1	271
	7 638.03	-62.50	11.54	-55.53	4.68	V	-48.67	-25.00		
	10 184.04	-65.02	11.35	-54.98	5.52	V	-49.15	-25.00		
518598 (2592.990)	5 185.98	-61.58	11.61	-62.75	3.80	V	-54.94	-25.00	1	1
	7 778.97	-62.88	11.26	-55.81	4.70	V	-49.25	-25.00		
	10 371.96	-63.14	11.68	-52.05	5.55	V	-45.92	-25.00		
528000 (2640.000)	5 280.00	-61.91	11.88	-63.94	3.80	V	-55.86	-25.00	1	1
	7 920.00	-63.58	11.02	-56.16	4.77	V	-49.91	-25.00		
	10 560.00	-63.56	11.65	-52.62	5.63	V	-46.60	-25.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41	10 MHz	2592.990	BPSK	24	0	4.60
			QPSK			5.94
			16-QAM			6.66
			64-QAM			6.64
			256-QAM			7.04
	15 MHz		BPSK	36		5.56
			QPSK			5.93
			16-QAM			6.72
			64-QAM			6.65
			256-QAM			7.05
	20 MHz		BPSK	50		6.00
			QPSK			6.18
			16-QAM			6.80
			64-QAM			6.67
			256-QAM			7.13
	25 MHz		BPSK	64		4.66
			QPSK			5.82
			16-QAM			6.57
			64-QAM			6.54
			256-QAM			7.09
	30 MHz		BPSK	75		4.91
			QPSK			5.81
			16-QAM			6.60
			64-QAM			6.51
			256-QAM			7.03
	40 MHz		BPSK	100		4.72
			QPSK			5.87
			16-QAM			6.64
			64-QAM			6.54
			256-QAM			7.18
	50 MHz		BPSK	128		5.13
			QPSK			5.75
			16-QAM			6.54
			64-QAM			6.71
			256-QAM			6.93

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41	60 MHz	2592.990	BPSK	162	0	5.98
			QPSK			6.06
			16-QAM			6.68
			64-QAM			6.80
			256-QAM			7.04
	70 MHz		BPSK	180		4.54
			QPSK			5.74
			16-QAM			6.60
			64-QAM			6.73
			256-QAM			7.09
	80 MHz		BPSK	216		4.64
			QPSK			5.68
			16-QAM			6.47
			64-QAM			6.64
			256-QAM			7.08
	90 MHz		BPSK	243		4.48
			QPSK			5.68
			16-QAM			6.47
			64-QAM			6.61
			256-QAM			6.92
	100 MHz		BPSK	270		5.19
			QPSK			5.66
			16-QAM			6.46
			64-QAM			6.60
			256-QAM			6.95

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 397 ~ 456.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41	10 MHz	2592.990	BPSK	24	0	8.6832
			QPSK			8.7039
			16-QAM			8.7180
			64-QAM			8.7375
			256-QAM			8.6653
	15 MHz		BPSK	36		12.980
			QPSK			12.971
			16-QAM			13.008
			64-QAM			12.951
			256-QAM			12.944
	20 MHz		BPSK	50		17.982
			QPSK			17.976
			16-QAM			17.988
			64-QAM			17.966
			256-QAM			17.941
	25 MHz		BPSK	64		23.040
			QPSK			23.100
			16-QAM			23.049
			64-QAM			23.064
			256-QAM			23.038
	30 MHz		BPSK	75		26.996
			QPSK			26.990
			16-QAM			26.909
			64-QAM			26.938
			256-QAM			26.899
	40 MHz		BPSK	100		35.956
			QPSK			36.008
			16-QAM			35.948
			64-QAM			35.942
			256-QAM			36.017
	50 MHz		BPSK	128		46.022
			QPSK			46.009
			16-QAM			45.968
			64-QAM			45.936
			256-QAM			45.877

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41	60 MHz	2592.990	BPSK	162	0	58.166
			QPSK			58.291
			16-QAM			58.298
			64-QAM			58.435
			256-QAM			58.294
	70 MHz		BPSK	180		64.781
			QPSK			64.922
			16-QAM			64.769
			64-QAM			64.956
			256-QAM			64.932
	80 MHz		BPSK	216		77.576
			QPSK			77.472
			16-QAM			77.373
			64-QAM			77.467
			256-QAM			77.790
	90 MHz		BPSK	243		87.379
			QPSK			87.239
			16-QAM			87.003
			64-QAM			87.063
			256-QAM			87.121
	100 MHz		BPSK	270		96.912
			QPSK			96.908
			16-QAM			96.874
			64-QAM			96.844
			256-QAM			96.740

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 457 ~ 516.

9.5 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 n41	10	2501.010	4.6361	29.722	-63.469	-33.747	-25.00
		2592.990	3.8086	29.722	-63.052	-33.330	
		2685.000	9.3918	30.315	-63.417	-33.102	
	15	2503.500	5.9522	30.315	-63.267	-32.952	
		2592.990	6.0718	30.315	-62.759	-32.444	
		2682.480	8.8933	30.315	-62.919	-32.604	
	20	2506.020	3.2005	29.722	-62.995	-33.273	
		2592.990	9.4217	30.315	-63.343	-33.028	
		2679.990	8.5145	30.315	-62.853	-32.538	
	25	2508.480	7.3879	30.315	-63.556	-33.241	
		2592.990	9.6710	30.315	-63.030	-32.715	
		2677.500	5.4537	30.315	-63.783	-33.468	
	30	2511.000	9.9801	30.315	-62.682	-32.367	
		2592.990	3.3002	29.722	-62.085	-32.363	
		2674.980	4.8754	29.722	-62.988	-33.266	
	40	2516.010	4.8754	29.722	-62.517	-32.795	
		2592.990	3.7787	29.722	-63.234	-33.512	
		2670.000	9.1027	30.315	-63.346	-33.031	
	50	2521.020	4.9652	29.722	-63.408	-33.686	
		2592.990	8.5244	30.315	-63.213	-32.898	
		2664.990	2.7319	29.722	-58.543	-28.821	
	60	2526.000	7.7268	30.315	-63.245	-32.930	
		2592.990	3.7289	29.722	-63.160	-33.438	
		2659.980	4.0180	29.722	-62.864	-33.142	
	70	2531.010	5.2443	30.315	-63.467	-33.152	
		2592.990	4.0379	29.722	-62.514	-32.792	
		2655.000	9.1226	30.315	-62.212	-31.897	
	80	2536.020	4.9452	29.722	-63.134	-33.412	
		2592.990	4.5564	29.722	-62.514	-32.792	
		2649.990	6.3909	30.315	-63.227	-32.912	
	90	2541.000	4.0080	29.722	-62.865	-33.143	
		2592.990	2.7219	29.722	-58.828	-29.106	
		2644.980	2.7219	29.722	-62.727	-33.005	
	100	2546.010	8.1655	30.315	-63.688	-33.373	
		2592.990	2.7418	29.722	-62.105	-32.383	
		2640.000	6.0120	30.315	-63.058	-32.743	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 517 ~ 588.
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

9.6 CHANNEL EDGE

BW	Test. Frequency (MHz)	Modulation	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 MHz	2501.010	BPSK	Full RB	-23.20	-23.18	-25.47	-25.02	-29.63	-30.23	-34.88
15 MHz	2503.500	BPSK	Full RB	-22.25	-31.21	-26.05	-29.83	-30.74	-30.69	-38.03
20 MHz	2506.020	BPSK	Full RB	-22.80	-26.18	-27.03	-28.35	-28.33	-29.22	-35.28
25 MHz	2508.510	BPSK	Full RB	-24.13	-27.93	-29.70	-31.20	-31.75	-33.59	-39.60
30 MHz	2511.000	BPSK	Full RB	-25.58	-34.47	-31.37	-34.18	-31.55	-34.62	-42.31
40 MHz	2516.010	BPSK	Full RB	-24.13	-36.27	-29.97	-35.56	-30.21	-35.61	-41.54
50 MHz	2521.020	BPSK	Full RB	-22.79	-33.42	-28.46	-34.51	-32.51	-34.66	-42.46
60 MHz	2526.000	BPSK	Full RB	-17.79	-20.01	-25.76	-27.61	-32.23	-35.54	-41.59
70 MHz	2531.010	BPSK	Full RB	-21.78	-33.04	-25.84	-34.07	-31.26	-35.00	-42.08
80 MHz	2536.020	BPSK	Full RB	-21.63	-26.42	-26.89	-29.88	-33.35	-34.35	-44.29
90 MHz	2541.000	BPSK	Full RB	-20.20	-28.26	-26.19	-31.19	-31.43	-34.14	-44.43
100 MHz	2546.010	BPSK	Full RB	-20.48	-29.29	-28.14	-31.65	-33.47	-33.93	-45.25
Limit				-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	-22.41	-22.00	-25.61	-25.18
	2685.000	BPSK	Full RB	0	-23.08	-22.94	-25.10	-25.93
15 MHz	2592.990	BPSK	Full RB	0	-23.47	-28.36	-25.76	-24.78
	2682.480	BPSK	Full RB	0	-21.75	-31.62	-26.36	-30.40
20 MHz	2592.990	BPSK	Full RB	0	-22.60	-25.47	-25.93	-26.22
	2679.990	BPSK	Full RB	0	-21.69	-27.12	-25.74	-30.08
25 MHz	2592.990	BPSK	Full RB	0	-23.55	-26.06	-27.87	-27.61
	2677.500	BPSK	Full RB	0	-23.35	-27.64	-28.92	-30.41
30 MHz	2592.990	BPSK	Full RB	0	-25.31	-30.08	-29.35	-29.08
	2679.990	BPSK	Full RB	0	-24.04	-33.79	-30.83	-33.12
40 MHz	2592.990	BPSK	Full RB	0	-23.99	-29.71	-29.41	-29.81
	2670.000	BPSK	Full RB	0	-23.33	-34.36	-29.68	-31.49
50 MHz	2592.990	BPSK	Full RB	0	-22.12	-27.86	-27.99	-28.58
	2664.990	BPSK	Full RB	0	-22.01	-30.86	-27.92	-32.76
60 MHz	2592.990	BPSK	Full RB	0	-17.20	-18.30	-25.80	-24.79
	2659.980	BPSK	Full RB	0	-16.52	-19.11	-25.06	-26.68
70 MHz	2592.990	BPSK	Full RB	0	-21.17	-28.89	-25.77	-29.55
	2655.000	BPSK	Full RB	0	-21.20	-33.29	-25.76	-34.82
80 MHz	2592.990	BPSK	Full RB	0	-21.75	-25.11	-26.95	-27.74
	2649.990	BPSK	Full RB	0	-21.54	-26.22	-27.54	-29.82
90 MHz	2592.990	BPSK	Full RB	0	-20.55	-25.51	-27.04	-27.99
	2644.980	BPSK	Full RB	0	-20.62	-27.67	-27.46	-30.60
100 MHz	2592.990	BPSK	Full RB	0	-19.46	-27.55	-27.49	-29.91
	2640.000	BPSK	Full RB	0	-19.27	-28.95	-27.35	-30.86
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E $\pm$ 5 MHz) ~ (C.E $\pm$ X MHz)		Above (C.E $\pm$ X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-29.82	-29.79	-36.39	-36.14
	2685.000	BPSK	Full RB	0	-28.82	-30.96	-34.67	-35.46
15 MHz	2592.990	BPSK	Full RB	0	-26.55	-25.39	-38.34	-37.93
	2682.480	BPSK	Full RB	0	-28.13	-30.67	-37.22	-38.33
20 MHz	2592.990	BPSK	Full RB	0	-26.93	-26.52	-35.33	-34.65
	2679.990	BPSK	Full RB	0	-27.74	-29.79	-33.26	-34.70
25 MHz	2592.990	BPSK	Full RB	0	-31.05	-29.34	-39.55	-40.53
	2677.500	BPSK	Full RB	0	-32.09	-32.13	-38.92	-43.39
30 MHz	2592.990	BPSK	Full RB	0	-29.60	-29.08	-38.76	-38.47
	2679.990	BPSK	Full RB	0	-30.70	-32.13	-38.26	-43.98
40 MHz	2592.990	BPSK	Full RB	0	-30.28	-30.98	-40.84	-41.99
	2670.000	BPSK	Full RB	0	-29.69	-33.40	-39.74	-43.94
50 MHz	2592.990	BPSK	Full RB	0	-32.82	-30.49	-40.06	-41.81
	2664.990	BPSK	Full RB	0	-35.70	-33.99	-40.46	-47.81
60 MHz	2592.990	BPSK	Full RB	0	-33.19	-30.62	-40.28	-40.57
	2659.980	BPSK	Full RB	0	-33.80	-33.90	-39.94	-48.62
70 MHz	2592.990	BPSK	Full RB	0	-33.06	-32.16	-41.82	-42.65
	2655.000	BPSK	Full RB	0	-33.59	-35.78	-40.95	-54.48
80 MHz	2592.990	BPSK	Full RB	0	-33.23	-30.68	-47.39	-41.77
	2649.990	BPSK	Full RB	0	-33.24	-34.04	-39.88	-54.61
90 MHz	2592.990	BPSK	Full RB	0	-32.68	-31.65	-54.73	-45.94
	2644.980	BPSK	Full RB	0	-33.09	-33.42	-42.52	-54.74
100 MHz	2592.990	BPSK	Full RB	0	-34.00	-33.09	-54.81	-46.55
	2640.000	BPSK	Full RB	0	-31.65	-32.89	-43.53	-54.47
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 589 ~ 672. (1RB & Full RB)

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

BandWidth:	10 MHz
Voltage(100 %):	3.900 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)	(%)	
2501.010	100 %	+20(Ref)	2501 009 998	0.0	0.000 000	0.000
	100 %	-30	2501 009 995	-2.6	0.000 000	-0.001
	100 %	-20	2501 009 994	-3.6	0.000 000	-0.001
	100 %	-10	2501 009 996	-1.8	0.000 000	-0.001
	100 %	0	2501 009 995	-3.0	0.000 000	-0.001
	100 %	+10	2501 009 995	-3.5	0.000 000	-0.001
	100 %	+30	2501 009 997	-0.5	0.000 000	0.000
	100 %	+40	2501 009 996	-1.5	0.000 000	-0.001
	100 %	+50	2501 009 994	-3.8	0.000 000	-0.002
	Batt. Endpoint	+20	2501 009 994	-3.7	0.000 000	-0.001
2685.000	100 %	+20(Ref)	2685 000 000	0.0	0.000 000	0.000
	100 %	-30	2685 000 001	1.1	0.000 000	0.000
	100 %	-20	2685 000 000	0.0	0.000 000	0.000
	100 %	-10	2685 000 000	0.2	0.000 000	0.000
	100 %	0	2684 999 999	-0.4	0.000 000	0.000
	100 %	+10	2685 000 000	0.6	0.000 000	0.000
	100 %	+30	2685 000 001	1.1	0.000 000	0.000
	100 %	+40	2684 999 999	-0.1	0.000 000	0.000
	100 %	+50	2684 999 999	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	2685 000 001	1.7	0.000 000	0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.900 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 500 000	0.0	0.000 000	0.000
	100 %	-30	2503 499 998	-1.8	0.000 000	-0.001
	100 %	-20	2503 499 998	-1.7	0.000 000	-0.001
	100 %	-10	2503 499 999	-1.2	0.000 000	0.000
	100 %	0	2503 499 998	-1.6	0.000 000	-0.001
	100 %	+10	2503 499 998	-2.1	0.000 000	-0.001
	100 %	+30	2503 499 999	-1.0	0.000 000	0.000
	100 %	+40	2503 499 995	-4.4	0.000 000	-0.002
	100 %	+50	2503 499 999	-1.3	0.000 000	-0.001
	Batt. Endpoint	+20	2503 499 998	-1.8	0.000 000	-0.001
2682.480	100 %	+20(Ref)	2682 480 001	0.0	0.000 000	0.000
	100 %	-30	2682 479 999	-1.9	0.000 000	-0.001
	100 %	-20	2682 480 000	-0.8	0.000 000	0.000
	100 %	-10	2682 479 998	-2.9	0.000 000	-0.001
	100 %	0	2682 480 000	-1.2	0.000 000	0.000
	100 %	+10	2682 479 999	-1.9	0.000 000	-0.001
	100 %	+30	2682 480 001	-0.6	0.000 000	0.000
	100 %	+40	2682 480 000	-1.0	0.000 000	0.000
	100 %	+50	2682 480 000	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	2682 480 000	-1.6	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.900 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 019 999	0.0	0.000 000	0.000
	100 %	-30	2506 019 997	-2.4	0.000 000	-0.001
	100 %	-20	2506 019 999	-0.2	0.000 000	0.000
	100 %	-10	2506 019 997	-2.2	0.000 000	-0.001
	100 %	0	2506 019 998	-1.1	0.000 000	0.000
	100 %	+10	2506 019 999	-0.2	0.000 000	0.000
	100 %	+30	2506 019 997	-2.2	0.000 000	-0.001
	100 %	+40	2506 019 994	-5.1	0.000 000	-0.002
	100 %	+50	2506 019 998	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	2506 019 997	-1.9	0.000 000	-0.001
2679.990	100 %	+20(Ref)	2679 990 002	0.0	0.000 000	0.000
	100 %	-30	2679 990 002	0.0	0.000 000	0.000
	100 %	-20	2679 990 005	3.4	0.000 000	0.001
	100 %	-10	2679 990 000	-1.3	0.000 000	0.000
	100 %	0	2679 990 004	2.0	0.000 000	0.001
	100 %	+10	2679 990 004	1.8	0.000 000	0.001
	100 %	+30	2679 990 003	1.5	0.000 000	0.001
	100 %	+40	2679 990 003	0.9	0.000 000	0.000
	100 %	+50	2679 990 005	3.1	0.000 000	0.001
	Batt. Endpoint	+20	2679 990 002	0.7	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.900 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 509 999	0.0	0.000 000	0.000
	100 %	-30	2508 509 997	-2.8	0.000 000	-0.001
	100 %	-20	2508 509 998	-1.5	0.000 000	-0.001
	100 %	-10	2508 509 998	-1.9	0.000 000	-0.001
	100 %	0	2508 509 998	-1.4	0.000 000	-0.001
	100 %	+10	2508 509 997	-2.6	0.000 000	-0.001
	100 %	+30	2508 509 997	-2.5	0.000 000	-0.001
	100 %	+40	2508 509 997	-2.7	0.000 000	-0.001
	100 %	+50	2508 509 998	-1.3	0.000 000	-0.001
	Batt. Endpoint	+20	2508 509 996	-3.4	0.000 000	-0.001
2677.500	100 %	+20(Ref)	2677 499 998	0.0	0.000 000	0.000
	100 %	-30	2677 499 999	0.7	0.000 000	0.000
	100 %	-20	2677 499 999	1.5	0.000 000	0.001
	100 %	-10	2677 499 997	-0.6	0.000 000	0.000
	100 %	0	2677 499 997	-1.0	0.000 000	0.000
	100 %	+10	2677 499 998	0.0	0.000 000	0.000
	100 %	+30	2677 499 998	-0.1	0.000 000	0.000
	100 %	+40	2677 499 996	-1.6	0.000 000	-0.001
	100 %	+50	2677 499 999	0.7	0.000 000	0.000
	Batt. Endpoint	+20	2677 500 000	1.6	0.000 000	0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.900 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 999 998	0.0	0.000 000	0.000
	100 %	-30	2510 999 997	-0.3	0.000 000	0.000
	100 %	-20	2510 999 997	-0.9	0.000 000	0.000
	100 %	-10	2510 999 996	-2.0	0.000 000	-0.001
	100 %	0	2510 999 996	-1.6	0.000 000	-0.001
	100 %	+10	2510 999 995	-2.3	0.000 000	-0.001
	100 %	+30	2510 999 994	-3.6	0.000 000	-0.001
	100 %	+40	2510 999 995	-2.6	0.000 000	-0.001
	100 %	+50	2510 999 995	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	2510 999 998	-0.1	0.000 000	0.000
2674.980	100 %	+20(Ref)	2674 980 000	0.0	0.000 000	0.000
	100 %	-30	2674 979 997	-2.4	0.000 000	-0.001
	100 %	-20	2674 979 997	-2.4	0.000 000	-0.001
	100 %	-10	2674 979 998	-2.1	0.000 000	-0.001
	100 %	0	2674 979 997	-2.4	0.000 000	-0.001
	100 %	+10	2674 979 998	-2.1	0.000 000	-0.001
	100 %	+30	2674 979 998	-2.1	0.000 000	-0.001
	100 %	+40	2674 979 998	-1.9	0.000 000	-0.001
	100 %	+50	2674 979 997	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	2674 979 996	-3.8	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.900 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 009 997	0.0	0.000 000	0.000
	100 %	-30	2516 009 994	-2.6	0.000 000	-0.001
	100 %	-20	2516 009 993	-3.4	0.000 000	-0.001
	100 %	-10	2516 009 994	-2.9	0.000 000	-0.001
	100 %	0	2516 009 992	-4.5	0.000 000	-0.002
	100 %	+10	2516 009 994	-2.2	0.000 000	-0.001
	100 %	+30	2516 009 995	-1.2	0.000 000	0.000
	100 %	+40	2516 009 994	-2.7	0.000 000	-0.001
	100 %	+50	2516 009 994	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	2516 009 994	-2.2	0.000 000	-0.001
2670.000	100 %	+20(Ref)	2670 000 000	0.0	0.000 000	0.000
	100 %	-30	2670 000 000	0.2	0.000 000	0.000
	100 %	-20	2669 999 999	-1.1	0.000 000	0.000
	100 %	-10	2669 999 996	-4.0	0.000 000	-0.001
	100 %	0	2669 999 998	-1.5	0.000 000	-0.001
	100 %	+10	2669 999 998	-1.3	0.000 000	-0.001
	100 %	+30	2669 999 997	-2.8	0.000 000	-0.001
	100 %	+40	2670 000 000	-0.1	0.000 000	0.000
	100 %	+50	2670 000 001	1.3	0.000 000	0.000
	Batt. Endpoint	+20	2670 000 001	1.4	0.000 000	0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.900 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 019 999	0.0	0.000 000	0.000
	100 %	-30	2521 019 997	-1.8	0.000 000	-0.001
	100 %	-20	2521 019 996	-3.2	0.000 000	-0.001
	100 %	-10	2521 019 997	-1.4	0.000 000	-0.001
	100 %	0	2521 019 997	-1.6	0.000 000	-0.001
	100 %	+10	2521 019 998	-0.9	0.000 000	0.000
	100 %	+30	2521 019 998	-0.8	0.000 000	0.000
	100 %	+40	2521 019 997	-1.8	0.000 000	-0.001
	100 %	+50	2521 019 996	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	2521 019 996	-3.2	0.000 000	-0.001
2664.990	100 %	+20(Ref)	2664 990 000	0.0	0.000 000	0.000
	100 %	-30	2664 990 001	0.8	0.000 000	0.000
	100 %	-20	2664 990 000	0.6	0.000 000	0.000
	100 %	-10	2664 989 999	-1.2	0.000 000	0.000
	100 %	0	2664 989 997	-2.6	0.000 000	-0.001
	100 %	+10	2664 989 999	-0.3	0.000 000	0.000
	100 %	+30	2664 989 998	-1.8	0.000 000	-0.001
	100 %	+40	2664 989 998	-1.6	0.000 000	-0.001
	100 %	+50	2664 990 000	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	2664 989 998	-1.5	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.900 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 999 997	0.0	0.000 000	0.000
	100 %	-30	2525 999 993	-4.8	0.000 000	-0.002
	100 %	-20	2525 999 994	-3.0	0.000 000	-0.001
	100 %	-10	2525 999 993	-4.2	0.000 000	-0.002
	100 %	0	2525 999 994	-3.7	0.000 000	-0.001
	100 %	+10	2525 999 994	-3.2	0.000 000	-0.001
	100 %	+30	2525 999 996	-1.4	0.000 000	-0.001
	100 %	+40	2525 999 995	-2.2	0.000 000	-0.001
	100 %	+50	2525 999 996	-1.5	0.000 000	-0.001
	Batt. Endpoint	+20	2525 999 996	-1.8	0.000 000	-0.001
2659.980	100 %	+20(Ref)	2659 979 998	0.0	0.000 000	0.000
	100 %	-30	2659 979 996	-2.0	0.000 000	-0.001
	100 %	-20	2659 979 995	-3.0	0.000 000	-0.001
	100 %	-10	2659 979 995	-3.0	0.000 000	-0.001
	100 %	0	2659 979 996	-2.2	0.000 000	-0.001
	100 %	+10	2659 979 996	-2.9	0.000 000	-0.001
	100 %	+30	2659 979 997	-1.5	0.000 000	-0.001
	100 %	+40	2659 979 997	-1.6	0.000 000	-0.001
	100 %	+50	2659 979 997	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	2659 979 995	-3.0	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.900 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 009 997	0.0	0.000 000	0.000
	100 %	-30	2531 009 994	-3.1	0.000 000	-0.001
	100 %	-20	2531 009 993	-4.1	0.000 000	-0.002
	100 %	-10	2531 009 993	-3.4	0.000 000	-0.001
	100 %	0	2531 009 995	-1.9	0.000 000	-0.001
	100 %	+10	2531 009 994	-3.1	0.000 000	-0.001
	100 %	+30	2531 009 996	-0.7	0.000 000	0.000
	100 %	+40	2531 009 994	-2.8	0.000 000	-0.001
	100 %	+50	2531 009 995	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	2531 009 994	-2.5	0.000 000	-0.001
2655.000	100 %	+20(Ref)	2654 999 998	0.0	0.000 000	0.000
	100 %	-30	2654 999 996	-1.7	0.000 000	-0.001
	100 %	-20	2654 999 998	-0.4	0.000 000	0.000
	100 %	-10	2654 999 997	-1.0	0.000 000	0.000
	100 %	0	2654 999 995	-2.9	0.000 000	-0.001
	100 %	+10	2654 999 995	-2.9	0.000 000	-0.001
	100 %	+30	2654 999 996	-1.4	0.000 000	-0.001
	100 %	+40	2654 999 995	-2.7	0.000 000	-0.001
	100 %	+50	2654 999 998	0.4	0.000 000	0.000
	Batt. Endpoint	+20	2654 999 998	-0.4	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.900 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 019 999	0.0	0.000 000	0.000
	100 %	-30	2536 019 997	-1.6	0.000 000	-0.001
	100 %	-20	2536 019 999	0.2	0.000 000	0.000
	100 %	-10	2536 019 999	0.4	0.000 000	0.000
	100 %	0	2536 019 999	0.0	0.000 000	0.000
	100 %	+10	2536 019 997	-1.4	0.000 000	-0.001
	100 %	+30	2536 019 998	-0.9	0.000 000	0.000
	100 %	+40	2536 019 997	-2.1	0.000 000	-0.001
	100 %	+50	2536 019 998	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	2536 019 998	-1.0	0.000 000	0.000
2649.990	100 %	+20(Ref)	2649 990 001	0.0	0.000 000	0.000
	100 %	-30	2649 990 001	-0.5	0.000 000	0.000
	100 %	-20	2649 990 000	-0.7	0.000 000	0.000
	100 %	-10	2649 990 001	-0.2	0.000 000	0.000
	100 %	0	2649 989 999	-1.9	0.000 000	-0.001
	100 %	+10	2649 990 001	0.2	0.000 000	0.000
	100 %	+30	2649 990 001	0.3	0.000 000	0.000
	100 %	+40	2649 990 001	0.3	0.000 000	0.000
	100 %	+50	2649 990 001	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	2649 989 999	-2.1	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

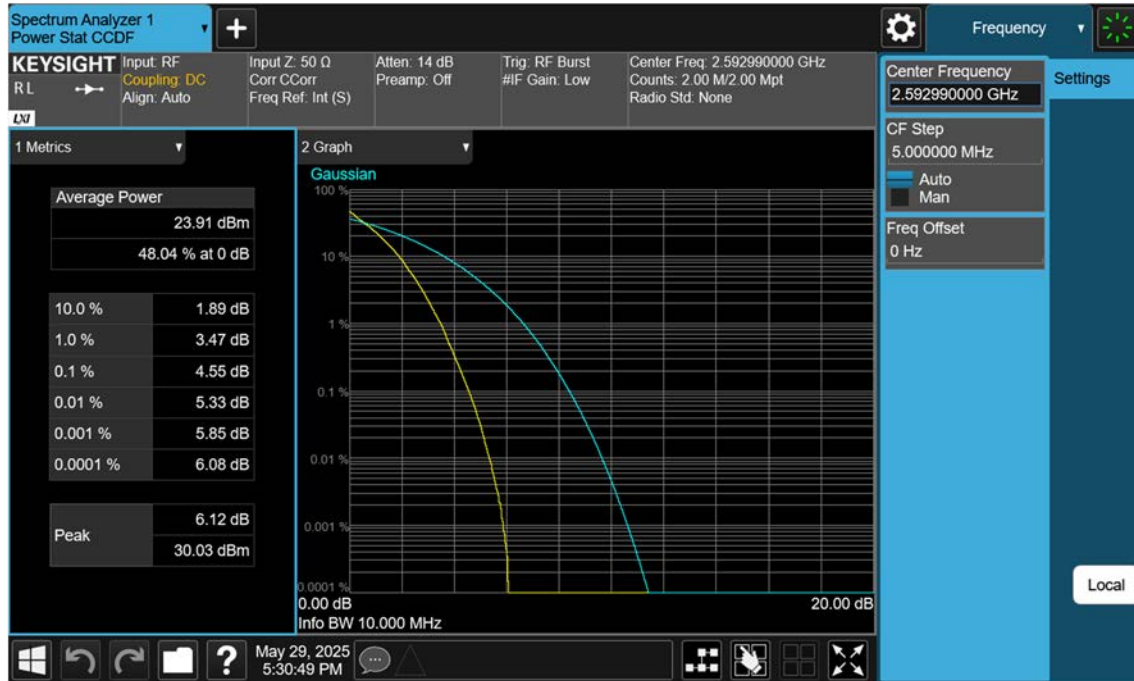
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2541.000	100 %	+20(Ref)	2540 999 998	0.0	0.000 000	0.000
	100 %	-30	2540 999 996	-2.2	0.000 000	-0.001
	100 %	-20	2540 999 996	-1.7	0.000 000	-0.001
	100 %	-10	2540 999 996	-1.6	0.000 000	-0.001
	100 %	0	2540 999 996	-1.6	0.000 000	-0.001
	100 %	+10	2540 999 997	-1.4	0.000 000	-0.001
	100 %	+30	2540 999 996	-1.5	0.000 000	-0.001
	100 %	+40	2540 999 997	-0.6	0.000 000	0.000
	100 %	+50	2540 999 996	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	2540 999 994	-4.2	0.000 000	-0.002
2644.980	100 %	+20(Ref)	2644 980 000	0.0	0.000 000	0.000
	100 %	-30	2644 980 002	1.5	0.000 000	0.001
	100 %	-20	2644 980 000	-0.7	0.000 000	0.000
	100 %	-10	2644 979 999	-1.3	0.000 000	-0.001
	100 %	0	2644 980 001	0.9	0.000 000	0.000
	100 %	+10	2644 980 000	-0.5	0.000 000	0.000
	100 %	+30	2644 979 999	-0.8	0.000 000	0.000
	100 %	+40	2644 980 000	-0.6	0.000 000	0.000
	100 %	+50	2644 980 000	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	2644 979 999	-1.4	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

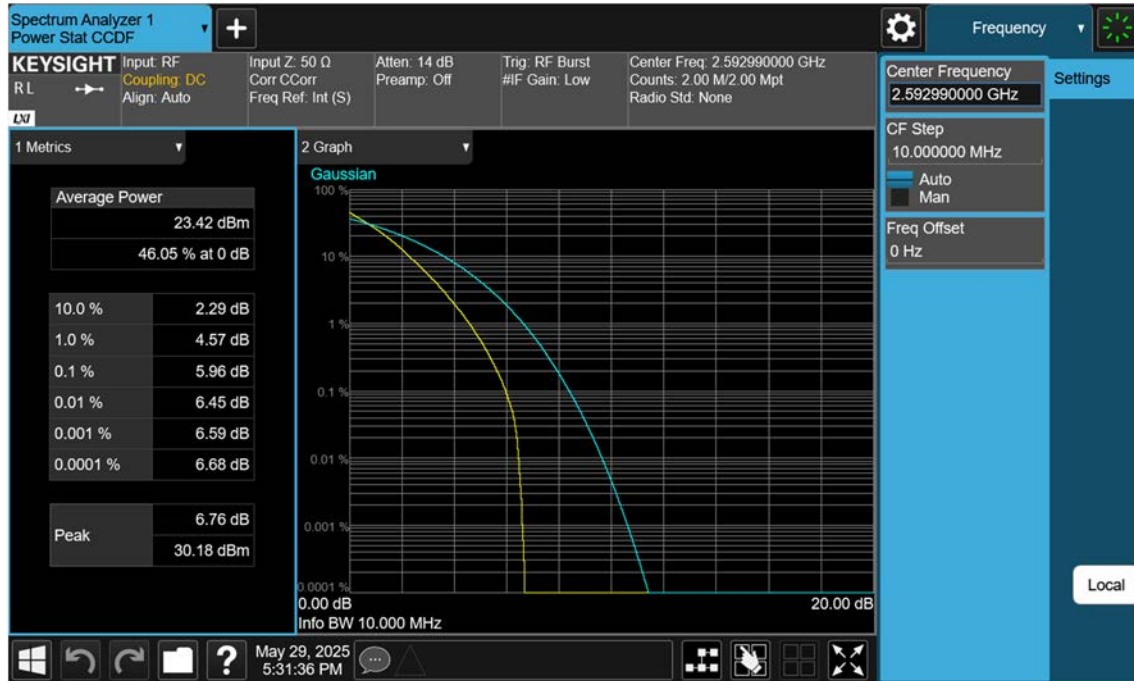
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 010 000	0.0	0.000 000	0.000
	100 %	-30	2546 009 998	-1.9	0.000 000	-0.001
	100 %	-20	2546 009 998	-1.1	0.000 000	0.000
	100 %	-10	2546 009 998	-1.6	0.000 000	-0.001
	100 %	0	2546 009 998	-1.6	0.000 000	-0.001
	100 %	+10	2546 009 997	-2.6	0.000 000	-0.001
	100 %	+30	2546 009 998	-1.8	0.000 000	-0.001
	100 %	+40	2546 009 999	-0.6	0.000 000	0.000
	100 %	+50	2546 009 998	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	2546 009 999	-0.5	0.000 000	0.000
2640.000	100 %	+20(Ref)	2639 999 998	0.0	0.000 000	0.000
	100 %	-30	2639 999 996	-1.4	0.000 000	-0.001
	100 %	-20	2639 999 997	-1.0	0.000 000	0.000
	100 %	-10	2639 999 998	0.0	0.000 000	0.000
	100 %	0	2639 999 997	-0.4	0.000 000	0.000
	100 %	+10	2639 999 996	-1.4	0.000 000	-0.001
	100 %	+30	2639 999 997	-0.3	0.000 000	0.000
	100 %	+40	2639 999 997	-1.1	0.000 000	0.000
	100 %	+50	2639 999 998	0.2	0.000 000	0.000
	Batt. Endpoint	+20	2639 999 998	0.4	0.000 000	0.000

10. TEST PLOTS(Main 2 ANT)

NR41_10 M_PAR_Mid_BPSK_FullRB



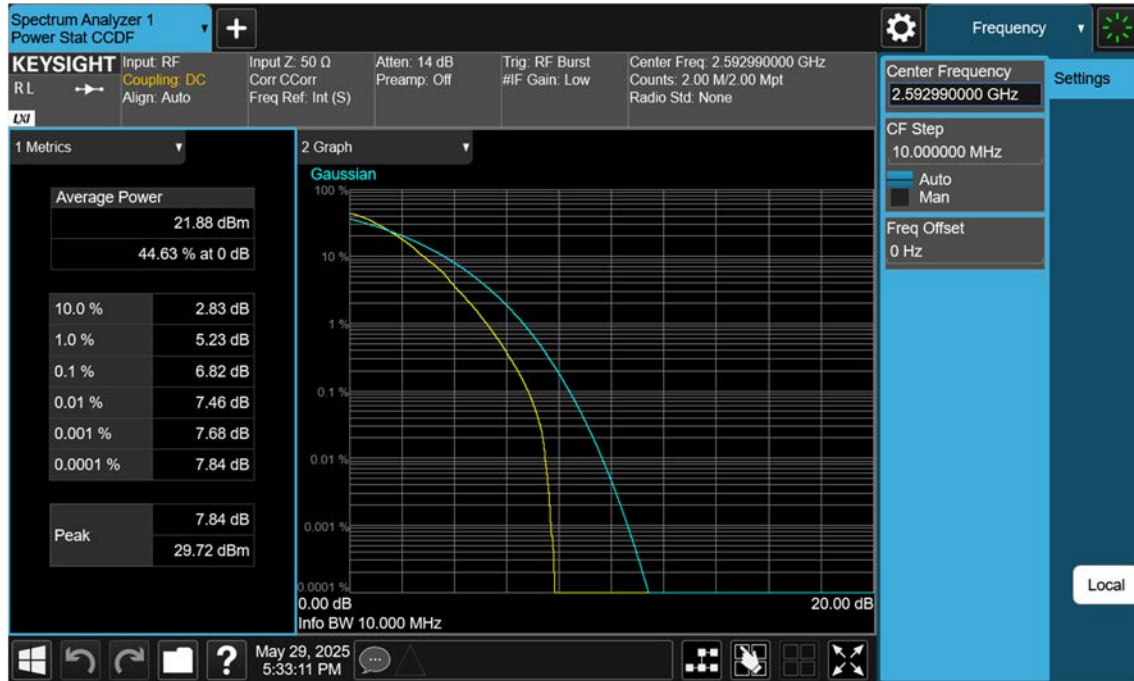
NR41_10 M_PAR_Mid_QPSK_FullRB



NR41_10 M_PAR_Mid_16QAM_FullRB



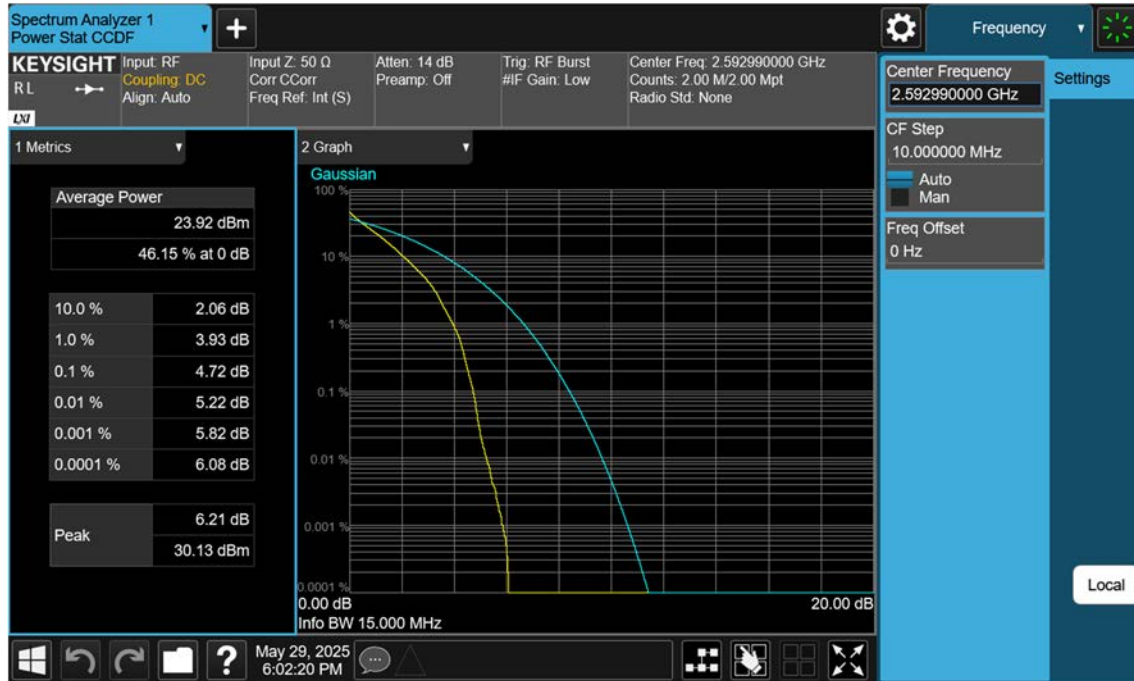
NR41_10 M_PAR_Mid_64QAM_FullRB



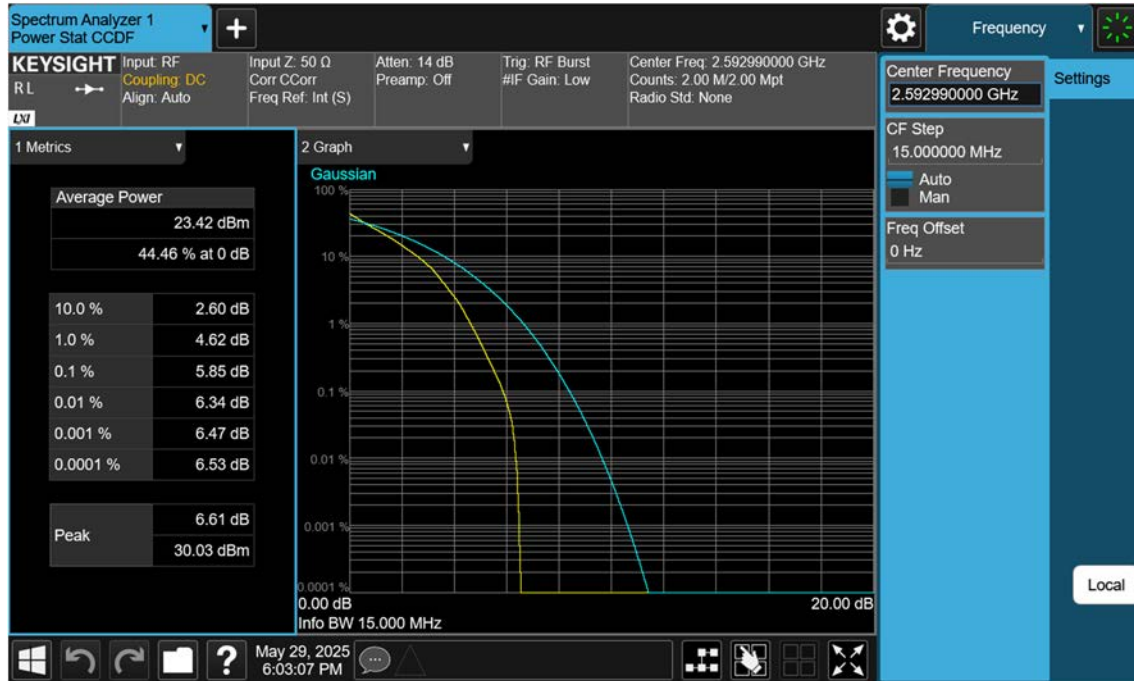
NR41_10 M_PAR_Mid_256QAM_FullRB



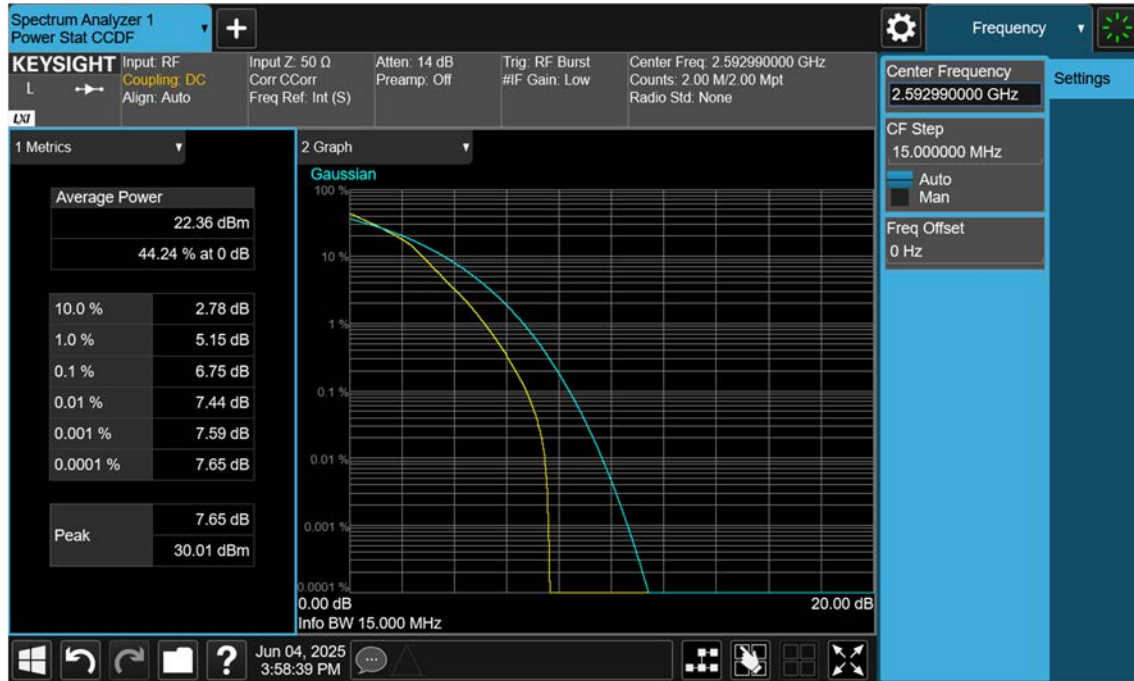
NR41_15 M_PAR_Mid_BPSK_FullRB



NR41_15 M_PAR_Mid_QPSK_FullRB



NR41_15 M_PAR_Mid_16QAM_FullRB



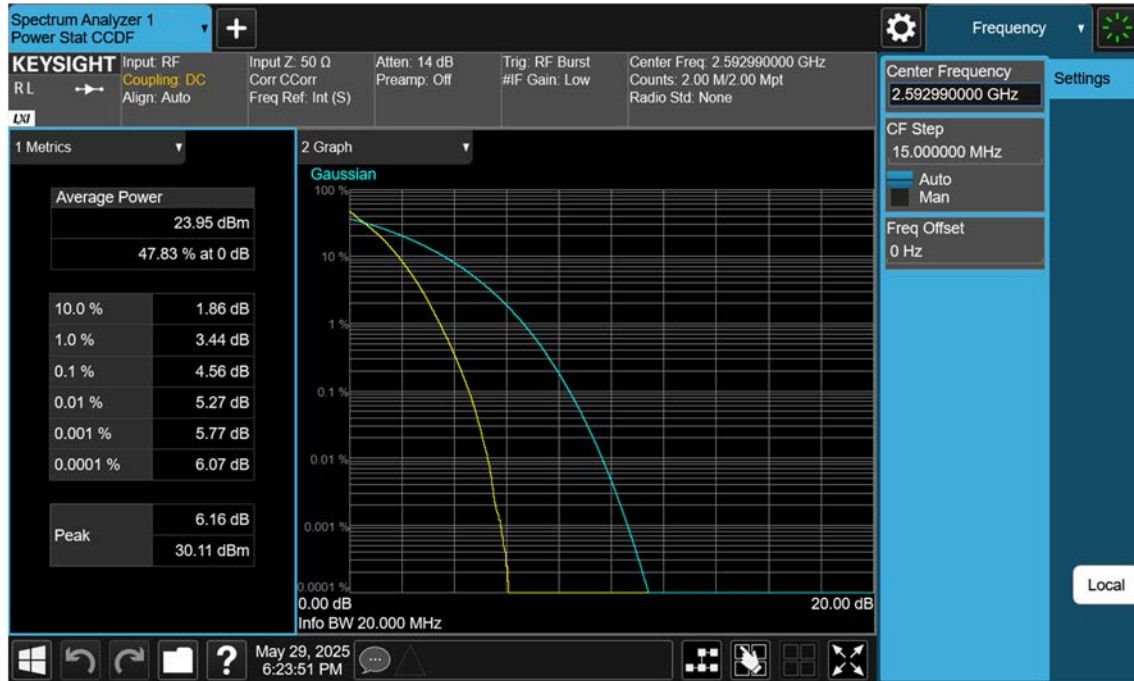
NR41_15 M_PAR_Mid_64QAM_FullRB



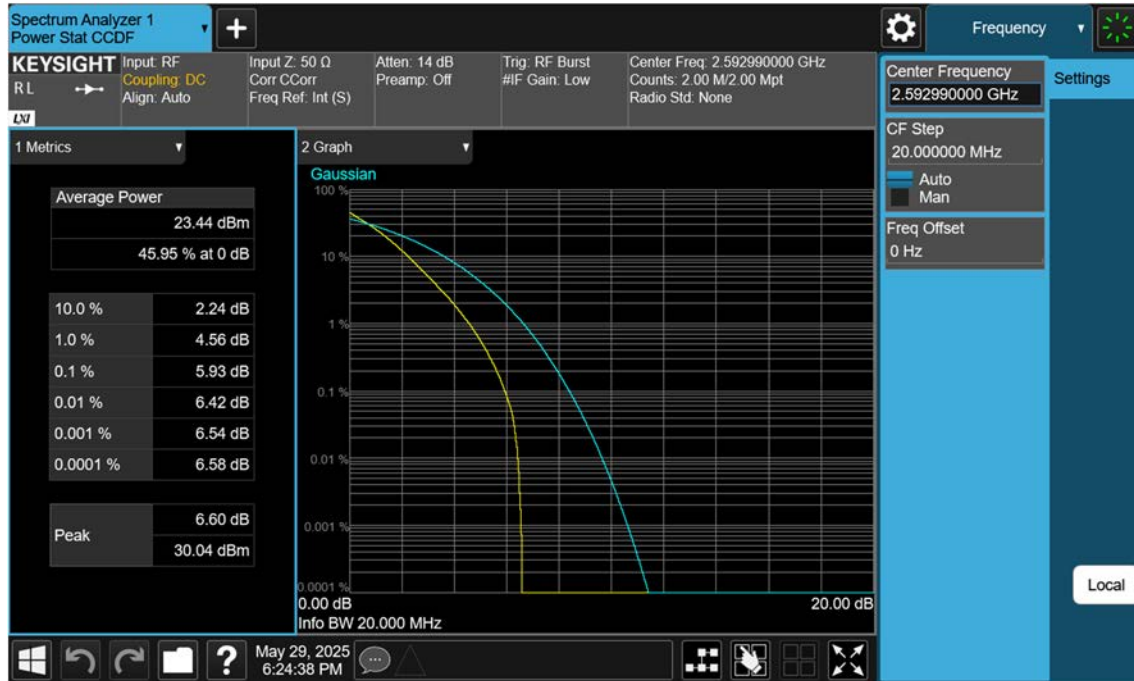
NR41_15 M_PAR_Mid_256QAM_FullRB



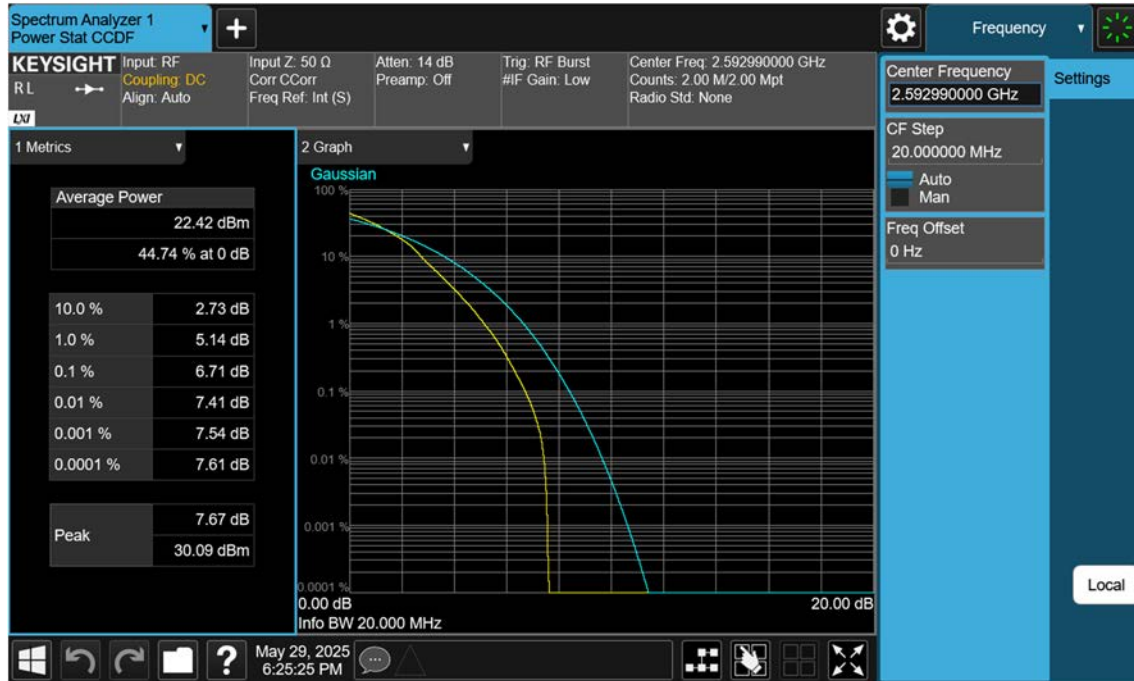
NR41_20 M_PAR_Mid_BPSK_FullRB



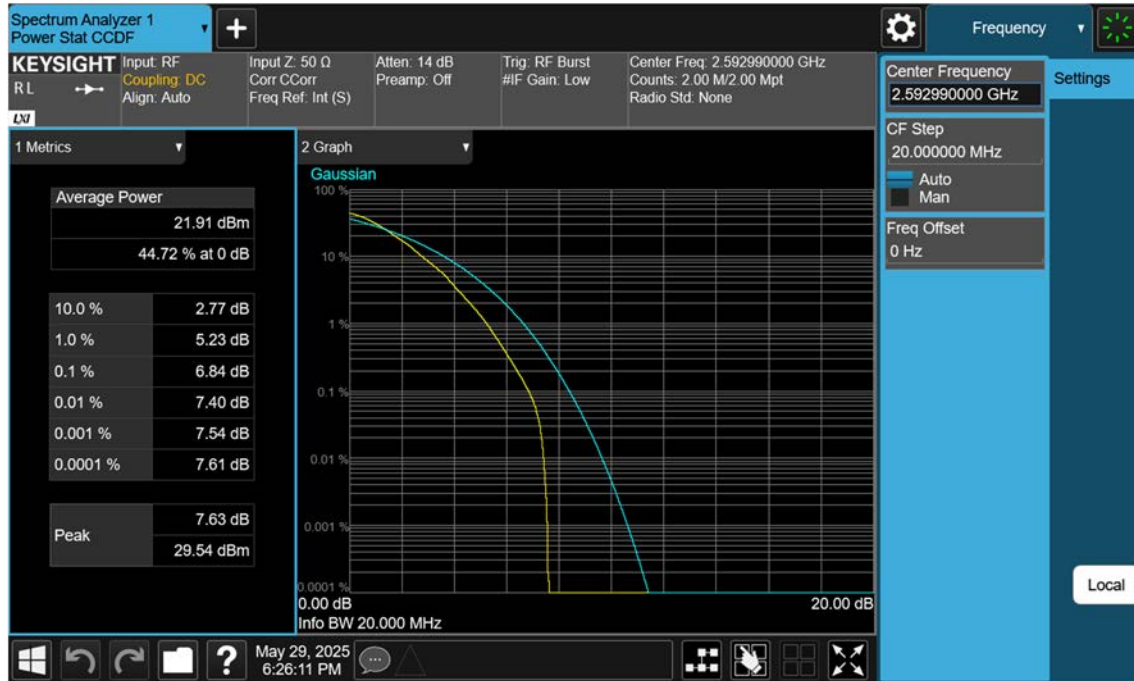
NR41_20 M_PAR_Mid_QPSK_FullRB



NR41_20 M_PAR_Mid_16QAM_FullRB



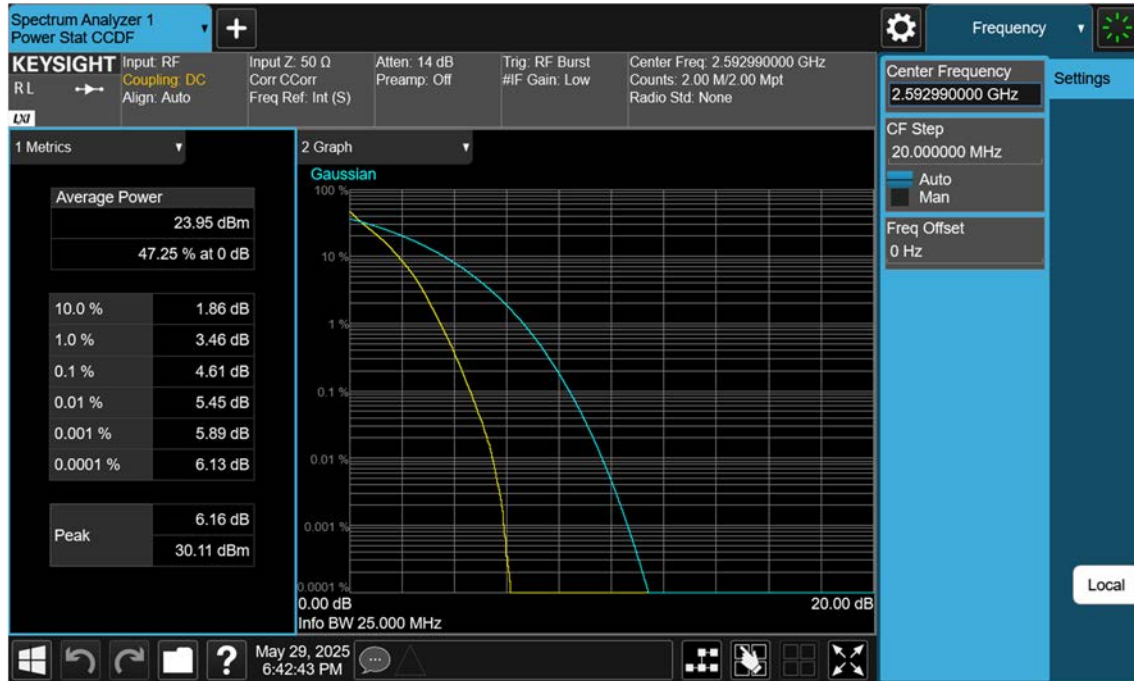
NR41_20 M_PAR_Mid_64QAM_FullRB



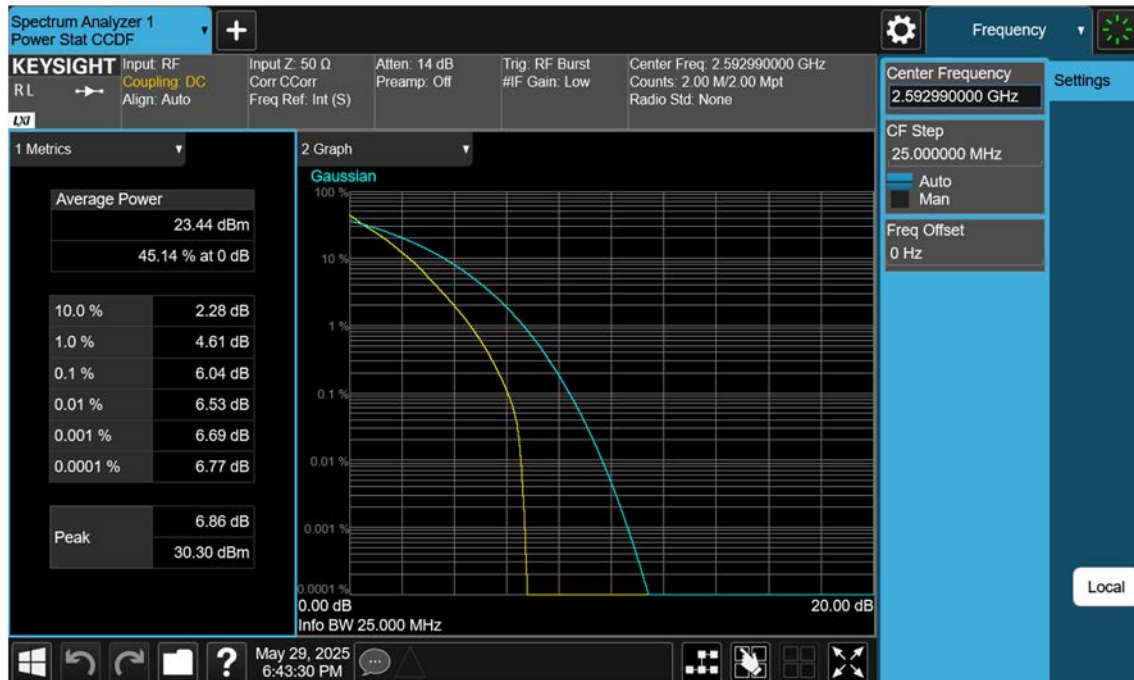
NR41_20 M_PAR_Mid_256QAM_FullRB



NR41_25 M_PAR_Mid_BPSK_FullRB



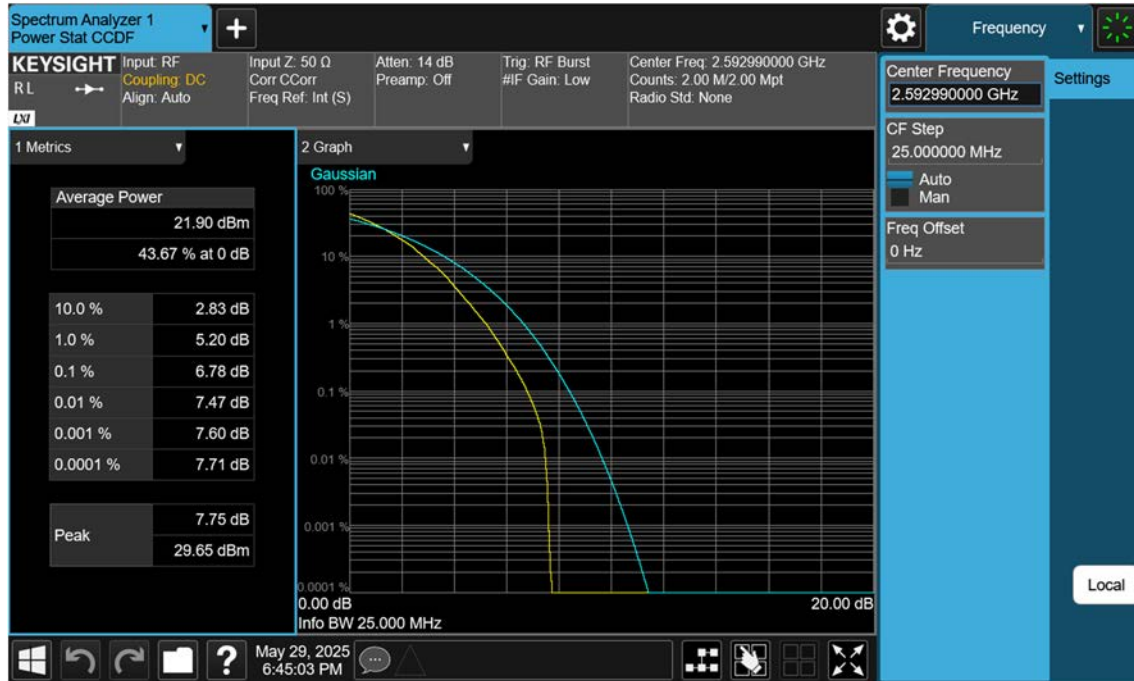
NR41_25 M_PAR_Mid_QPSK_FullRB



NR41_25 M_PAR_Mid_16QAM_FullRB



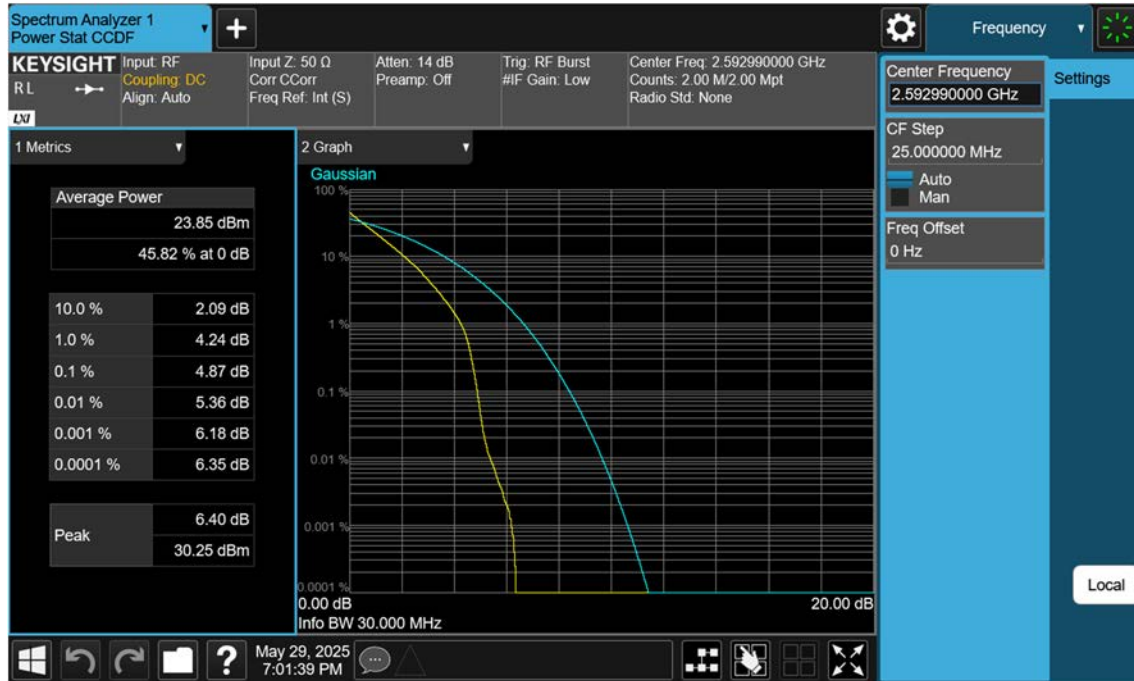
NR41_25 M_PAR_Mid_64QAM_FullRB



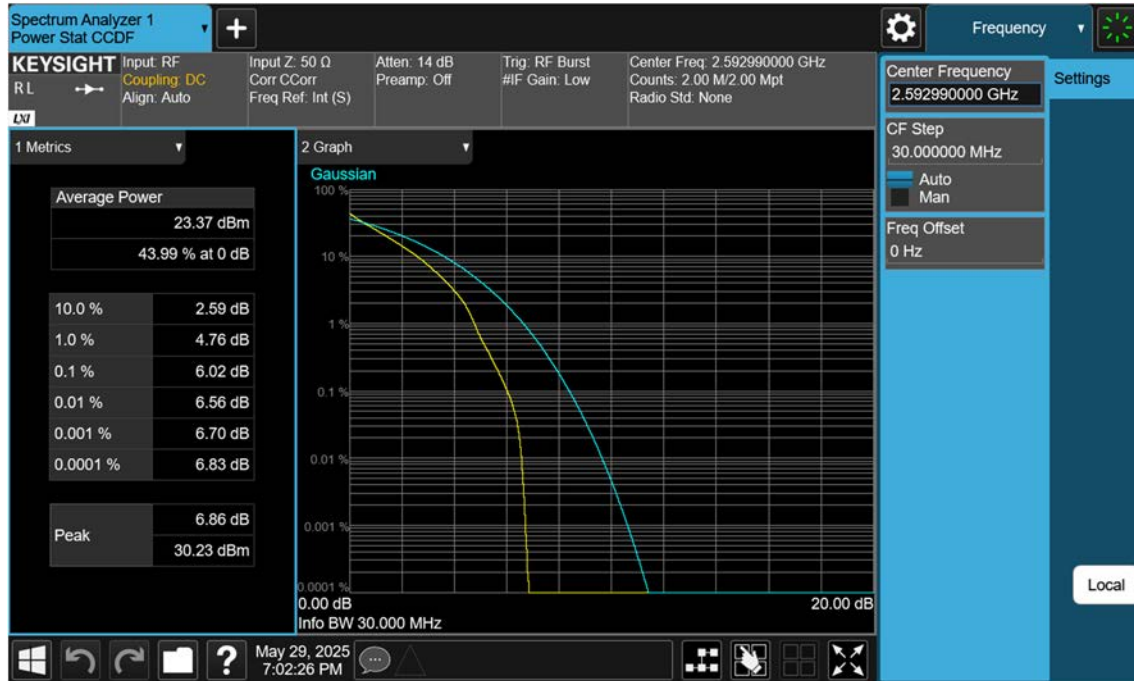
NR41_25 M_PAR_Mid_256QAM_FullRB



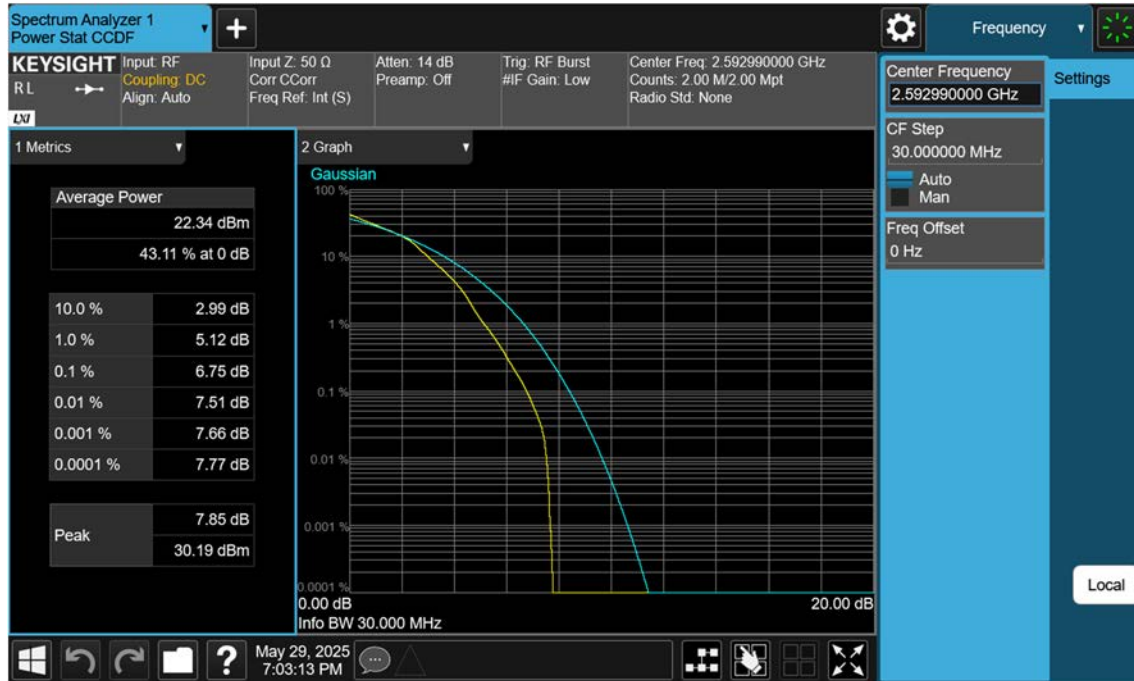
NR41_30 M_PAR_Mid_BPSK_FullRB



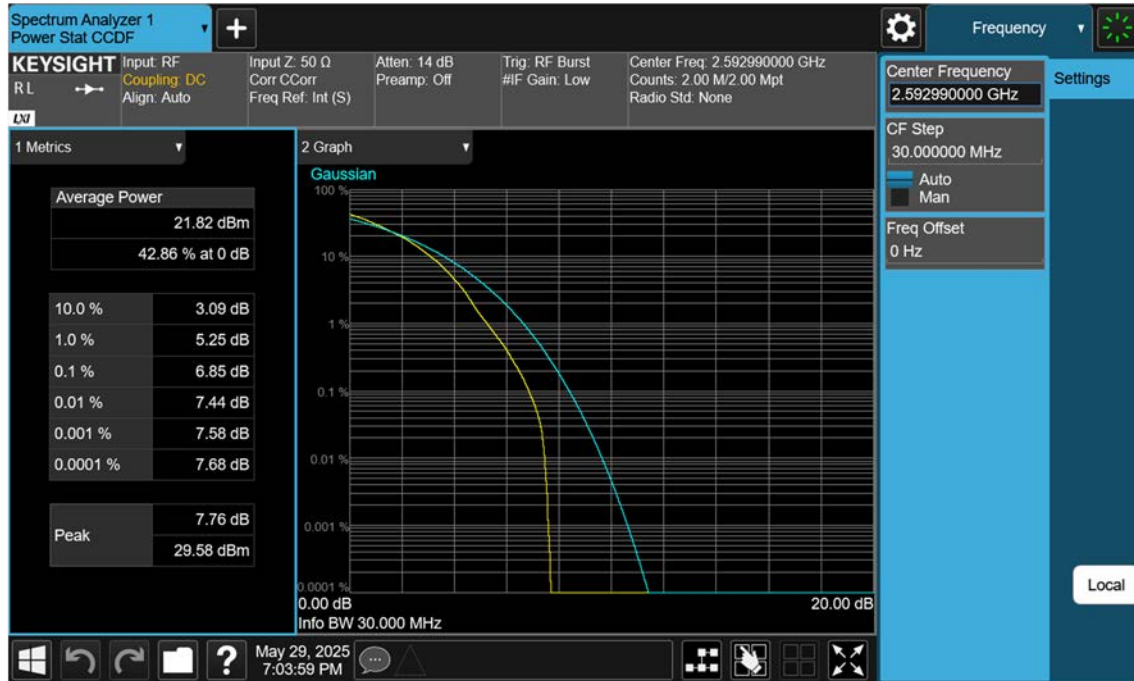
NR41_30 M_PAR_Mid_QPSK_FullRB



NR41_30 M_PAR_Mid_16QAM_FullRB



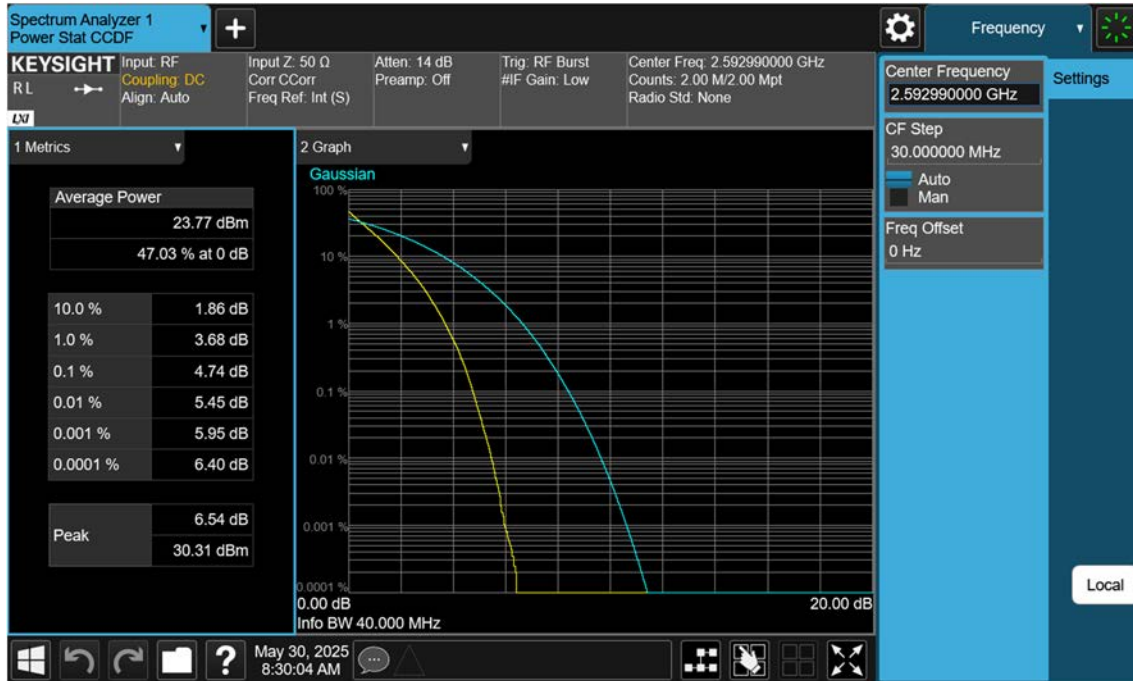
NR41_30 M_PAR_Mid_64QAM_FullRB



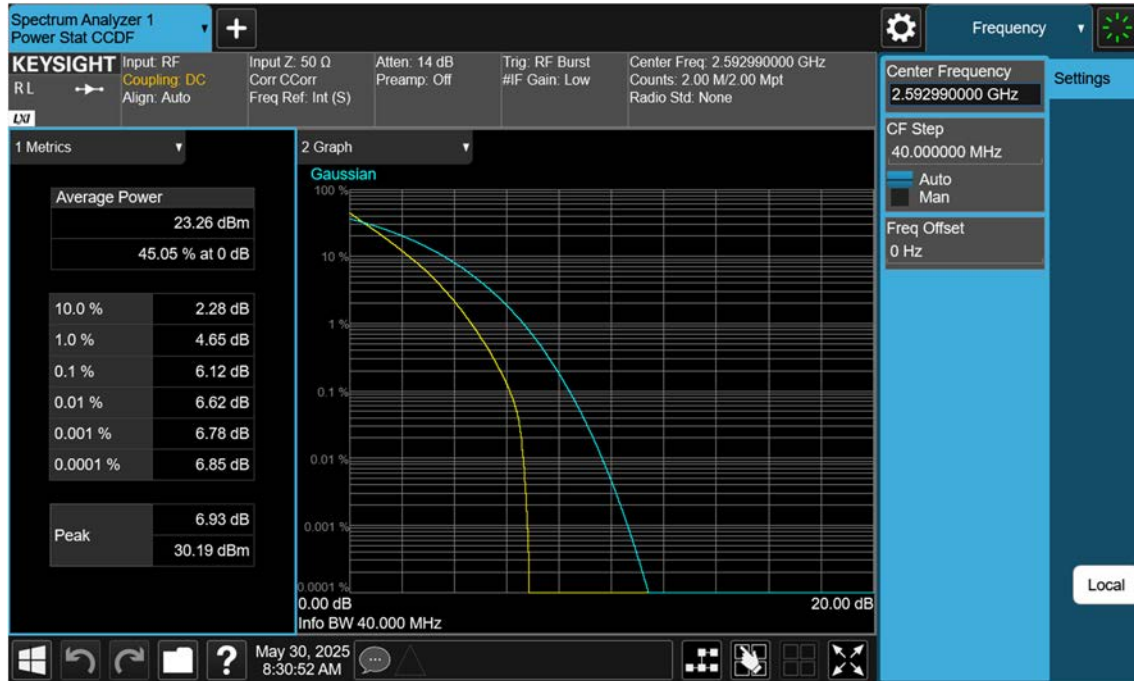
NR41_30 M_PAR_Mid_256QAM_FullRB



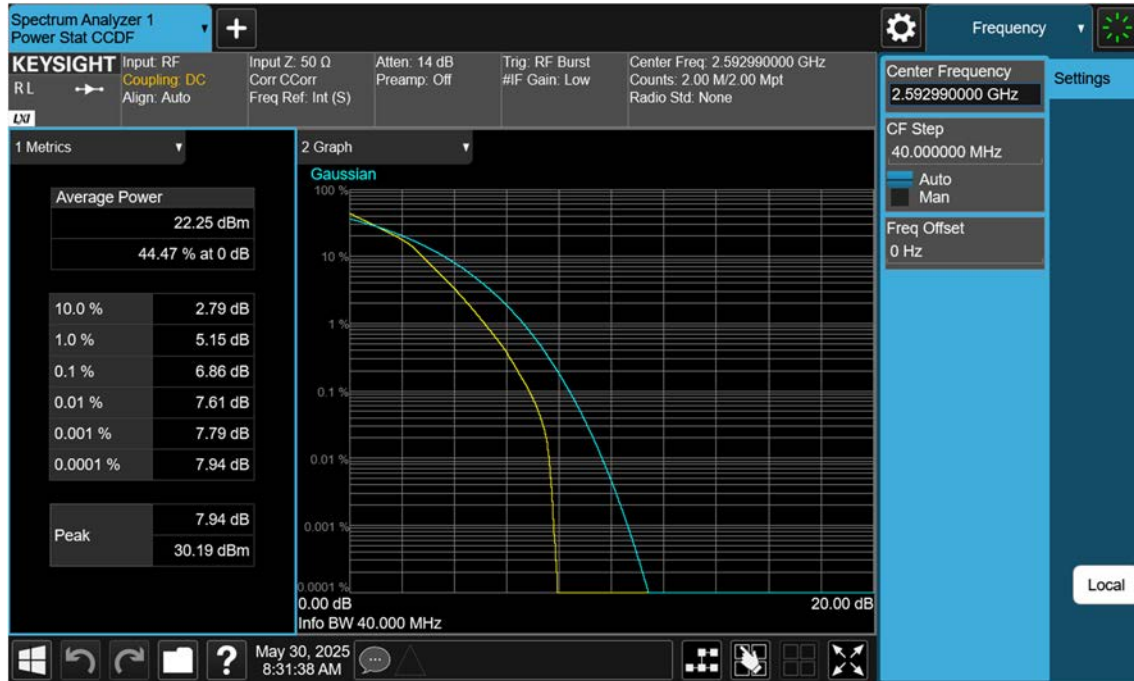
NR41_40 M_PAR_Mid_BPSK_FullRB



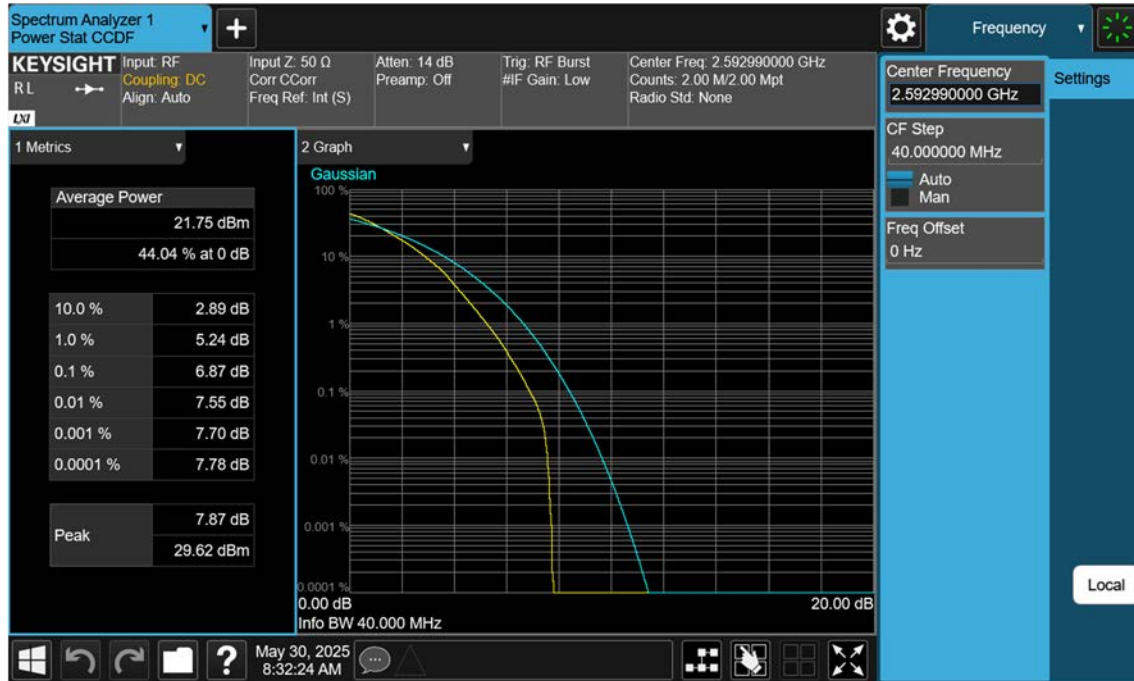
NR41_40 M_PAR_Mid_QPSK_FullRB



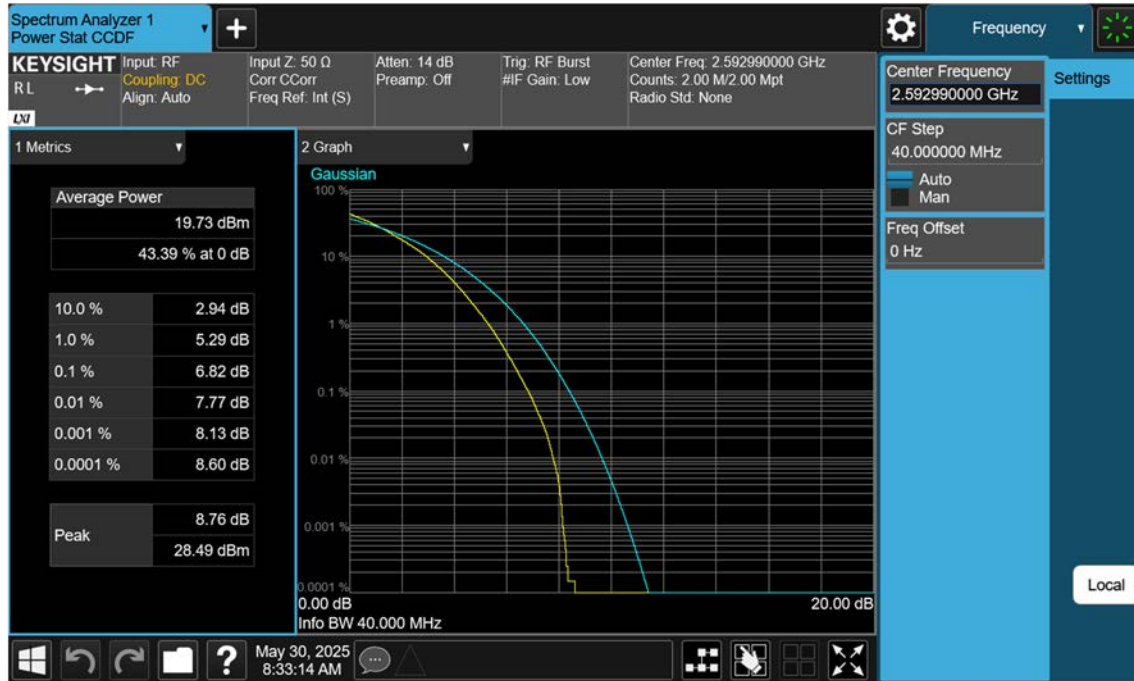
NR41_40 M_PAR_Mid_16QAM_FullRB



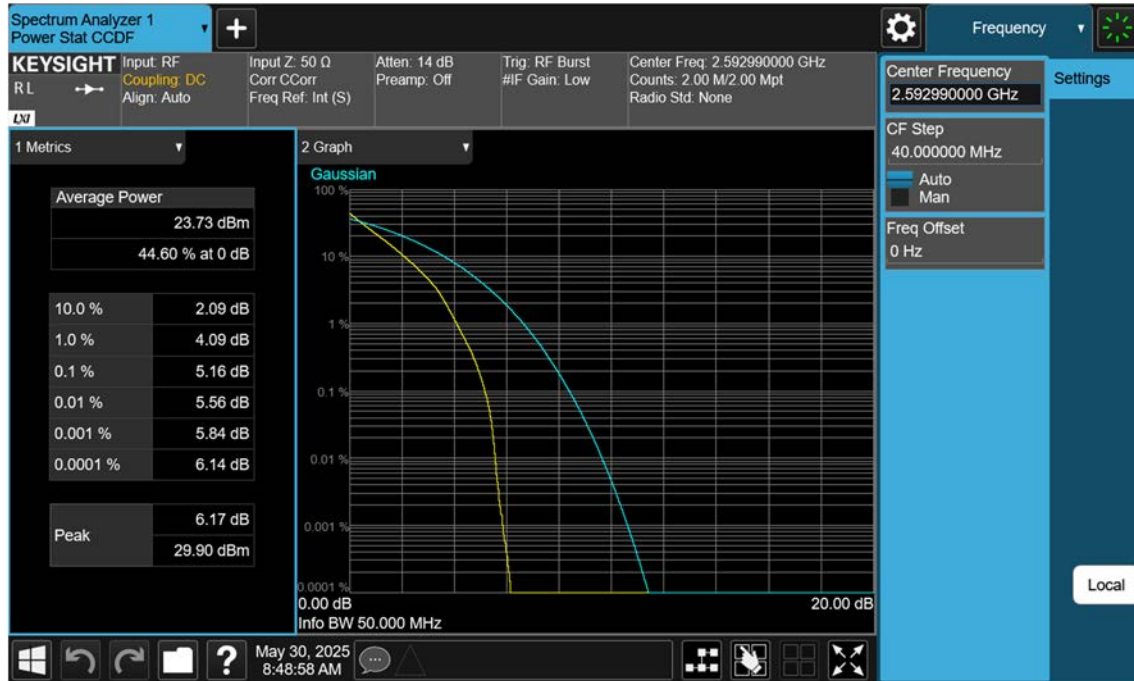
NR41_40 M_PAR_Mid_64QAM_FullRB



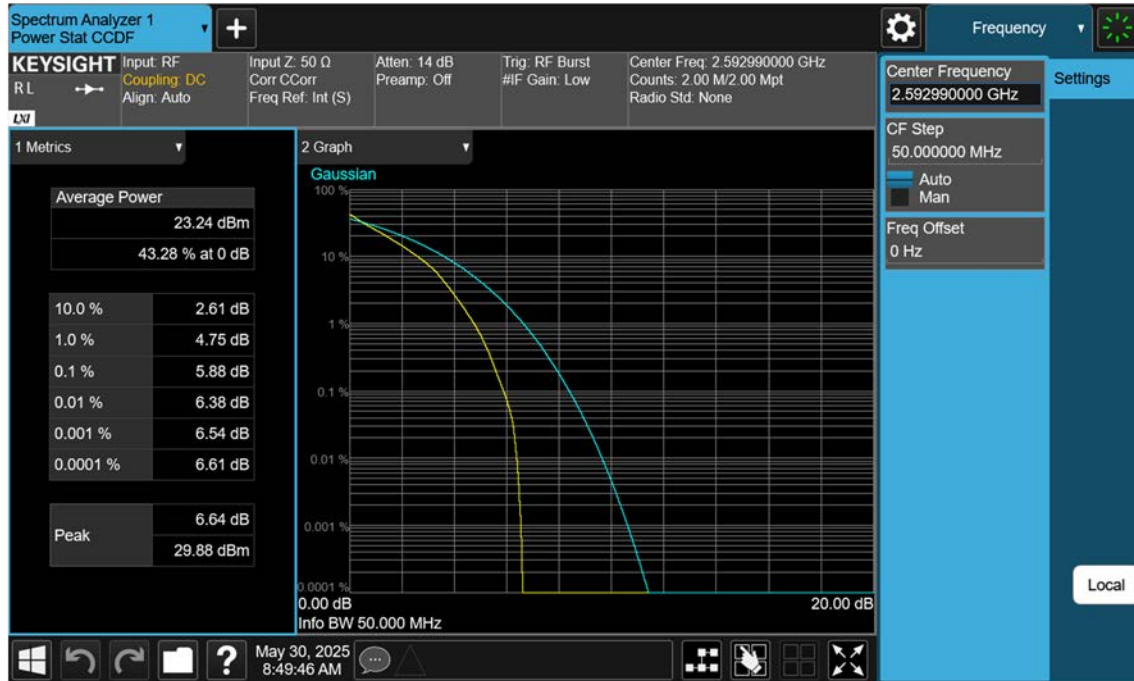
NR41_40 M_PAR_Mid_256QAM_FullRB



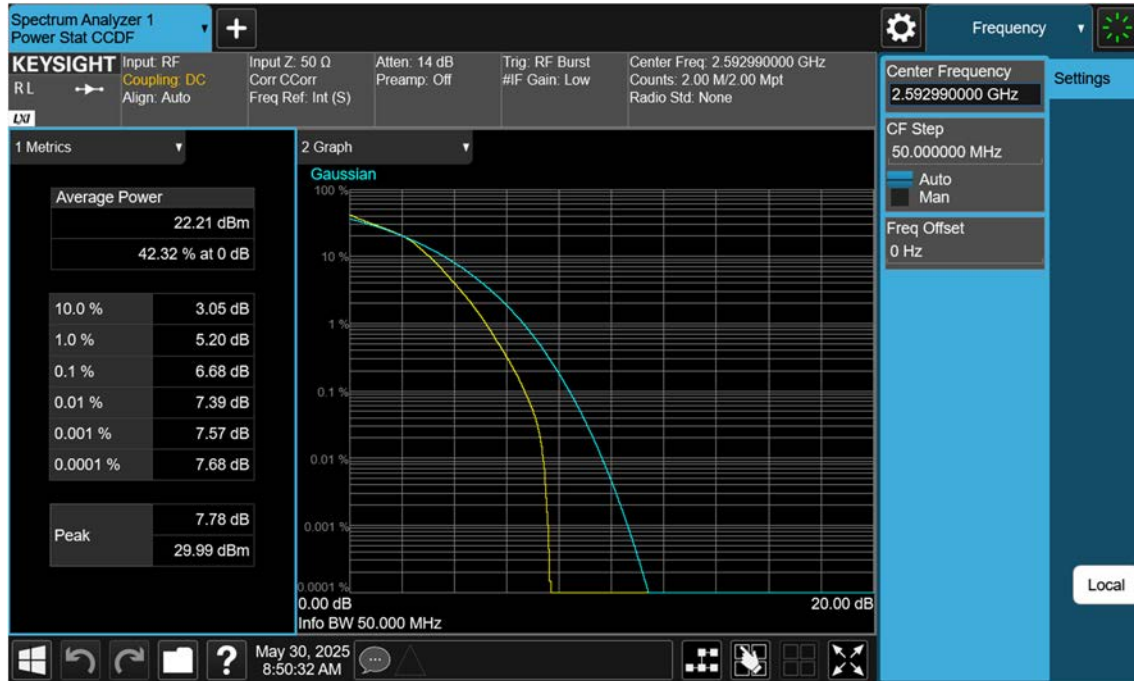
NR41_50 M_PAR_Mid_BPSK_FullRB



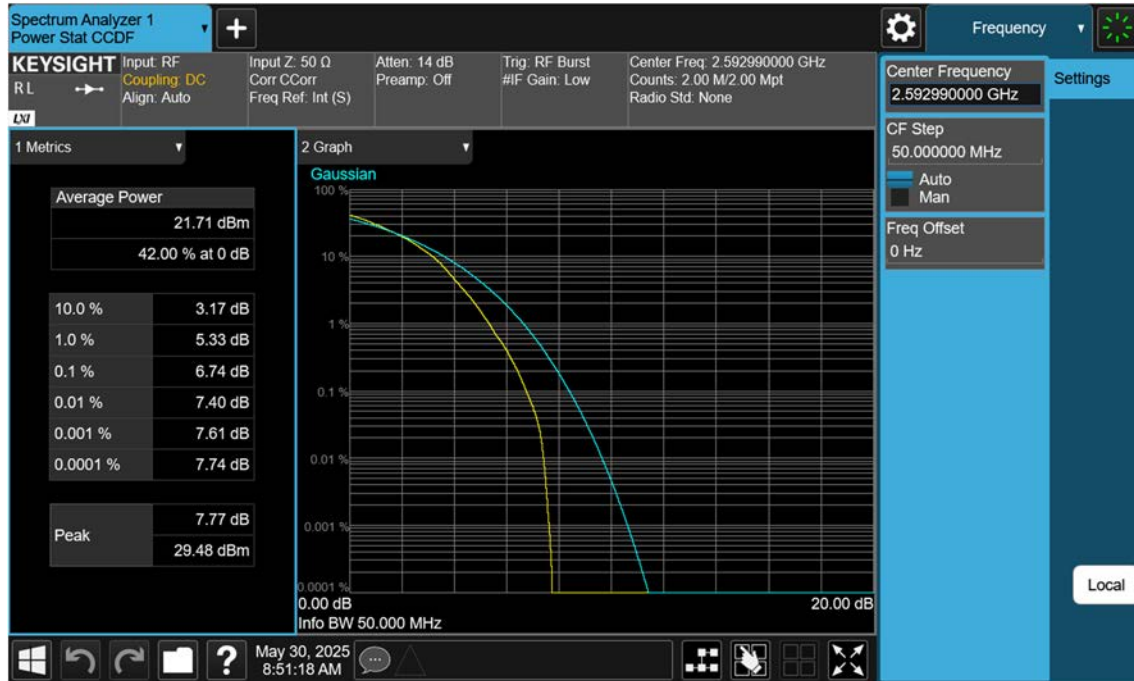
NR41_50 M_PAR_Mid_QPSK_FullRB



NR41_50 M_PAR_Mid_16QAM_FullRB



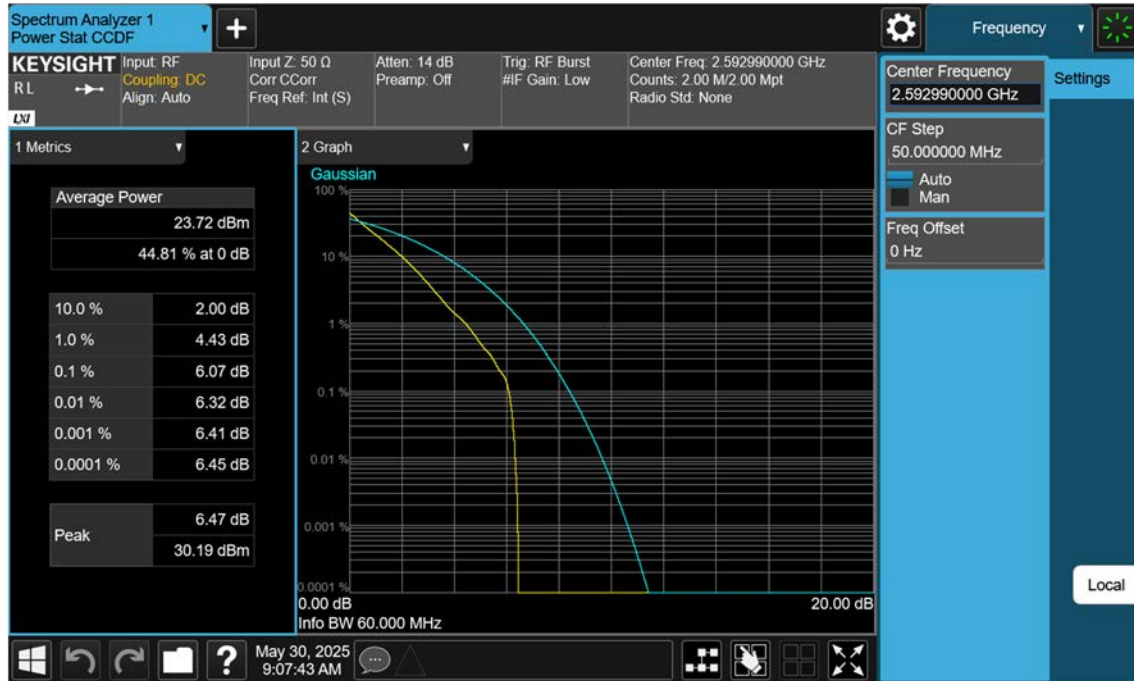
NR41_50 M_PAR_Mid_64QAM_FullRB



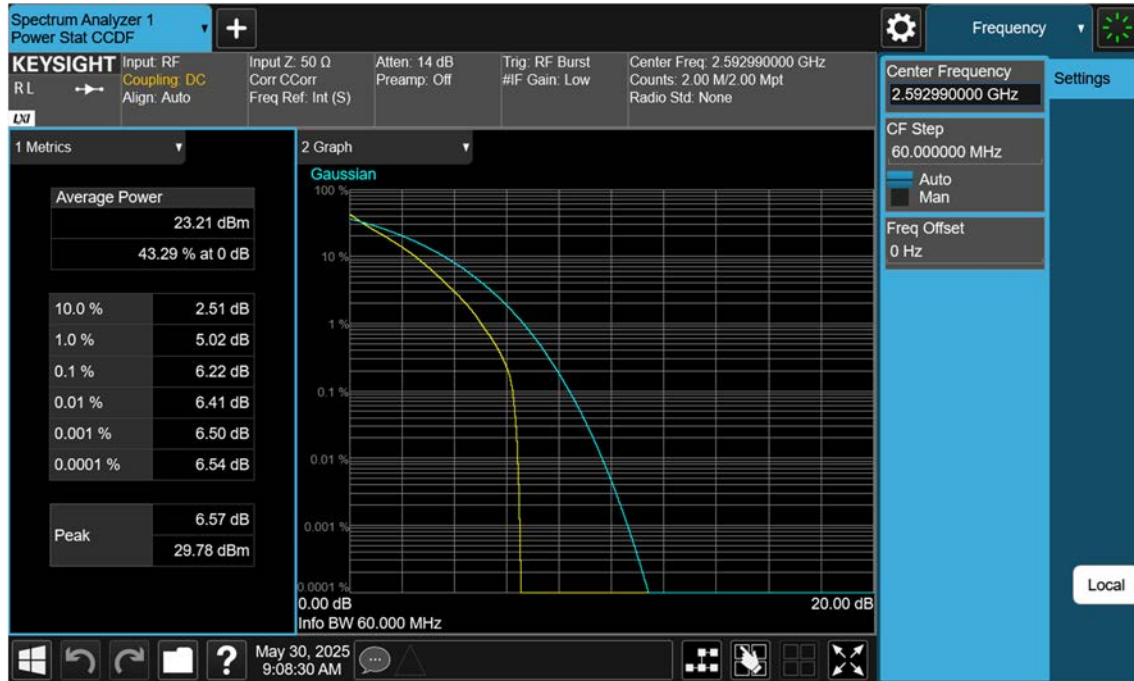
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NR41_60 M_PAR_Mid_BPSK_FullRB



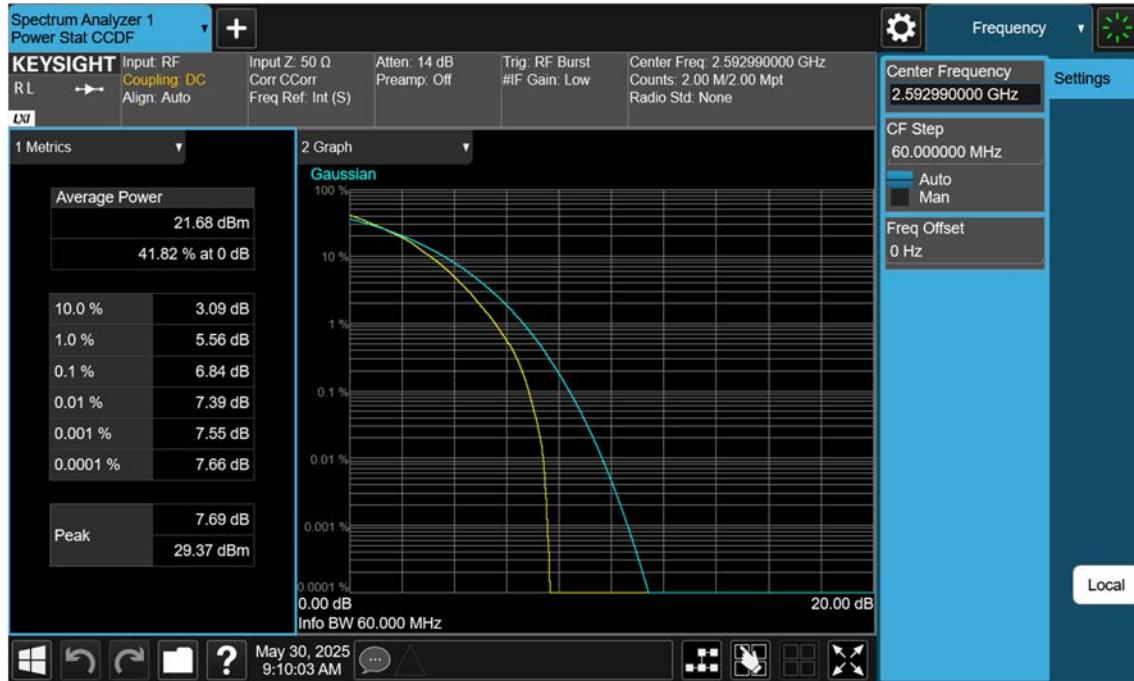
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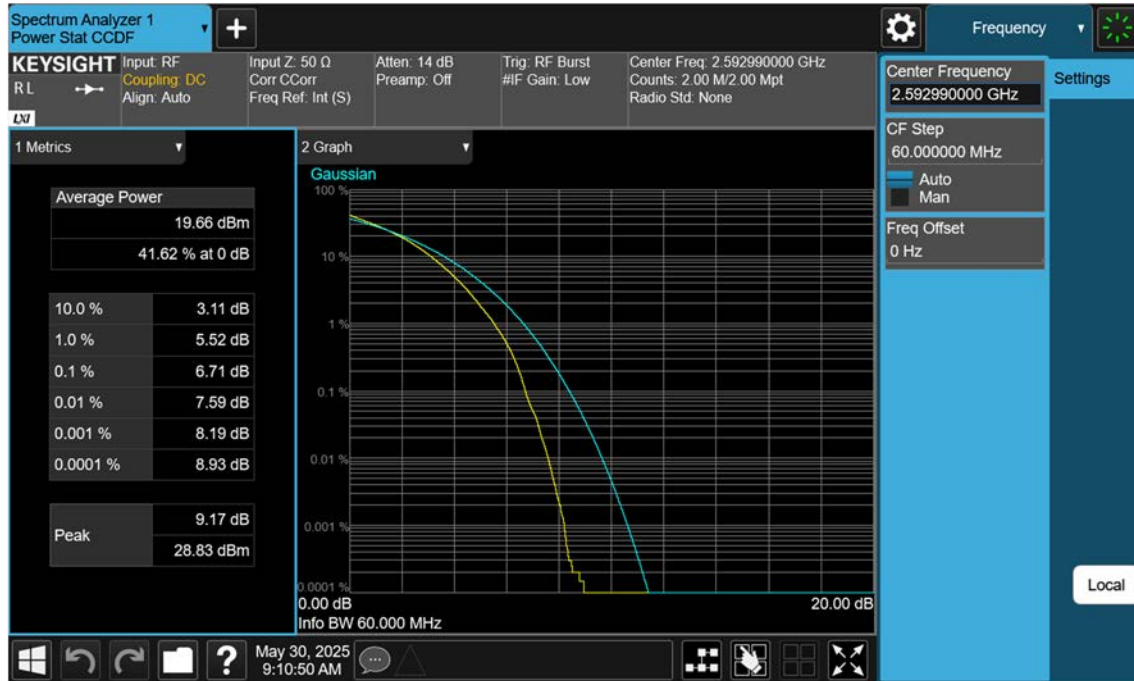
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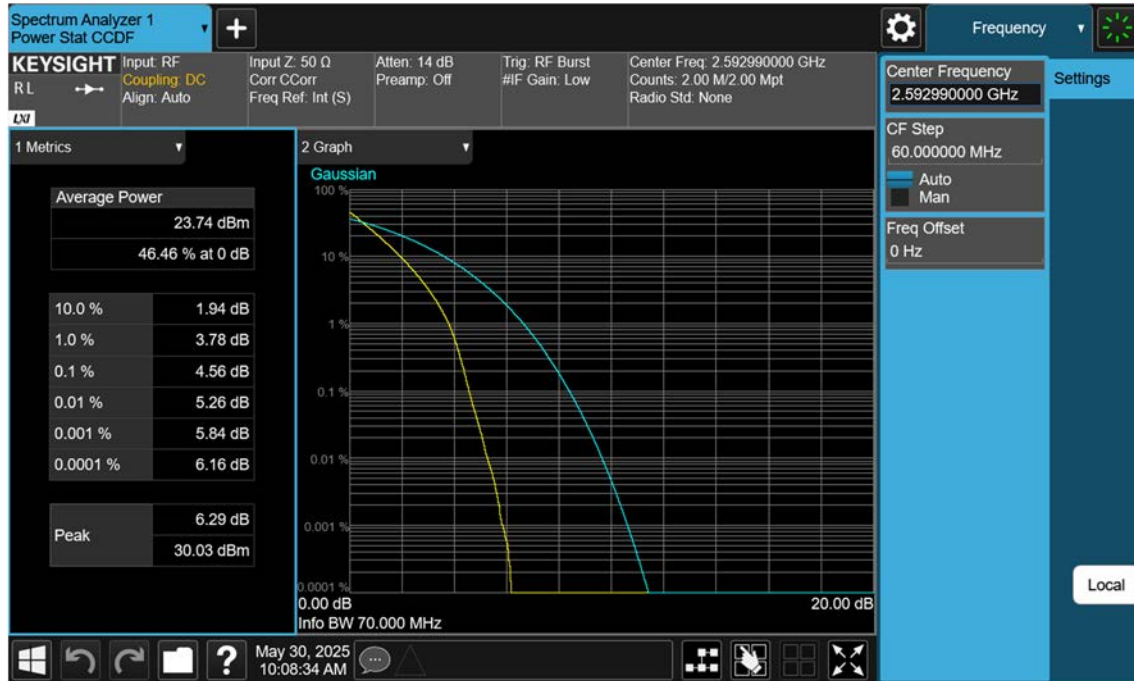
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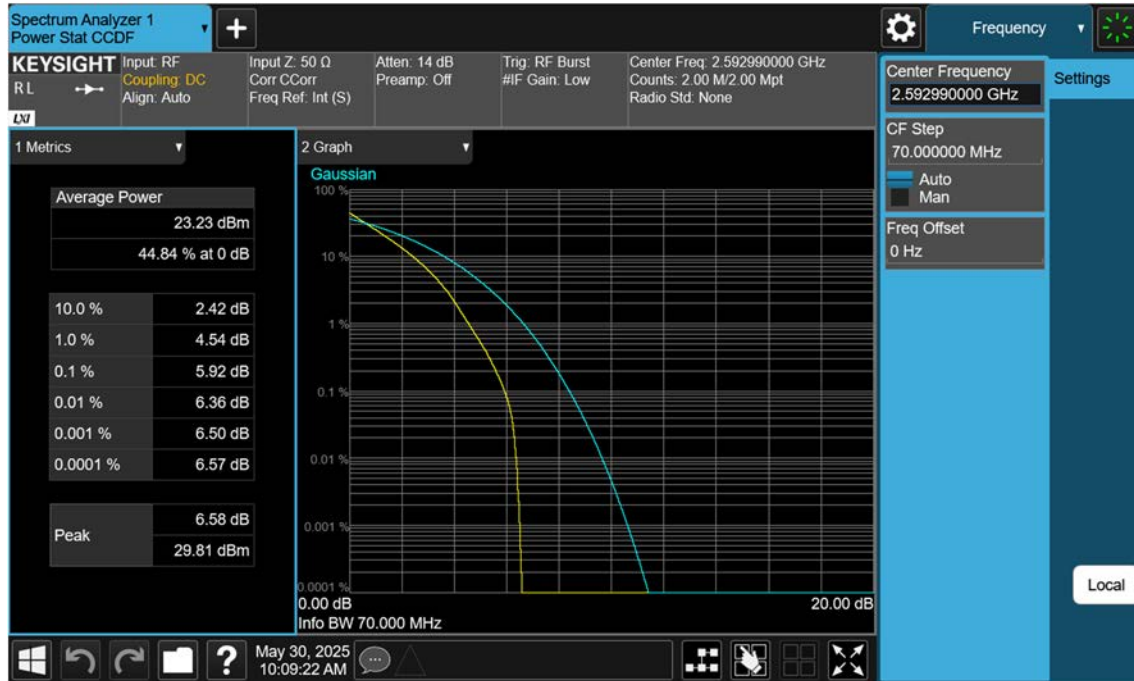
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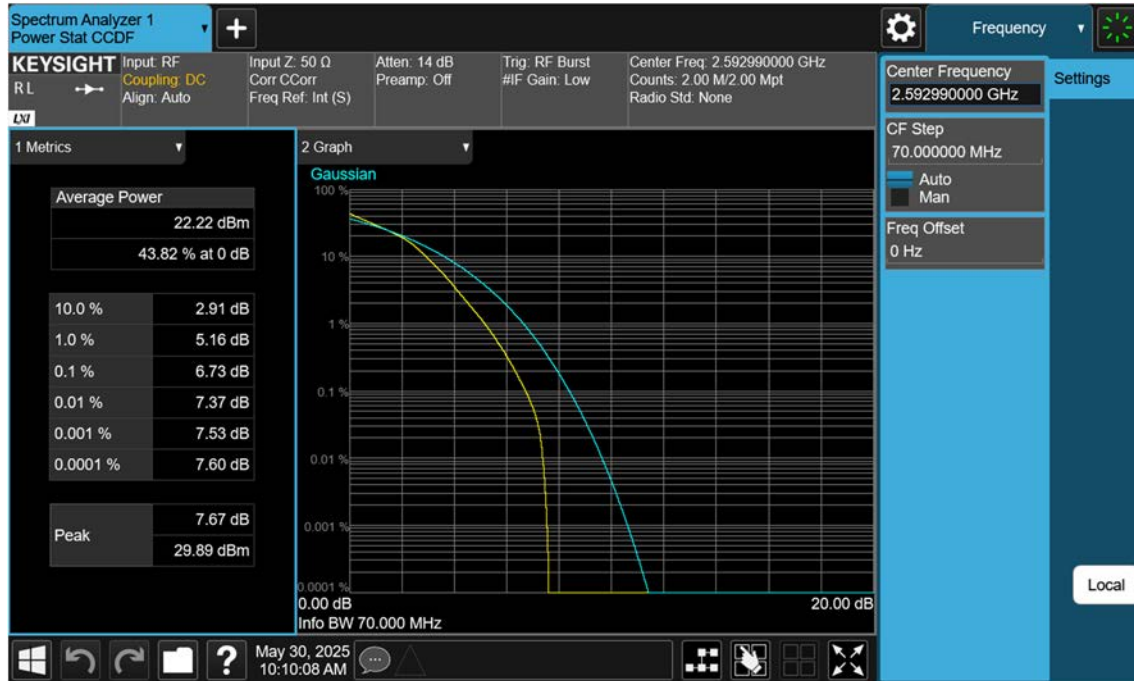
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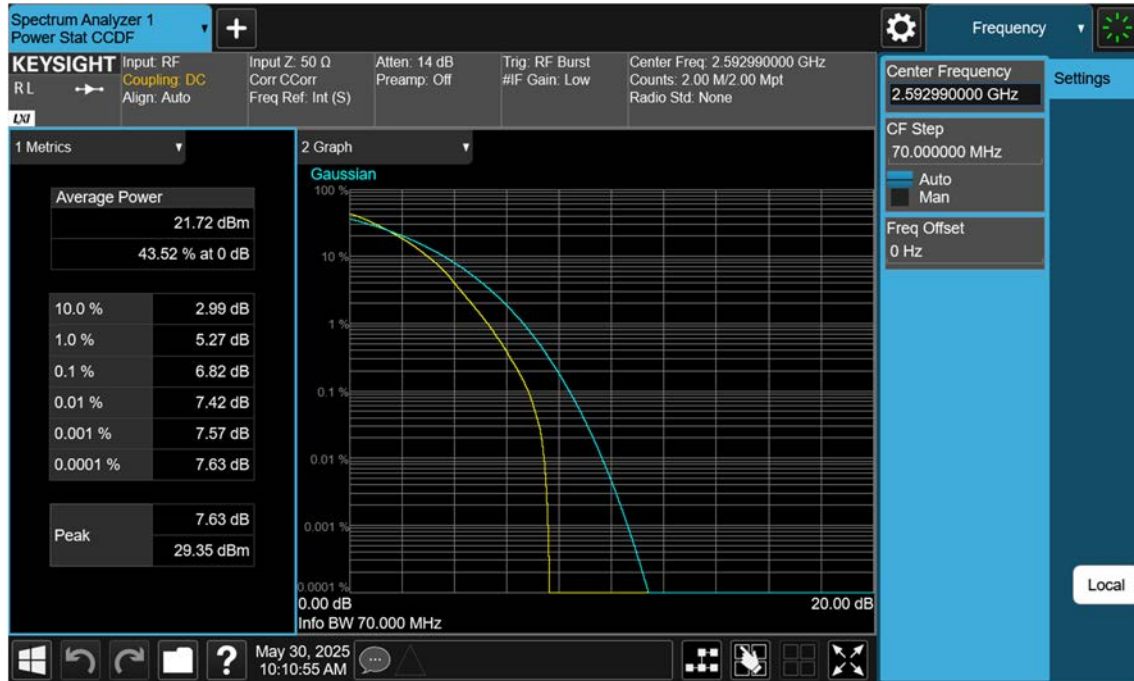
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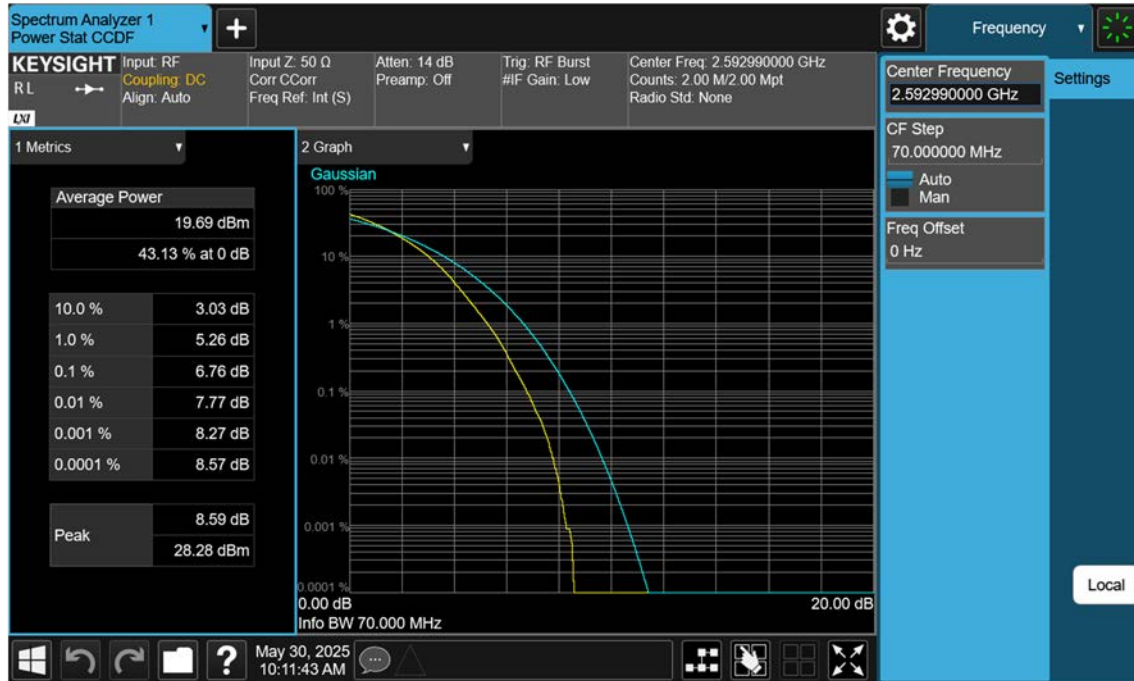
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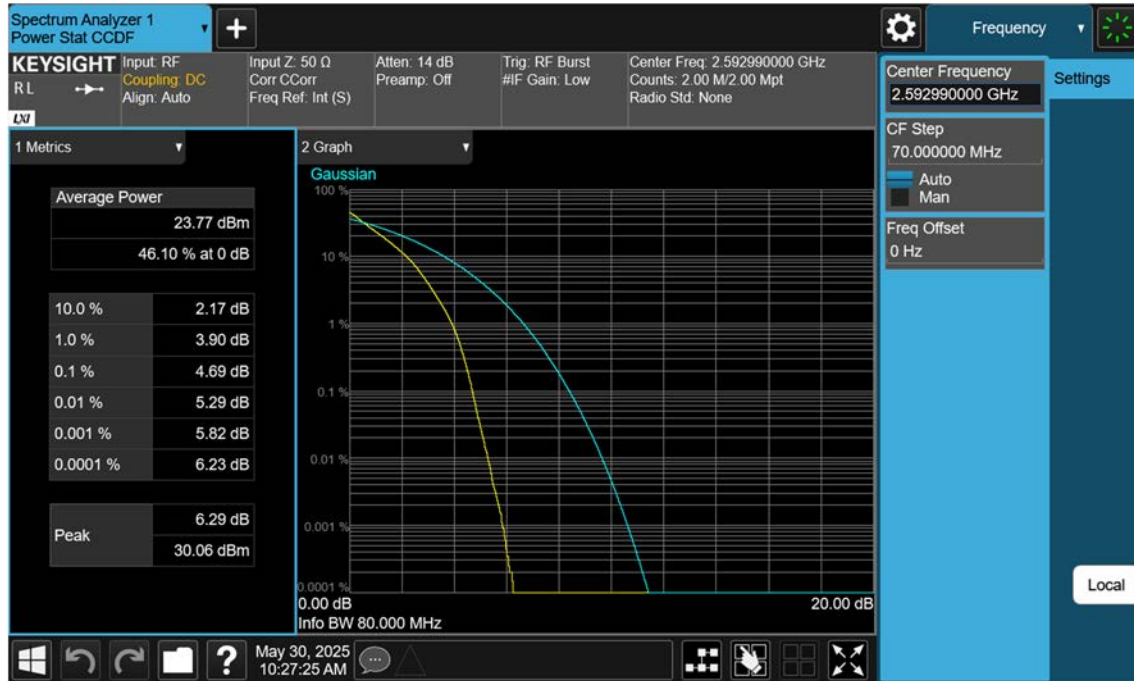
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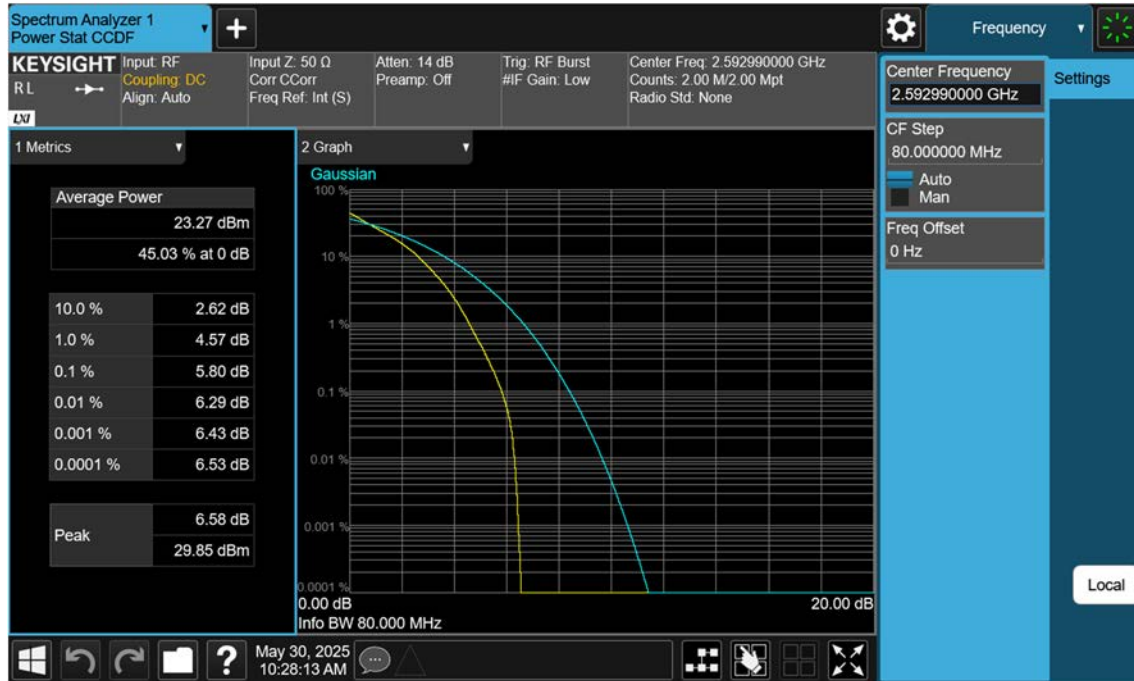
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NR41_80 M_PAR_Mid_BPSK_FullRB



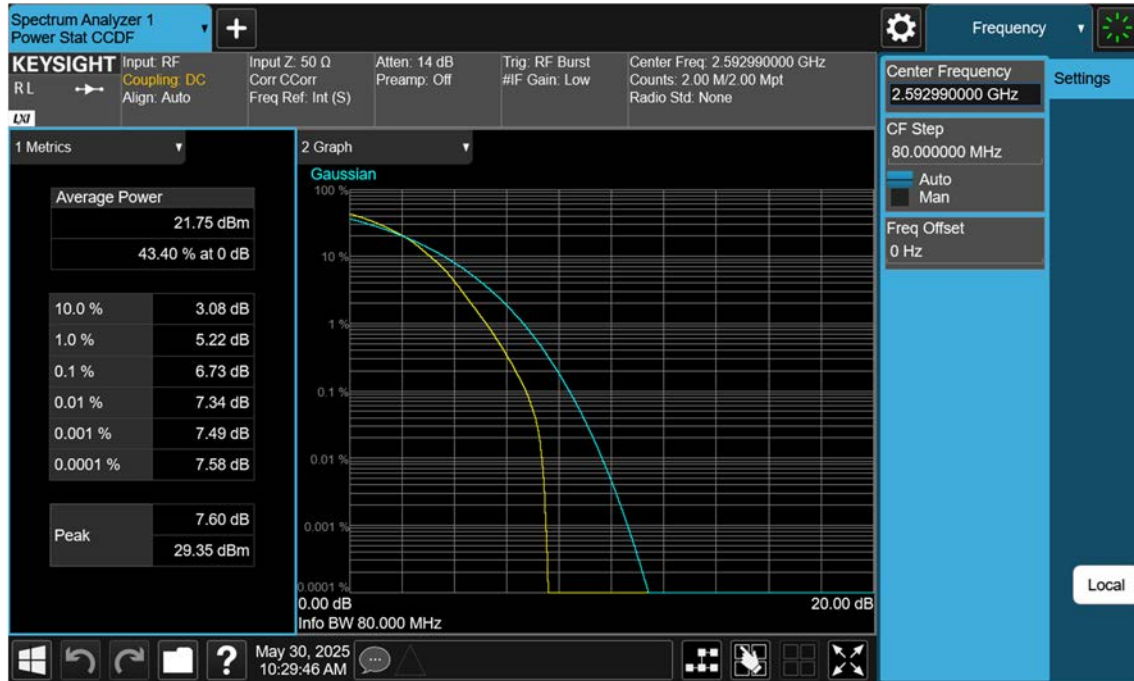
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NR41_80 M_PAR_Mid_16QAM_FullRB



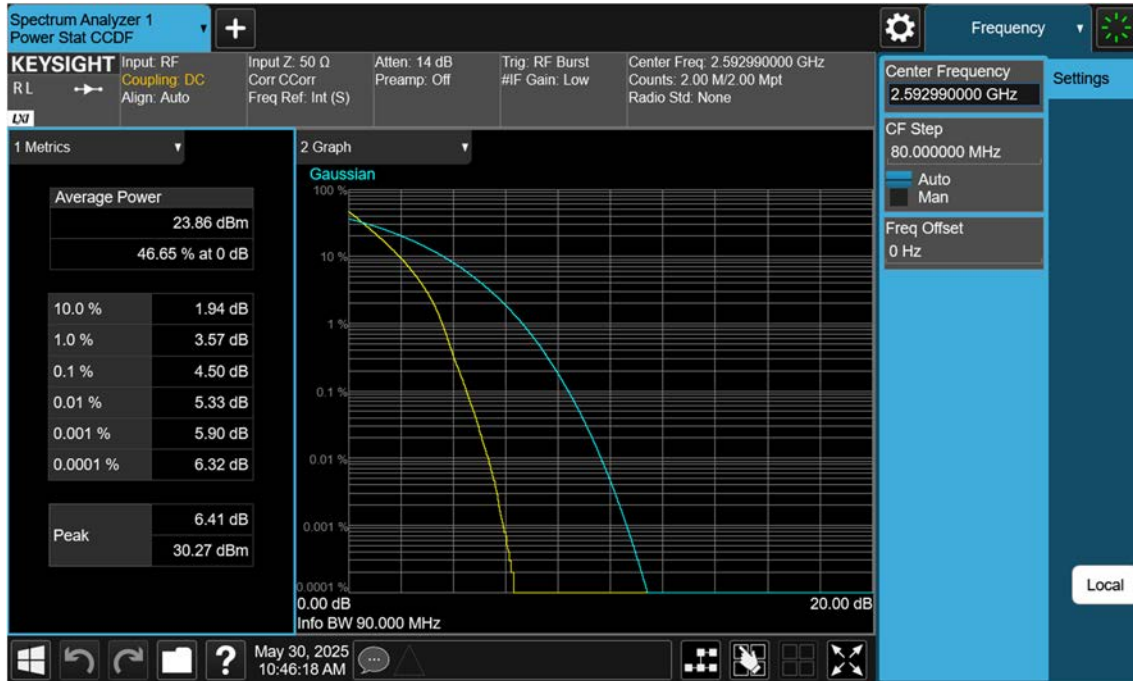
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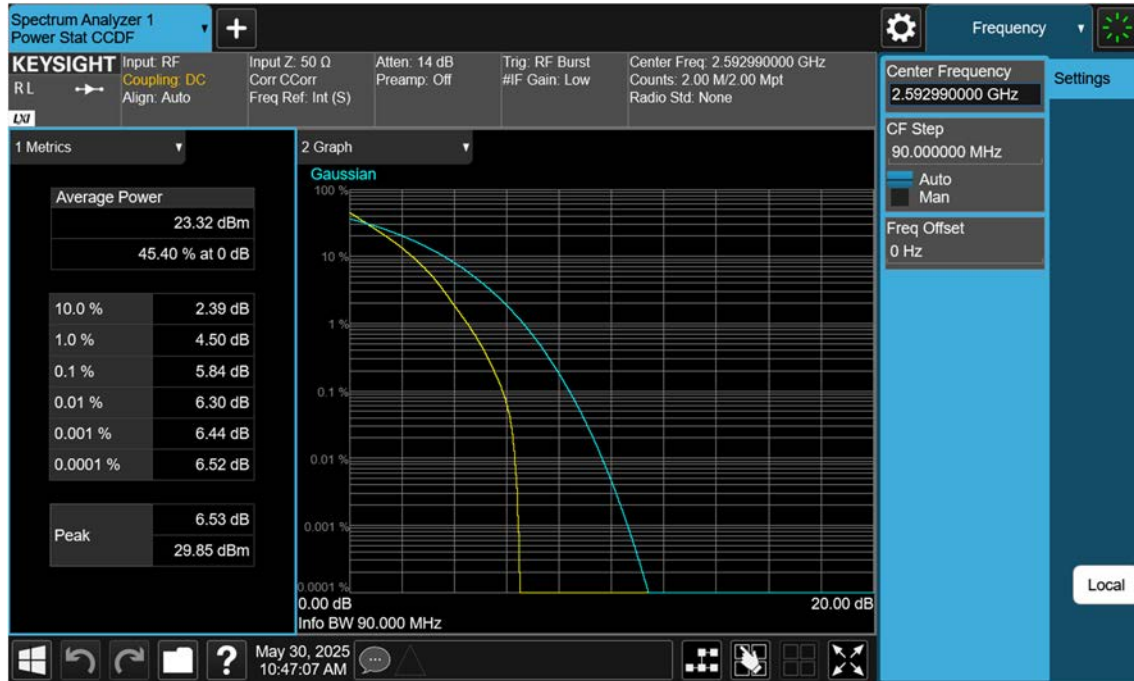
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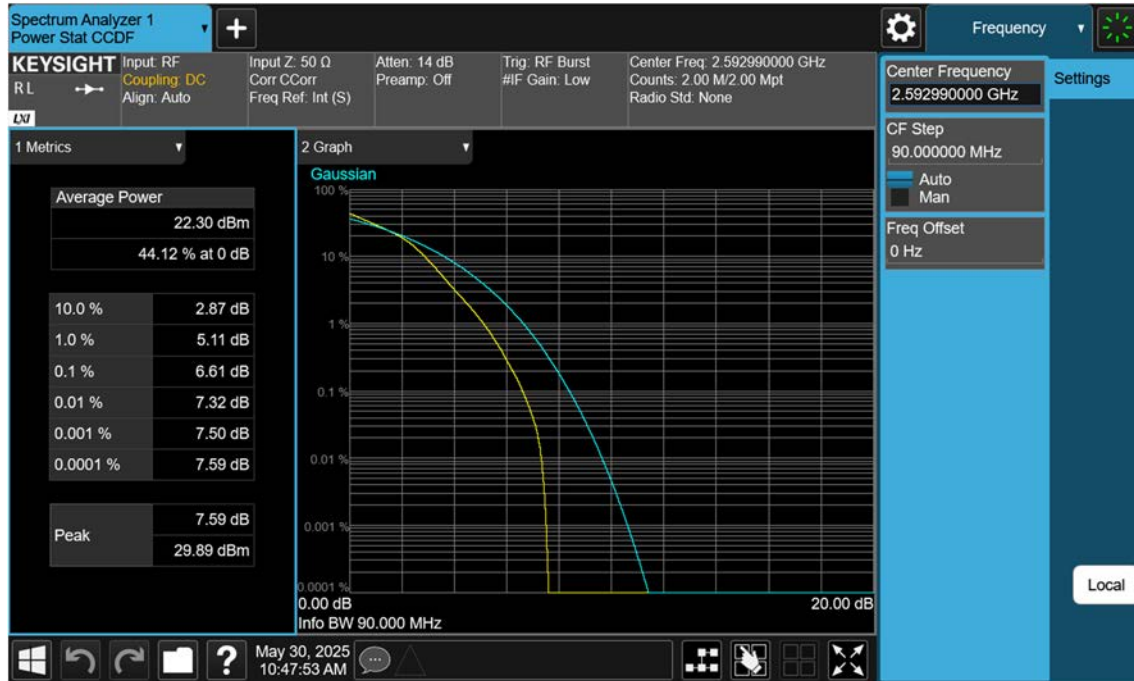
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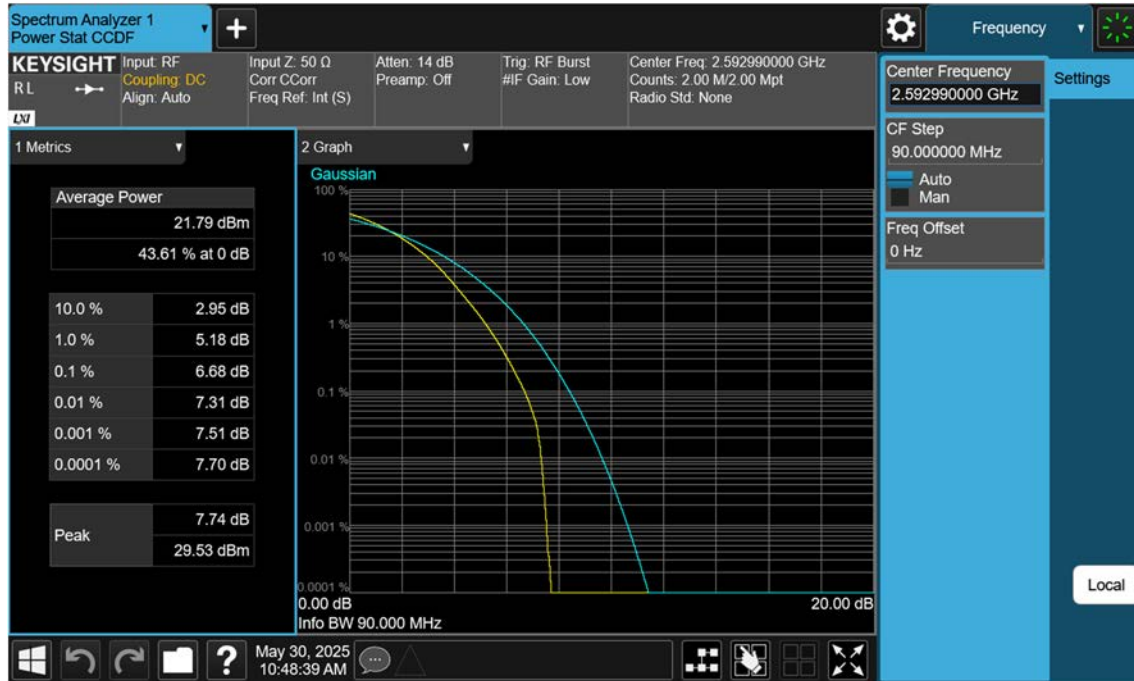
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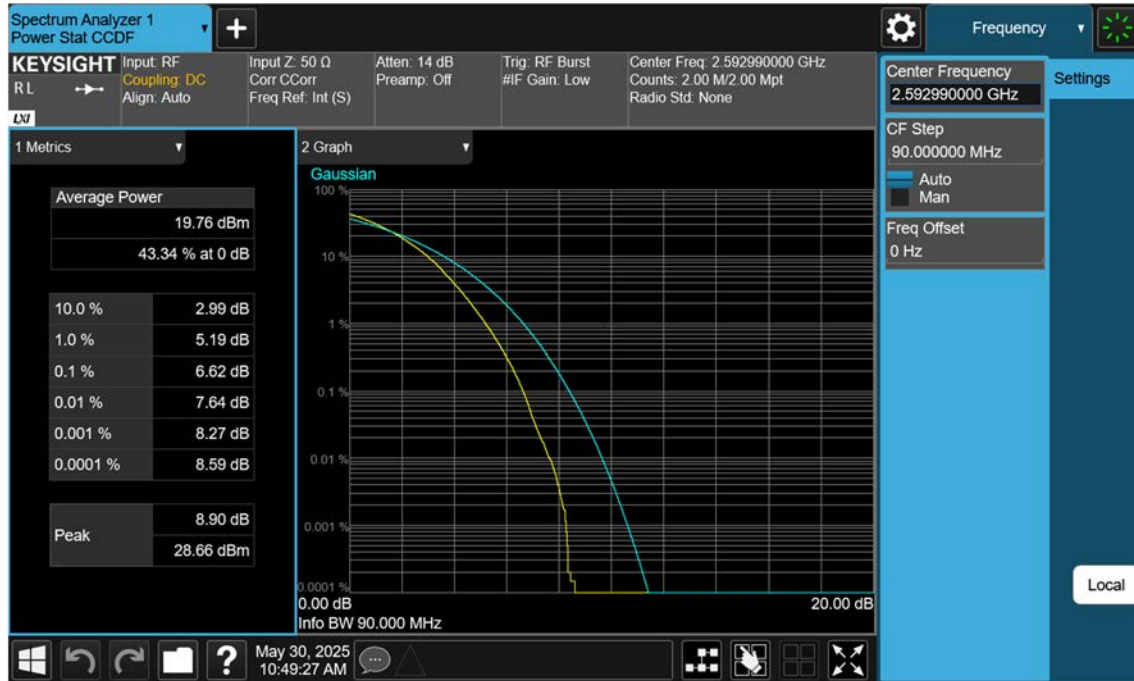
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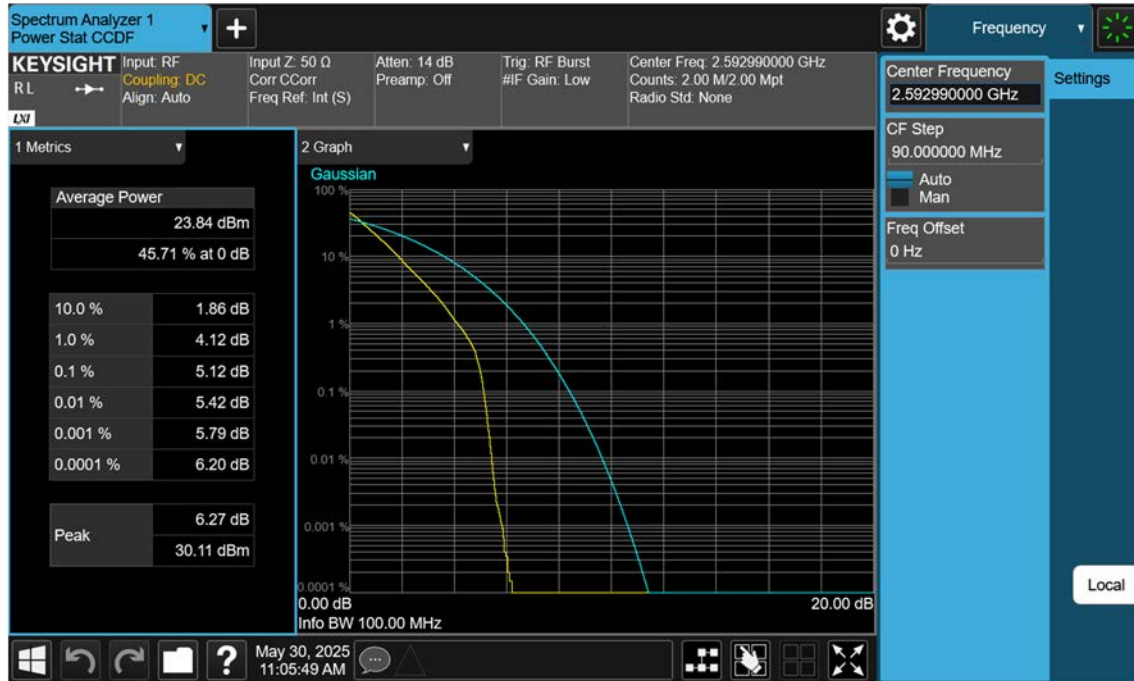
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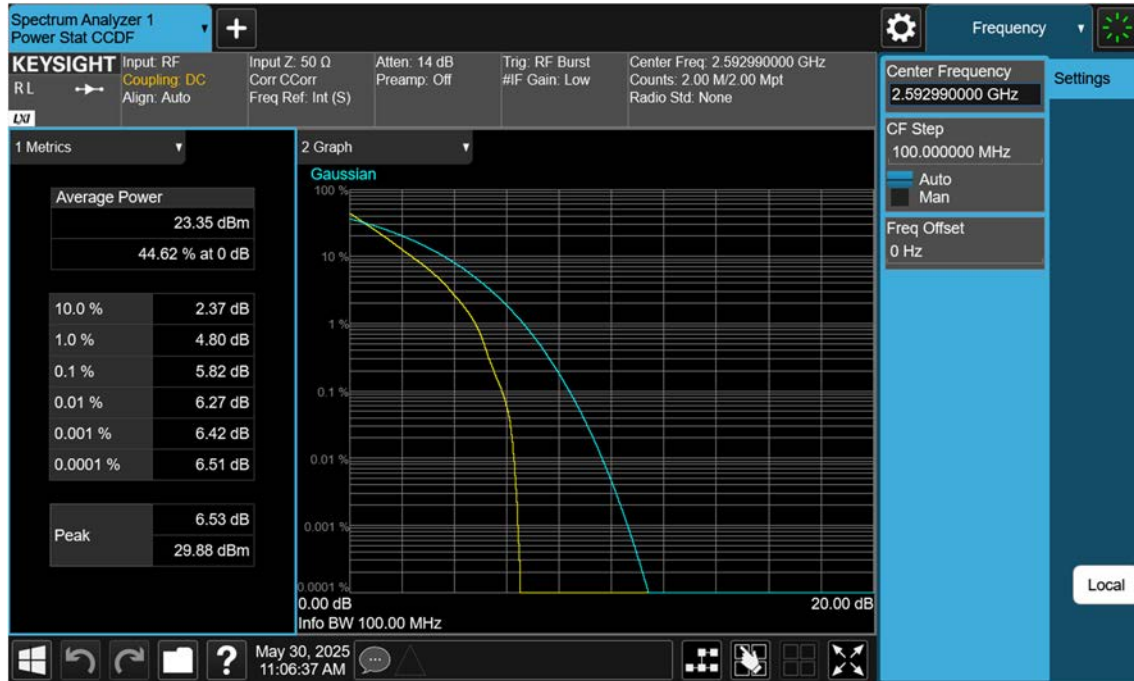
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NR41_100 M_PAR_Mid_BPSK_FullRB



NR41_100 M_PAR_Mid_QPSK_FullRB



NR41_100 M_PAR_Mid_16QAM_FullRB



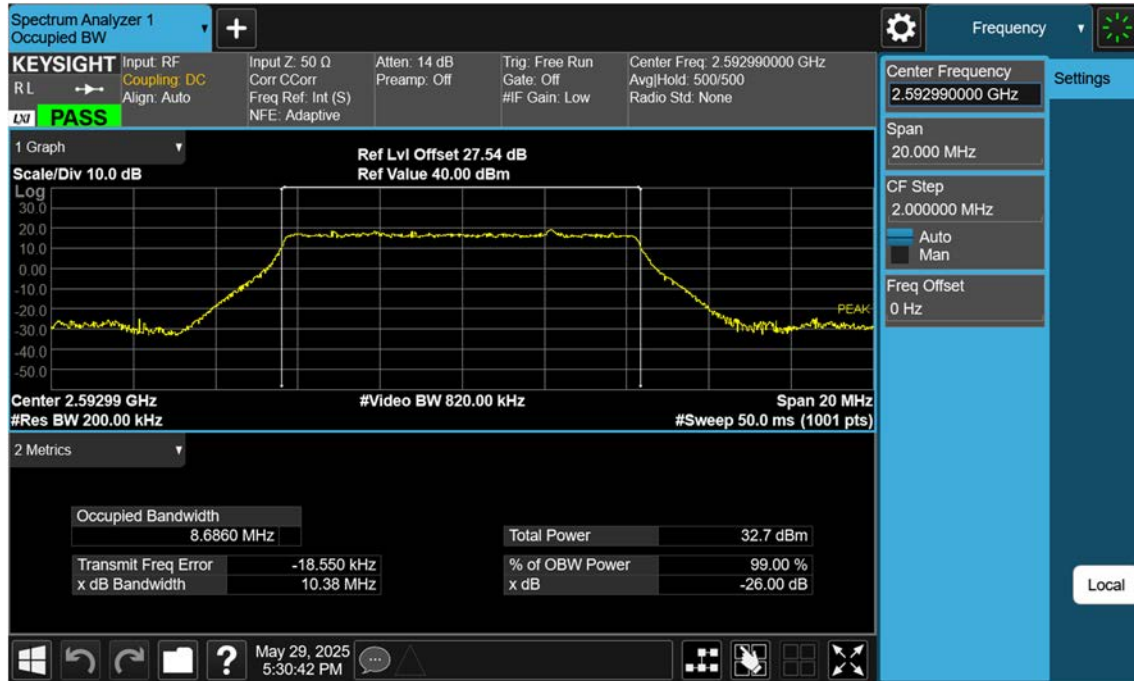
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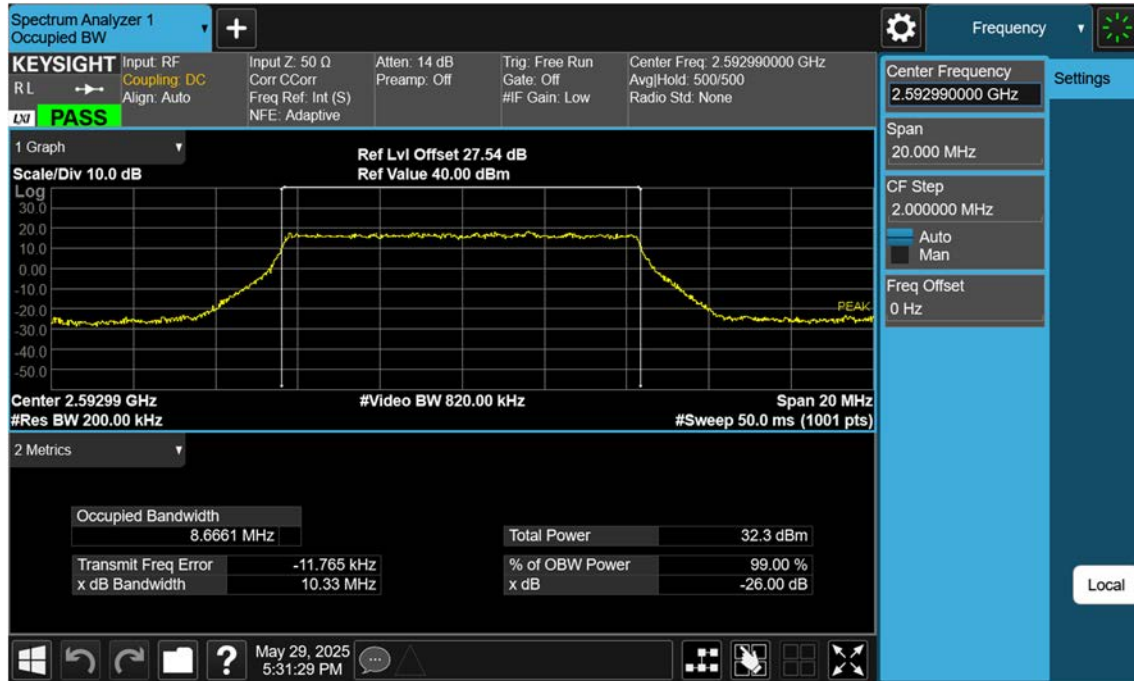
NR41_100 M_PAR_Mid_256QAM_FullRB



NR41_10 M_OBW_Mid_BPSK_FullRB



NR41_10 M_OBW_Mid_QPSK_FullRB



NR41_10 M_OBW_Mid_16QAM_FullRB



NR41_10 M_OBW_Mid_64QAM_FullRB

