

TEST REPORT

FCC Sub6 n71 Test for SM-A276U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2604-FC033

DATE OF ISSUE
April 23, 2026

Tested by
Jae Ryang Do



Technical Manager
Jong Seok Lee



HCT CO., LTD.
BongJai Huh
BongJai Huh / CEO



HCT CO.,LTD.

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT

REPORT NO.

HCT-RF-2604-FC033

DATE OF ISSUESs

April 23, 2026

Additional Model

SM-A276U1, SM-S276V

Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Mobile Phone

Model Name

SM-A276U

Date of Test

March 11, 2026 ~ April 22, 2026

FCC ID

A3LSMA276U

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 23, 2026	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).

CONTENTS

1. GENERAL INFORMATION	5
1.1 MAXIMUM OUTPUT POWER.....	6
2. INTRODUCTION	7
2.1. DESCRIPTION OF EUT	7
2.2. MEASURING INSTRUMENT CALIBRATION	7
2.3. TEST FACILITY	7
2.4. EQUIPMENT.....	7
3. DESCRIPTION OF TESTS	8
3.1 TEST PROCEDURE.....	8
3.2 RADIATED POWER	9
3.3 RADIATED SPURIOUS EMISSIONS.....	10
3.4 PEAK- TO- AVERAGE RATIO	11
3.5 OCCUPIED BANDWIDTH.	12
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	13
3.7 BAND EDGE	14
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	16
3.9 WORST CASE(RADIATED TEST)	17
3.10 WORST CASE(CONDUCTED TEST).....	18
4. LIST OF TEST EQUIPMENT.....	19
5. MEASUREMENT UNCERTAINTY	20
6. SUMMARY OF TEST RESULTS	21
7. SAMPLE CALCULATION.....	22
8. TEST DATA.....	24
8.1 EFFECTIVE RADIATED POWER.....	24
8.2 RADIATED SPURIOUS EMISSIONS.....	28
8.3 PEAK-TO-AVERAGE RATIO	29
8.4 OCCUPIED BANDWIDTH.....	30
8.5 CONDUCTED SPURIOUS EMISSIONS	31
8.6 BAND EDGE	31
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	32
9. TEST PLOTS.....	36
9.1 PEAK-TO-AVERAGE RATIO	37
9.2 OCCUPIED BANDWIDTH.....	57
9.3 CONDUCTED SPURIOUS EMISSIONS	77
9.4 BAND EDGE	89
10. ANNEX A_ TEST SETUP PHOTO	121

MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	SM-A276U
Additional Model(s)	SM-A276U1, SM-S276V
SCS(kHz):	15
Bandwidth(MHz):	5, 10, 15, 20
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:	665.5 MHz – 695.5 MHz (Sub6 n71(5 MHz)) 668.0 MHz – 693.0 MHz (Sub6 n71(10 MHz)) 670.5 MHz – 690.5 MHz (Sub6 n71(15 MHz)) 673.0 MHz – 688.0 MHz (Sub6 n71(20 MHz))
Serial number:	Radiated : R37L300TFEN Conducted : 9aece1613d127ece
Antenna Information	Please refer to the Antenna Specification document.

1.1 MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n71 (5)	665.5 - 695.5	4M50G7D	PI/2 BPSK	0.058	17.61
		4M51G7D	QPSK	0.057	17.58
		4M50W7D	16QAM	0.045	16.55
		4M55W7D	64QAM	0.033	15.12
		4M54W7D	256QAM	0.019	12.72
Sub6 n71 (10)	668.0 - 693.0	8M96G7D	PI/2 BPSK	0.056	17.47
		8M99G7D	QPSK	0.055	17.43
		8M98W7D	16QAM	0.045	16.55
		8M98W7D	64QAM	0.032	15.10
		8M96W7D	256QAM	0.017	12.42
Sub6 n71 (15)	670.5 - 690.5	13M5G7D	PI/2 BPSK	0.063	17.97
		13M5G7D	QPSK	0.063	17.96
		13M5W7D	16QAM	0.051	17.07
		13M5W7D	64QAM	0.036	15.53
		13M4W7D	256QAM	0.020	13.00
Sub6 n71 (20)	673.0 - 688.0	17M9G7D	PI/2 BPSK	0.064	18.08
		17M9G7D	QPSK	0.064	18.06
		17M8W7D	16QAM	0.052	17.14
		17M9W7D	64QAM	0.038	15.76
		17M9W7D	256QAM	0.020	13.11

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

Detailed description of test facility was submitted to the Commission and accepted dated February 26, 2026 (Registration Number: KR0032).

2.4. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, "American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz".

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
Band 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	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq 3 \times$ RBW
3. No. of sweep points $> 2 \times$ span / RBW
4. Detector = Peak
5. Trace mode = Max Hold
6. The trace was allowed to stabilize
7. Test channel : Low/ Middle/ High
8. 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;

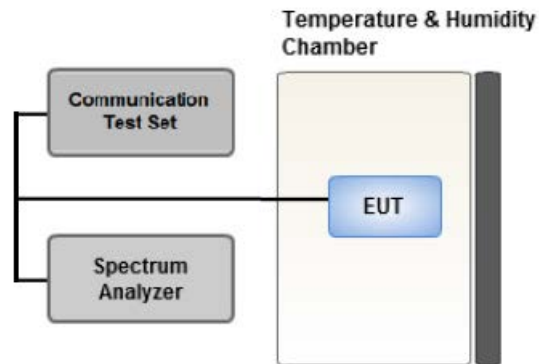
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

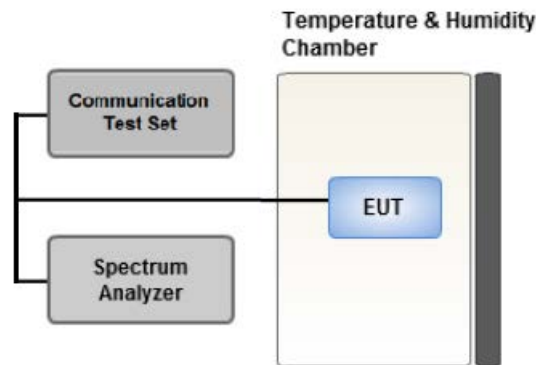


Test setup

Test Settings

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

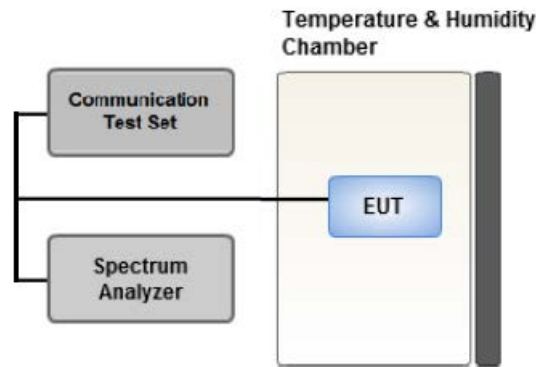
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

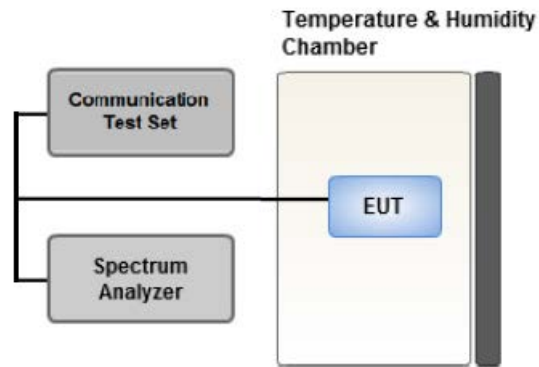
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep = 1001 pts

3.7 BAND 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 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. 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. RBW > 1 % of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time > (Number of Points) $\times$ (Symbol Period)
9. The trace was allowed to stabilize

Test Notes

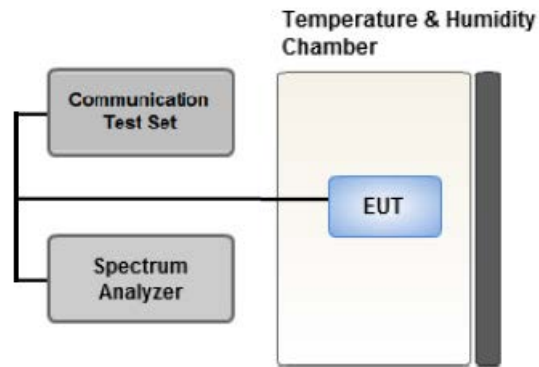
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

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

. - For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).

2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter.

Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: SA,NSA
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.
- In the case of radiated spurious emissions, all bandwidth of operation was investigated and the worst case bandwidth results are reported. (Worst case : 20 MHz)
- SM-A276U & additional models were tested and the worst case results are reported.
(Worst case : SM-A276U)

[Worst case]

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: SA,NSA
Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- SM-A276U & additional models were tested and the worst case results are reported.
(Worst case : SM-A276U)

[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	5,10,15,20	Mid	Full RB	0
Band Edge	PI/2 BPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	51
		15	Low	1	0
			High	1	78
		20	Low	1	0
			High	1	105
		5,10,15,20	Low, High	Full RB	0
			Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	INPUT1 + 1GHz HPF + LNA	HCT CO., LTD.,	F2L2	12/01/2026	Annual
RF Switching System	INPUT1 + 3GHz HPF + LNA	HCT CO., LTD.,	F2L3	12/01/2026	Annual
RF Switching System	INPUT1 + 7GHz HPF + LNA	HCT CO., LTD.,	F2L5	12/01/2026	Annual
RF Switching System	INPUT3 + 6GHz HPF + LNA	HCT CO., LTD.,	F2L14	12/01/2026	Annual
Broadband LNA	CBL18265035	CERNEX	22966	10/21/2026	Annual
Broadband LNA	CBL26405040	CERNEX	25956	02/09/2027	Annual
POWER SPLITTER	11667B	Hewlett Packard	5001	04/01/2027	Annual
DC POWER SUPPLY	E3632A	Agilent	MY40010147	07/29/2026	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/05/2028	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/04/2027	Annual
Horn Antenna	BBHA 9120D	Schwarzbeck	03197	11/28/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	03201	11/28/2026	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
MXA SIGNAL ANALYZER	N9020A	Agilent	MY52090906	04/08/2027	Annual
20dB ATTENUATOR	8493C	HP	15233	12/10/2026	Annual
Signal Analyzer	FSV 40	ROHDE & SCHWARZ	101733	09/17/2026	Annual
Wireless Communications Set	E5515C	Agilent	MY48360800	07/29/2026	Annual
Loop Antenna	FMZB 1513	Schwarzbeck	1513-333	06/23/2027	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck	00895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck Mess-Elektronik OHG	01135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu	6272613402	08/18/2026	Annual
SIGNAL GENERATOR	SMB100A	ROHDE & SCHWARZ	177633	07/22/2026	Annual
PXA Signal Analyzer	N9030B	Keysight	MY55480167	05/14/2026	Annual
UXM 5G Wireless Test Platform	E7515B	Keysight	MY60101126	01/29/2027	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

1. Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update. All reported measurements were performed using equipment within valid calibration.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

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	1.11 (Confidence level about 95 %, $k=2$)
Peak- to- Average Ratio	0.73 (Confidence level about 95 %, $k=2$)
Radiated Power	4.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.54 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.80 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.86 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.44 (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(g)	$< 43 + 10\log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	PASS <u>Note1</u>
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. Refer to the SAR report
2. Conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§ 27.50(c)(10)	< 3 Watts max. ERP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(g)	$< 43 + 10\log_{10}(P[\text{Watts}])$ for all out-of band emissions	PASS

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA

8.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
665.5	Sub6 n71/ 5 MHz [15 kHz]	PI/2 BPSK	-31.09	27.11	-9.65	1.25	V	< 3.00	0.042	16.21	1	23
		QPSK	-31.12	27.08	-9.65	1.25	V		0.041	16.18		
		16-QAM	-32.00	26.20	-9.65	1.25	V		0.034	15.30		
		64-QAM	-33.32	24.88	-9.65	1.25	V		0.025	13.98		
		256-QAM	-35.99	22.21	-9.65	1.25	V		0.014	11.31		
680.5		PI/2 BPSK	-30.47	28.30	-9.65	1.28	V		0.055	17.37	1	12
		QPSK	-30.50	28.27	-9.65	1.28	V		0.054	17.34		
		16-QAM	-31.41	27.36	-9.65	1.28	V		0.044	16.43		
		64-QAM	-32.84	25.93	-9.65	1.28	V		0.032	15.00		
		256-QAM	-35.46	23.31	-9.65	1.28	V		0.017	12.38		
695.5		PI/2 BPSK	-31.09	28.55	-9.65	1.29	V		0.058	17.61	1	12
		QPSK	-31.12	28.52	-9.65	1.29	V		0.057	17.58		
		16-QAM	-32.15	27.49	-9.65	1.29	V		0.045	16.55		
		64-QAM	-33.58	26.06	-9.65	1.29	V		0.033	15.12		
		256-QAM	-35.98	23.66	-9.65	1.29	V		0.019	12.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
668.0	Sub6 n71/ 10 MHz [15 kHz]	PI/2 BPSK	-30.68	27.51	-9.65	1.26	V	< 3.00	0.046	16.60	1	50
		QPSK	-30.70	27.49	-9.65	1.26	V		0.045	16.58		
		16-QAM	-31.65	26.54	-9.65	1.26	V		0.037	15.63		
		64-QAM	-33.01	25.18	-9.65	1.26	V		0.027	14.27		
		256-QAM	-35.78	22.41	-9.65	1.26	V		0.014	11.50		
680.5		PI/2 BPSK	-30.49	28.28	-9.65	1.28	V		0.054	17.35	1	1
		QPSK	-30.50	28.27	-9.65	1.28	V		0.054	17.34		
		16-QAM	-31.46	27.31	-9.65	1.28	V		0.043	16.38		
		64-QAM	-32.96	25.81	-9.65	1.28	V		0.031	14.88		
		256-QAM	-35.42	23.35	-9.65	1.28	V		0.017	12.42		
693.0		PI/2 BPSK	-31.14	28.41	-9.65	1.29	V		0.056	17.47	1	50
		QPSK	-31.18	28.37	-9.65	1.29	V		0.055	17.43		
		16-QAM	-32.06	27.49	-9.65	1.29	V		0.045	16.55		
		64-QAM	-33.51	26.04	-9.65	1.29	V		0.032	15.10		
		256-QAM	-36.19	23.36	-9.65	1.29	V		0.017	12.42		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
670.5	Sub6 n71/ 15 MHz [15 kHz]	PI/2 BPSK	-30.40	27.73	-9.65	1.26	V	< 3.00	0.048	16.82	1	77
		QPSK	-30.45	27.68	-9.65	1.26	V		0.048	16.77		
		16-QAM	-31.29	26.84	-9.65	1.26	V		0.039	15.93		
		64-QAM	-32.78	25.35	-9.65	1.26	V		0.028	14.44		
		256-QAM	-35.26	22.87	-9.65	1.26	V		0.016	11.96		
680.5		PI/2 BPSK	-30.32	28.45	-9.65	1.28	V		0.056	17.52	1	39
		QPSK	-30.33	28.44	-9.65	1.28	V		0.056	17.51		
		16-QAM	-31.30	27.47	-9.65	1.28	V		0.045	16.54		
		64-QAM	-32.72	26.05	-9.65	1.28	V		0.033	15.12		
		256-QAM	-35.27	23.50	-9.65	1.28	V		0.018	12.57		
690.5		PI/2 BPSK	-30.71	28.91	-9.65	1.29	V		0.063	17.97	1	1
		QPSK	-30.72	28.90	-9.65	1.29	V		0.063	17.96		
		16-QAM	-31.61	28.01	-9.65	1.29	V		0.051	17.07		
		64-QAM	-33.15	26.47	-9.65	1.29	V		0.036	15.53		
		256-QAM	-35.68	23.94	-9.65	1.29	V		0.020	13.00		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
673.0	Sub6 n71/ 20 MHz [15 kHz]	PI/2 BPSK	-30.57	27.58	-9.65	1.27	V	< 3.00	0.046	16.66	1	53
		QPSK	-30.59	27.56	-9.65	1.27	V		0.046	16.64		
		16-QAM	-31.50	26.65	-9.65	1.27	V		0.037	15.73		
		64-QAM	-32.85	25.30	-9.65	1.27	V		0.027	14.38		
		256-QAM	-35.53	22.62	-9.65	1.27	V		0.015	11.70		
680.5		PI/2 BPSK	-30.49	28.28	-9.65	1.28	V		0.054	17.35	1	53
		QPSK	-30.52	28.25	-9.65	1.28	V		0.054	17.32		
		16-QAM	-31.35	27.42	-9.65	1.28	V		0.045	16.49		
		64-QAM	-32.88	25.89	-9.65	1.28	V		0.031	14.96		
		256-QAM	-35.33	23.44	-9.65	1.28	V		0.018	12.51		
688.0		PI/2 BPSK	-30.39	29.02	-9.65	1.29	V		0.064	18.08	1	1
		QPSK	-30.41	29.00	-9.65	1.29	V		0.064	18.06		
		16-QAM	-31.33	28.08	-9.65	1.29	V		0.052	17.14		
		64-QAM	-32.71	26.70	-9.65	1.29	V		0.038	15.76		
		256-QAM	-35.36	24.05	-9.65	1.29	V		0.020	13.11		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>NR n71</u>
Bandwidth:	<u>20 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>3 meters</u>
SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Size
134600 (673.0)	1 346.00	-50.89	7.14	-62.88	1.77	V	-57.51	-13.00	1	53
		-50.32		-62.31		H	-56.94	-13.00		
	2 019.00	-51.55	9.41	-63.81	2.23	V	-56.63	-13.00		
		-50.42		-62.68		H	-55.50	-13.00		
	2 692.00	-51.75	10.61	-62.81	2.60	V	-54.80	-13.00		
		-52.21		-63.27		H	-55.26	-13.00		
136100 (680.5)	1 361.00	-51.21	7.31	-63.55	1.81	V	-58.05	-13.00	1	53
		-50.55		-62.89		H	-57.39	-13.00		
	2 041.50	-51.51	9.46	-63.48	2.25	V	-56.27	-13.00		
		-51.69		-63.66		H	-56.45	-13.00		
	2 722.00	-51.89	10.61	-62.91	2.60	V	-54.90	-13.00		
		-52.43		-63.45		H	-55.44	-13.00		
137600 (688.0)	1 376.00	-51.40	7.48	-64.05	1.85	V	-58.42	-13.00	1	1
		-50.72		-63.37		H	-57.74	-13.00		
	2 064.00	-51.80	9.49	-63.34	2.29	V	-56.14	-13.00		
		-50.78		-62.32		H	-55.12	-13.00		
	2 752.00	-52.49	10.57	-63.50	2.70	V	-55.63	-13.00		
		-52.27		-63.28		H	-55.41	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n71	5 MHz	680.5	PI/2 BPSK	25	0	4.78	13.00
			QPSK			6.17	
			16-QAM			6.61	
			64-QAM			6.70	
			256-QAM			6.83	
	10 MHz		PI/2 BPSK	50		4.98	
			QPSK			5.87	
			16-QAM			6.43	
			64-QAM			6.80	
			256-QAM			6.53	
	15 MHz		PI/2 BPSK	75		4.70	
			QPSK			5.72	
			16-QAM			6.65	
			64-QAM			6.51	
			256-QAM			6.61	
	20 MHz		PI/2 BPSK	100		4.53	
			QPSK			5.58	
			16-QAM			6.40	
			64-QAM			6.66	
			256-QAM			6.68	

Note:

1. Peak- to- Average Ratio is not required. These values are reported for information only.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n71	5 MHz	680.5	PI/2 BPSK	25	0	4.5002
			QPSK			4.5091
			16-QAM			4.4970
			64-QAM			4.5463
			256-QAM			4.5403
	10 MHz		PI/2 BPSK	50		8.9559
			QPSK			8.9943
			16-QAM			8.9775
			64-QAM			8.9771
			256-QAM			8.9558
	15 MHz		PI/2 BPSK	75		13.467
			QPSK			13.455
			16-QAM			13.449
			64-QAM			13.469
			256-QAM			13.423
	20 MHz		PI/2 BPSK	100		17.876
			QPSK			17.904
			16-QAM			17.837
			64-QAM			17.897
			256-QAM			17.893

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 n71	5	665.5	6.0319	29.116	-63.432	-34.316	-13.00
		680.5	8.3250	29.116	-63.621	-34.505	
		695.5	8.2553	29.116	-61.874	-32.758	
	10	668.0	9.1526	29.116	-62.826	-33.710	
		680.5	7.3779	29.116	-62.767	-33.651	
		693.0	8.2453	29.116	-61.486	-32.370	
	15	670.5	9.2223	29.116	-63.288	-34.172	
		680.5	5.9921	29.116	-63.295	-34.179	
		690.5	5.2144	29.116	-63.005	-33.889	
	20	673.0	8.6541	29.116	-62.773	-33.657	
		680.5	5.2742	29.116	-62.686	-33.570	
		688.0	8.0060	29.116	-63.433	-34.317	

Note:

1. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
2. Factor(dB) = Cable Loss + Attenuator + Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	28.533
5 – 10	29.116
10 – 15	30.025
15 – 20	31.052
Above 20	31.613

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Section 9.4.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 5 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
665.5	100 %	+20(Ref)	665 499 997	0.0	0.000 000	0.000
	100 %	-30	665 499 993	-4.1	-0.000 001	-0.006
	100 %	-20	665 499 993	-3.6	-0.000 001	-0.005
	100 %	-10	665 499 993	-3.9	-0.000 001	-0.006
	100 %	0	665 499 992	-4.8	-0.000 001	-0.007
	100 %	+10	665 499 994	-2.5	0.000 000	-0.004
	100 %	+30	665 499 993	-3.8	-0.000 001	-0.006
	100 %	+40	665 499 993	-4.2	-0.000 001	-0.006
	100 %	+50	665 499 993	-4.4	-0.000 001	-0.007
	Batt. Endpoint	+20	665 499 993	-4.3	-0.000 001	-0.006
695.5	100 %	+20(Ref)	695 500 000	0.0	0.000 000	0.000
	100 %	-30	695 499 999	-0.9	0.000 000	-0.001
	100 %	-20	695 499 999	-1.0	0.000 000	-0.001
	100 %	-10	695 500 000	0.7	0.000 000	0.001
	100 %	0	695 499 999	-0.3	0.000 000	0.000
	100 %	+10	695 500 000	0.2	0.000 000	0.000
	100 %	+30	695 499 998	-1.4	0.000 000	-0.002
	100 %	+40	695 499 999	-0.4	0.000 000	-0.001
	100 %	+50	695 500 000	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	695 500 000	0.6	0.000 000	0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
668.0	100 %	+20(Ref)	668 000 005	0.0	0.000 000	0.000
	100 %	-30	668 000 008	3.6	0.000 001	0.005
	100 %	-20	668 000 009	4.4	0.000 001	0.007
	100 %	-10	668 000 007	2.2	0.000 000	0.003
	100 %	0	668 000 008	3.2	0.000 000	0.005
	100 %	+10	668 000 007	2.2	0.000 000	0.003
	100 %	+30	668 000 009	4.3	0.000 001	0.006
	100 %	+40	668 000 008	3.4	0.000 001	0.005
	100 %	+50	668 000 008	3.7	0.000 001	0.005
	Batt. Endpoint	+20	668 000 008	3.4	0.000 001	0.005
693.0	100 %	+20(Ref)	693 000 002	0.0	0.000 000	0.000
	100 %	-30	693 000 003	1.0	0.000 000	0.001
	100 %	-20	693 000 003	1.0	0.000 000	0.001
	100 %	-10	693 000 004	1.7	0.000 000	0.002
	100 %	0	693 000 005	2.8	0.000 000	0.004
	100 %	+10	693 000 004	2.3	0.000 000	0.003
	100 %	+30	693 000 004	1.8	0.000 000	0.003
	100 %	+40	693 000 005	2.8	0.000 000	0.004
	100 %	+50	693 000 004	1.8	0.000 000	0.003
	Batt. Endpoint	+20	693 000 005	2.9	0.000 000	0.004

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
670.5	100 %	+20(Ref)	670 500 002	0.0	0.000 000	0.000
	100 %	-30	670 500 003	1.9	0.000 000	0.003
	100 %	-20	670 500 003	1.0	0.000 000	0.001
	100 %	-10	670 500 003	1.6	0.000 000	0.002
	100 %	0	670 500 003	1.0	0.000 000	0.002
	100 %	+10	670 500 002	0.8	0.000 000	0.001
	100 %	+30	670 500 003	1.5	0.000 000	0.002
	100 %	+40	670 500 003	1.7	0.000 000	0.003
	100 %	+50	670 500 003	1.7	0.000 000	0.003
	Batt. Endpoint	+20	670 500 003	1.9	0.000 000	0.003
690.5	100 %	+20(Ref)	690 500 001	0.0	0.000 000	0.000
	100 %	-30	690 500 003	1.8	0.000 000	0.003
	100 %	-20	690 500 003	1.4	0.000 000	0.002
	100 %	-10	690 500 003	1.3	0.000 000	0.002
	100 %	0	690 500 003	2.0	0.000 000	0.003
	100 %	+10	690 500 002	0.6	0.000 000	0.001
	100 %	+30	690 500 003	1.9	0.000 000	0.003
	100 %	+40	690 500 003	1.5	0.000 000	0.002
	100 %	+50	690 500 002	0.6	0.000 000	0.001
	Batt. Endpoint	+20	690 500 003	1.4	0.000 000	0.002

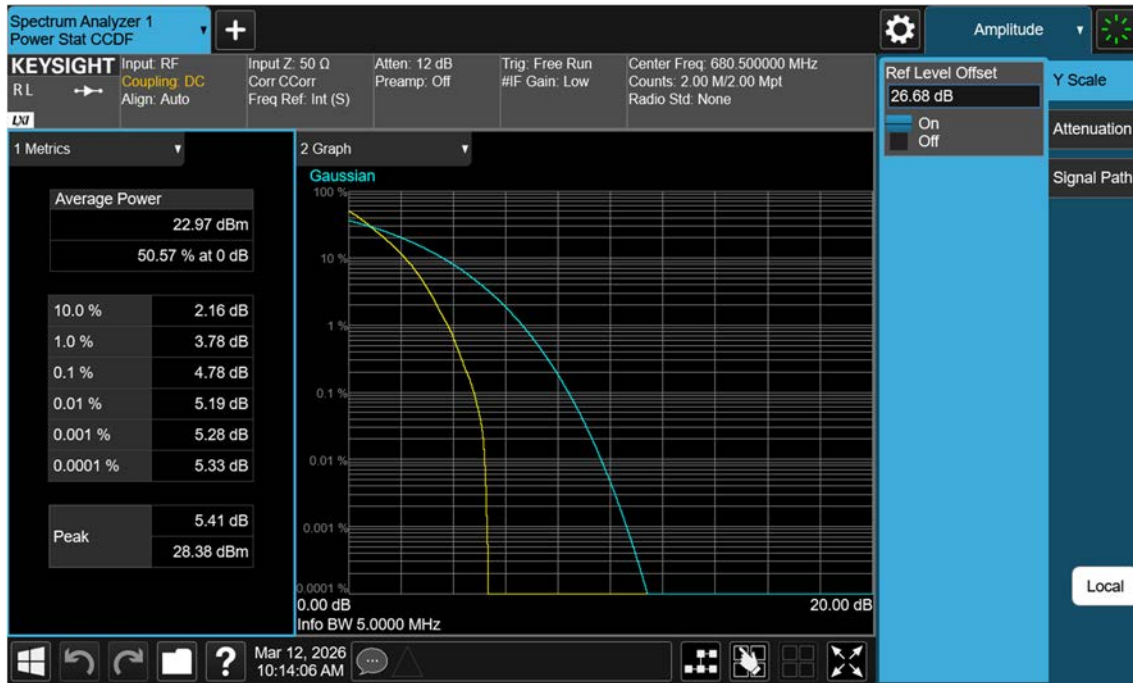
- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
673.0	100 %	+20(Ref)	672 999 998	0.0	0.000 000	0.000
	100 %	-30	672 999 997	-0.8	0.000 000	-0.001
	100 %	-20	672 999 997	-1.2	0.000 000	-0.002
	100 %	-10	672 999 998	-0.3	0.000 000	0.000
	100 %	0	672 999 998	0.3	0.000 000	0.000
	100 %	+10	672 999 997	-1.3	0.000 000	-0.002
	100 %	+30	672 999 998	-0.6	0.000 000	-0.001
	100 %	+40	672 999 997	-1.2	0.000 000	-0.002
	100 %	+50	672 999 997	-0.7	0.000 000	-0.001
	Batt. Endpoint	+20	672 999 997	-1.0	0.000 000	-0.001
688.0	100 %	+20(Ref)	688 000 001	0.0	0.000 000	0.000
	100 %	-30	688 000 002	0.2	0.000 000	0.000
	100 %	-20	688 000 002	0.8	0.000 000	0.001
	100 %	-10	688 000 003	1.1	0.000 000	0.002
	100 %	0	688 000 002	0.2	0.000 000	0.000
	100 %	+10	688 000 004	2.2	0.000 000	0.003
	100 %	+30	688 000 003	1.5	0.000 000	0.002
	100 %	+40	688 000 002	0.6	0.000 000	0.001
	100 %	+50	688 000 002	0.9	0.000 000	0.001
	Batt. Endpoint	+20	688 000 003	1.7	0.000 000	0.002

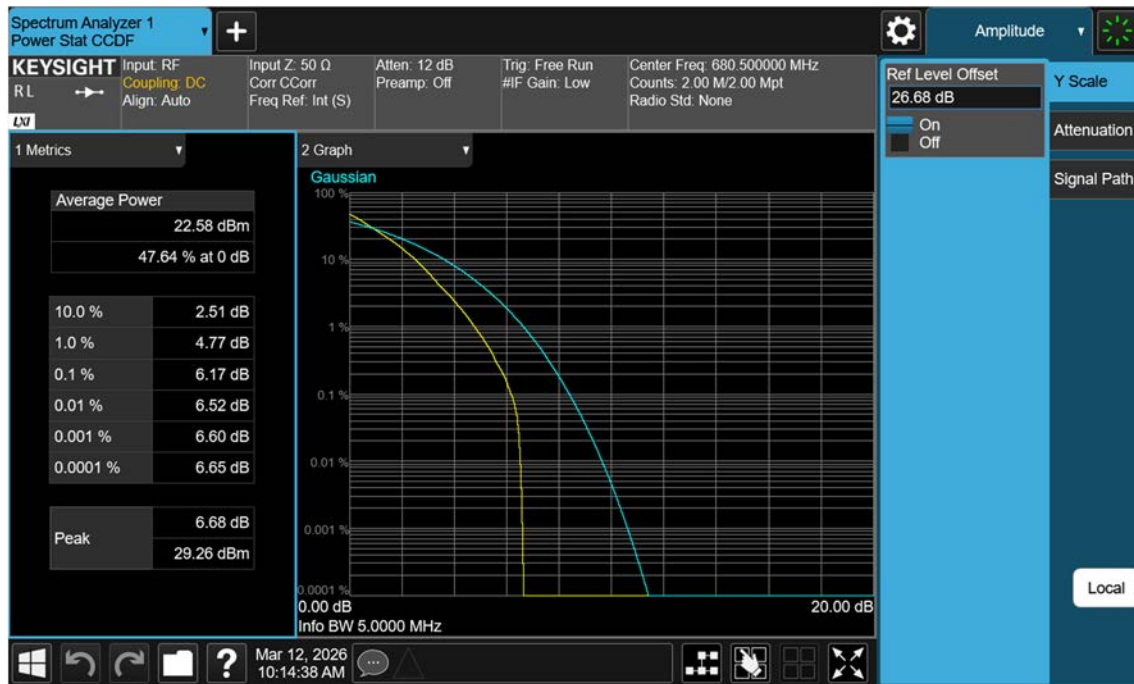
9. TEST PLOTS

9.1 PEAK-TO-AVERAGE RATIO

NR n71_5 M_PAR_Mid_PI/2 BPSK_FullRB



NR n71_5 M_PAR_Mid_QPSK_FullRB



NR n71_5 M_PAR_Mid_16QAM_FullRB



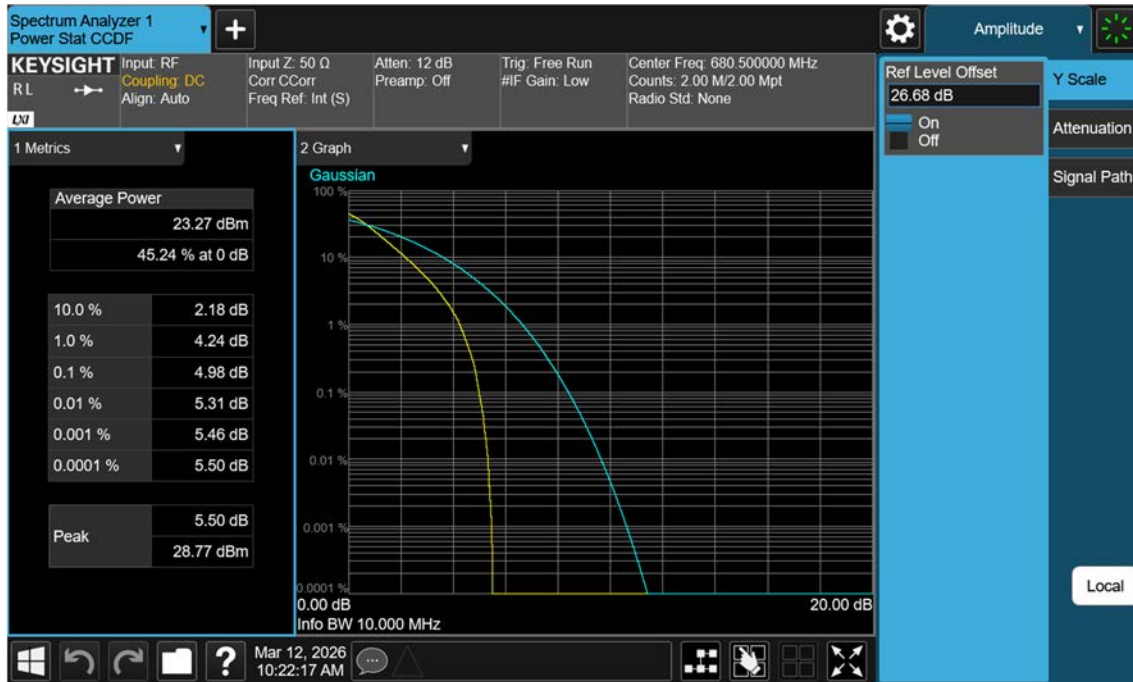
NR n71_5 M_PAR_Mid_64QAM_FullRB



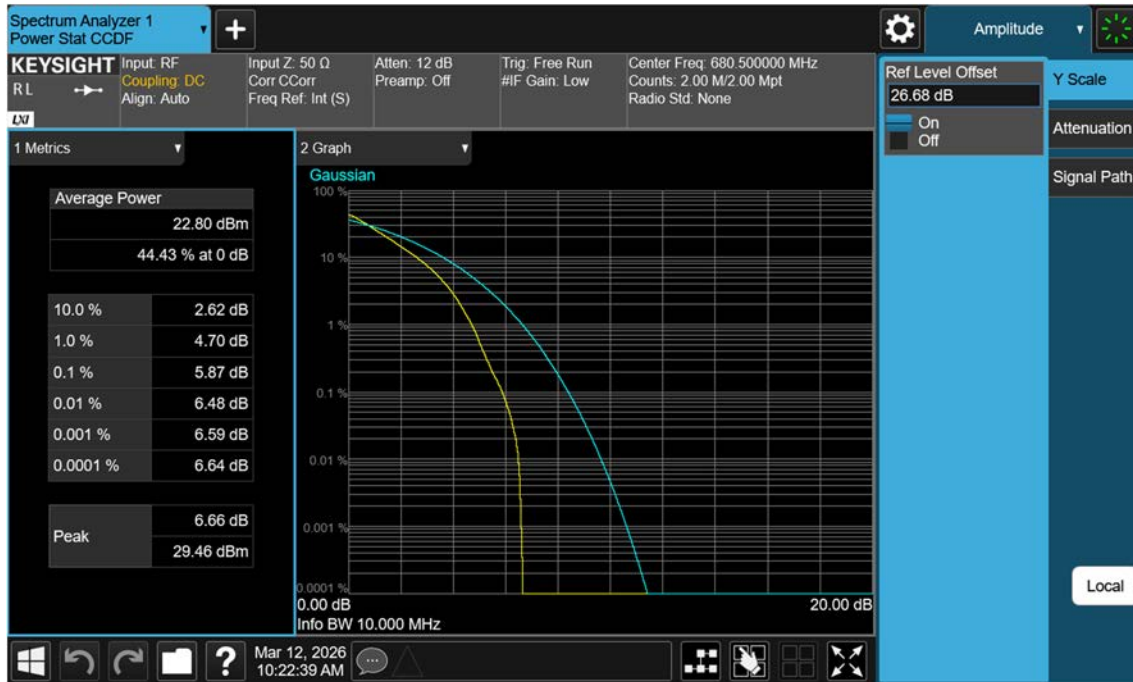
NR n71_5 M_PAR_Mid_256QAM_FullRB



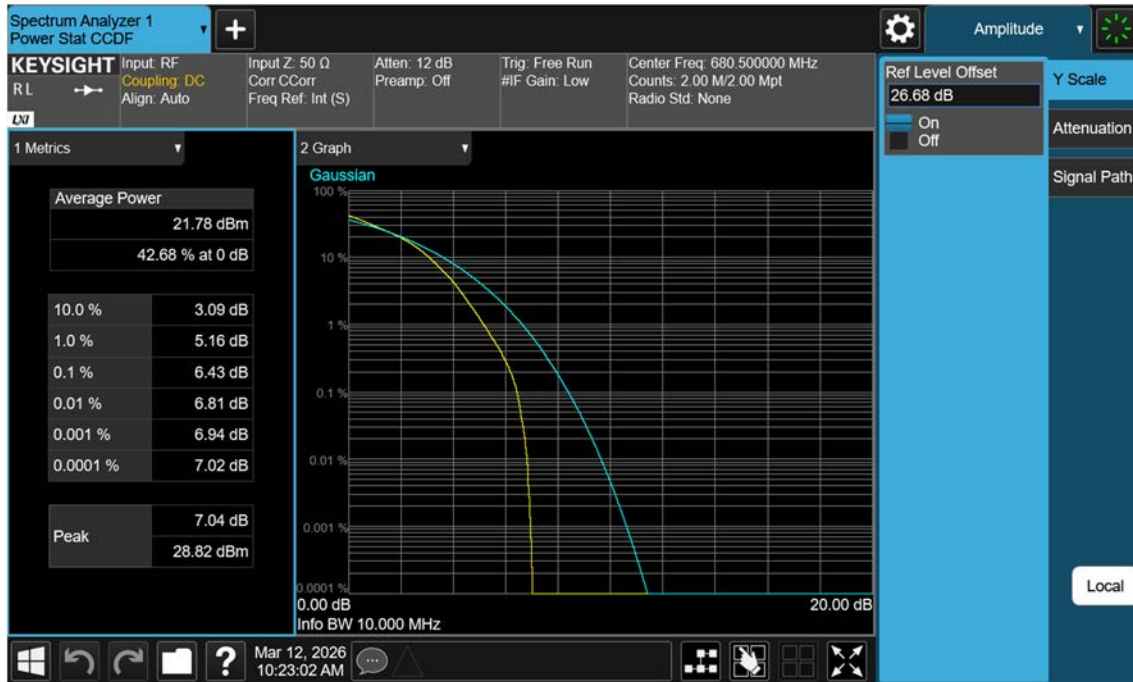
NR n71_10 M_PAR_Mid_PI/2 BPSK_FullRB



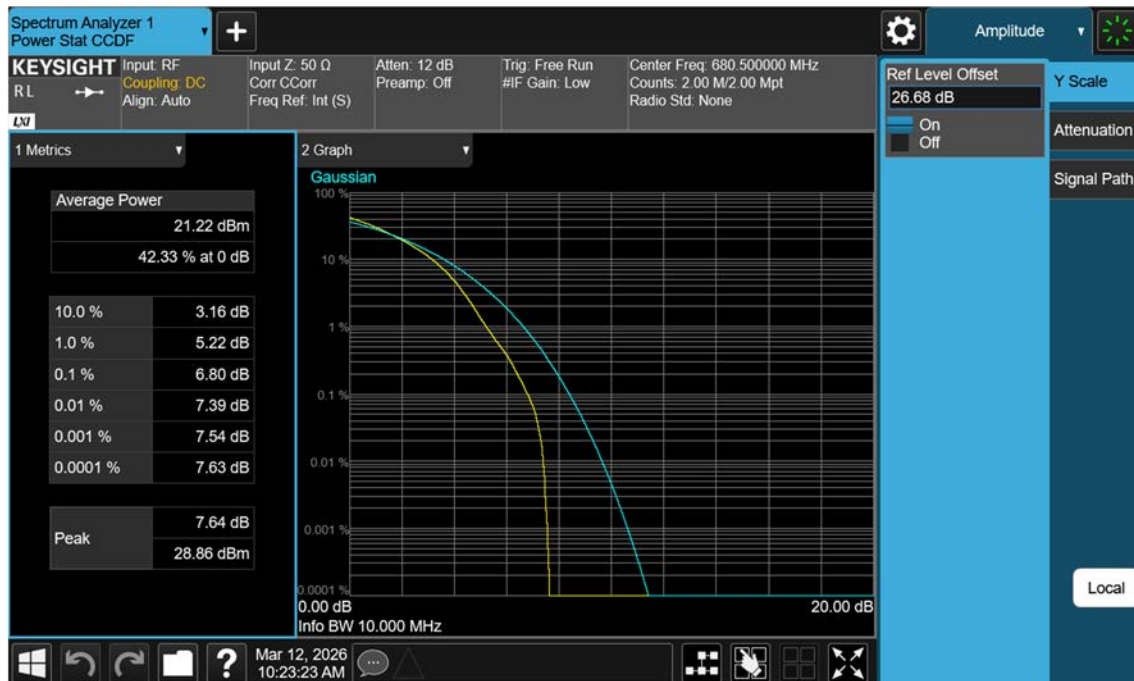
NR n71_10 M_PAR_Mid_QPSK_FullRB



NR n71_10 M_PAR_Mid_16QAM_FullRB



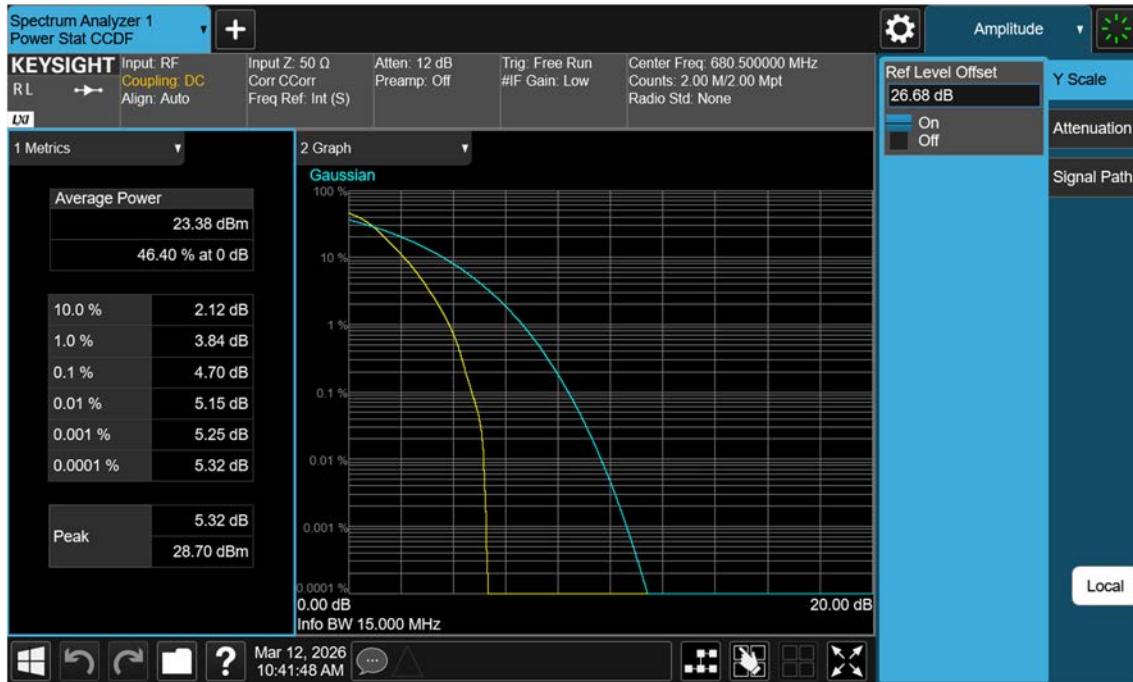
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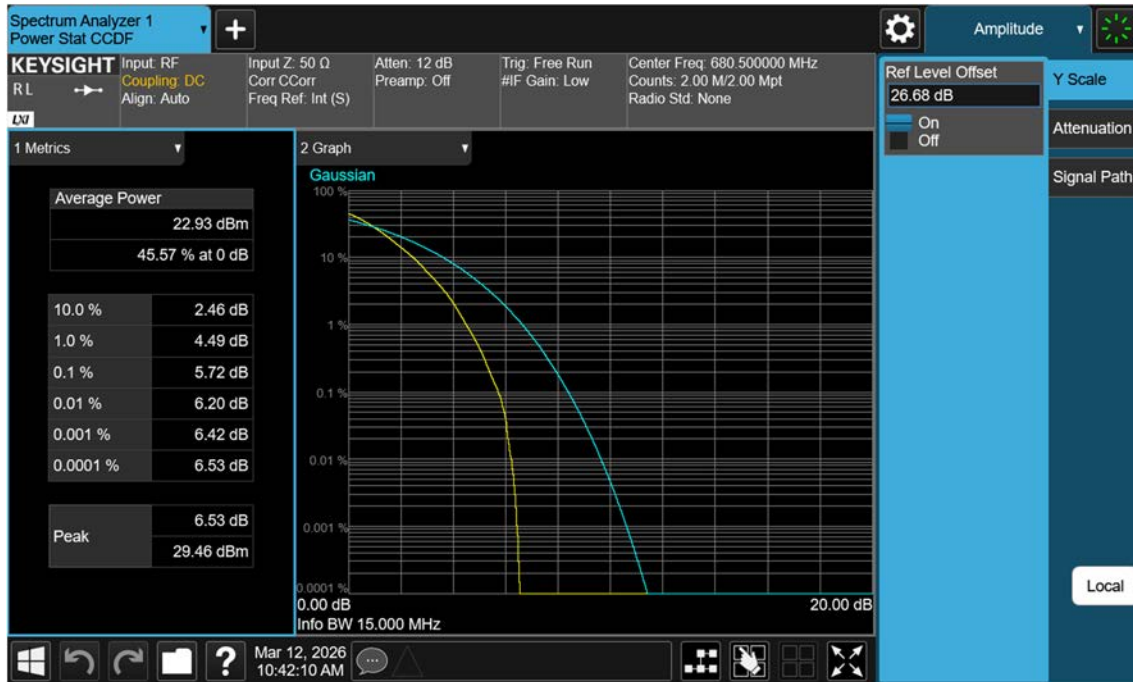
NR n71_10 M_PAR_Mid_256QAM_FullIRB



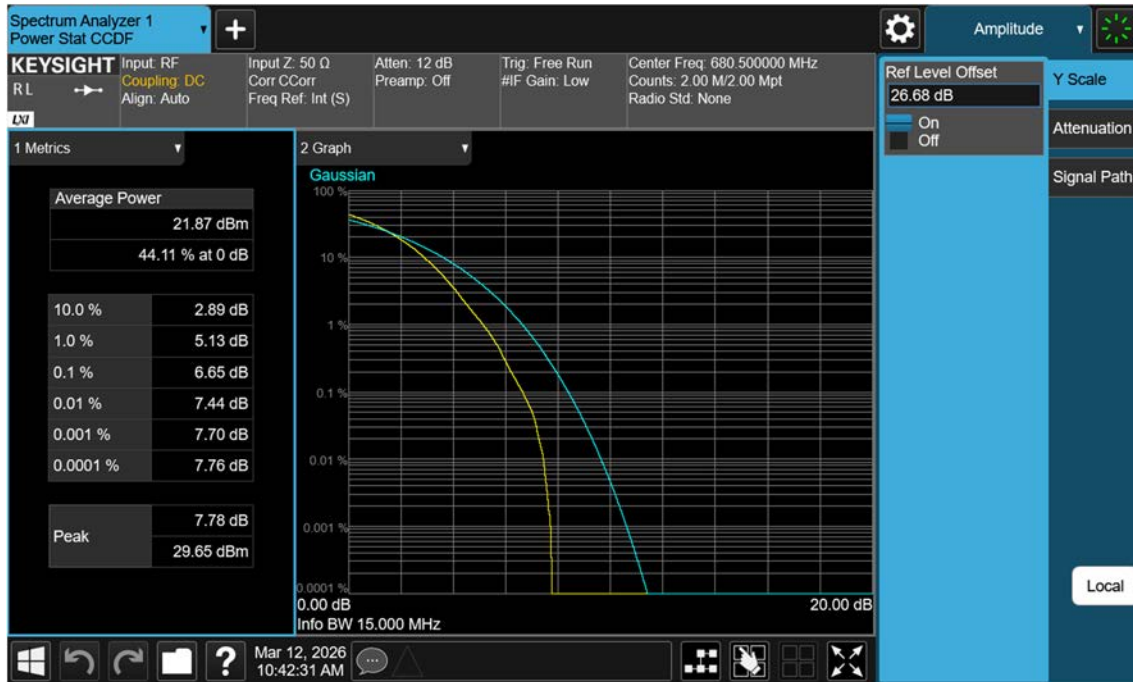
NR n71_15 M_PAR_Mid_PI/2 BPSK_FullRB



NR n71_15 M_PAR_Mid_QPSK_FullRB



NR n71_15 M_PAR_Mid_16QAM_FullRB



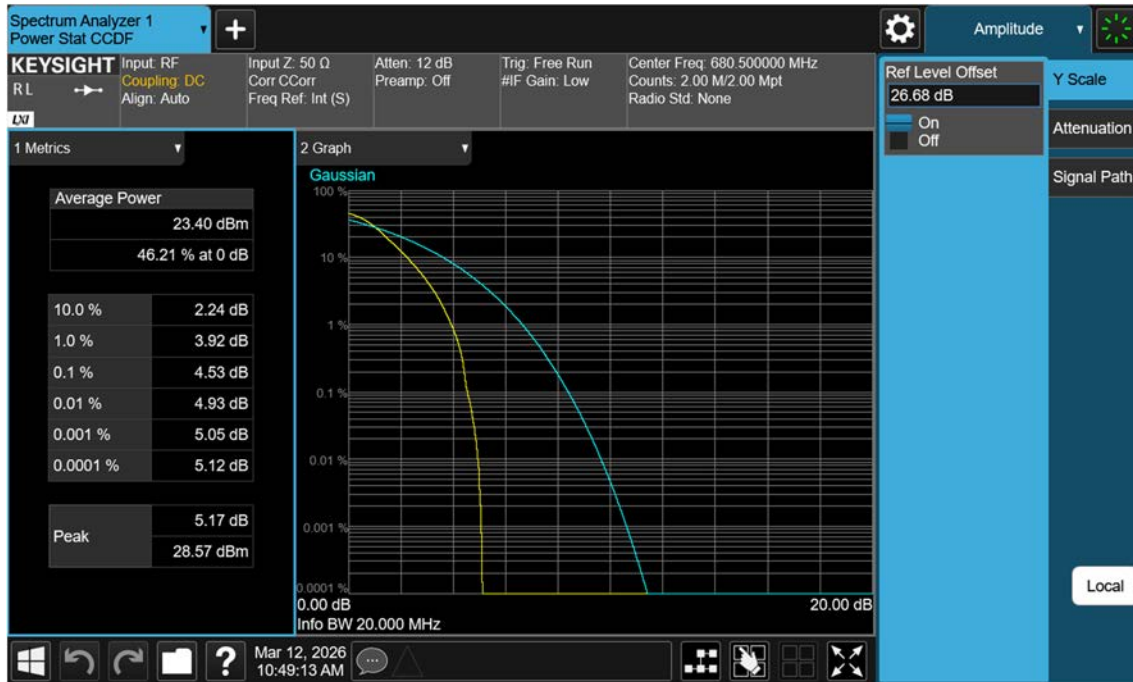
NR n71_15 M_PAR_Mid_64QAM_FullRB



NR n71_15 M_PAR_Mid_256QAM_FullIRB



NR n71_20 M_PAR_Mid_PI/2 BPSK_FullRB



NR n71_20 M_PAR_Mid_QPSK_FullRB



NR n71_20 M_PAR_Mid_16QAM_FullRB



NR n71_20 M_PAR_Mid_64QAM_FullRB



NR n71_20 M_PAR_Mid_256QAM_FullIRB

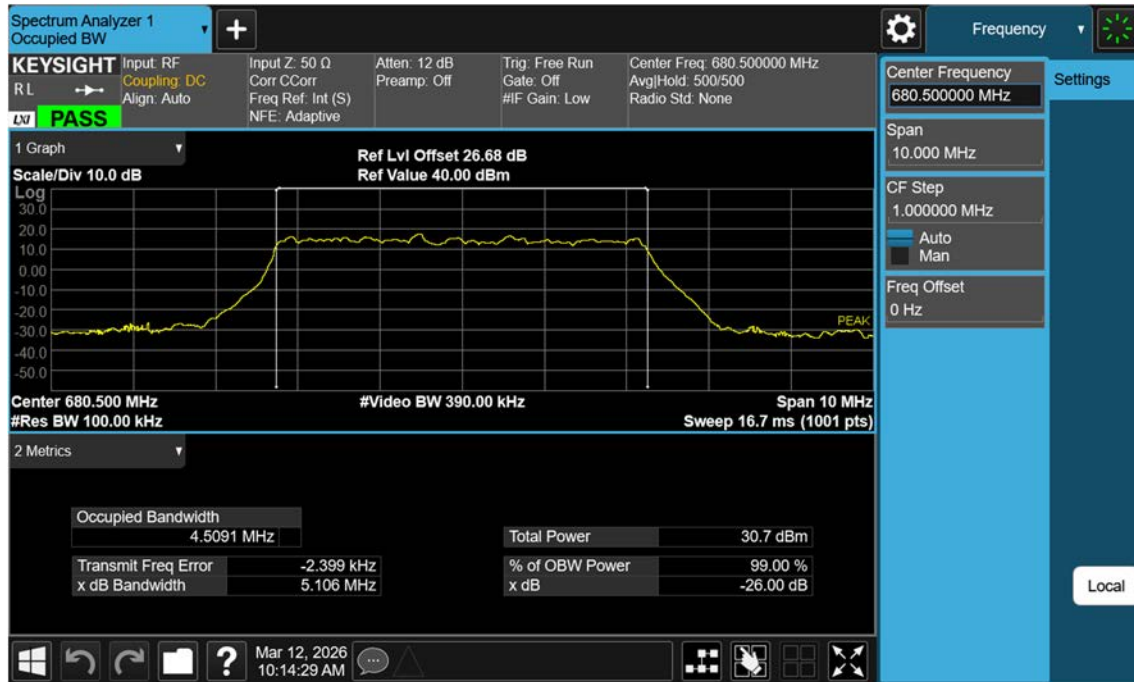


9.2 OCCUPIED BANDWIDTH

NR n71_5 M_OBW_Mid_PI/2 BPSK_FullRB



NR n71_5 M_OBW_Mid_QPSK_FullRB



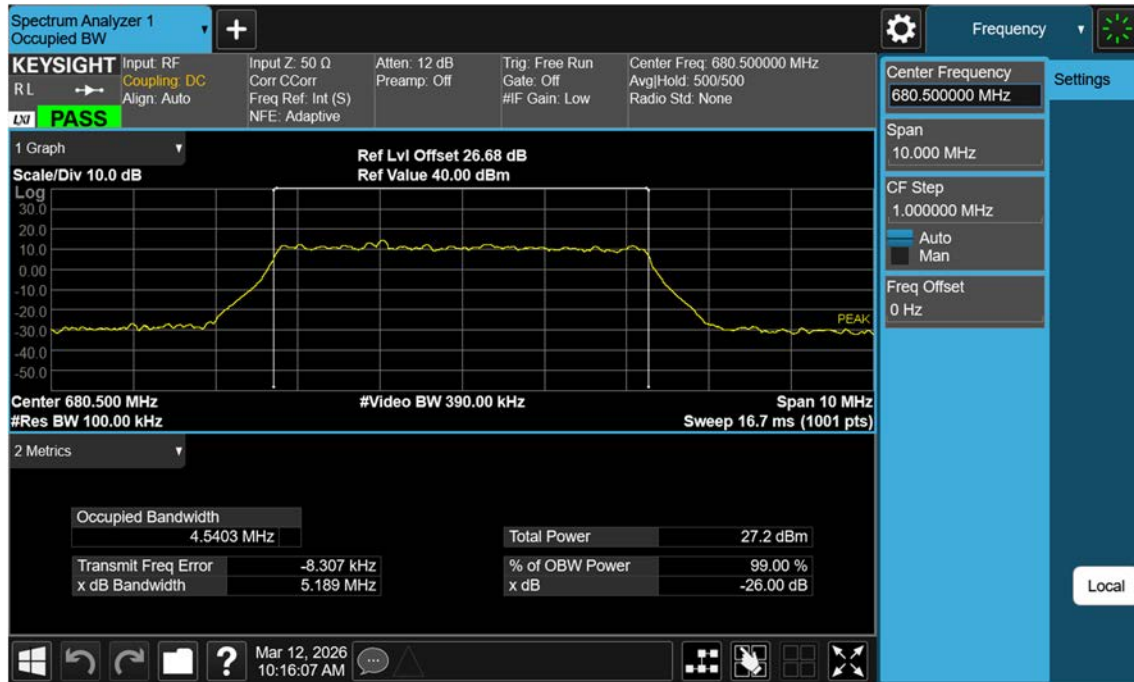
NR n71_5 M_OBW_Mid_16QAM_FullRB



NR n71_5 M_OBW_Mid_64QAM_FullRB



NR n71_5 M_OBW_Mid_256QAM_FullRB



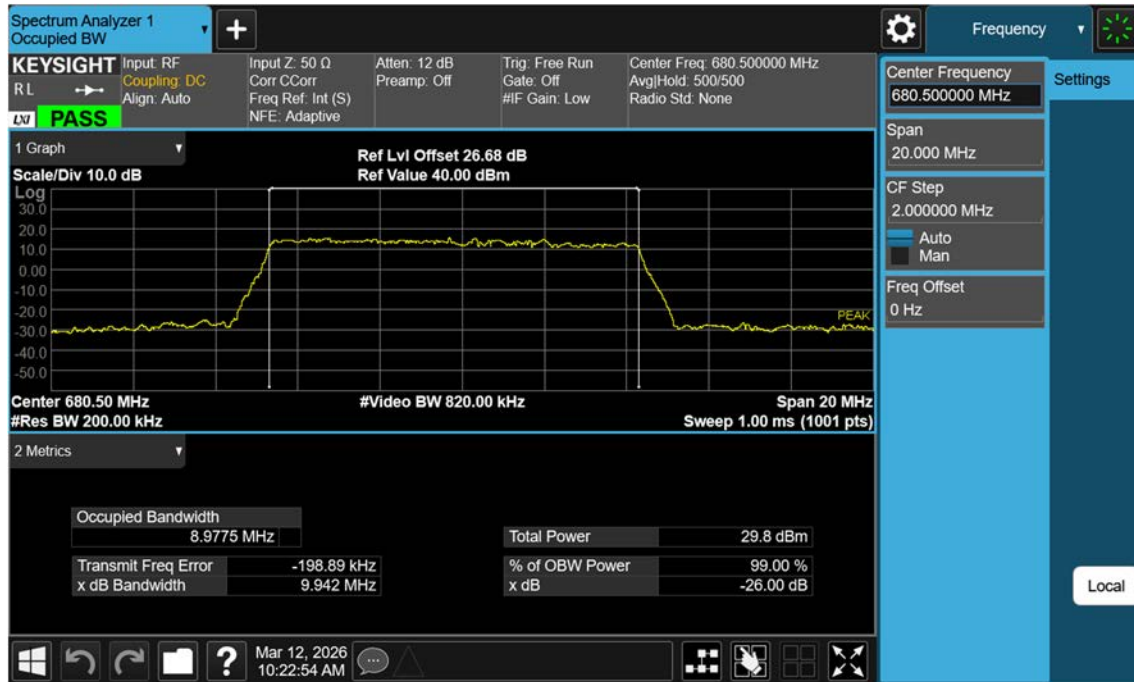
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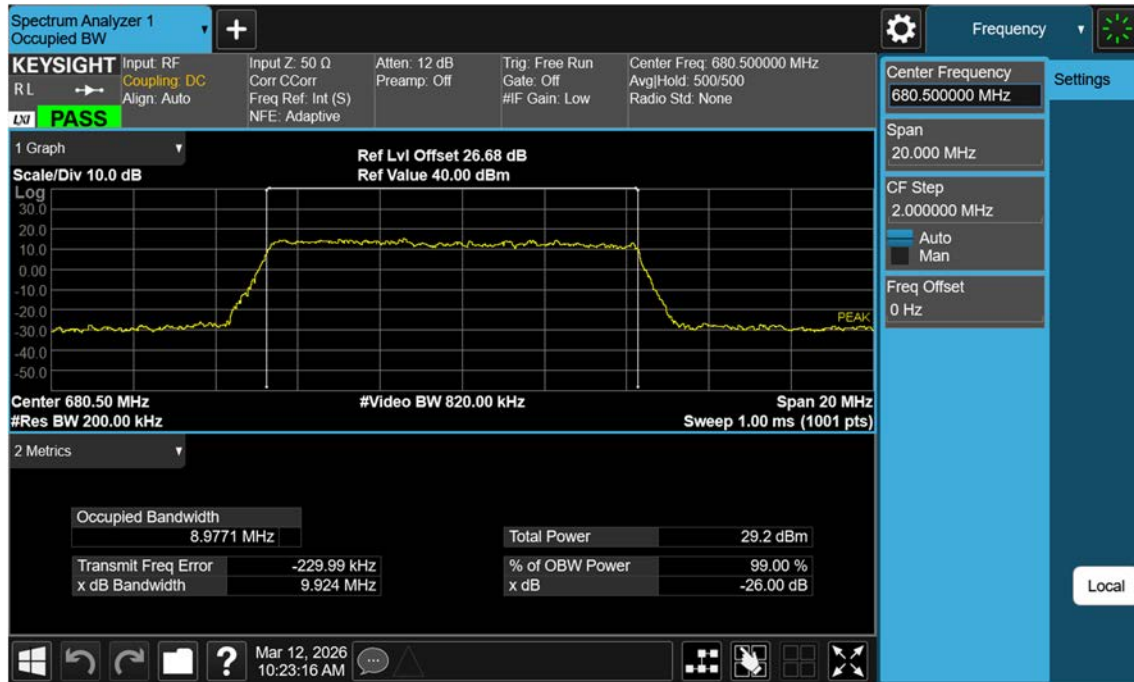
NR n71_10 M_OBW_Mid_QPSK_FullRB



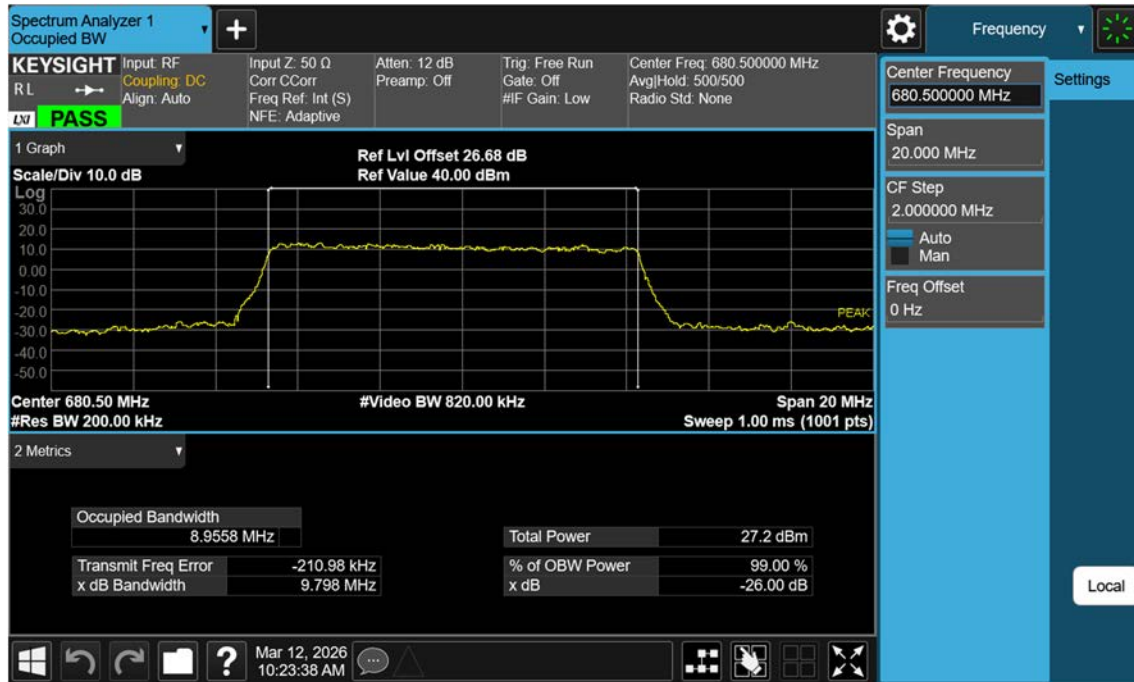
NR n71_10 M_OBW_Mid_16QAM_FullRB



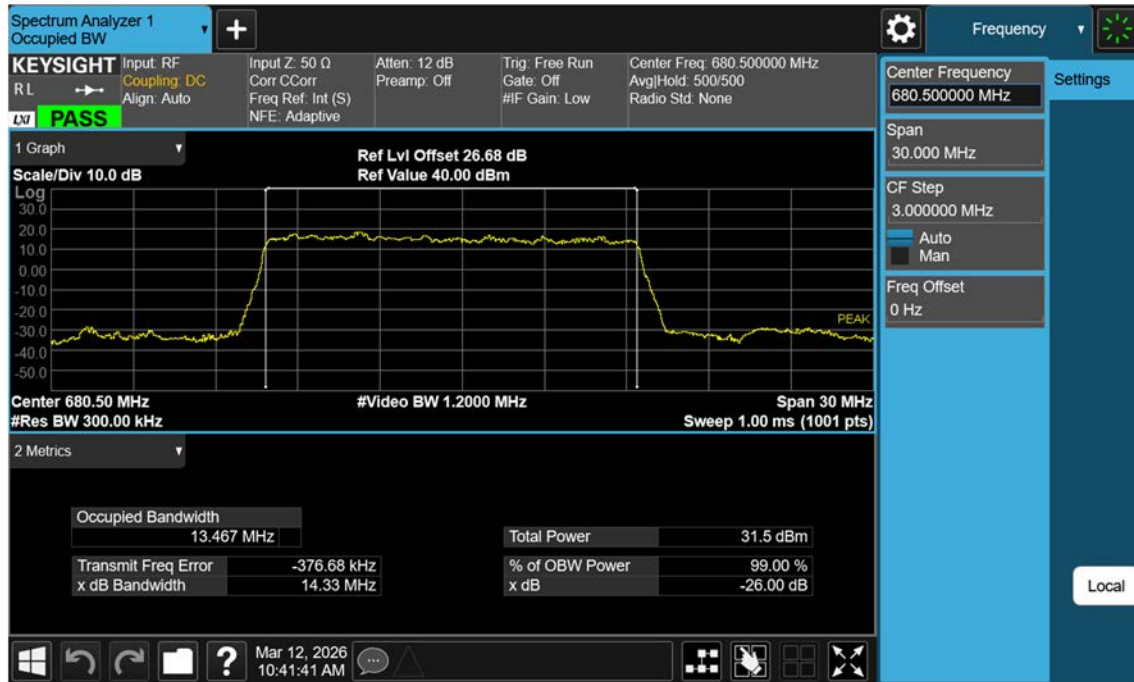
NR n71_10 M_OBW_Mid_64QAM_FullRB



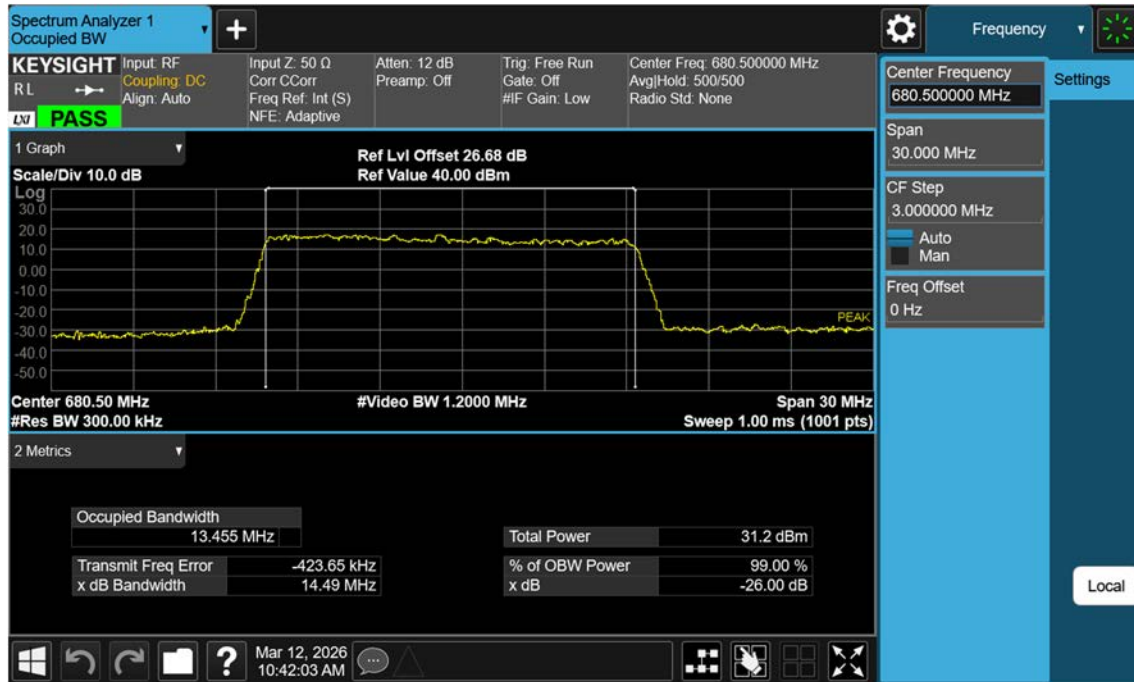
NR n71_10 M_OBW_Mid_256QAM_FullRB



NR n71_15 M_OBW_Mid_PI/2 BPSK_FullRB



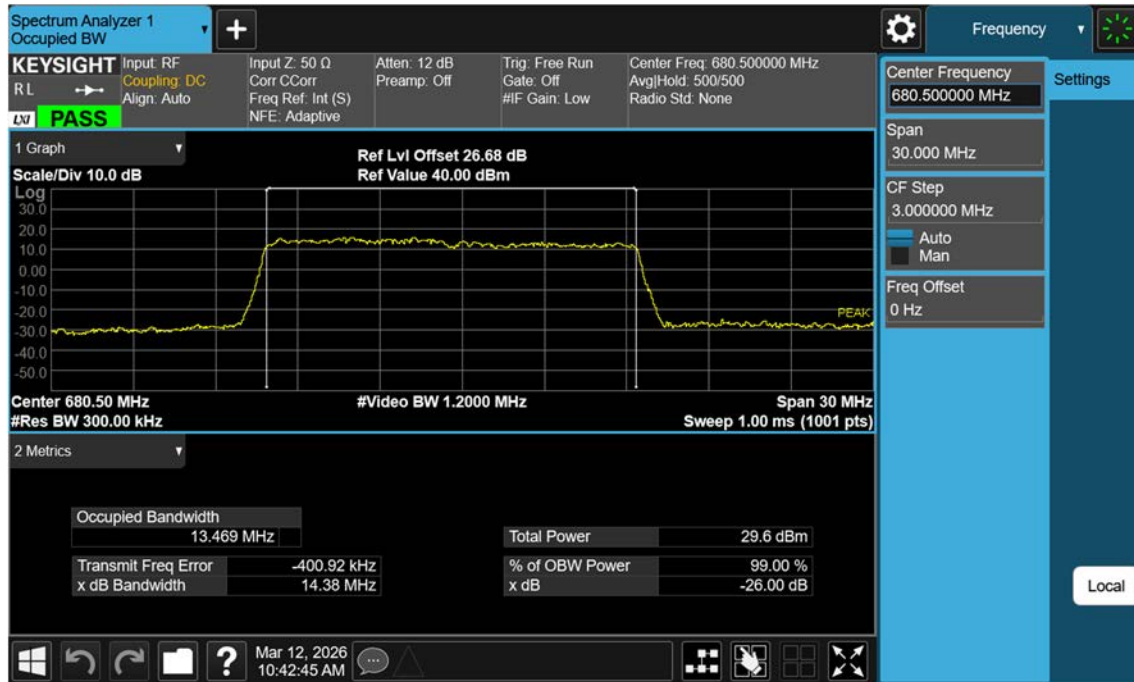
NR n71_15 M_OBW_Mid_QPSK_FullRB



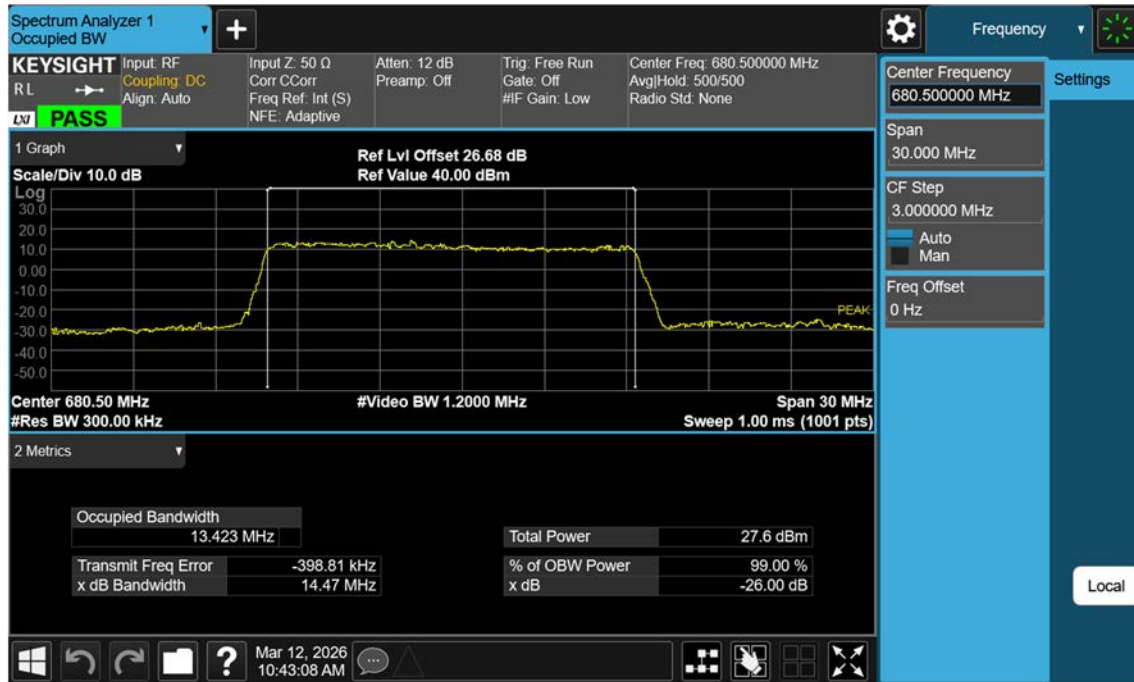
NR n71_15 M_OBW_Mid_16QAM_FullRB



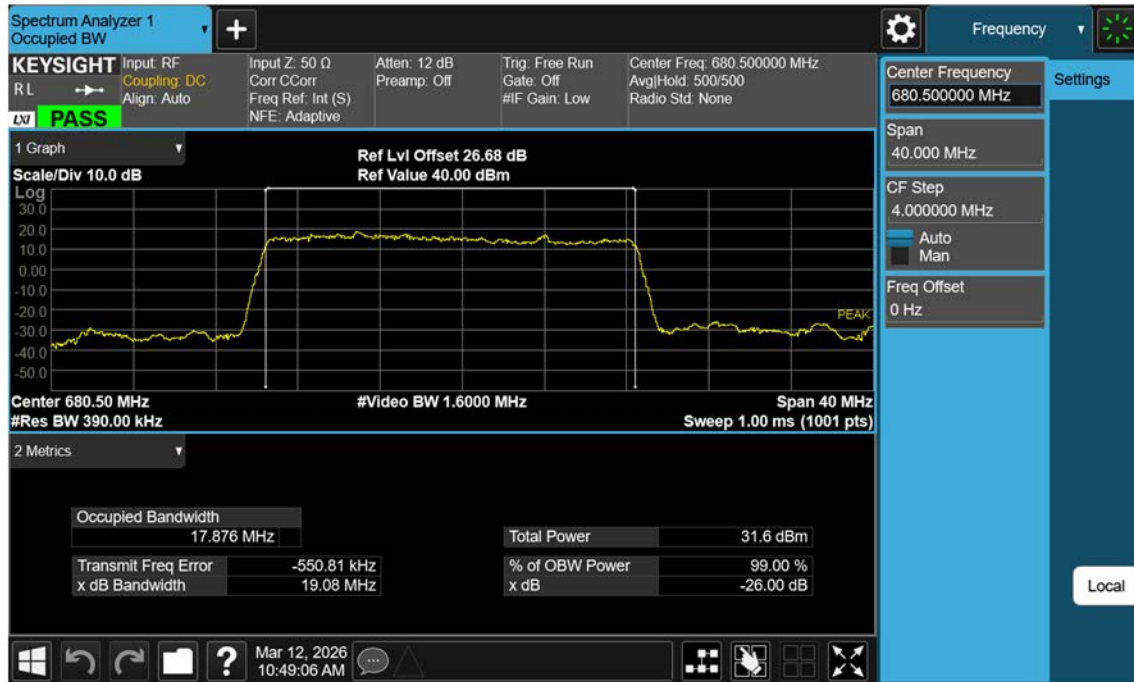
NR n71_15 M_OBW_Mid_64QAM_FullRB



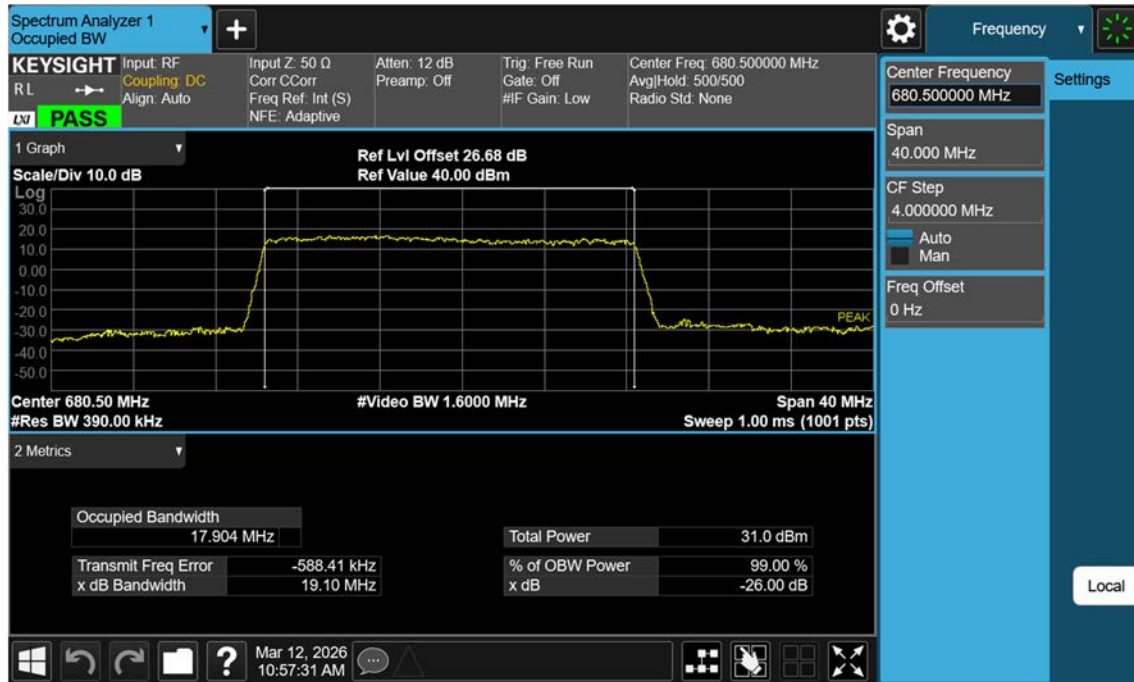
NR n71_15 M_OBW_Mid_256QAM_FullRB



NR n71_20 M_OBW_Mid_PI/2 BPSK_FullRB



NR n71_20 M_OBW_Mid_QPSK_FullRB



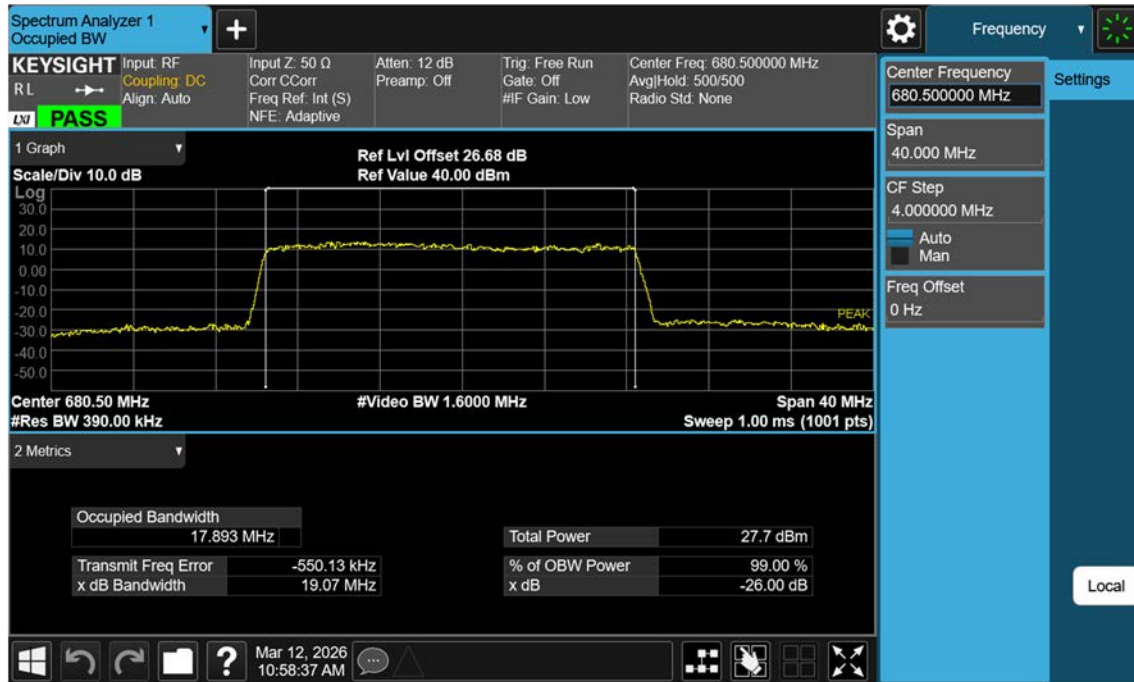
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NR n71_20 M_OBW_Mid_64QAM_FullRB

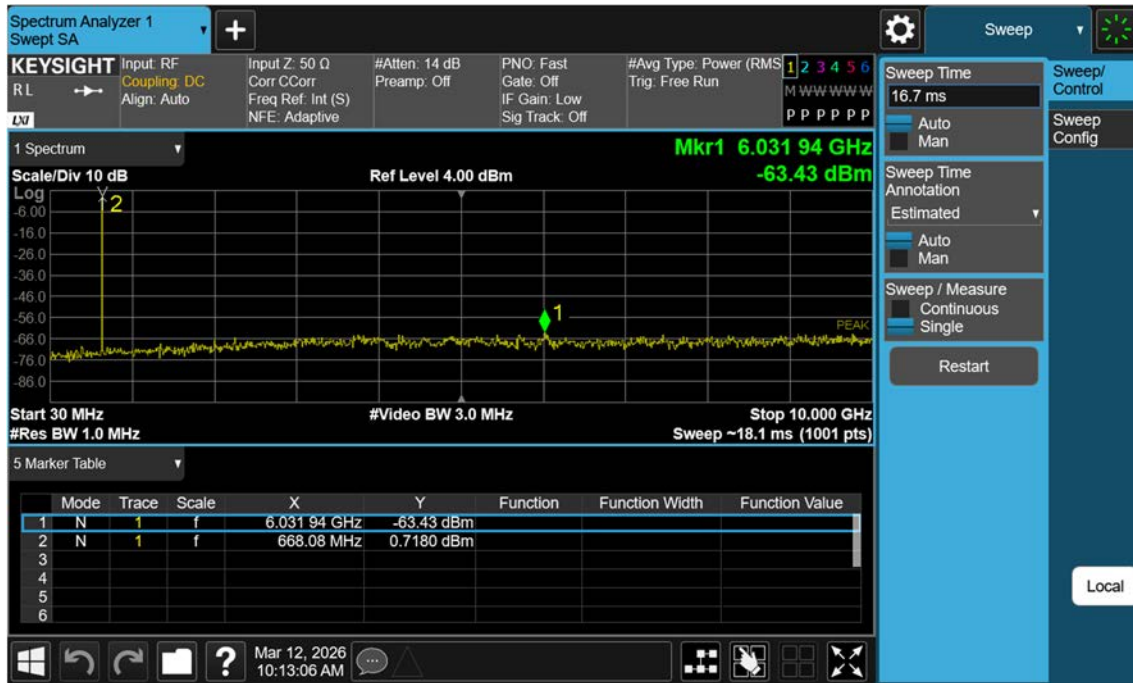


NR n71_20 M_OBW_Mid_256QAM_FullRB

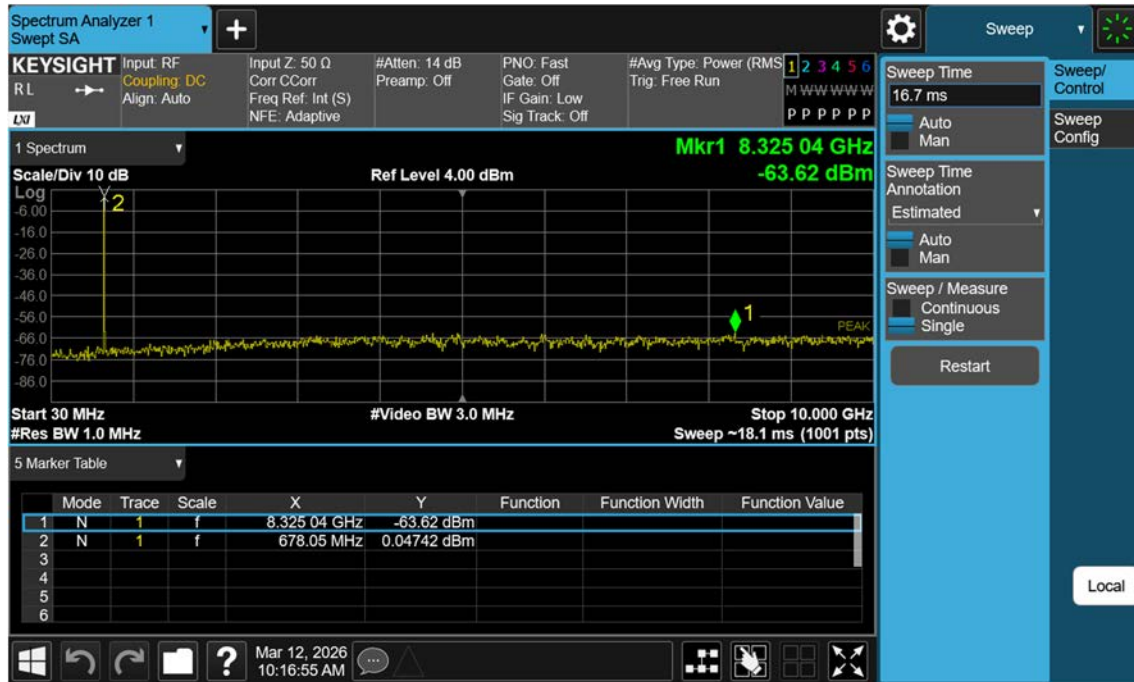


9.3 CONDUCTED SPURIOUS EMISSIONS

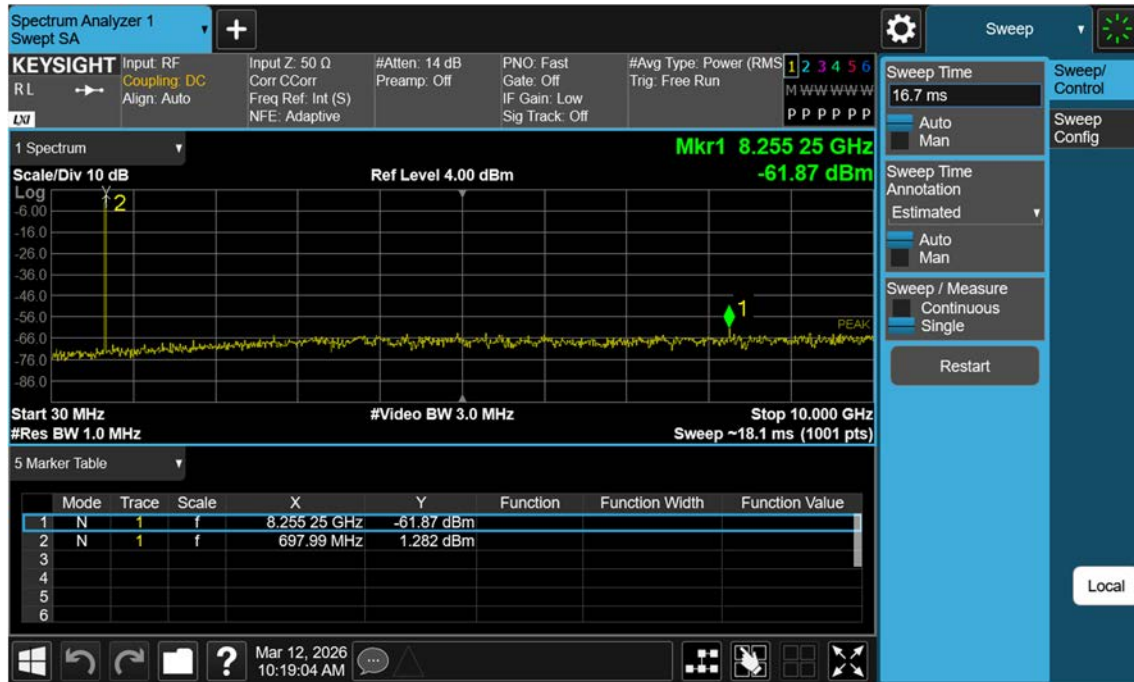
NR n71_5 M_Conducted Spurious Emissions(30 M-10 G)_Low_PI/2 BPSK_1RB



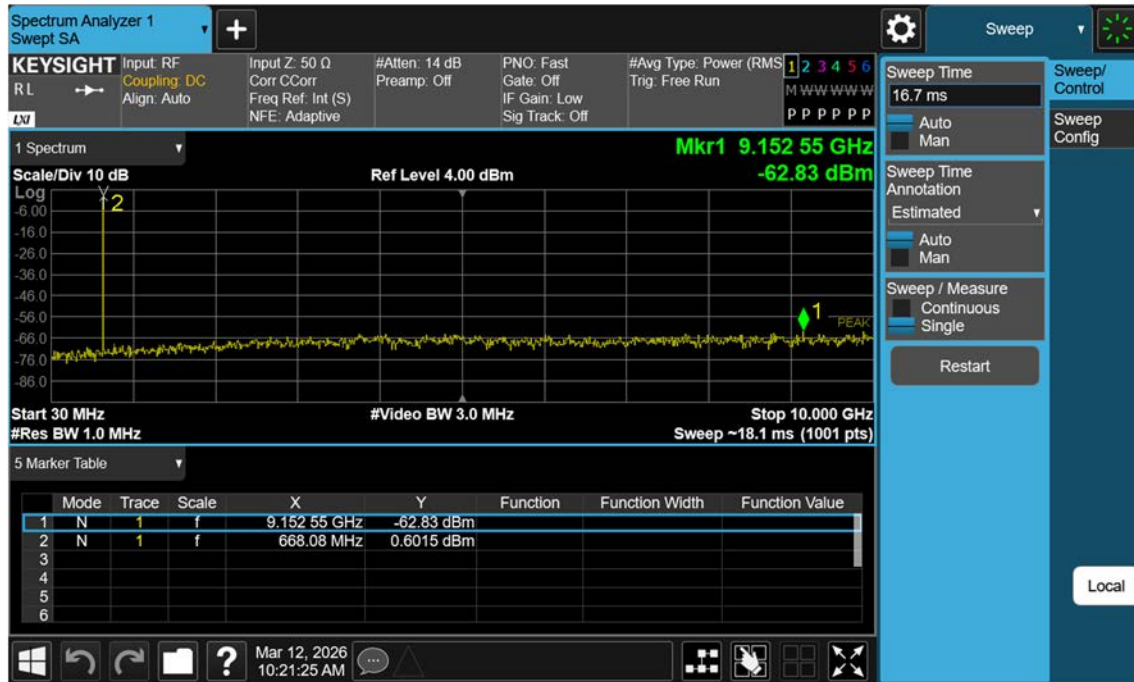
NR n71_5 M_Conducted Spurious Emissions(30 M-10 G)_Mid_PI/2 BPSK_1RB



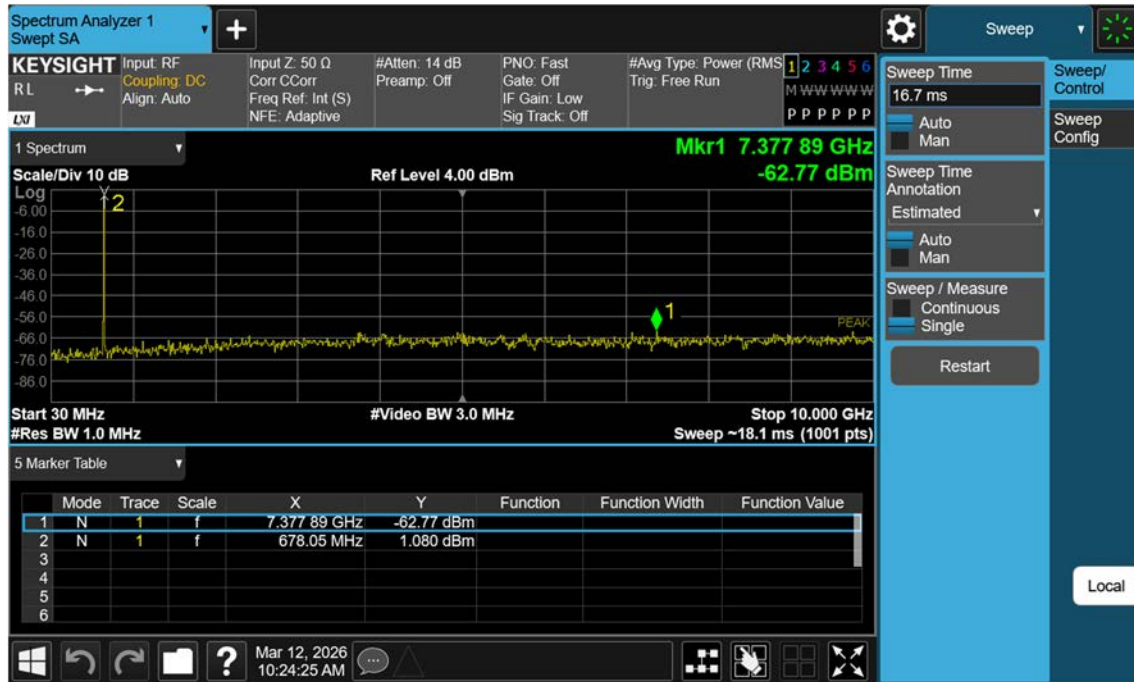
NR n71_5 M_Conducted Spurious Emissions(30 M-10 G)_High_PI/2 BPSK_1RB



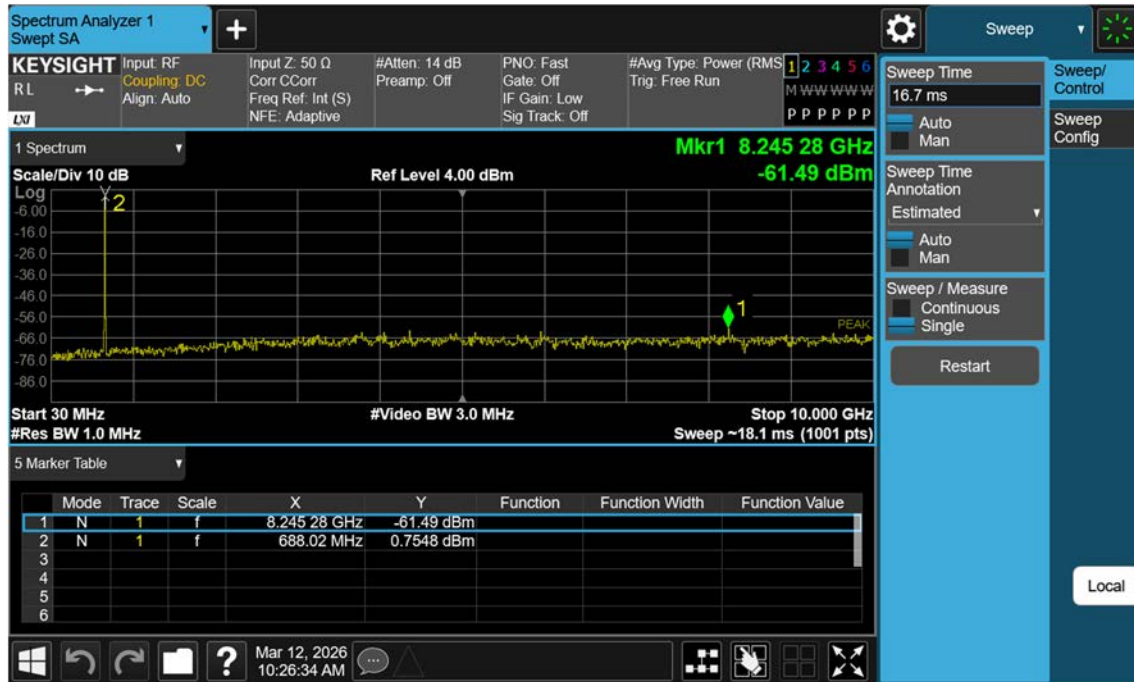
NR n71_10 M_Conducted Spurious Emissions(30 M-10 G)_Low_PI/2 BPSK_1RB



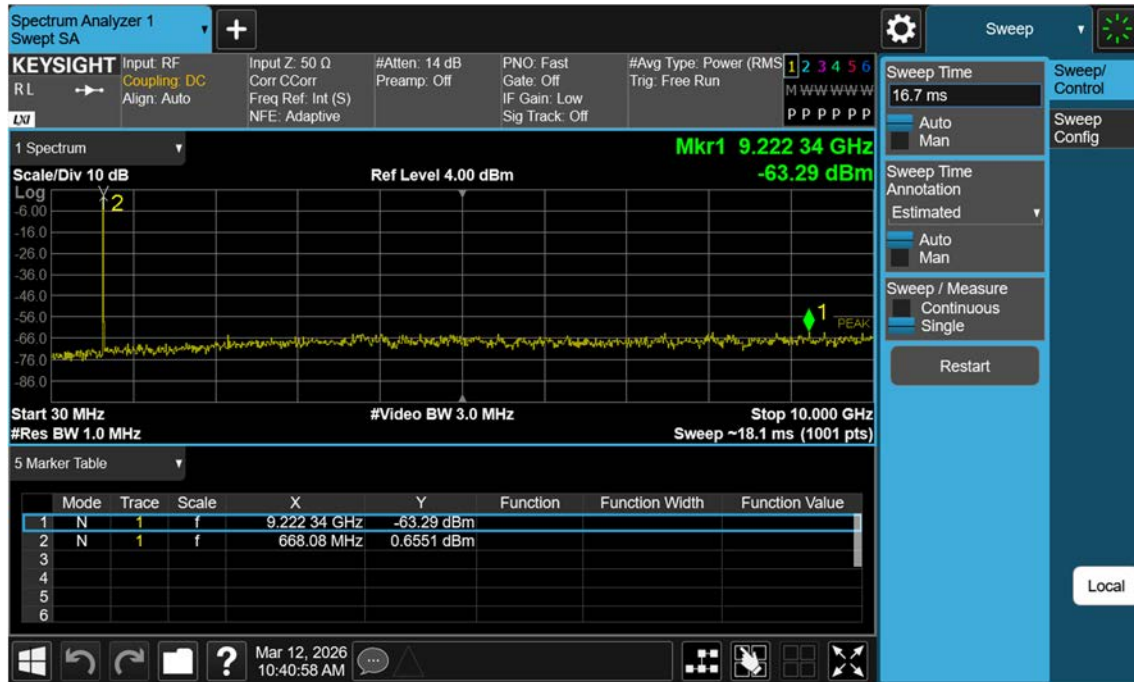
NR n71_10 M_Conducted Spurious Emissions(30 M-10 G)_Mid_PI/2 BPSK_1RB



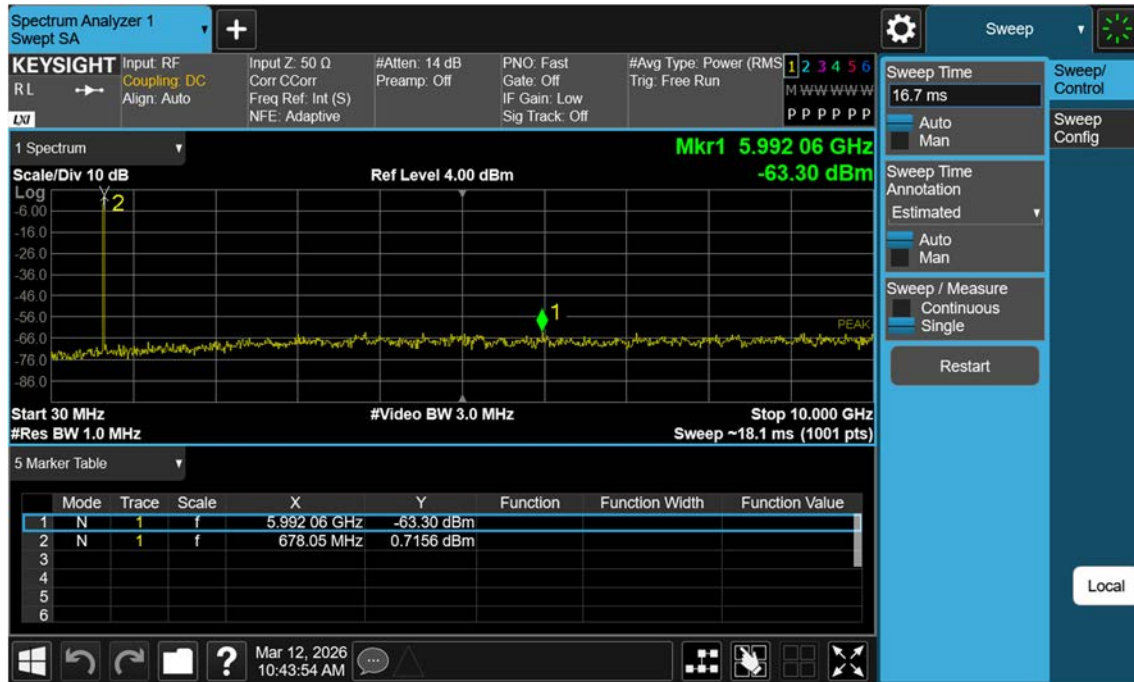
NR n71_10 M_Conducted Spurious Emissions(30 M-10 G)_High_PI/2 BPSK_1RB



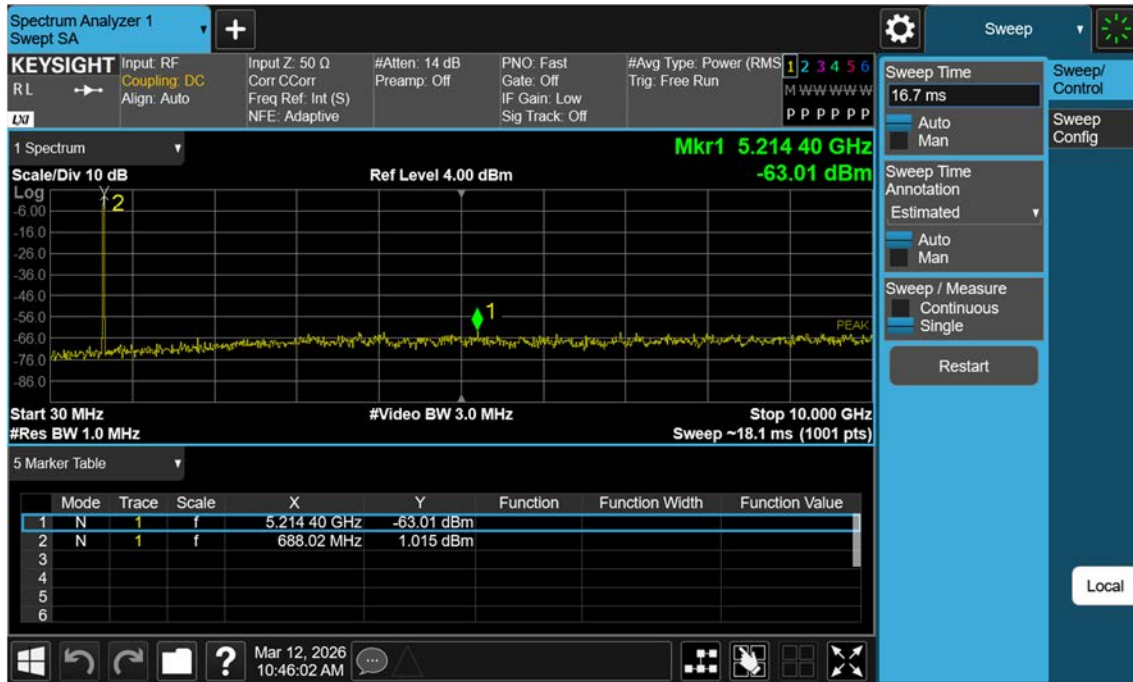
NR n71_15 M_Conducted Spurious Emissions(30 M-10 G)_Low_PI/2 BPSK_1RB



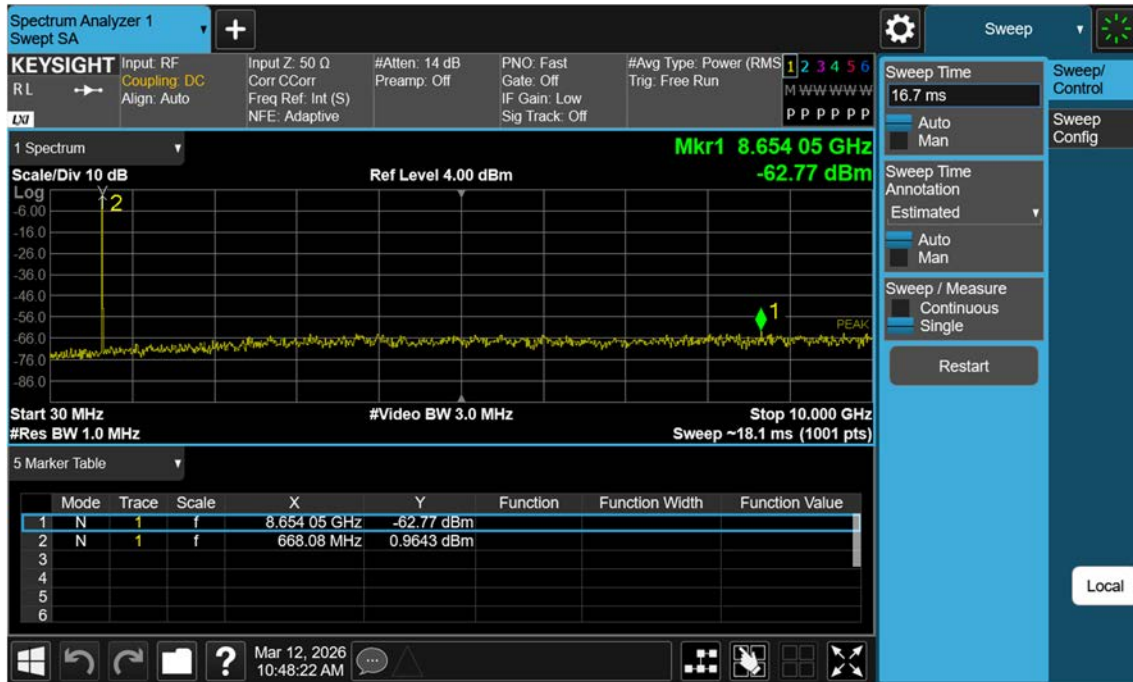
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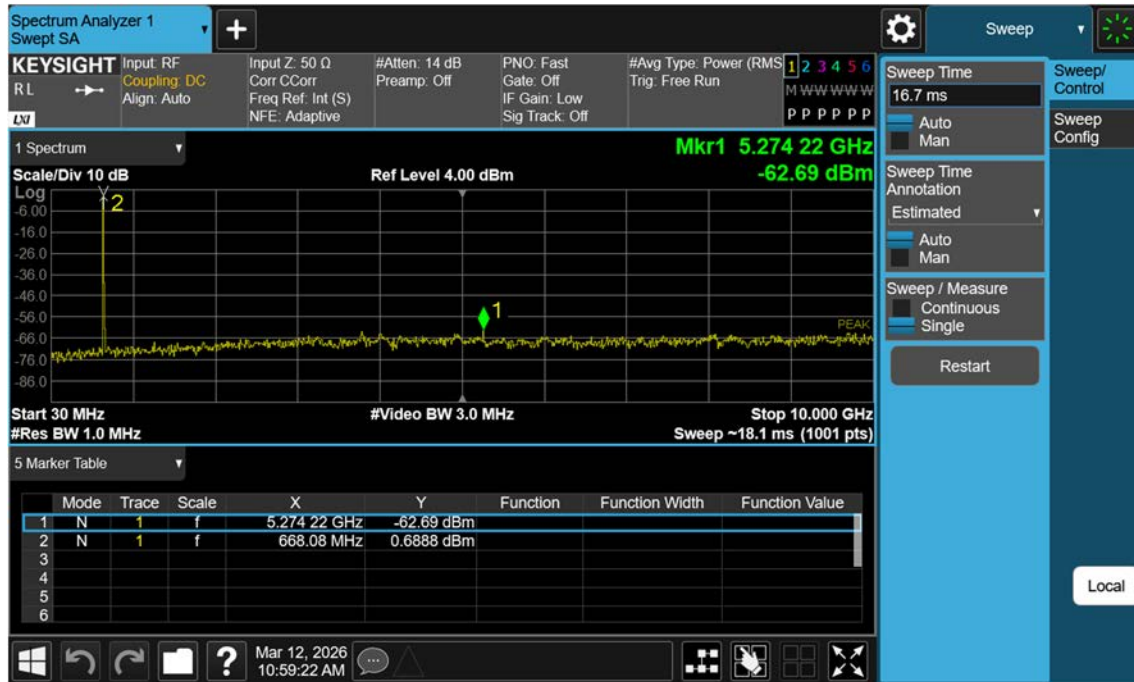
NR n71_15 M_Conducted Spurious Emissions(30 M-10 G)_High_PI/2 BPSK_1RB



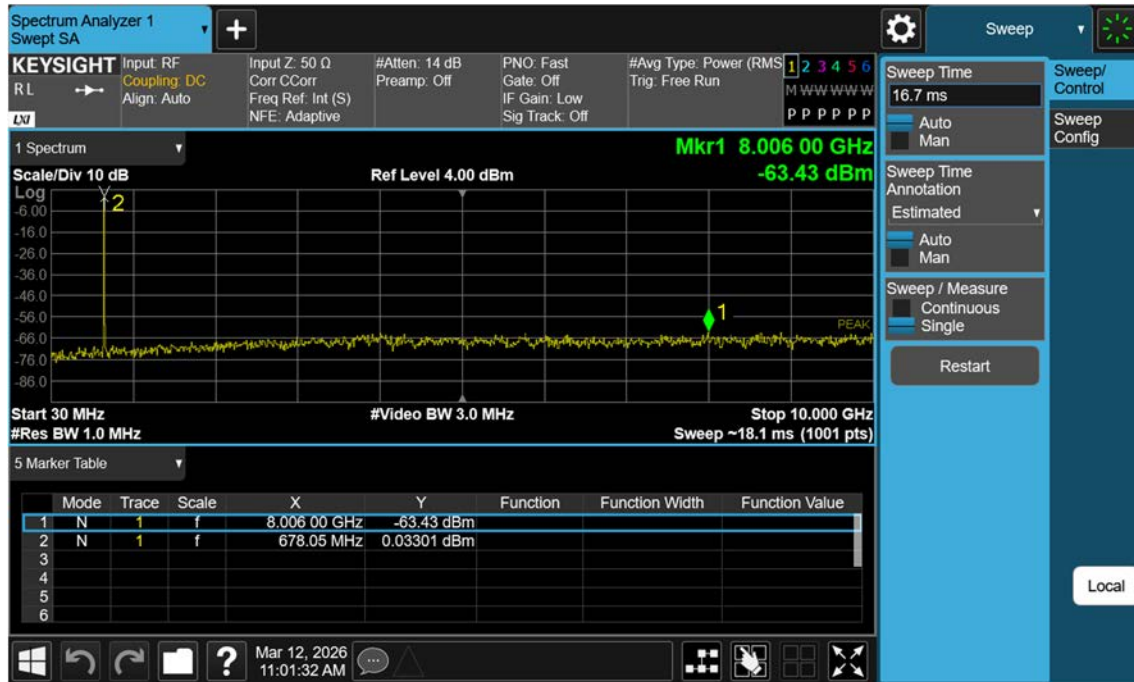
NR n71_20 M_Conducted Spurious Emissions(30 M-10 G)_Low_PI/2 BPSK_1RB



NR n71_20 M_Conducted Spurious Emissions(30 M-10 G)_Mid_PI/2 BPSK_1RB



NR n71_20 M_Conducted Spurious Emissions(30 M-10 G)_High_PI/2 BPSK_1RB



9.4 BAND EDGE

NR n71_5 M_Band Edge_Low_PI/2 BPSK_1RB(1)



NR n71_5 M_Band Edge_Low_PI/2 BPSK_1RB(2)



NR n71_5 M_Band Edge_Low_PI/2 BPSK_FullRB



NR n71_5 M_Extended Band Edge_Low_PI/2 BPSK_FullIRB



NR n71_5 M_Band Edge_High_PI/2 BPSK_1RB(1)



NR n71_5 M_Band Edge_High_PI/2 BPSK_1RB(2)



NR n71_5 M_Band Edge_High_PI/2 BPSK_FullRB



NR n71_5 M_Extended Band Edge_High_PI/2 BPSK_FullIRB



NR n71_10 M_Band Edge_Low_PI/2 BPSK_1RB(1)



NR n71_10 M_Band Edge_Low_PI/2 BPSK_1RB(2)



NR n71_10 M_Band Edge_Low_PI/2 BPSK_FullRB



NR n71_10 M_Extended Band Edge_Low_PI/2 BPSK_FullRB



NR n71_10 M_Band Edge_High_PI/2 BPSK_1RB(1)



NR n71_10 M_Band Edge_High_PI/2 BPSK_1RB(2)



NR n71_10 M_Band Edge_High_PI/2 BPSK_FullRB



NR n71_10 M_Extended Band Edge_High_PI/2 BPSK_FullRB



NR n71_15 M_Band Edge_Low_PI/2 BPSK_1RB(1)



NR n71_15 M_Band Edge_Low_PI/2 BPSK_1RB(2)



NR n71_15 M_Band Edge_Low_PI/2 BPSK_FullRB



NR n71_15 M_Extended Band Edge_Low_PI/2 BPSK_FullRB



NR n71_15 M_Band Edge_High_PI/2 BPSK_1RB(1)



NR n71_15 M_Band Edge_High_PI/2 BPSK_1RB(2)



NR n71_15 M_Band Edge_High_PI/2 BPSK_FullRB

