Testing and Certification

TEST REPORT

FCC Sub6 n48 Test for SM-F741U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2404-FC033-R1

DATE OF ISSUE
May 3, 2024

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TEST REPORT

REPORT NO.
HCT-RF-2404-FC033-R1

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May 03, 2024

Additional Model
SM-F741U1

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-F741U
Date of Test	February 27, 2024 ~ April 22, 2024
FCC ID	A3LSMF741U
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 Republic of Korea)
FCC Classification:	Citizens Band End User Devices (CBE)
FCC Rule Part(s):	§ 96

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 26, 2024	Initial Release
1	May 03, 2024	Revised the date of test (Page 2.)

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). 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:	A3LSMF741U
Application Type:	Certification
FCC Classification:	Citizens Band End User Devices (CBE)
FCC Rule Part(s):	§ 96
EUT Type:	Mobile phone
Model(s):	SM-F741U
Additional Model(s)	SM-F741U1
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 30, 40
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:	3555.00 – 3694.98 : (Sub6 n48(10 MHz)) 3557.52 – 3692.49 : (Sub6 n48(15 MHz)) 3560.01 – 3690.00 : (Sub6 n48(20 MHz)) 3565.02 – 3684.99 : (Sub6 n48(30 MHz)) 3570.00 – 3679.98 : (Sub6 n48(40 MHz))
Date(s) of Tests:	February 27, 2024 ~ April 22, 2024
Serial number:	Radiated : R3CX20KJSJW Conducted : R3CX20KK2GZ CBSD Protocol : R3CX20KJSJW

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W/10 MHz)	Max. Power (dBm/10 MHz)
Sub6 n48 (10)	3555.00 – 3694.98	8M68G7D	PI/2 BPSK	0.135	21.30
		8M64G7D	QPSK	0.134	21.26
		8M64W7D	16QAM	0.106	20.27
		8M65W7D	64QAM	0.075	18.75
		8M64W7D	256QAM	0.046	16.64
Sub6 n48 (15)	3557.52 – 3692.49	13M0G7D	PI/2 BPSK	0.139	21.44
		13M0G7D	QPSK	0.138	21.40
		12M9W7D	16QAM	0.111	20.45
		12M9W7D	64QAM	0.077	18.84
		13M0W7D	256QAM	0.048	16.85
Sub6 n48 (20)	3560.01 – 3690.00	17M9G7D	PI/2 BPSK	0.139	21.44
		18M0G7D	QPSK	0.135	21.30
		18M0W7D	16QAM	0.107	20.30
		17M9W7D	64QAM	0.078	18.92
		17M9W7D	256QAM	0.046	16.63
Sub6 n48 (30)	3565.02 – 3684.99	27M0G7D	PI/2 BPSK	0.141	21.49
		26M9G7D	QPSK	0.138	21.40
		27M0W7D	16QAM	0.114	20.57
		26M9W7D	64QAM	0.079	18.99
		26M9W7D	256QAM	0.048	16.82
Sub6 n48 (40)	3570.00 – 3679.98	35M9G7D	PI/2 BPSK	0.141	21.50
		35M9G7D	QPSK	0.137	21.35
		35M9W7D	16QAM	0.110	20.41
		35M8W7D	64QAM	0.078	18.90
		35M8W7D	256QAM	0.047	16.70

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub 6, mmWave.
It also supports IEEE 802.11 a/b/g/n/ac/ax (20/40/80/160 MHz), Bluetooth(iPA, ePA), BT LE(iPA, ePA), NFC, WPT, WIFI 6E.

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, 17383, Rep. 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 - KDB 940660 D01 v01
Channel Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7 - KDB 940660 D01 v01
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7 - KDB 940660 D01 v01
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 - KDB 940660 D01 v01
Frequency stability	- ANSI C63.26-2015 – Section 5.6 - KDB 940660 D01 v01
Effective Radiated Power/ Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17 - KDB 940660 D01 v01
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12 - KDB 940660 D01 v01
End User Device Additional Requirement (CBSD Protocol)	- KDB 940660 D01 v01 - WINNF-18-IN-00178 v1.0.0.00

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 in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

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 ≥ 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;

$$P_{d\ (dBm)} = Pg_{\ (dBm)} - \text{cable loss}_{\ (dB)} + \text{antenna gain}_{\ (dB)}$$

   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 according to ANSI/TIA-603-E-2016.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW ≥ 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 10^{th} 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;

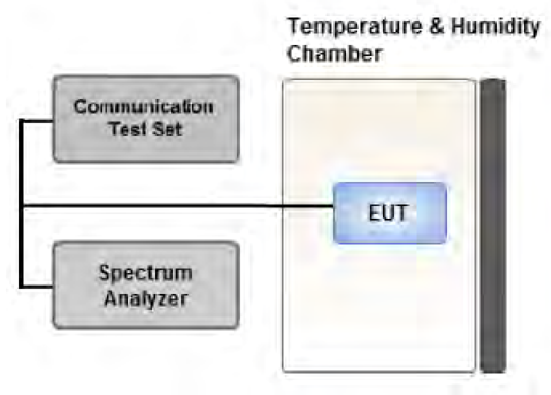
$$\text{Result}_{(dBm)} = \text{Pg}_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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.

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth ≥ 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:

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

Test Settings(Peak Power)

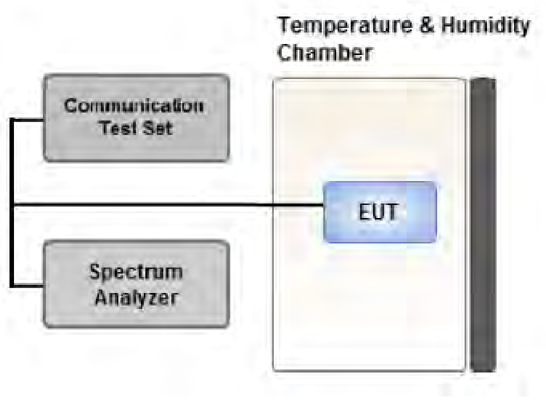
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

1. Set the RBW ≥ OBW.
2. Set VBW ≥ 3 × RBW.
3. Set span ≥ 2 × OBW.
4. Sweep time ≥ 10 × (number of points in sweep) × (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 × to 3 × the OBW.
2. Set RBW ≥ OBW.
3. Set VBW ≥ 3 × RBW.
4. Set number of measurement points in sweep ≥ 2 × span / RBW.
5. Sweep time:
   Set ≥ [10 × (number of points in sweep) × (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/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 dB if the duty cycle is a constant 25 %.

3.5 OCCUPIED BANDWIDTH.



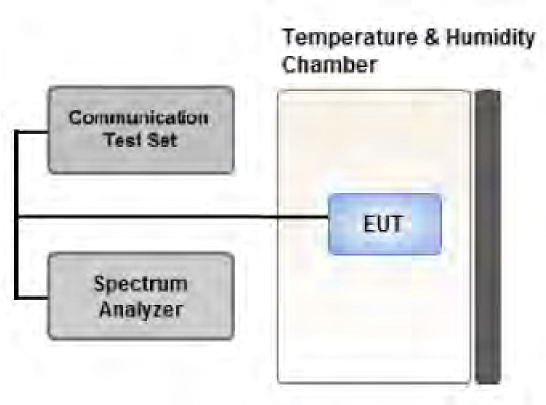
Test setup

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 ≥ 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

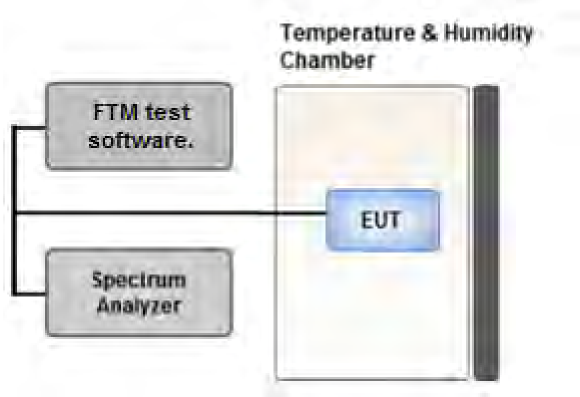
Test Overview

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 ≥ 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

3.7 CHANNEL EDGE



Test setup

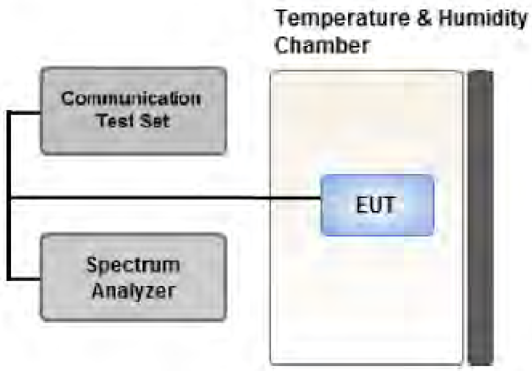
Test Settings
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2% of EBW, then 1 MHz after that.
4. VBW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

Test Notes
The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed −25 dBm/MHz.

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/Mhz

Where Margin < 1 dB the emission level is either corrected by 10 log(1 MHz/ 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 Adjacent Channel Leakage Ratio



Test setup

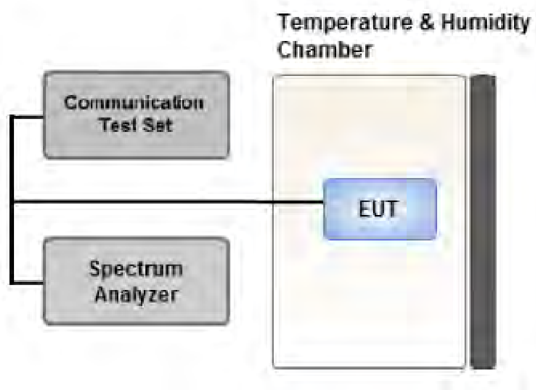
Test Settings

1. Use ACP measurement function of Spectrum analyzer to measure adjacent channel leakage ratio
2. Integral BW = Assigned channel bandwidth
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = 1 s
9. The trace was allowed to stabilize

Test Notes

the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.9 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

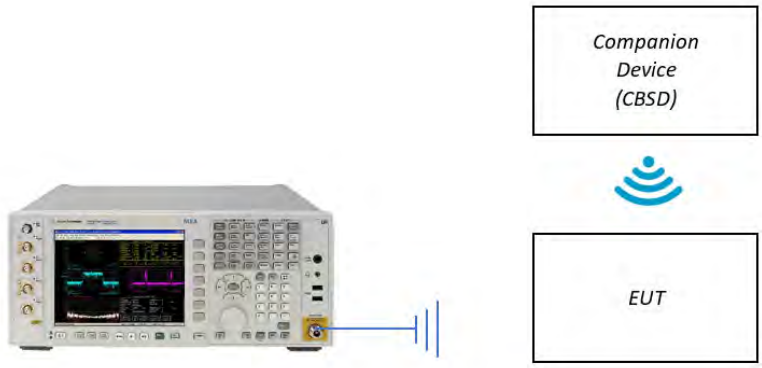
1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).

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.

3.10 End User Device Additional Requirement (CBSD Protocol)



Test setup

Test Overview

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSD (FCC ID: PIDAS2900) as a companion device to show compliance with Part 96.47.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

Test Channel & Power

1. Setup companion device with 3570 MHz - 3590 MHz(BW 20MHz) and power level 5 dBm
2. Setup companion device with 3580 MHz - 3620 MHz(BW 40MHz) and power level 20 dBm

Test Procedure

1. Enable AP service from companion device.
2. EUT is connected to a companion device.
3. Check EUT Tx frequency and power.
4. Disable AP service from companion device and check EUT stop transmission within 10 s.

3.11 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: Open mode)
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode: SA, SRS
  Worst case: SA
  Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
  Worst case : Stand alone
- We were performed the RSE test in condition of co-location.
  Mode : Stand alone, Simultaneous transmission scenarios
  Worst case : Stand alone
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.
- SM-F741U & additional models were tested and the worst case results are reported.
  (Worst case : SM-F741U)

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.1		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, SRS
  Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.
- SM-F741U & additional models were tested and the worst case results are reported.
  (Worst case : SM-F741U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Radio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 30, 40	Mid	Full RB	0
Channel Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		10, 15, 20, 30, 40	Low, Mid, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 30, 40	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	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/16/2025	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/22/2024	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/22/2024	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/22/2024	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/22/2024	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/25/2024	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/04/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/22/2024	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/23/2024	Annual
SIGNAL GENERATOR (100 kHz~40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/24/2024	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/19/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (Confidence level about 95 %, k=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, k=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, k=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, k=2)

6. SUMMARY OF TEST RESULTS

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, § 96.41(e)	■ -13 dBm/Mhz at frequencies within 0-10 MHz of channel edge ■ -25 dBm/MHz at frequencies greater than 10 MHz above and below channel edge ■ -40 dBm/MHz at frequencies below 3530 MHz and above 3720 MHz	PASS
Adjacent Channel Leakage Ratio	§ 96.41(e)	At least 30 dB.	PASS
Conducted Output Power	§ 2.1046	N/A	See Note1
Peak- to- Average Ratio	§ 96.41(g)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055,	Emission must remain in band	PASS

Note:
1. See 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
Equivalent Isotropic Radiated Power	§ 96.41(b)	23 dBm/10 MHz	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 96.41(e)	-40 dBm/MHz	PASS
End User Device Additional Requirements (CBSD Protocol)	§ 96.47	End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.	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

ERP = Substitute LEVEL(dBm) + Ant. Gain – 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

EIRP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW
GSM BW = 249 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W
GSM BW = 249 kHz
G = Phase Modulation
7 = Quantized/Digital Info
W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W
WCDMA BW = 4.17 MHz
F = Frequency Modulation
9 = Composite Digital Info
W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D
LTE BW = 4.48 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D
LTE BW = 4.48 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

8. TEST DATA

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	EIRP	Limit	RB	
								dBm/10 MHz		Size	Size
3555.00	Sub6 n48/ 10 MHz [30 kHz]	PI/2 BPSK	-25.71	12.53	11.40	3.02	H	20.91	23.0	1	12
		QPSK	-25.73	12.51	11.40	3.02	H	20.89			
		16-QAM	-26.78	11.46	11.40	3.02	H	19.84			
		64-QAM	-28.17	10.07	11.40	3.02	H	18.45			
		256-QAM	-30.43	7.81	11.40	3.02	H	16.19			
3624.99		PI/2 BPSK	-25.83	12.83	11.50	3.03	H	21.30		1	22
		QPSK	-25.87	12.79	11.50	3.03	H	21.26			
		16-QAM	-26.86	11.80	11.50	3.03	H	20.27			
		64-QAM	-28.38	10.28	11.50	3.03	H	18.75			
		256-QAM	-30.49	8.17	11.50	3.03	H	16.64			
3694.98		PI/2 BPSK	-27.01	11.47	11.45	3.06	H	19.86		1	22
		QPSK	-27.02	11.46	11.45	3.06	H	19.85			
		16-QAM	-27.86	10.62	11.45	3.06	H	19.01			
		64-QAM	-29.52	8.96	11.45	3.06	H	17.35			
		256-QAM	-31.70	6.78	11.45	3.06	H	15.17			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	EIRP	Limit	RB	
								dBm/10 MHz		Size	Size
3557.52	Sub6 n48/ 15 MHz [30 kHz]	PI/2 BPSK	-25.63	12.61	11.40	3.02	H	20.99	23.0	1	1
		QPSK	-25.72	12.52	11.40	3.02	H	20.90			
		16-QAM	-26.96	11.28	11.40	3.02	H	19.66			
		64-QAM	-28.18	10.06	11.40	3.02	H	18.44			
		256-QAM	-30.46	7.78	11.40	3.02	H	16.16			
3624.99		PI/2 BPSK	-25.69	12.97	11.50	3.03	H	21.44		1	36
		QPSK	-25.73	12.93	11.50	3.03	H	21.40			
		16-QAM	-26.68	11.98	11.50	3.03	H	20.45			
		64-QAM	-28.29	10.37	11.50	3.03	H	18.84			
		256-QAM	-30.28	8.38	11.50	3.03	H	16.85			
3692.49		PI/2 BPSK	-26.89	11.59	11.45	3.06	H	19.98		1	1
		QPSK	-26.97	11.51	11.45	3.06	H	19.90			
		16-QAM	-27.93	10.55	11.45	3.06	H	18.94			
		64-QAM	-29.45	9.03	11.45	3.06	H	17.42			
		256-QAM	-31.66	6.82	11.45	3.06	H	15.21			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	EIRP	Limit	RB	
								dBm/10 MHz		Size	Size
3560.01	Sub6 n48/ 20 MHz [30 kHz]	PI/2 BPSK	-25.81	12.47	11.40	3.01	H	20.86	23.0	1	25
		QPSK	-25.85	12.43	11.40	3.01	H	20.82			
		16-QAM	-26.90	11.38	11.40	3.01	H	19.77			
		64-QAM	-28.50	9.78	11.40	3.01	H	18.17			
		256-QAM	-30.53	7.75	11.40	3.01	H	16.14			
3624.99		PI/2 BPSK	-25.69	12.97	11.50	3.03	H	21.44		1	1
		QPSK	-25.83	12.83	11.50	3.03	H	21.30			
		16-QAM	-26.83	11.83	11.50	3.03	H	20.30			
		64-QAM	-28.21	10.45	11.50	3.03	H	18.92			
		256-QAM	-30.50	8.16	11.50	3.03	H	16.63			
3690.00		PI/2 BPSK	-26.76	11.74	11.50	3.06	H	20.18		1	1
		QPSK	-26.82	11.68	11.50	3.06	H	20.12			
		16-QAM	-27.96	10.54	11.50	3.06	H	18.98			
		64-QAM	-29.30	9.20	11.50	3.06	H	17.64			
		256-QAM	-31.51	6.99	11.50	3.06	H	15.43			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	EIRP	Limit	RB	
								dBm/10 MHz		Size	Size
3565.02	Sub6 n48/ 30 MHz [30 kHz]	PI/2 BPSK	-25.82	12.41	11.40	3.00	H	20.81	23.0	1	1
		QPSK	-25.85	12.38	11.40	3.00	H	20.78			
		16-QAM	-26.87	11.36	11.40	3.00	H	19.76			
		64-QAM	-28.21	10.02	11.40	3.00	H	18.42			
		256-QAM	-30.41	7.82	11.40	3.00	H	16.22			
3624.99		PI/2 BPSK	-25.64	13.02	11.50	3.03	H	21.49		1	1
		QPSK	-25.73	12.93	11.50	3.03	H	21.40			
		16-QAM	-26.56	12.10	11.50	3.03	H	20.57			
		64-QAM	-28.14	10.52	11.50	3.03	H	18.99			
		256-QAM	-30.31	8.35	11.50	3.03	H	16.82			
3684.99		PI/2 BPSK	-26.56	12.01	11.50	3.06	H	20.45		1	1
		QPSK	-26.57	12.00	11.50	3.06	H	20.44			
		16-QAM	-27.63	10.94	11.50	3.06	H	19.38			
		64-QAM	-29.09	9.48	11.50	3.06	H	17.92			
		256-QAM	-31.23	7.34	11.50	3.06	H	15.78			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	EIRP	Limit	RB	
								dBm/10 MHz		Size	Size
3570.00	Sub6 n48/ 40 MHz [30 kHz]	PI/2 BPSK	-25.75	12.43	11.40	2.99	H	20.84	23.0	1	1
		QPSK	-25.77	12.41	11.40	2.99	H	20.82			
		16-QAM	-26.94	11.24	11.40	2.99	H	19.65			
		64-QAM	-28.33	9.85	11.40	2.99	H	18.26			
		256-QAM	-30.41	7.77	11.40	2.99	H	16.18			
3624.99		PI/2 BPSK	-25.63	13.03	11.50	3.03	H	21.50		1	1
		QPSK	-25.78	12.88	11.50	3.03	H	21.35			
		16-QAM	-26.72	11.94	11.50	3.03	H	20.41			
		64-QAM	-28.23	10.43	11.50	3.03	H	18.90			
		256-QAM	-30.43	8.23	11.50	3.03	H	16.70			
3679.98		PI/2 BPSK	-26.13	12.50	11.50	3.05	H	20.95		1	1
		QPSK	-26.39	12.24	11.50	3.05	H	20.69			
		16-QAM	-27.43	11.20	11.50	3.05	H	19.65			
		64-QAM	-28.82	9.81	11.50	3.05	H	18.26			
		256-QAM	-31.13	7.50	11.50	3.05	H	15.95			

8.2 RADIATED SPURIOUS EMISSIONS

- NR Band: N48
- Bandwidth: 10 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	Detector	RB	
										Size	Offset
637000 (3555.00)	7 110.00	-73.19	10.50	-66.12	4.35	V	-59.97	-40.00	Average	1	12
	10 665.00	-72.47	11.00	-60.87	5.48	V	-55.35	-40.00	Average		
	14 220.00	-69.04	12.40	-59.81	6.44	V	-53.85	-40.00	Average		
641666 (3624.99)	7 249.98	-72.62	10.10	-64.70	4.42	V	-59.02	-40.00	Average	1	22
	10 874.97	-73.28	11.20	-62.02	5.53	V	-56.35	-40.00	Average		
	14 499.96	-65.80	12.90	-58.99	6.49	V	-52.58	-40.00	Average		
646332 (3694.98)	7 389.96	-72.78	10.60	-65.20	4.46	V	-59.06	-40.00	Average	1	22
	11 084.94	-72.78	11.30	-61.64	5.59	V	-55.93	-40.00	Average		
	14 779.92	-66.90	13.10	-60.80	6.56	V	-54.26	-40.00	Average		

- NR Band: N48
- Bandwidth: 15 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	Detector	RB	
										Size	Offset
637168 (3557.52)	7 115.04	-73.20	10.50	-66.14	4.37	V	-60.01	-40.00	Average	1	1
	10 672.56	-72.48	11.10	-61.31	5.47	V	-55.68	-40.00	Average		
	14 230.08	-68.75	12.40	-59.95	6.44	V	-53.99	-40.00	Average		
641666 (3624.99)	7 249.98	-72.60	10.10	-64.68	4.42	V	-59.00	-40.00	Average	1	36
	10 874.97	-73.24	11.20	-61.98	5.53	V	-56.31	-40.00	Average		
	14 499.96	-65.69	12.90	-58.88	6.49	V	-52.47	-40.00	Average		
646166 (3692.49)	7 384.98	-72.53	10.60	-64.87	4.45	V	-58.72	-40.00	Average	1	1
	11 077.47	-73.85	11.30	-62.53	5.60	V	-56.83	-40.00	Average		
	14 769.96	-66.98	13.10	-60.88	6.58	V	-54.36	-40.00	Average		

- NR Band: N48
- Bandwidth: 20 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	Detector	RB	
										Size	Offset
637334 (3560.01)	7 120.02	-73.14	10.50	-66.03	4.39	V	-59.92	-40.00	Average	1	25
	10 680.03	-72.24	11.10	-60.77	5.46	V	-55.13	-40.00	Average		
	14 240.04	-68.02	12.40	-59.16	6.44	V	-53.20	-40.00	Average		
641666 (3624.99)	7 249.98	-72.33	10.10	-64.41	4.42	V	-58.73	-40.00	Average	1	1
	10 874.97	-73.19	11.20	-61.93	5.53	V	-56.26	-40.00	Average		
	14 499.96	-65.71	12.90	-58.90	6.49	V	-52.49	-40.00	Average		
646000 (3690.00)	7 380.00	-72.56	10.60	-64.80	4.45	V	-58.65	-40.00	Average	1	1
	11 070.00	-74.02	11.30	-62.30	5.61	V	-56.61	-40.00	Average		
	14 760.00	-67.22	13.10	-61.25	6.58	V	-54.73	-40.00	Average		

- NR Band: N48
- Bandwidth: 30 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	Detector	RB	
										Size	Offset
637668 (3565.02)	7 130.04	-73.29	10.50	-65.79	4.40	V	-59.69	-40.00	Average	1	1
	10 695.06	-72.82	11.10	-61.66	5.48	V	-56.04	-40.00	Average		
	14 260.08	-67.44	12.50	-59.00	6.44	V	-52.94	-40.00	Average		
641666 (3624.99)	7 249.98	-72.61	10.10	-64.69	4.42	V	-59.01	-40.00	Average	1	1
	10 874.97	-72.99	11.20	-61.73	5.53	V	-56.06	-40.00	Average		
	14 499.96	-65.78	12.90	-58.97	6.49	V	-52.56	-40.00	Average		
645666 (3684.99)	7 369.98	-72.57	10.60	-64.69	4.44	V	-58.53	-40.00	Average	1	1
	11 054.97	-74.15	11.30	-62.17	5.61	V	-56.48	-40.00	Average		
	14 739.96	-67.61	13.00	-60.95	6.59	V	-54.54	-40.00	Average		

- NR Band: N48
- Bandwidth: 40 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	Detector	RB	
										Size	Offset
638000 (3570.00)	7 140.00	-72.62	10.50	-64.76	4.41	V	-58.67	-40.00	Average	1	1
	10 710.00	-73.02	11.10	-61.52	5.47	V	-55.89	-40.00	Average		
	14 280.00	-66.99	12.50	-58.71	6.43	V	-52.64	-40.00	Average		
641666 (3624.99)	7 249.98	-72.44	10.10	-64.52	4.42	V	-58.84	-40.00	Average	1	1
	10 874.97	-72.82	11.20	-61.56	5.53	V	-55.89	-40.00	Average		
	14 499.96	-65.74	12.90	-58.93	6.49	V	-52.52	-40.00	Average		
645332 (3679.98)	7 359.96	-72.45	10.60	-64.69	4.44	V	-58.53	-40.00	Average	1	1
	11 039.94	-74.20	11.30	-62.16	5.59	V	-56.45	-40.00	Average		
	14 719.92	-67.55	13.00	-60.43	6.59	V	-54.02	-40.00	Average		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n48	10 MHz	3624.99	BPSK	24	0	4.45
			QPSK			5.67
			16-QAM			6.41
			64-QAM			6.66
			256-QAM			6.38
	15 MHz		BPSK	36		4.74
			QPSK			5.69
			16-QAM			6.49
			64-QAM			6.58
			256-QAM			6.64
	20 MHz		BPSK	50		4.87
			QPSK			5.74
			16-QAM			6.63
			64-QAM			6.59
			256-QAM			6.66
	30 MHz		BPSK	75		5.00
			QPSK			5.73
			16-QAM			6.43
			64-QAM			6.57
			256-QAM			6.53
	40 MHz		BPSK	100		4.50
			QPSK			5.57
			16-QAM			6.33
			64-QAM			6.55
			256-QAM			6.48

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 77 ~ 101.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n48	10 MHz	3624.99	BPSK	24	0	8.6831
			QPSK			8.6367
			16-QAM			8.6345
			64-QAM			8.6453
			256-QAM			8.6415
	15 MHz		BPSK	36		12.978
			QPSK			12.977
			16-QAM			12.942
			64-QAM			12.942
			256-QAM			12.993
	20 MHz		BPSK	50		17.891
			QPSK			17.995
			16-QAM			18.013
			64-QAM			17.920
			256-QAM			17.926
	30 MHz		BPSK	75		26.959
			QPSK			26.901
			16-QAM			26.996
			64-QAM			26.903
			256-QAM			26.913
	40 MHz		BPSK	100		35.903
			QPSK			35.900
			16-QAM			35.851
			64-QAM			35.815
			256-QAM			35.811

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 52 ~ 76.

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 n48	10	3555.00	8.3764	30.815	-77.060	-46.245	-40.00
		3624.99	8.2214	30.815	-76.320	-45.505	
		3694.98	4.0464	30.200	-76.174	-45.974	
	15	3557.52	4.5634	30.200	-77.099	-46.899	
		3624.99	5.4871	30.815	-76.920	-46.105	
		3692.49	9.4437	30.815	-76.510	-45.695	
	20	3560.01	8.8430	30.815	-76.409	-45.594	
		3624.99	4.0394	30.200	-76.665	-46.465	
		3690.00	3.7329	30.200	-76.879	-46.679	
	30	3565.02	5.1825	30.815	-76.519	-45.704	
		3624.99	4.5624	30.200	-76.607	-46.407	
		3684.99	3.7239	30.200	-74.343	-44.143	
	40	3570.00	9.9302	30.815	-76.685	-45.870	
		3624.99	9.6929	30.815	-76.706	-45.891	
		3679.98	4.0738	30.200	-76.605	-46.405	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 172 ~ 201.

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

- Result(dBm) = Reading + Factor

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.494
1 – 5	30.200
5 – 10	30.815
10 – 15	31.340
15 – 20	31.713
Above 20	32.355

8.6 CHANNEL EDGE

BW (MHz)	RB (Size/ Offset)	Freq. (MHz)	Outside of the authorized band (dBm)							
			Lower Side(MHz)				Upper Side(MHz)			
			Below 3530 MHz	-[B]MHz ~ 3530 MHz	-1 MHz ~ -[B]MHz	0 MHz ~ -1 MHz	0 MHz ~ +1 MHz	1 MHz ~ +[B]MHz	+[B]MHz ~ 3720 MHz	Above 3720 MHz
10	24/0	3555.00	-52.60	-42.80	-32.18	-29.76	-29.15	-32.61	-44.02	—
		3624.99	—	-41.53	-31.58	-28.57	-31.17	-33.42	-42.50	—
		3694.98	—	-40.45	-30.66	-28.97	-30.14	-30.36	-39.33	-49.12
15	36/0	3557.52	-47.57	-41.87	-33.03	-28.19	-42.29	-36.88	-44.14	—
		3624.99	—	-43.54	-32.93	-29.70	-41.11	-39.59	-44.99	—
		3692.49	—	-44.46	-30.64	-28.45	-41.18	-34.14	-38.64	-46.36
20	50/0	3560.01	-45.96	-42.64	-35.78	-33.28	-36.92	-36.02	-46.81	—
		3624.99	—	-40.74	-34.84	-30.96	-38.48	-36.81	-42.85	—
		3690.00	—	-47.55	-36.23	-30.95	-37.84	-36.25	-40.21	-46.53
30	75/0	3565.02	-43.18	-36.84	-38.65	-33.12	-41.00	-41.03	-49.94	—
		3624.99	—	-47.46	-35.66	-33.12	-39.80	-43.63	-46.16	—
		3684.99	—	-45.91	-35.60	-32.96	-42.90	-38.38	-36.25	-41.96
40	100/0	3570.00	-42.00	-37.80	-37.85	-32.01	-46.49	-40.78	-47.03	—
		3624.99	—	-46.27	-38.42	-31.98	-42.53	-40.38	-45.36	—
		3679.98	—	-46.56	-38.97	-33.17	-43.16	-41.07	-39.31	-41.12
Limit (dBm)			-40.00	-25.00	-13.00	-13.00	-13.00	-13.00	-25.00	-40.00

Note:

1. C.E = Channel Edge
2. Plots of the EUT's Channel Edge are shown Page 117 ~ 171.
3. Duty Cycle factor already applied on the factor.
   - Duty Cycle Factor(dB) = 6.99
   - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator
   - Result(dBm) = Reading + Factor

BW (MHz)	RB (Size/ Offset)	Freq. (MHz)	Outside of the authorized band (dBm)							
			Lower Side(MHz)				Upper Side(MHz)			
			Below 3530 MHz	-[B]MHz ~ 3530 MHz	-1 MHz ~ -[B]MHz	0 MHz ~ -1 MHz	0 MHz ~ +1 MHz	1 MHz ~ +[B]MHz	+[B]MHz ~ 3720 MHz	Above 3720 MHz
10	Lower Side: 1/0 Upper Side: 1/23	3555.00	-53.41	-51.91	-28.43	-25.01	-25.56	-28.29	-52.10	—
		3624.99	—	-50.25	-27.12	-22.74	-25.66	-28.12	-51.10	—
		3694.98	—	-49.72	-26.24	-24.59	-24.34	-26.12	-48.48	-49.25
15	Lower Side: 1/0 Upper Side: 1/37	3557.52	-53.59	-49.01	-23.58	-20.88	-22.93	-24.29	-53.22	—
		3624.99	—	-50.63	-22.63	-20.74	-23.43	-25.75	-51.42	—
		3692.49	—	-51.13	-23.82	-21.49	-21.71	-22.80	-47.21	-48.99
20	Lower Side: 1/0 Upper Side: 1/50	3560.01	-53.69	-49.73	-28.94	-26.89	-24.93	-27.00	-50.30	—
		3624.99	—	-53.12	-26.25	-25.98	-25.52	-27.23	-51.73	—
		3690.00	—	-52.11	-28.18	-26.07	-26.51	-26.97	-48.18	-49.14
30	Lower Side: 1/0 Upper Side: 1/77	3565.02	-53.26	-51.74	-31.97	-31.81	-29.25	-31.91	-48.94	—
		3624.99	—	-53.92	-50.73	-30.40	-29.88	-32.54	-45.88	—
		3684.99	—	-46.16	-29.99	-29.93	-32.24	-31.46	-47.58	-48.55
40	Lower Side: 1/0 Upper Side: 1/105	3570.00	-48.80	-50.48	-31.83	-30.46	-29.48	-31.49	-46.08	—
		3624.99	—	-45.84	-26.49	-25.88	-28.01	-29.89	-44.47	—
		3679.98	—	-44.88	-29.35	-26.52	-31.37	-31.39	-39.67	-46.24
Limit (dBm)			-40.00	-25.00	-13.00	-13.00	-13.00	-13.00	-25.00	-40.00

Note:

1. C.E = Channel Edge
2. Plots of the EUT's Channel Edge are shown Page 117 ~ 171.
3. Duty Cycle factor already applied on the factor.
   - Duty Cycle Factor(dB) = 6.99
   - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator
   - Result(dBm) = Reading + Factor

8.7 Adjacent Channel Leakage Ratio(ACLR)

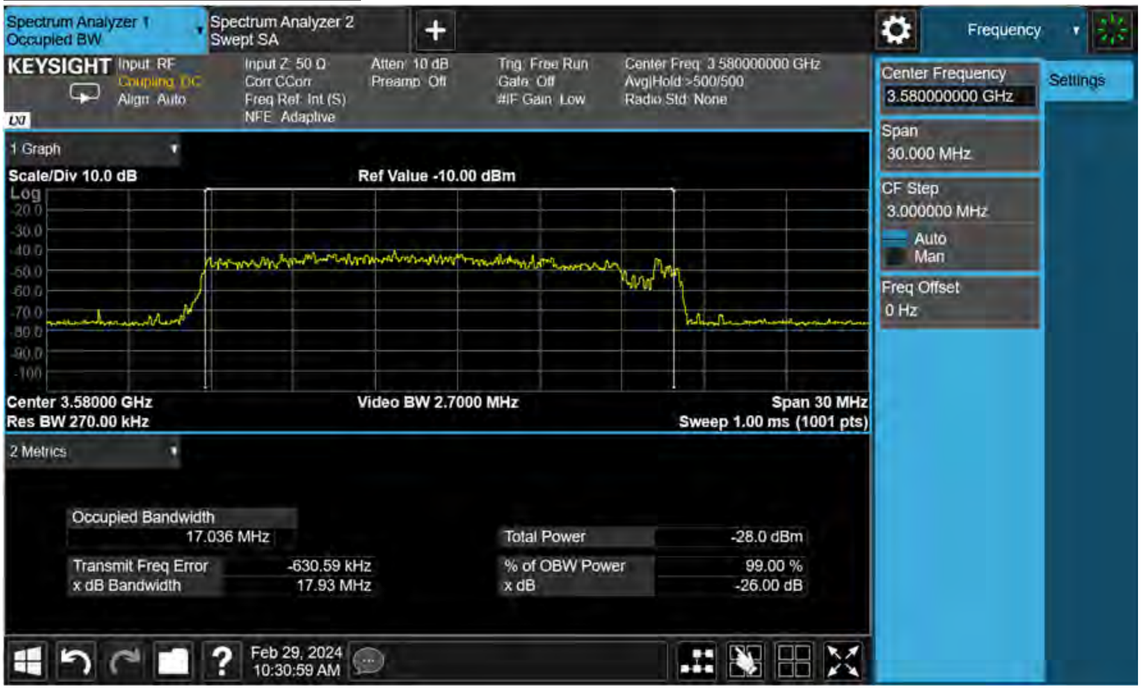
Band Width	RB (Size/ Offset)	Frequency (MHz)	Adjacent Channel Leakage Ratio(dB)	
			Lower Side	Upper Side
10 MHz	24/0	3555.00	44.81	47.24
		3624.99	46.16	47.03
		3694.98	45.48	46.59
15 MHz	36/0	3557.52	46.61	53.12
		3624.99	46.22	52.05
		3692.49	46.46	50.77
20 MHz	50/0	3560.01	48.01	51.22
		3624.99	47.34	50.60
		3690.00	47.67	49.73
30 MHz	75/0	3565.02	46.13	51.72
		3624.99	44.76	50.61
		3684.99	46.47	50.29
40 MHz	100/0	3570.00	41.29	49.72
		3624.99	37.83	51.02
		3679.98	37.92	48.38
Limit (dB)			ACLR > 30dB	ACLR > 30dB

Note:

1. 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) = 6.990
2. Plots of the EUT's Adjacent Channel Leakage Ratio(ACLR) are shown Page 102 ~ 116.

8.8 End User Device Additional Requirement (CBSD Protocol)

Test#1: 3580 MHz(BW: 20 MHz)



Stop Operation Within 10 s

Note:

Marker 2: CBSD sends instructions to discontinue NR n48 operations.

Marker 1△2: EUT discontinues operation. (0.27 s)

Marker 3△4: 10 seconds elapsed time from CBSD sending instructions to EUT.(10.0 s)

Test#2: 3600 MHz(BW: 40 MHz)

Stop Operation Within 10 s

Note:

Marker 2: CBSD sends instructions to discontinue NR n48 operations.

Marker 1△2: EUT discontinues operation. (0.15 s)

Marker 3△4: 10 seconds elapsed time from CBSD sending instructions to EUT(10.0 s).

8.9 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

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

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3555.000	100 %	+20(Ref)	3554 999 998	0.0	0.000 000	0.000
	100 %	-30	3554 999 996	-2.0	0.000 000	-0.001
	100 %	-20	3554 999 987	-11.0	0.000 000	-0.003
	100 %	-10	3554 999 995	-2.8	0.000 000	-0.001
	100 %	0	3554 999 998	0.0	0.000 000	0.000
	100 %	+10	3554 999 996	-1.3	0.000 000	0.000
	100 %	+30	3554 999 996	-1.3	0.000 000	0.000
	100 %	+40	3554 999 998	0.0	0.000 000	0.000
	100 %	+50	3554 999 993	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3554 999 994	-3.2	0.000 000	-0.001
3694.980	100 %	+20(Ref)	3694 979 998	0.0	0.000 000	0.000
	100 %	-30	3694 979 995	-3.1	0.000 000	-0.001
	100 %	-20	3694 979 994	-3.5	0.000 000	-0.001
	100 %	-10	3694 979 994	-3.5	0.000 000	-0.001
	100 %	0	3694 979 993	-4.4	0.000 000	-0.001
	100 %	+10	3694 979 991	-6.5	0.000 000	-0.002
	100 %	+30	3694 979 995	-2.5	0.000 000	-0.001
	100 %	+40	3694 979 995	-2.6	0.000 000	-0.001
	100 %	+50	3694 979 993	-5.0	0.000 000	-0.001
	Batt. Endpoint	+20	3694 979 992	-6.2	0.000 000	-0.002

▣ BandWidth: 15 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3557.520	100 %	+20(Ref)	3557 519 996	0.0	0.000 000	0.000
	100 %	-30	3557 520 001	5.2	0.000 000	0.001
	100 %	-20	3557 519 997	0.8	0.000 000	0.000
	100 %	-10	3557 519 995	-0.9	0.000 000	0.000
	100 %	0	3557 519 995	-1.7	0.000 000	0.000
	100 %	+10	3557 519 995	-0.8	0.000 000	0.000
	100 %	+30	3557 519 995	-1.7	0.000 000	0.000
	100 %	+40	3557 519 993	-3.0	0.000 000	-0.001
	100 %	+50	3557 519 999	2.3	0.000 000	0.001
	Batt. Endpoint	+20	3557 519 991	-4.8	0.000 000	-0.001
3692.490	100 %	+20(Ref)	3692 489 999	0.0	0.000 000	0.000
	100 %	-30	3692 489 998	-1.5	0.000 000	0.000
	100 %	-20	3692 489 995	-3.9	0.000 000	-0.001
	100 %	-10	3692 490 003	3.7	0.000 000	0.001
	100 %	0	3692 489 997	-2.2	0.000 000	-0.001
	100 %	+10	3692 490 000	0.5	0.000 000	0.000
	100 %	+30	3692 490 001	1.4	0.000 000	0.000
	100 %	+40	3692 489 997	-2.1	0.000 000	-0.001
	100 %	+50	3692 490 000	0.9	0.000 000	0.000
	Batt. Endpoint	+20	3692 489 999	0.0	0.000 000	0.000

▣ BandWidth: 20 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3560.010	100 %	+20(Ref)	3560 009 999	0.0	0.000 000	0.000
	100 %	-30	3560 009 993	-5.7	0.000 000	-0.002
	100 %	-20	3560 009 996	-2.9	0.000 000	-0.001
	100 %	-10	3560 009 995	-3.2	0.000 000	-0.001
	100 %	0	3560 009 998	-0.7	0.000 000	0.000
	100 %	+10	3560 010 004	5.3	0.000 000	0.001
	100 %	+30	3560 009 997	-1.7	0.000 000	0.000
	100 %	+40	3560 009 994	-4.5	0.000 000	-0.001
	100 %	+50	3560 010 001	2.8	0.000 000	0.001
	Batt. Endpoint	+20	3560 010 001	2.3	0.000 000	0.001
3690.000	100 %	+20(Ref)	3689 999 998	0.0	0.000 000	0.000
	100 %	-30	3689 999 997	-0.8	0.000 000	0.000
	100 %	-20	3689 999 997	-1.3	0.000 000	0.000
	100 %	-10	3689 999 995	-3.3	0.000 000	-0.001
	100 %	0	3689 999 994	-3.9	0.000 000	-0.001
	100 %	+10	3689 999 993	-5.0	0.000 000	-0.001
	100 %	+30	3689 999 996	-1.9	0.000 000	-0.001
	100 %	+40	3689 999 996	-2.0	0.000 000	-0.001
	100 %	+50	3689 999 993	-4.9	0.000 000	-0.001
	Batt. Endpoint	+20	3689 999 989	-8.9	0.000 000	-0.002

▣ BandWidth: 30 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3565.020	100 %	+20(Ref)	3565 020 002	0.0	0.000 000	0.000
	100 %	-30	3565 020 006	3.5	0.000 000	0.001
	100 %	-20	3565 020 008	6.2	0.000 000	0.002
	100 %	-10	3565 020 004	1.9	0.000 000	0.001
	100 %	0	3565 020 009	7.1	0.000 000	0.002
	100 %	+10	3565 020 006	4.3	0.000 000	0.001
	100 %	+30	3565 020 011	9.3	0.000 000	0.003
	100 %	+40	3565 020 011	9.0	0.000 000	0.003
	100 %	+50	3565 020 015	12.5	0.000 000	0.004
	Batt. Endpoint	+20	3565 020 008	5.8	0.000 000	0.002
3.300	100 %	+20(Ref)	3684 989 995	0.0	0.000 000	0.000
	100 %	-30	3684 989 993	-2.1	0.000 000	-0.001
	100 %	-20	3684 989 998	2.9	0.000 000	0.001
	100 %	-10	3684 989 990	-5.2	0.000 000	-0.001
	100 %	0	3684 989 994	-1.6	0.000 000	0.000
	100 %	+10	3684 989 994	-1.5	0.000 000	0.000
	100 %	+30	3684 989 994	-1.1	0.000 000	0.000
	100 %	+40	3684 989 998	2.7	0.000 000	0.001
	100 %	+50	3684 989 992	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	3684 989 993	-2.1	0.000 000	-0.001

▣ BandWidth: 40 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
3570.000	100 %	+20(Ref)	3569 999 997	0.0	0.000 000	0.000
	100 %	-30	3570 000 001	3.9	0.000 000	0.001
	100 %	-20	3569 999 994	-3.2	0.000 000	-0.001
	100 %	-10	3569 999 996	-1.3	0.000 000	0.000
	100 %	0	3569 999 992	-5.2	0.000 000	-0.001
	100 %	+10	3569 999 996	-0.9	0.000 000	0.000
	100 %	+30	3570 000 000	2.9	0.000 000	0.001
	100 %	+40	3569 999 995	-1.9	0.000 000	-0.001
	100 %	+50	3569 999 996	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	3569 999 989	-7.5	0.000 000	-0.002
3679.980	100 %	+20(Ref)	3679 979 995	0.0	0.000 000	0.000
	100 %	-30	3679 979 990	-4.8	0.000 000	-0.001
	100 %	-20	3679 979 989	-5.5	0.000 000	-0.002
	100 %	-10	3679 979 989	-5.4	0.000 000	-0.001
	100 %	0	3679 979 990	-4.4	0.000 000	-0.001
	100 %	+10	3679 979 995	-0.1	0.000 000	0.000
	100 %	+30	3679 979 988	-6.9	0.000 000	-0.002
	100 %	+40	3679 979 986	-8.3	0.000 000	-0.002
	100 %	+50	3679 979 991	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3679 979 989	-5.8	0.000 000	-0.002

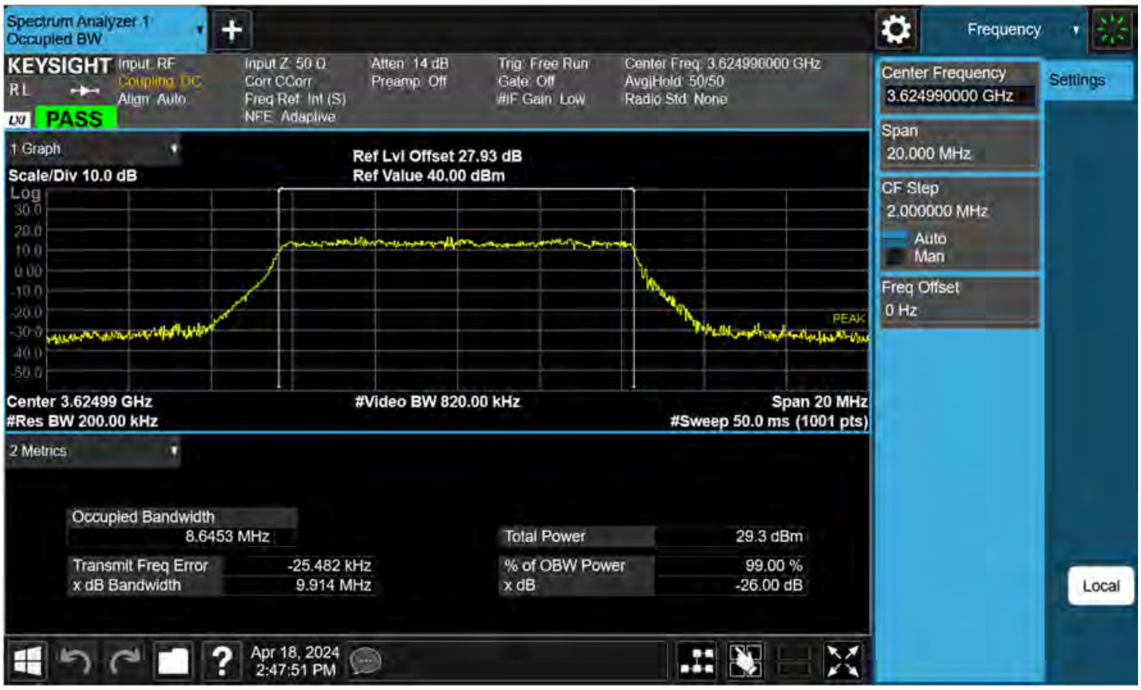
9. TEST PLOTS

Sub6 n48. Occupied Bandwidth Plot (10 MHz Ch. 641666 BPSK RB 24)

Sub6 n48. Occupied Bandwidth Plot (10 MHz Ch. 641666 QPSK RB 24)

Sub6 n48. Occupied Bandwidth Plot (10 MHz Ch.641666 16-QAM RB 24)

Sub6 n48. Occupied Bandwidth Plot (10 MHz Ch.641666 64-QAM RB 24)



Sub6 n48. Occupied Bandwidth Plot (10 MHz Ch.641666 256-QAM RB 24)

Sub6 n48. Occupied Bandwidth Plot (15 MHz Ch. 641666 BPSK RB 36)

Sub6 n48. Occupied Bandwidth Plot (15 MHz Ch. 641666 QPSK RB 36)

Sub6 n48. Occupied Bandwidth Plot (15 MHz Ch.641666 16-QAM RB 36)

Sub6 n48. Occupied Bandwidth Plot (15 MHz Ch.641666 64-QAM RB 36)

Sub6 n48. Occupied Bandwidth Plot (15 MHz Ch.641666 256-QAM RB 36)

Sub6 n48. Occupied Bandwidth Plot (20 MHz Ch. 641666 BPSK RB 50)

Sub6 n48. Occupied Bandwidth Plot (20 MHz Ch. 641666 QPSK RB 50)

Sub6 n48. Occupied Bandwidth Plot (20 MHz Ch.641666 16-QAM RB 50)

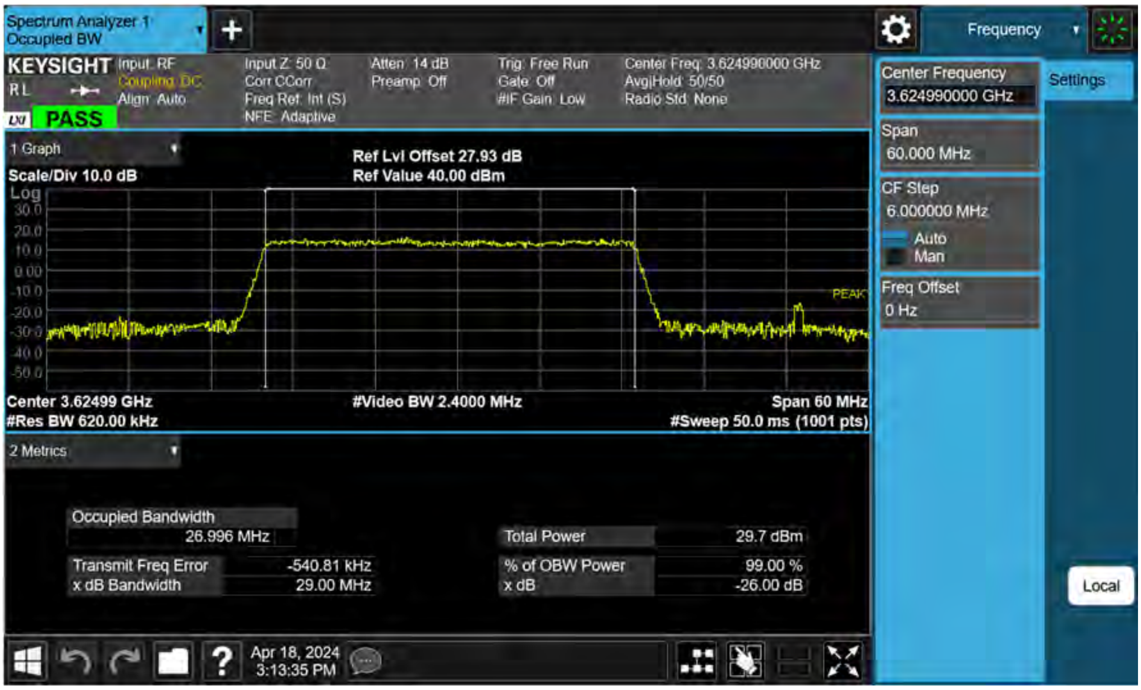
Sub6 n48. Occupied Bandwidth Plot (20 MHz Ch.641666 64-QAM RB 50)

Sub6 n48. Occupied Bandwidth Plot (20 MHz Ch.641666 256-QAM RB 50)

Sub6 n48. Occupied Bandwidth Plot (30 MHz Ch. 641666 BPSK RB 75)

Sub6 n48. Occupied Bandwidth Plot (30 MHz Ch. 641666 QPSK RB 75)

Sub6 n48. Occupied Bandwidth Plot (30 MHz Ch.641666 16-QAM RB 75)

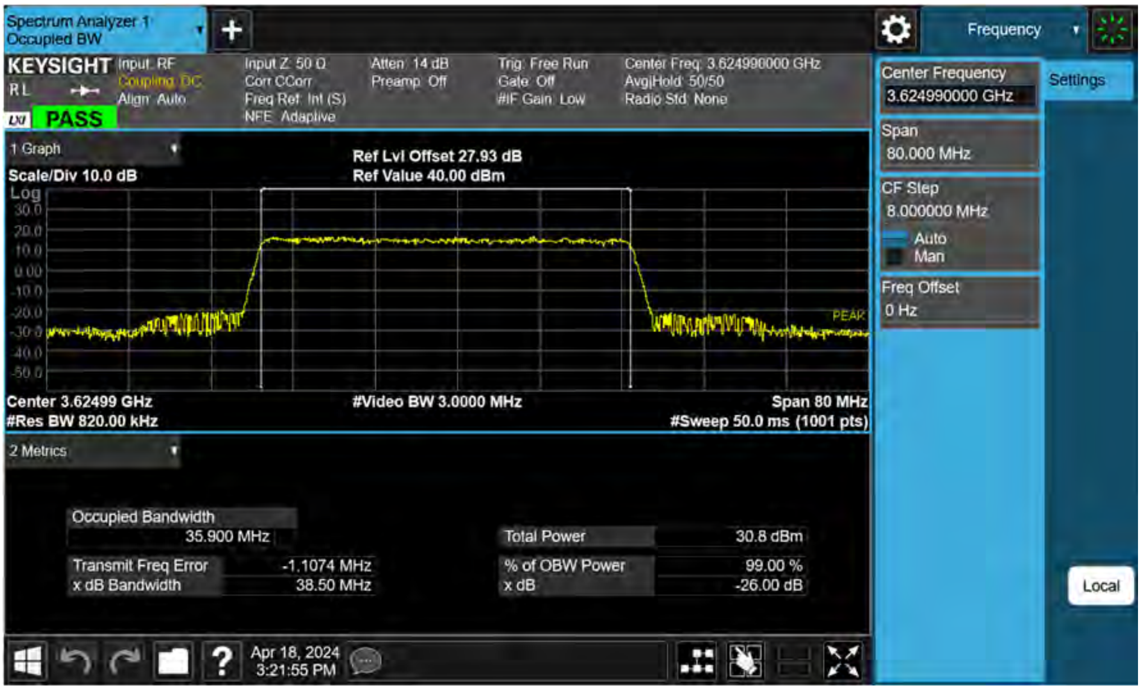


Sub6 n48. Occupied Bandwidth Plot (30 MHz Ch.641666 64-QAM RB 75)

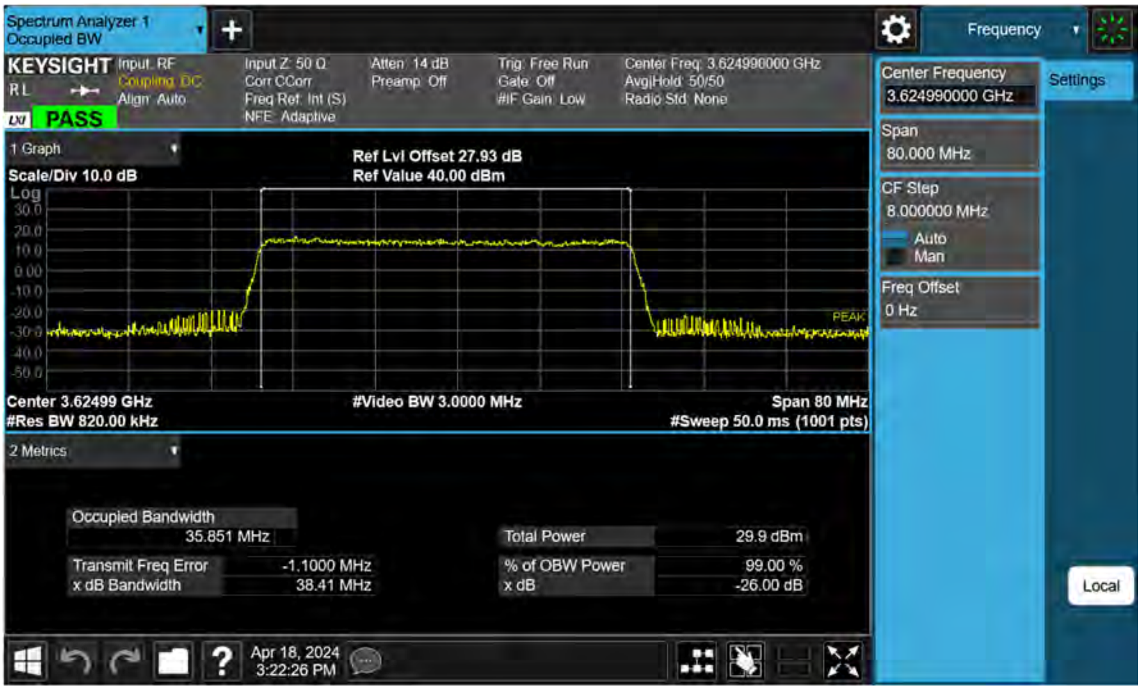
Sub6 n48. Occupied Bandwidth Plot (30 MHz Ch.641666 256-QAM RB 75)

Sub6 n48. Occupied Bandwidth Plot (40 MHz Ch. 641666 BPSK RB 100)

Sub6 n48. Occupied Bandwidth Plot (40 MHz Ch. 641666 QPSK RB 100)



Sub6 n48. Occupied Bandwidth Plot (40 MHz Ch.641666 16-QAM RB 100)



Sub6 n48. Occupied Bandwidth Plot (40 MHz Ch.641666 64-QAM RB 100)

Sub6 n48. Occupied Bandwidth Plot (40 MHz Ch.641666 256-QAM RB 100)

Sub6 n48. PAR Plot (10 MHz Ch. 641666 BPSK RB 24)

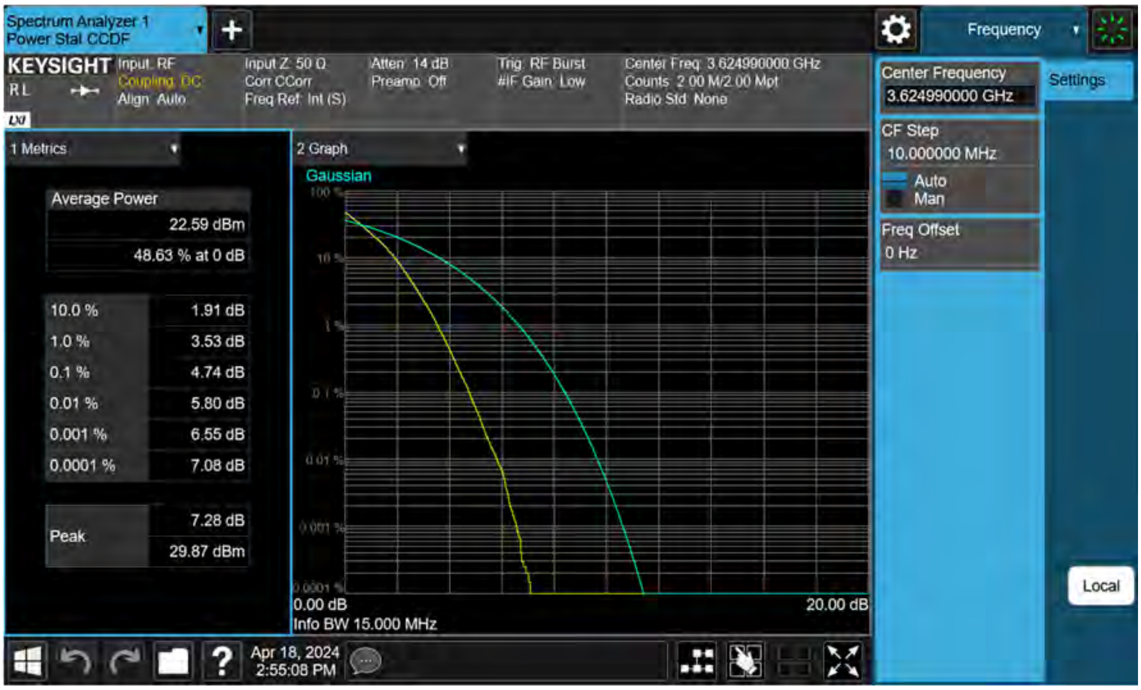
Sub6 n48. PAR Plot (10 MHz Ch. 641666 QPSK RB 24)

Sub6 n48. PAR Plot (10 MHz Ch.641666 16-QAM RB 24)

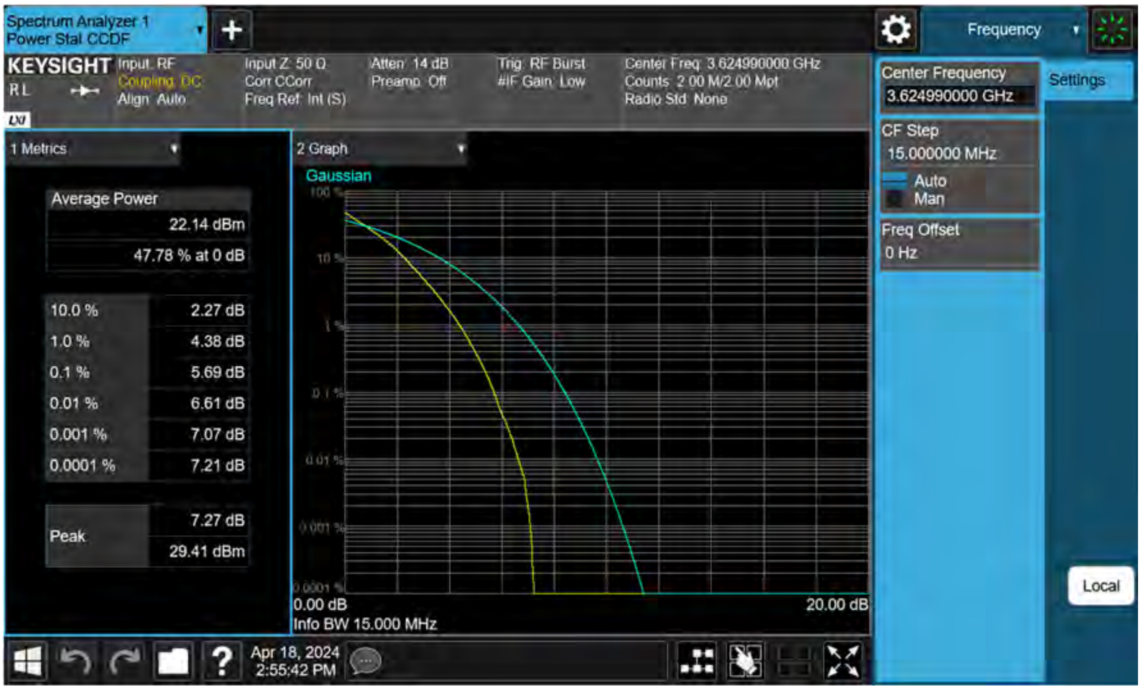
Sub6 n48. PAR Plot (10 MHz Ch.641666 64-QAM RB 24)

Sub6 n48. PAR Plot (10 MHz Ch.641666 256-QAM RB 24)

Sub6 n48. PAR Plot (15 MHz Ch. 641666 BPSK RB 36)



Sub6 n48. PAR Plot (15 MHz Ch. 641666 QPSK RB 36)



Sub6 n48. PAR Plot (15 MHz Ch.641666 16-QAM RB 36)

Sub6 n48. PAR Plot (15 MHz Ch.641666 64-QAM RB 36)

Sub6 n48. PAR Plot (15 MHz Ch.641666 256-QAM RB 36)

Sub6 n48. PAR Plot (20 MHz Ch. 641666 BPSK RB 50)

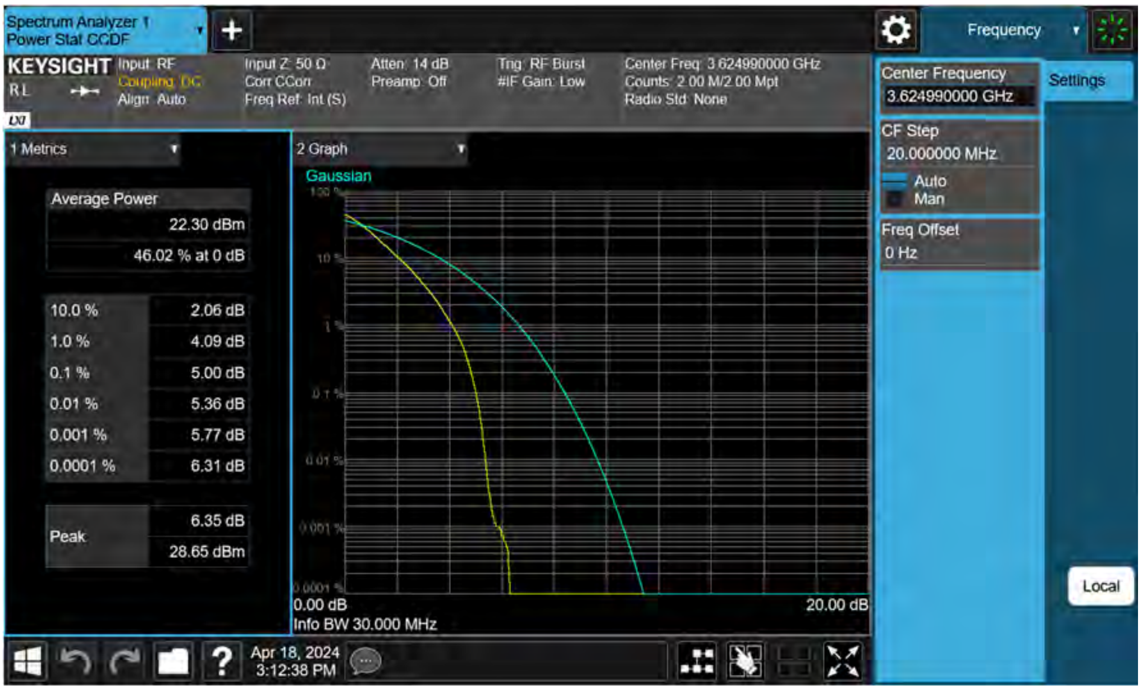
Sub6 n48. PAR Plot (20 MHz Ch. 641666 QPSK RB 50)

Sub6 n48. PAR Plot (20 MHz Ch.641666 16-QAM RB 50)

Sub6 n48. PAR Plot (20 MHz Ch.641666 64-QAM RB 50)

Sub6 n48. PAR Plot (20 MHz Ch.641666 256-QAM RB 50)

Sub6 n48. PAR Plot (30 MHz Ch. 641666 BPSK RB 75)



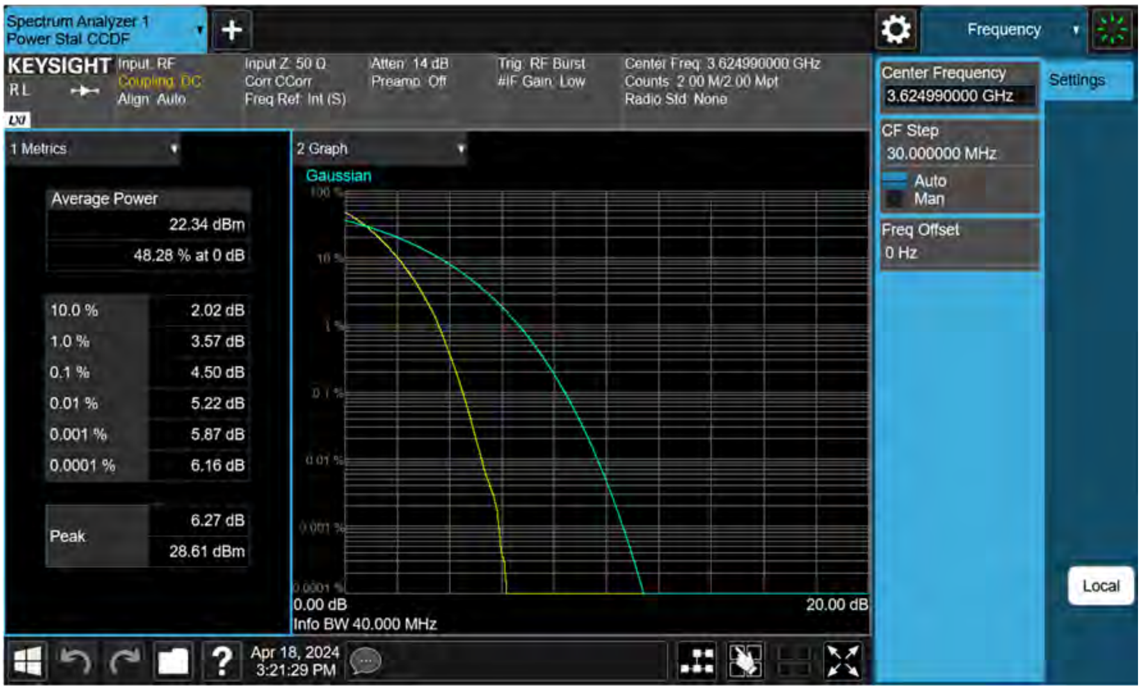
Sub6 n48. PAR Plot (30 MHz Ch. 641666 QPSK RB 75)

Sub6 n48. PAR Plot (30 MHz Ch.641666 16-QAM RB 75)

Sub6 n48. PAR Plot (30 MHz Ch.641666 64-QAM RB 75)

Sub6 n48. PAR Plot (30 MHz Ch.641666 256-QAM RB 75)

Sub6 n48. PAR Plot (40 MHz Ch. 641666 BPSK RB 100)



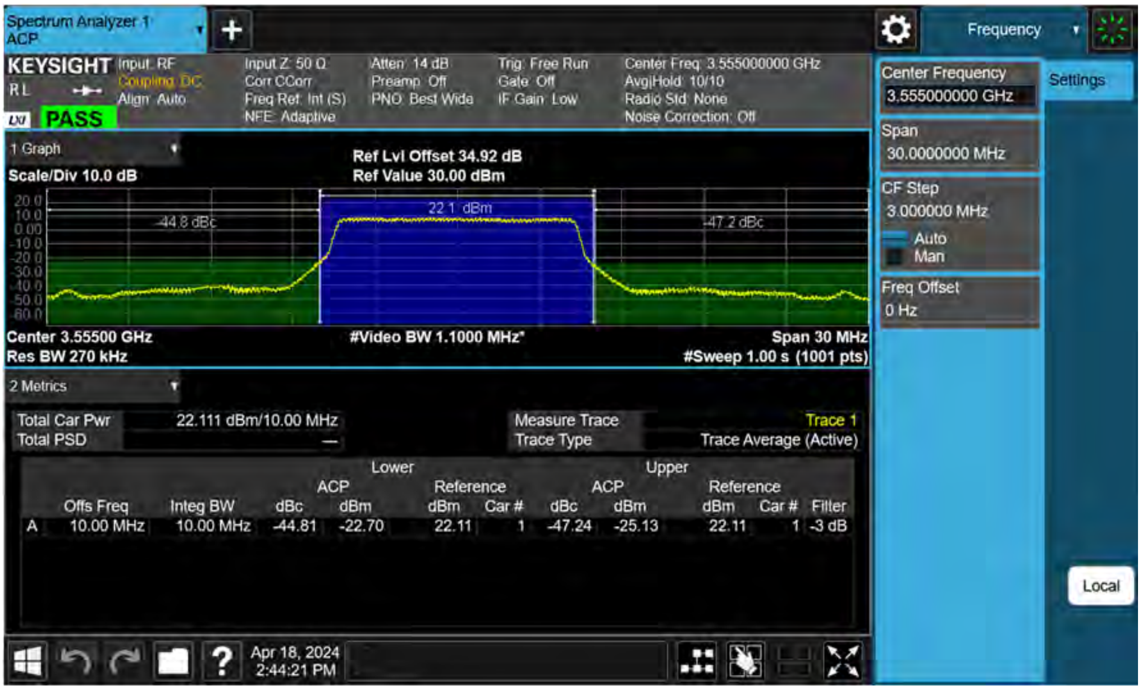
Sub6 n48. PAR Plot (40 MHz Ch. 641666 QPSK RB 100)

Sub6 n48. PAR Plot (40 MHz Ch.641666 16-QAM RB 100)

Sub6 n48. PAR Plot (40 MHz Ch.641666 64-QAM RB 100)

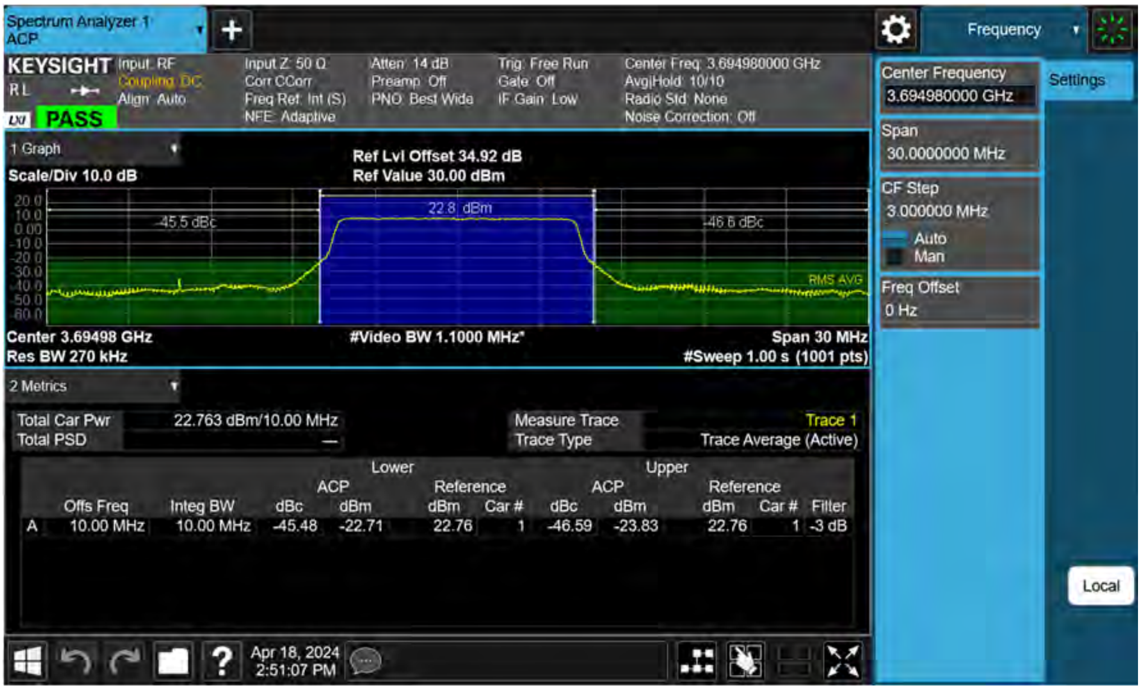
Sub6 n48. PAR Plot (40 MHz Ch.641666 256-QAM RB 100)

Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (10 MHz Ch.637000 BPSK RB 24, Offset 0)

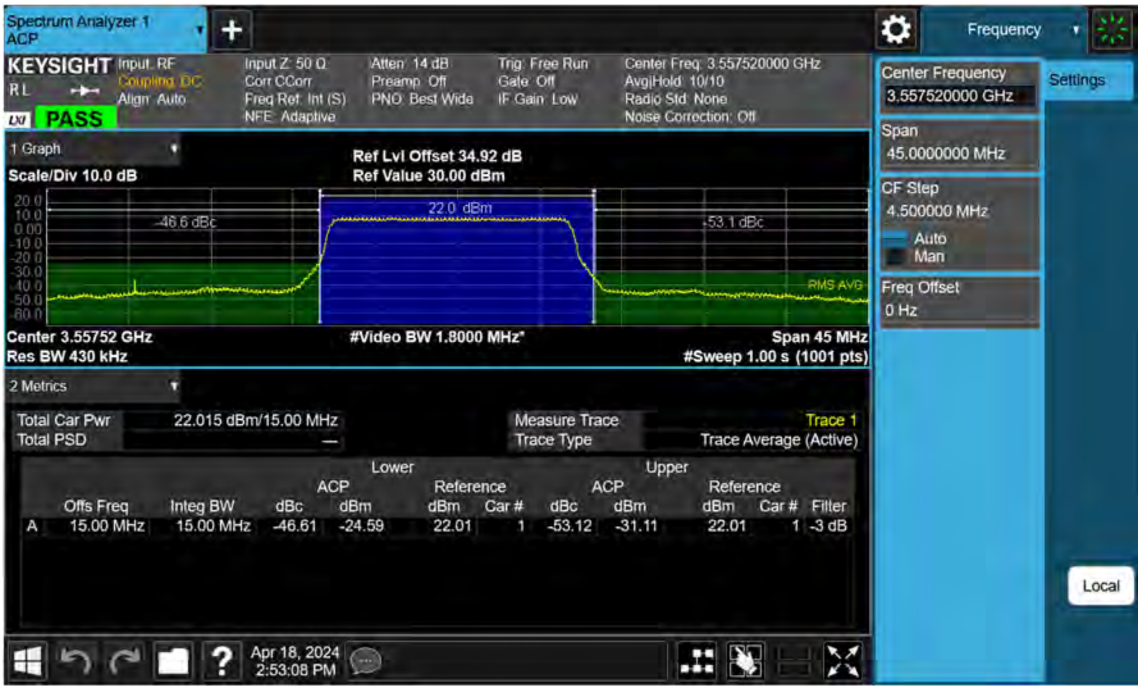


Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (10 MHz Ch.641666 BPSK RB 24, Offset 0)

Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (10 MHz Ch.646332 BPSK RB 24, Offset 0)

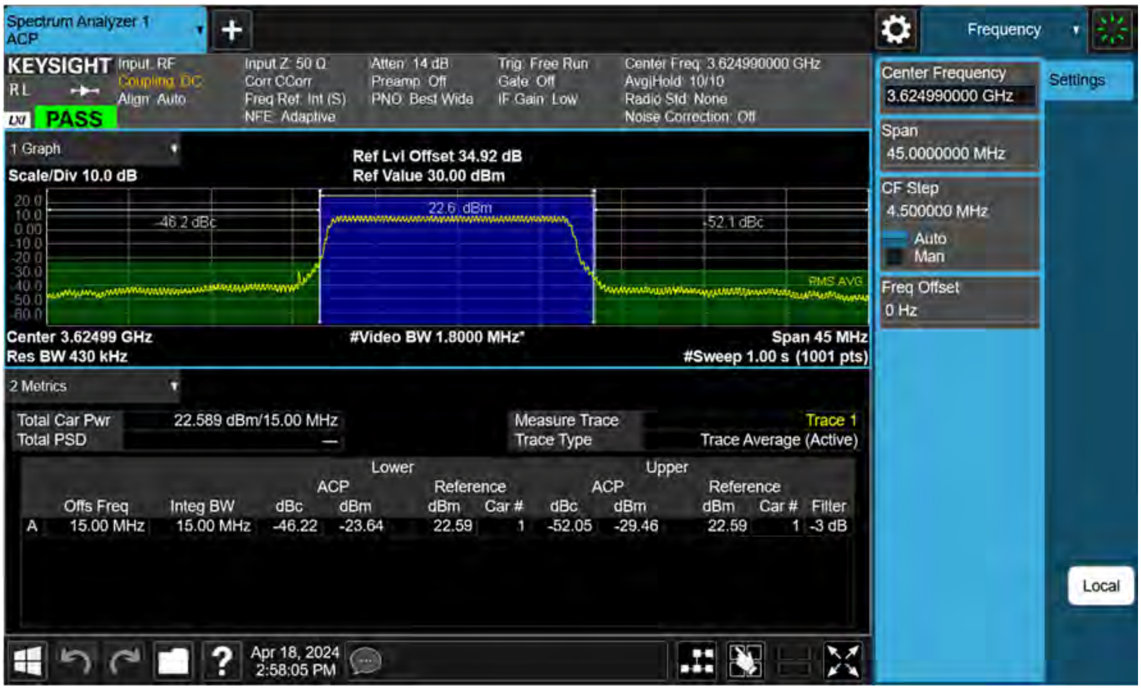


Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (15 MHz Ch.637168 BPSK RB 36, Offset 0)

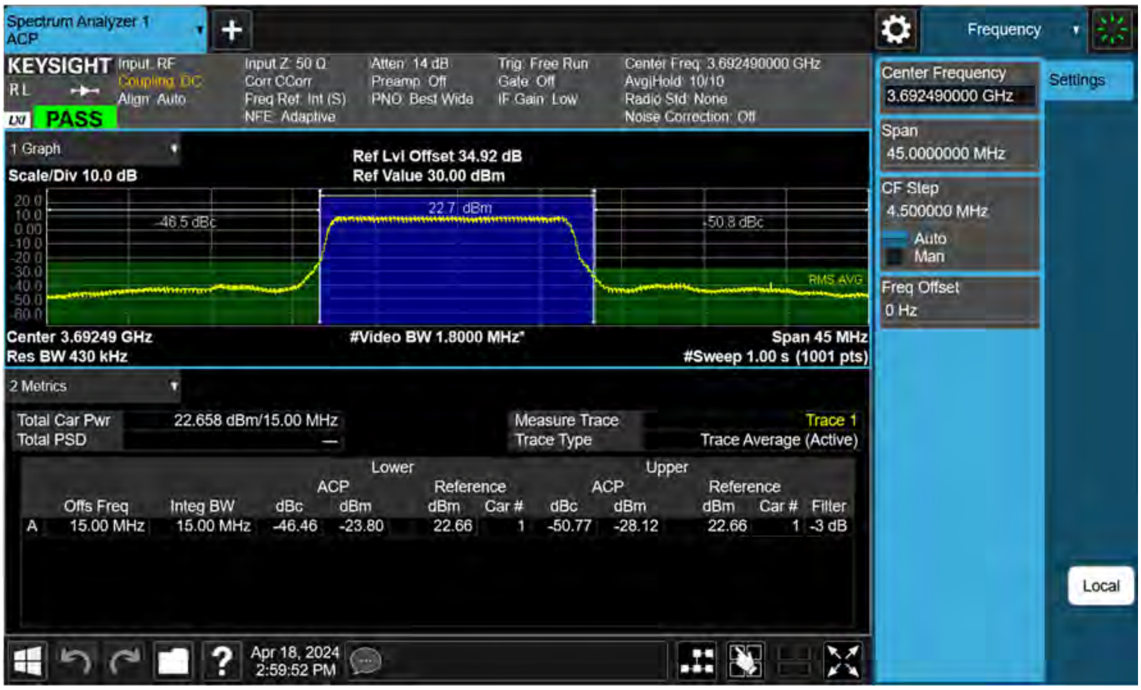


			Lower					Upper				
			ACP		Reference		ACP		Reference			
	Offs Freq	Integ BW	dBc	dBm	dBm	Car #	dBc	dBm	dBm	Car #	Filter	
A	15.00 MHz	15.00 MHz	-46.61	-24.59	22.01	1	-53.12	-31.11	22.01	1	-3 dB	

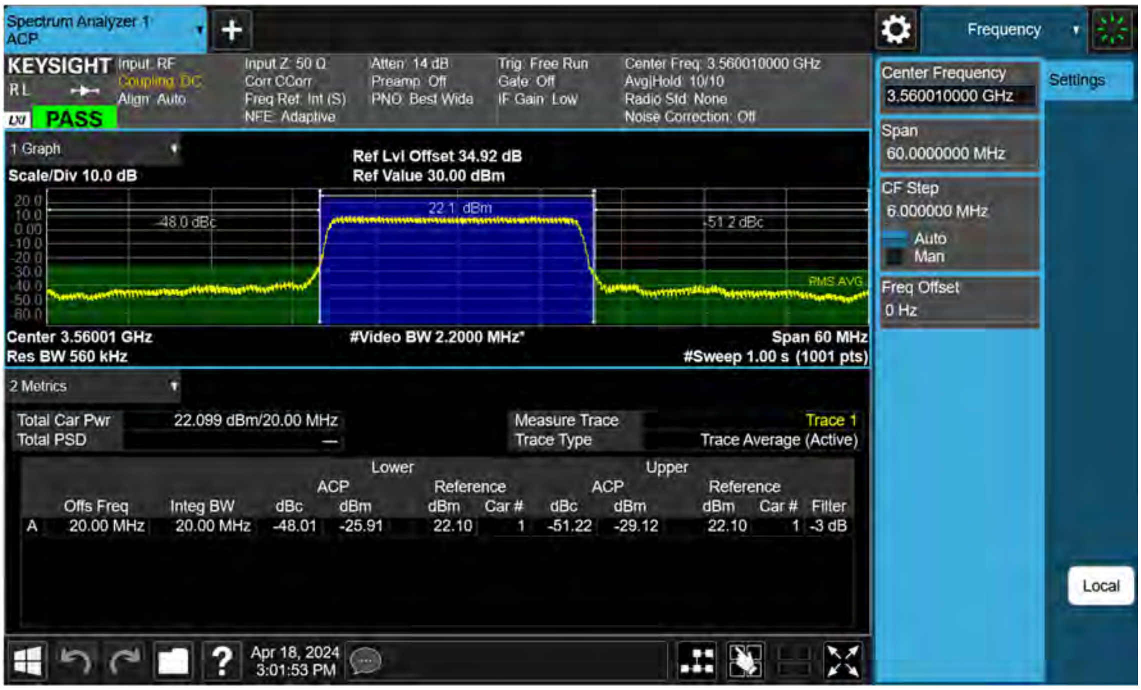
Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (15 MHz Ch.641666 BPSK RB 36, Offset 0)



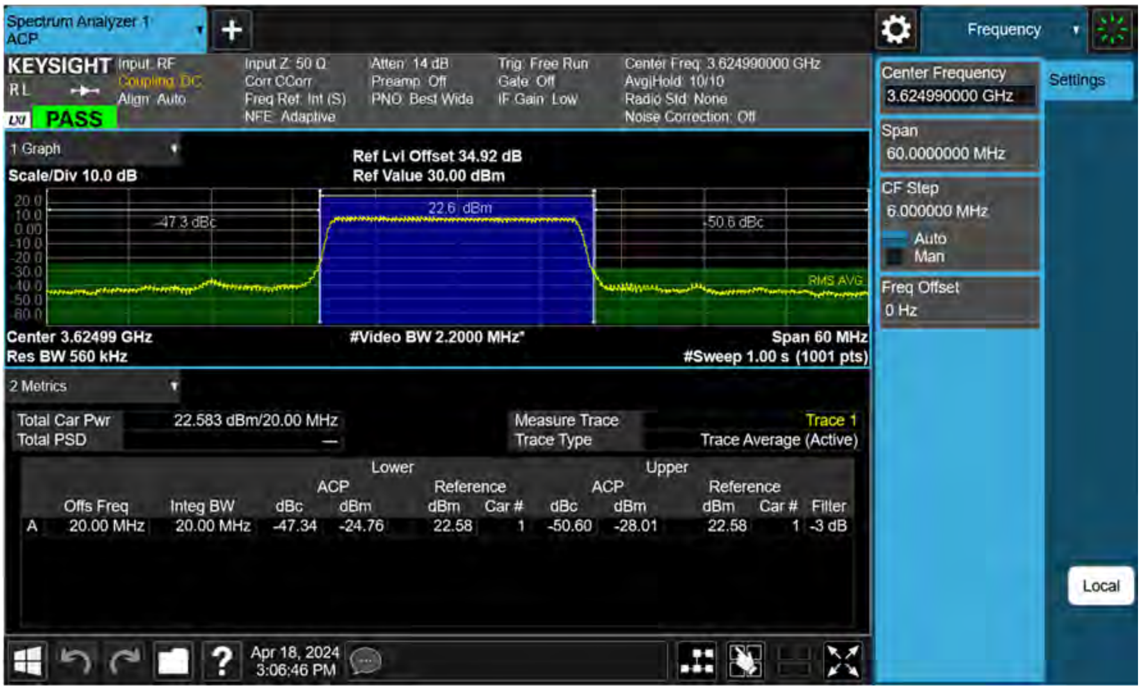
Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (15 MHz Ch.646166 BPSK RB 36, Offset 0)



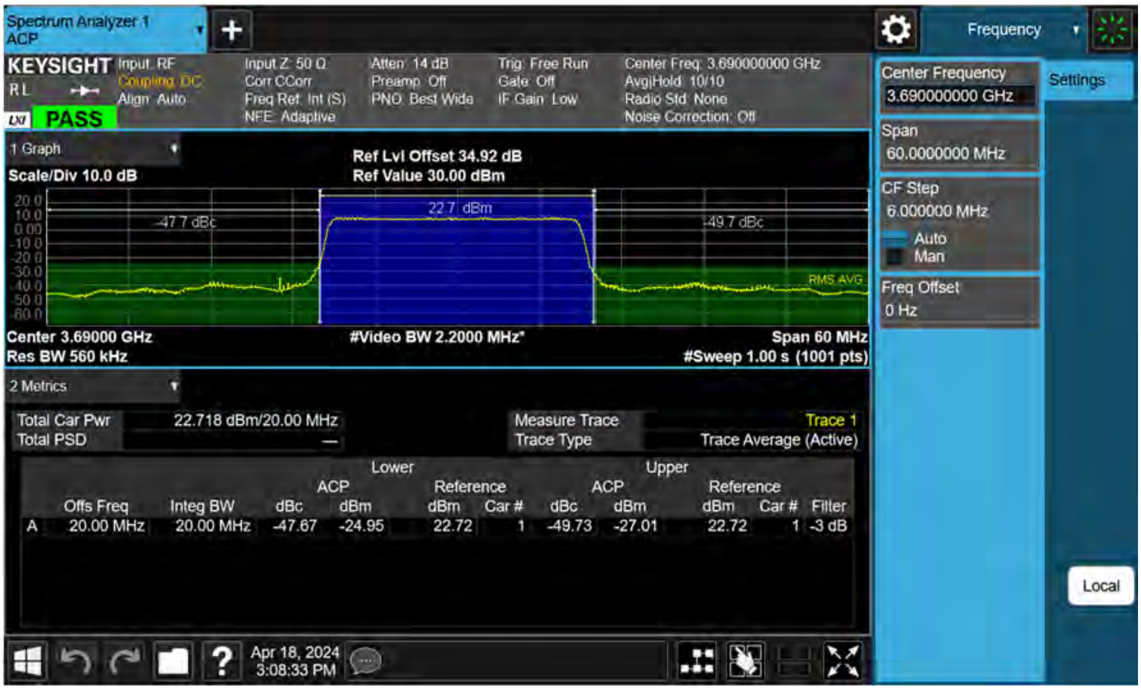
Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (20 MHz Ch.637334 BPSK RB 50, Offset 0)



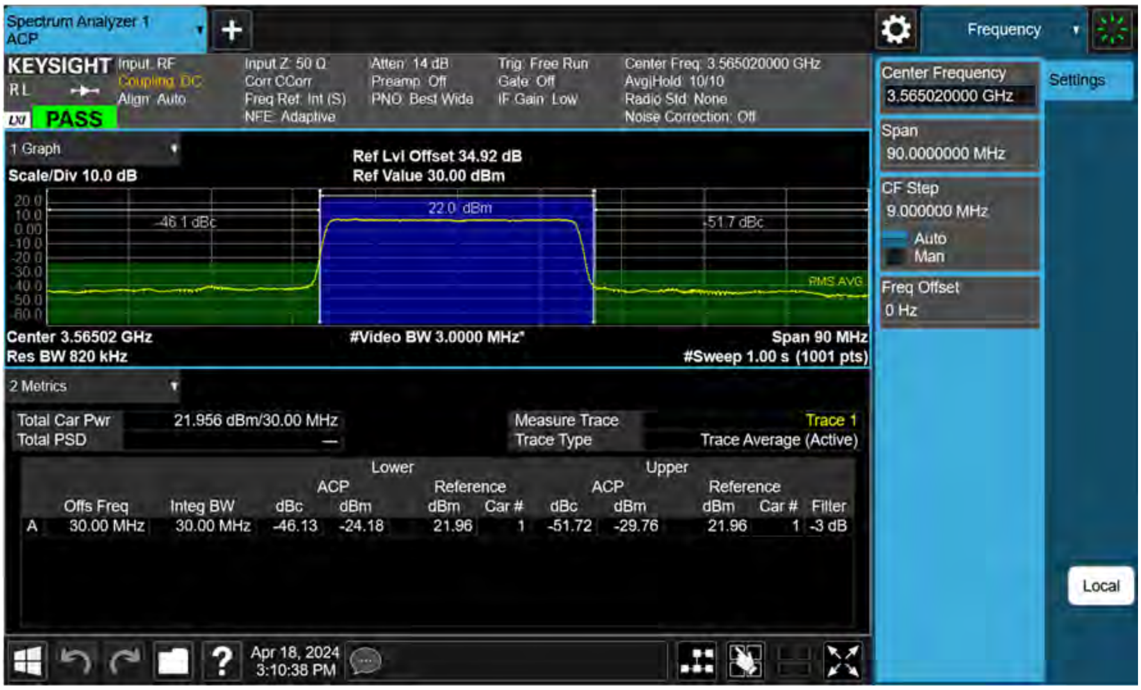
Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (20 MHz Ch.641666 BPSK RB 50, Offset 0)



Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (20 MHz Ch.646000 BPSK RB 50, Offset 0)

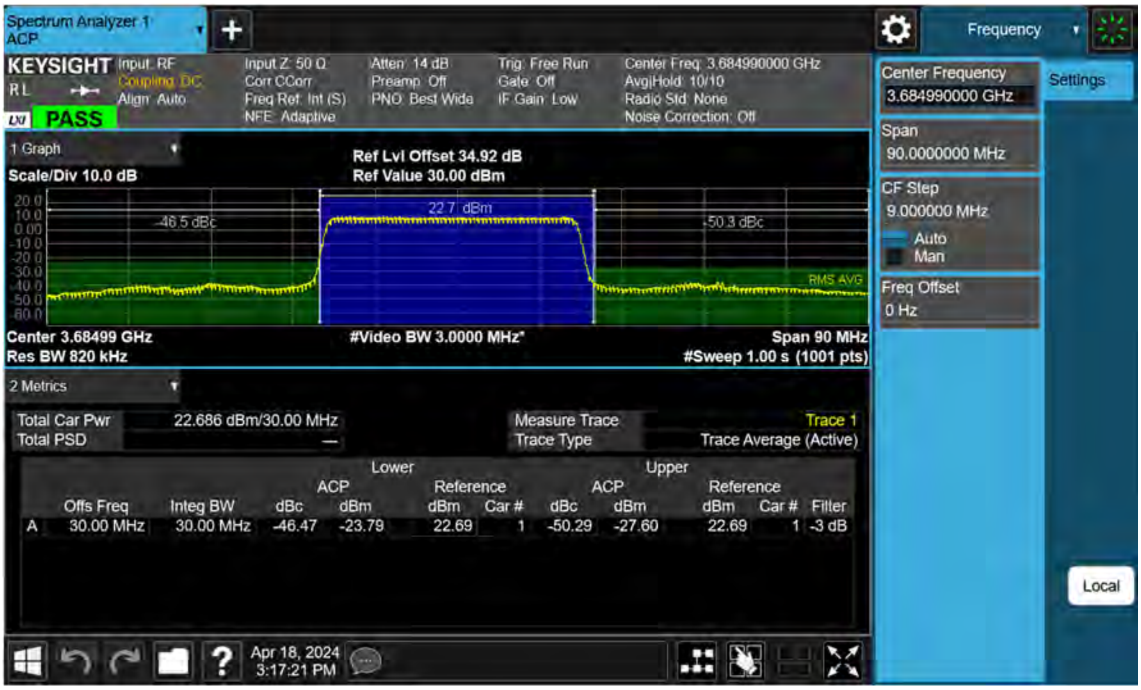


Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (30 MHz Ch.638000 BPSK RB 75, Offset 0)



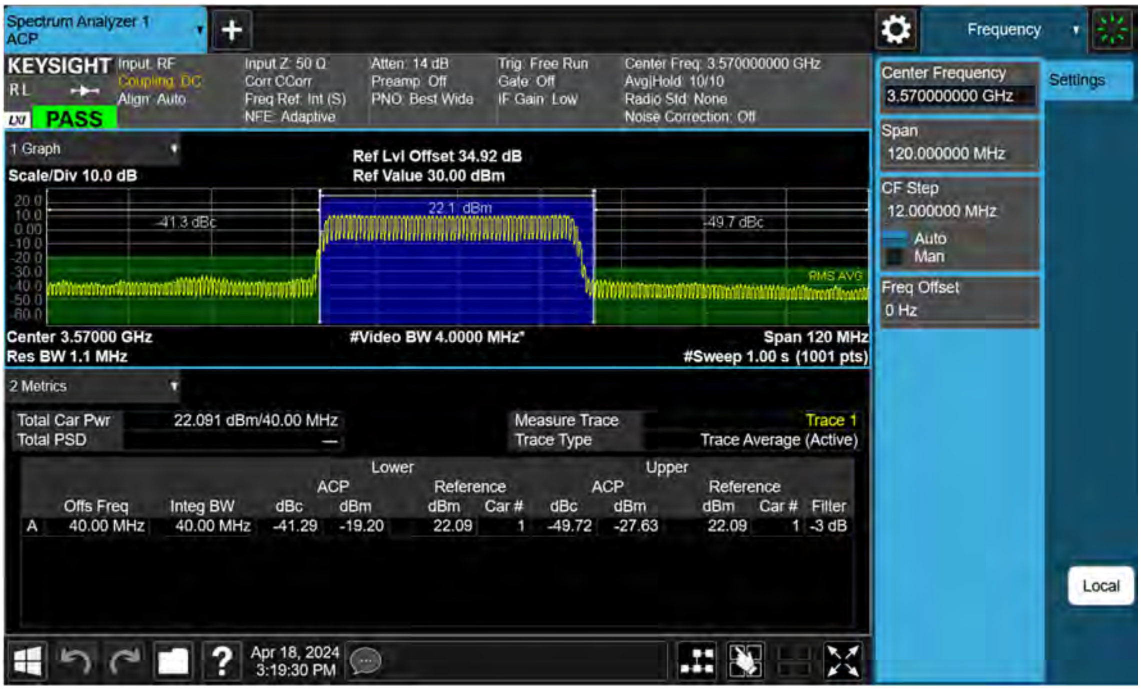
Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (30 MHz Ch.641666 BPSK RB 75, Offset 0)

Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (30 MHz Ch.645332 BPSK RB 75, Offset 0)

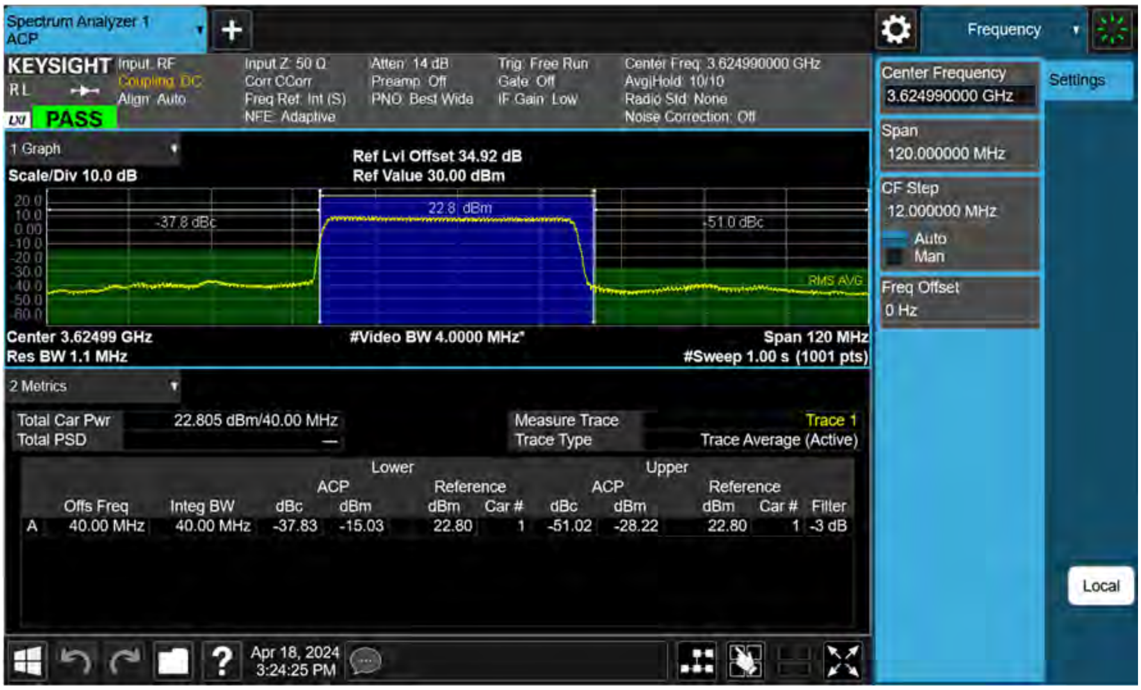


			Lower				Upper				
			ACP		Reference		ACP		Reference		
	Offs Freq	Integ BW	dBc	dBm	dBm	Car #	dBc	dBm	dBm	Car #	Filter
A	30.00 MHz	30.00 MHz	-46.47	-23.79	22.69	1	-50.29	-27.60	22.69	1	-3 dB

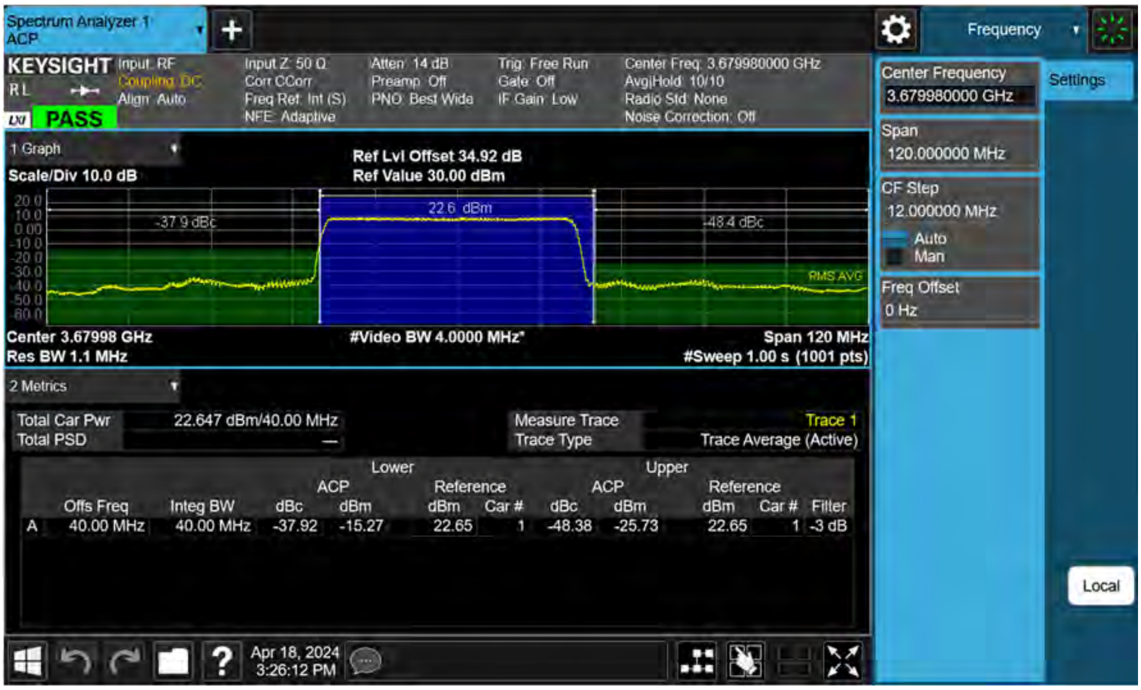
Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (40 MHz Ch.638000 BPSK RB 100, Offset 0)



Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (40 MHz Ch.641666 BPSK RB 100, Offset 0)



Sub6 n48. Adjacent Channel Leakage Ratio(ACLR) Plot (40 MHz Ch.645332 BPSK RB 100, Offset 0)



Sub6 n48. 10 M BandEdge(Lower)_Low_3555.00 MHz_BPSK_FullRB

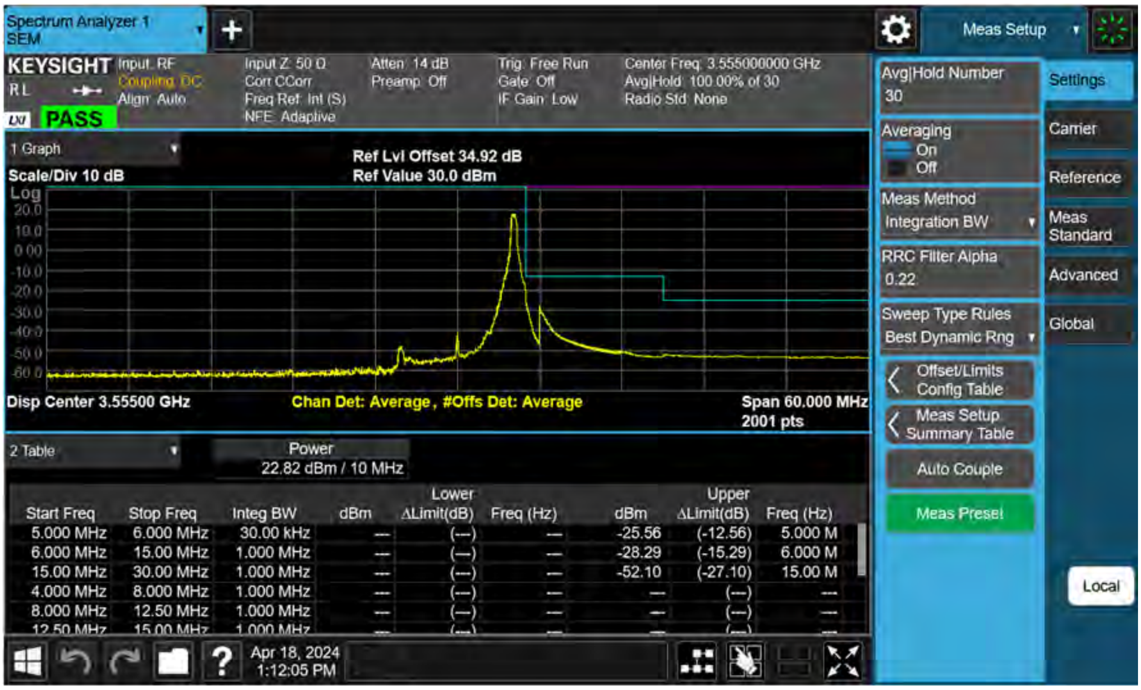
Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
5.000 MHz	6.000 MHz	100.0 kHz	-29.76	(-16.76)	-5.000 M	---	(---)	---
6.000 MHz	15.00 MHz	1.000 MHz	-32.18	(-19.18)	-8.925 M	---	(---)	---
15.00 MHz	25.00 MHz	1.000 MHz	-42.80	(-17.80)	-15.00 M	---	(---)	---
25.00 MHz	45.00 MHz	1.000 MHz	-52.60	(-12.60)	-25.20 M	---	(---)	---
15.00 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 10 M_BandEdge(Upper)_Low_ 3555.00 MHz_BPSK_FullRB

Sub6 n48. 10 M_BandEdge(Lower)_Low_ 3555.00 MHz_BPSK_1RB

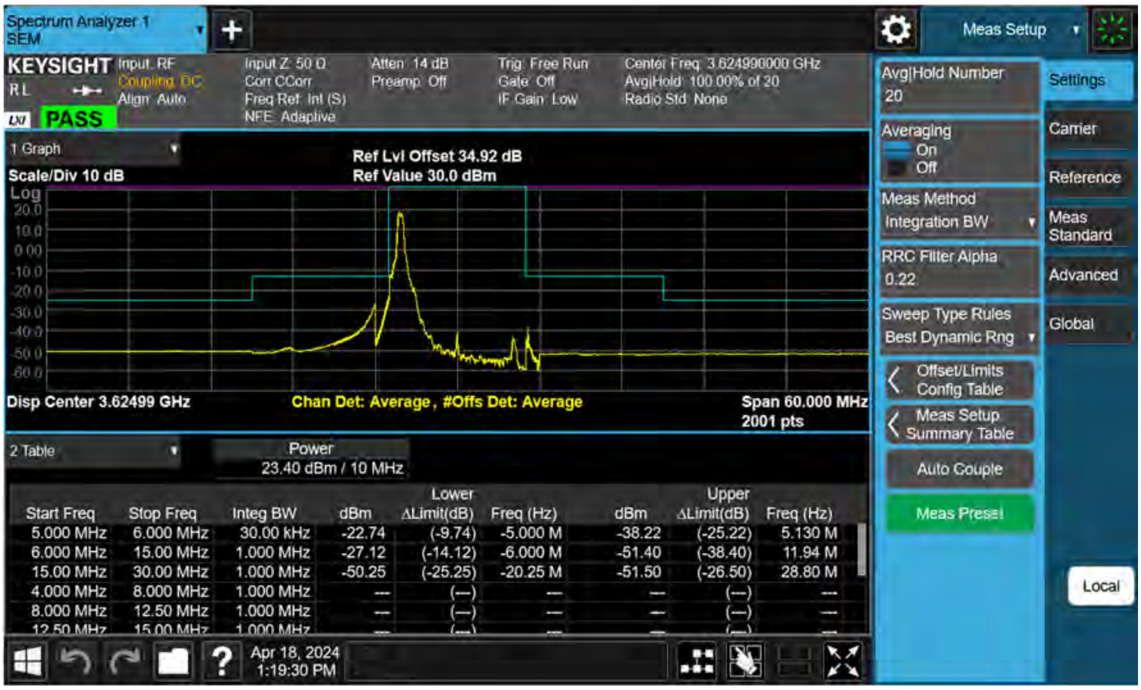
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
5.000 MHz	6.000 MHz	30.00 kHz	-25.01	(-12.01)	-5.000 M	---	(---)	---
6.000 MHz	15.00 MHz	1.000 MHz	-28.43	(-15.43)	-6.000 M	---	(---)	---
15.00 MHz	25.00 MHz	1.000 MHz	-51.91	(-26.91)	-15.05 M	---	(---)	---
25.00 MHz	45.00 MHz	1.000 MHz	-53.41	(-13.41)	-27.00 M	---	(---)	---
15.00 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 10 M_BandEdge(Upper)_Low_ 3555.00 MHz_BPSK_1RB

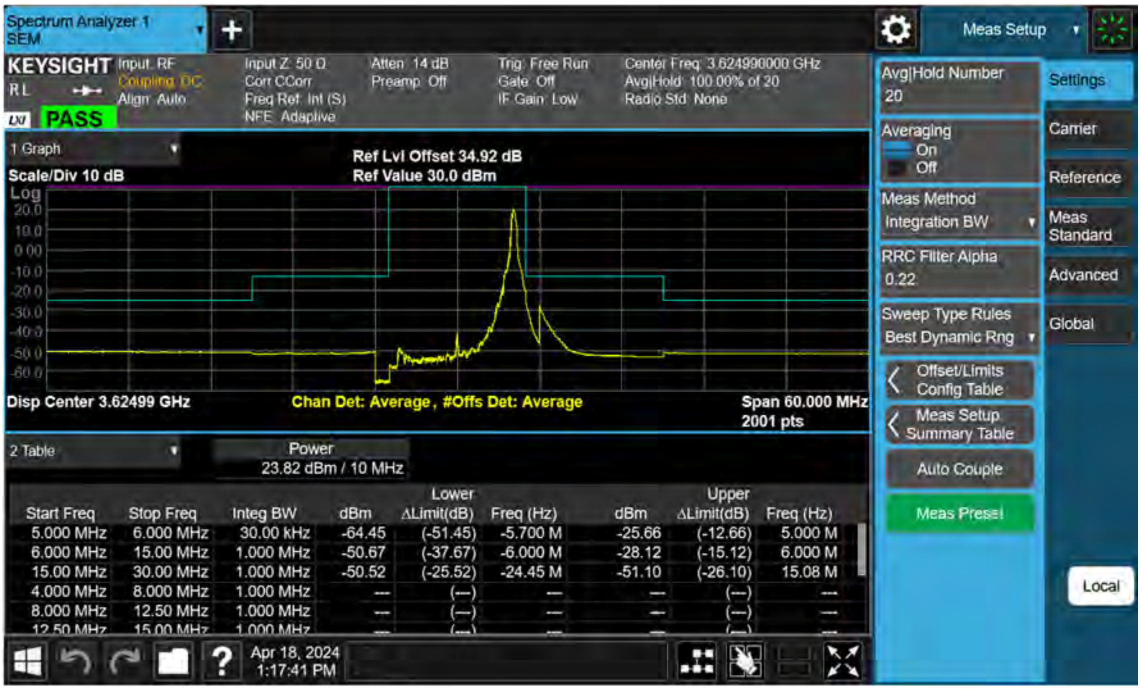


Sub6 n48. 10 M_BandEdge(Center)_Mid_3624.99 MHz_BPSK_FullRB

Sub6 n48. 10 M_BandEdge(Lower)_Mid_3624.99 MHz_BPSK_1RB



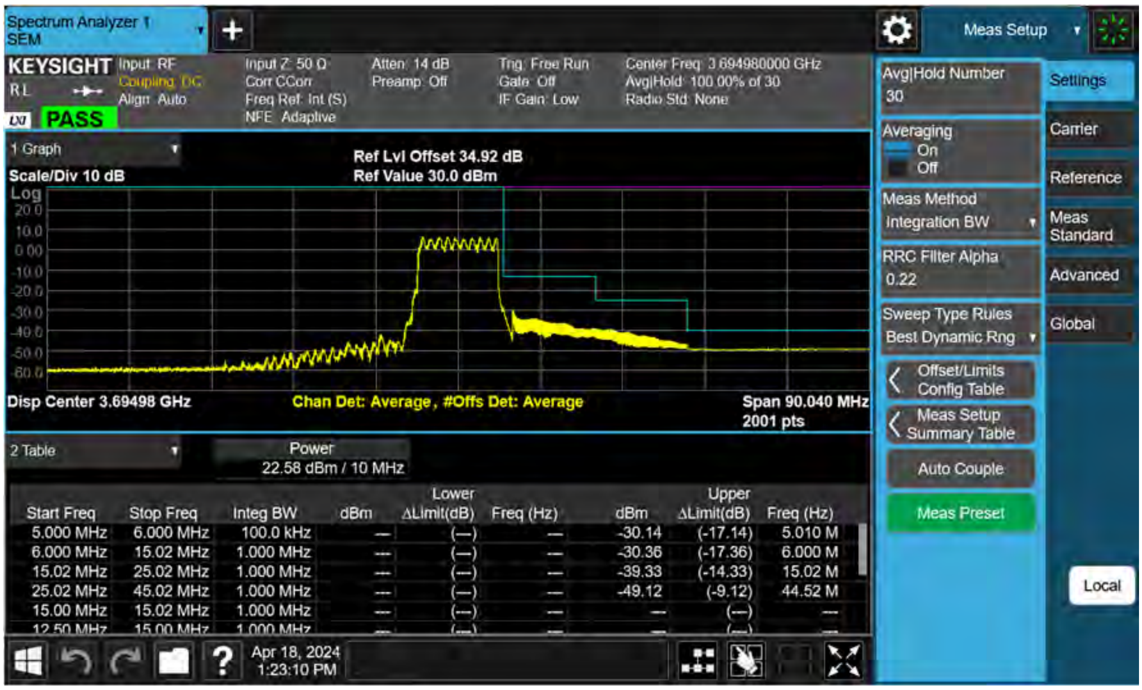
Sub6 n48. 10 M_BandEdge(Upper)_Mid_3624.99 MHz_BPSK_1RB



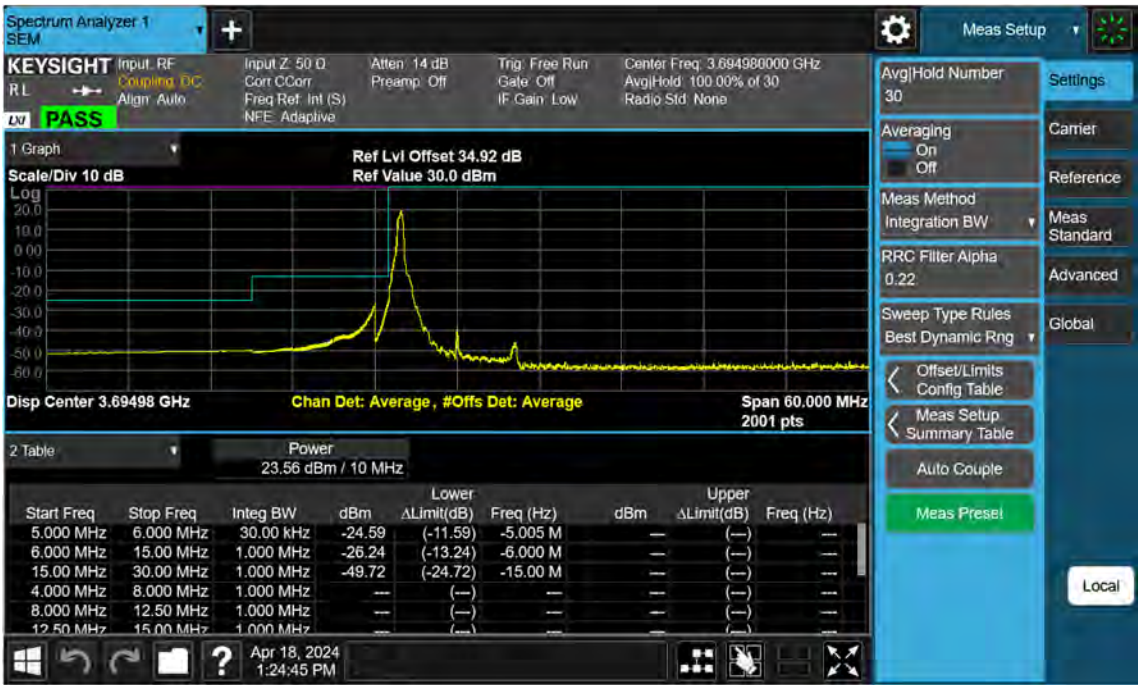
Sub6 n48. 10 M_BandEdge(Lower)_High_ 3694.98 MHz_BPSK_FullRB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
5.000 MHz	6.000 MHz	100.0 kHz	-28.97	(-15.97)	-5.005 M	---	(---)	---
6.000 MHz	15.00 MHz	1.000 MHz	-30.66	(-17.66)	-6.000 M	---	(---)	---
15.00 MHz	30.00 MHz	1.000 MHz	-40.45	(-15.45)	-15.30 M	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

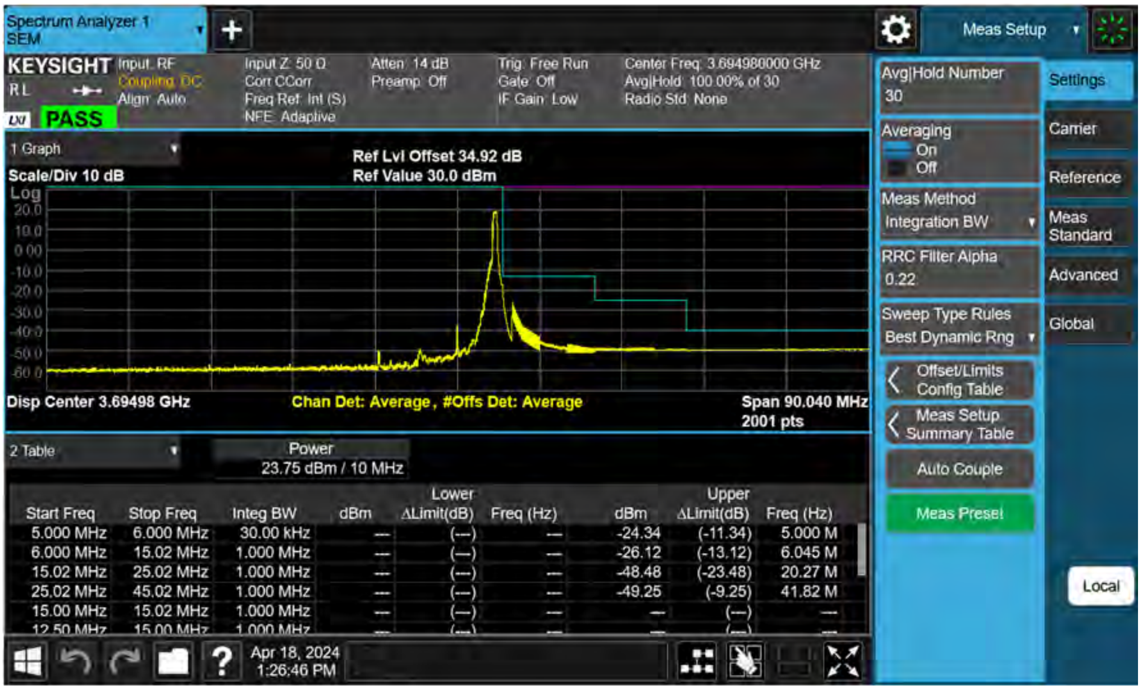
Sub6 n48. 10 M_BandEdge(Upper)_High_ 3694.98 MHz_BPSK_FullRB



Sub6 n48. 10 M_BandEdge(Lower)_High_ 3694.98 MHz_BPSK_1RB



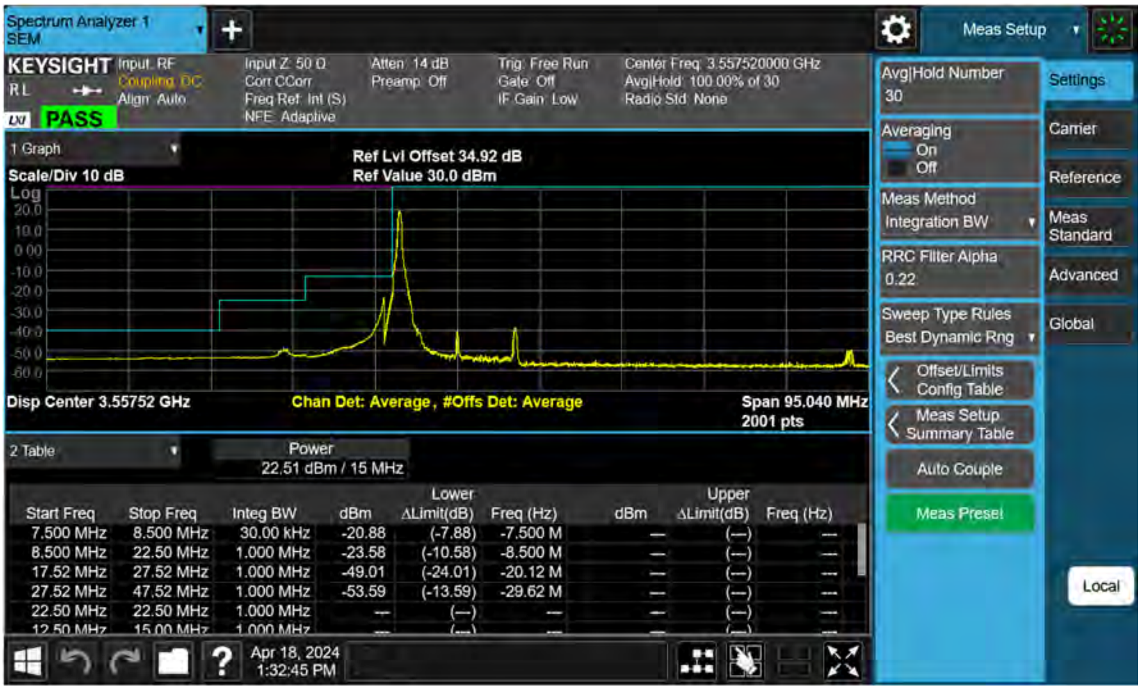
Sub6 n48. 10 M_BandEdge(Upper)_High_ 3694.98 MHz_BPSK_1RB



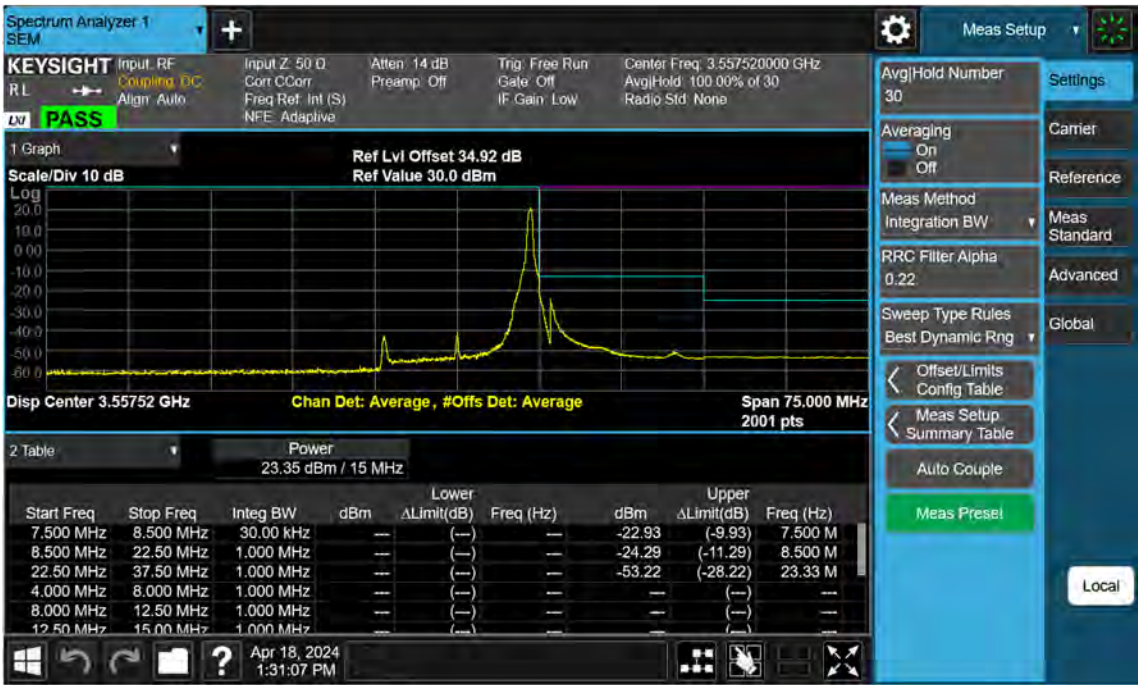
Sub6 n48. 15 M BandEdge(Lower)_Low_ 3557.52 MHz_BPSK_FullRB

Sub6 n48. 15 M_BandEdge(Upper)_Low_ 3557.52 MHz_BPSK_FullRB

Sub6 n48. 15 M_BandEdge(Lower)_Low_ 3557.52 MHz_BPSK_1RB



Sub6 n48. 15 M_BandEdge(Upper)_Low_ 3557.52 MHz_BPSK_1RB



Sub6 n48. 15 M_BandEdge(Center)_Mid_3624.99 MHz_BPSK_FullRB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
7.500 MHz	8.500 MHz	150.0 kHz	-29.70	(-16.70)	-7.500 M	-41.11	(-28.11)	7.500 M
8.500 MHz	22.50 MHz	1.000 MHz	-32.93	(-19.93)	-14.17 M	-39.59	(-26.59)	12.07 M
22.50 MHz	37.50 MHz	1.000 MHz	-43.54	(-18.54)	-24.23 M	-44.99	(-19.99)	23.40 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

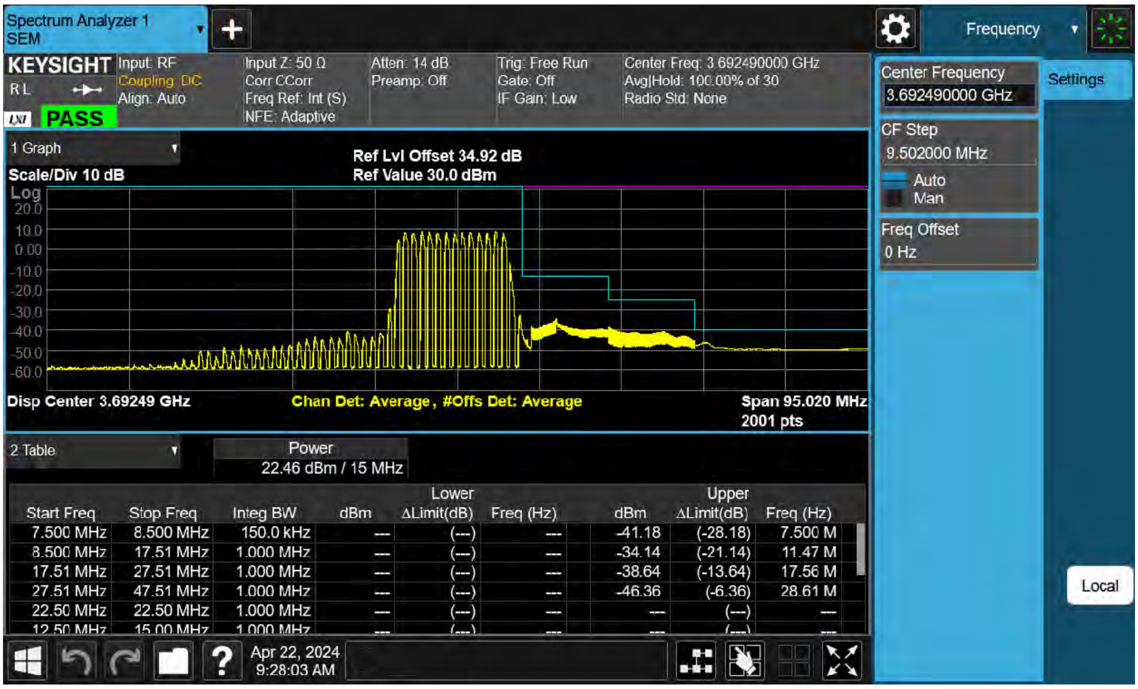
Sub6 n48. 15 M_BandEdge(Lower)_Mid_3624.99 MHz_BPSK_1RB

Sub6 n48. 15 M_BandEdge(Upper)_Mid_3624.99 MHz_BPSK_1RB

Sub6 n48. 15 M_BandEdge(Lower)_High_ 3692.49 MHz_BPSK_FullRB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
7.500 MHz	8.500 MHz	150.0 kHz	-28.45	(-15.45)	-7.505 M	---	(---)	---
8.500 MHz	22.50 MHz	1.000 MHz	-30.64	(-17.64)	-8.570 M	---	(---)	---
22.50 MHz	37.50 MHz	1.000 MHz	-44.46	(-19.46)	-24.38 M	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

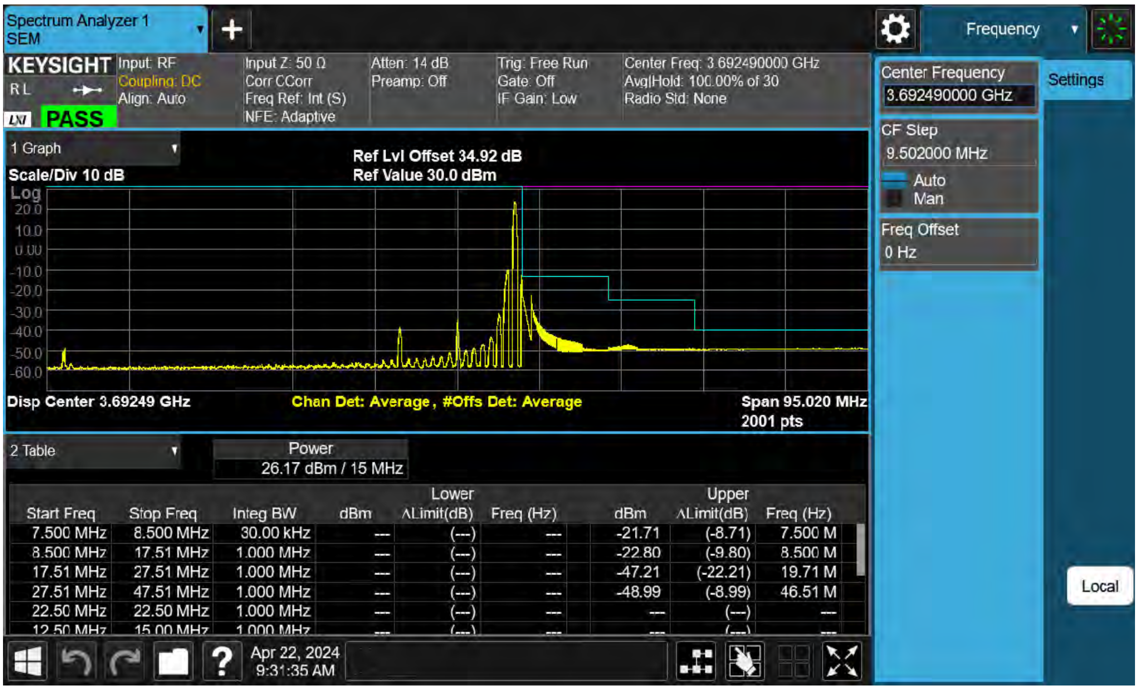
ub6 n48. 15 M_BandEdge(Upper)_High_ 3692.49 MHz_BPSK_FullRB



Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
7.500 MHz	8.500 MHz	150.0 kHz	---	(---)	---	-41.18	(-28.18)	7.500 M
8.500 MHz	17.51 MHz	1.000 MHz	---	(---)	---	-34.14	(-21.14)	11.47 M
17.51 MHz	27.51 MHz	1.000 MHz	---	(---)	---	-38.64	(-13.64)	17.56 M
27.51 MHz	47.51 MHz	1.000 MHz	---	(---)	---	-46.36	(-6.36)	28.61 M
22.50 MHz	22.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 15 M_BandEdge(Lower)_High_ 3692.49 MHz_BPSK_1RB

Sub6 n48. 15 M_BandEdge(Upper)_High_ 3692.49 MHz_BPSK_1RB



Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
7.500 MHz	8.500 MHz	30.00 kHz	---	(---)	---	-21.71	(-8.71)	7.500 M
8.500 MHz	17.51 MHz	1.000 MHz	---	(---)	---	-22.80	(-9.80)	8.500 M
17.51 MHz	27.51 MHz	1.000 MHz	---	(---)	---	-47.21	(-22.21)	19.71 M
27.51 MHz	47.51 MHz	1.000 MHz	---	(---)	---	-48.99	(-8.99)	46.51 M
22.50 MHz	22.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 20 M BandEdge(Lower)_Low_ 3560.01 MHz_BPSK_FullRB

Sub6 n48. 20 M_BandEdge(Upper)_Low_ 3560.01 MHz_BPSK_FullRB

Sub6 n48. 20 M_BandEdge(Lower)_Low_ 3560.01 MHz_BPSK_1RB

Sub6 n48. 20 M_BandEdge(Upper)_Low_ 3560.01 MHz_BPSK_1RB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
10.00 MHz	11.00 MHz	30.00 kHz	---	(---)	---	-24.93	(-11.93)	10.01 M
11.00 MHz	30.00 MHz	1.000 MHz	---	(---)	---	-27.00	(-14.00)	11.00 M
30.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	-50.30	(-25.30)	30.20 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 20 M_BandEdge(Center)_Mid_3624.99 MHz_BPSK_FullRB

			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
10.00 MHz	11.00 MHz	200.0 kHz	-30.96	(-17.96)	-10.01 M	-38.48	(-25.48)	10.00 M
11.00 MHz	30.00 MHz	1.000 MHz	-34.84	(-21.84)	-11.00 M	-36.81	(-23.81)	11.29 M
30.00 MHz	40.00 MHz	1.000 MHz	-40.74	(-15.74)	-30.10 M	-42.85	(-17.85)	33.70 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 20 M_BandEdge(Lower)_Mid_3624.99 MHz_BPSK_1RB

Sub6 n48. 20 M_BandEdge(Upper)_Mid_3624.99 MHz_BPSK_1RB

			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
10.00 MHz	11.00 MHz	30.00 kHz	-65.77	(-52.77)	-10.11 M	-25.52	(-12.52)	10.01 M
11.00 MHz	30.00 MHz	1.000 MHz	-51.60	(-38.60)	-28.29 M	-27.23	(-14.23)	11.00 M
30.00 MHz	40.00 MHz	1.000 MHz	-53.50	(-28.50)	-32.85 M	-51.73	(-26.73)	40.00 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

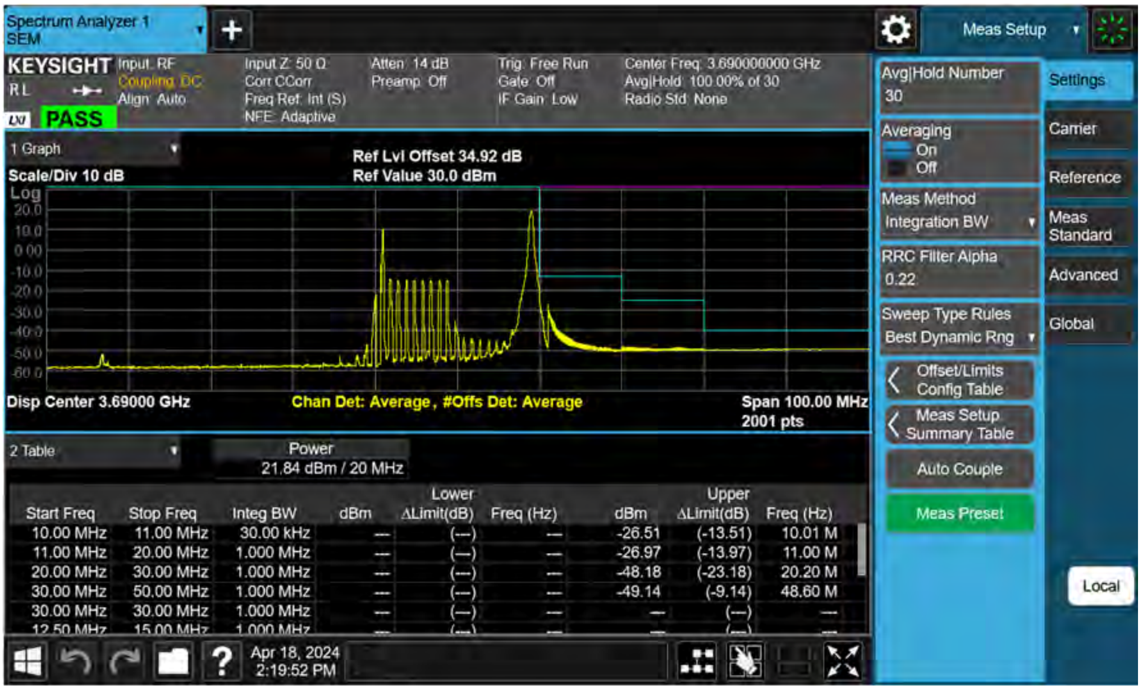
Sub6 n48. 20 M_BandEdge(Lower)_High_ 3690.00 MHz_BPSK_FullRB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
10.00 MHz	11.00 MHz	200.0 kHz	-30.95	(-17.95)	-10.01 M	---	(---)	---
11.00 MHz	30.00 MHz	1.000 MHz	-36.23	(-23.23)	-11.00 M	---	(---)	---
30.00 MHz	40.00 MHz	1.000 MHz	-47.55	(-22.55)	-30.05 M	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 20 M_BandEdge(Upper)_High_ 3690.00 MHz_BPSK_FullRB

Sub6 n48. 20 M_BandEdge(Lower)_High_ 3690.00 MHz_BPSK_1RB

Sub6 n48. 20 M_BandEdge(Upper)_High_ 3690.00 MHz_BPSK_1RB



Sub6 n48. 30 M BandEdge(Lower)_Low_3565.02 MHz_BPSK_FullRB

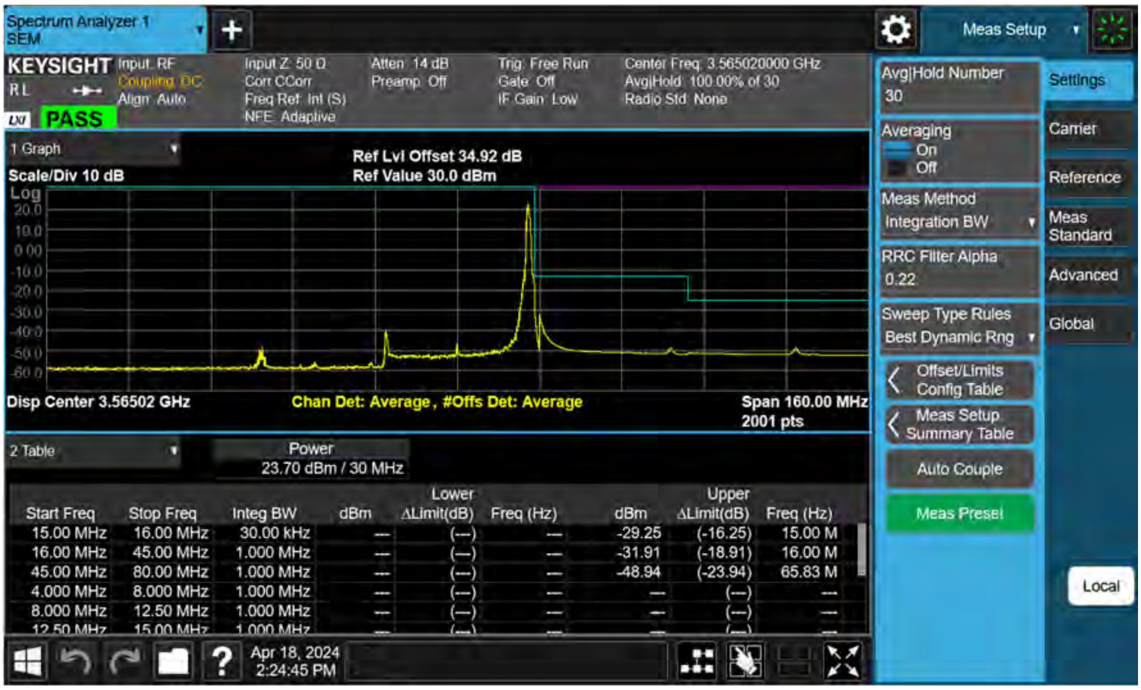
Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	300.0 kHz	-33.12	(-20.12)	-15.01 M	---	(---)	---
16.00 MHz	45.00 MHz	1.000 MHz	-38.65	(-25.65)	-32.82 M	---	(---)	---
25.02 MHz	35.02 MHz	1.000 MHz	-36.84	(-11.84)	-26.17 M	---	(---)	---
35.02 MHz	55.02 MHz	1.000 MHz	-43.18	(-3.18)	-35.02 M	---	(---)	---
45.00 MHz	45.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 30 M_BandEdge(Upper)_Low_ 3565.02 MHz_BPSK_FullRB

Sub6 n48. 30 M_BandEdge(Lower)_Low_ 3565.02 MHz_BPSK_1RB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	30.00 kHz	-31.81	(-18.81)	-15.01 M	---	(---)	---
16.00 MHz	45.00 MHz	1.000 MHz	-31.97	(-18.97)	-16.00 M	---	(---)	---
25.02 MHz	35.02 MHz	1.000 MHz	-51.74	(-26.74)	-25.07 M	---	(---)	---
35.02 MHz	55.02 MHz	1.000 MHz	-53.26	(-13.26)	-36.72 M	---	(---)	---
45.00 MHz	45.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 30 M_BandEdge(Upper)_Low_ 3565.02 MHz_BPSK_1RB



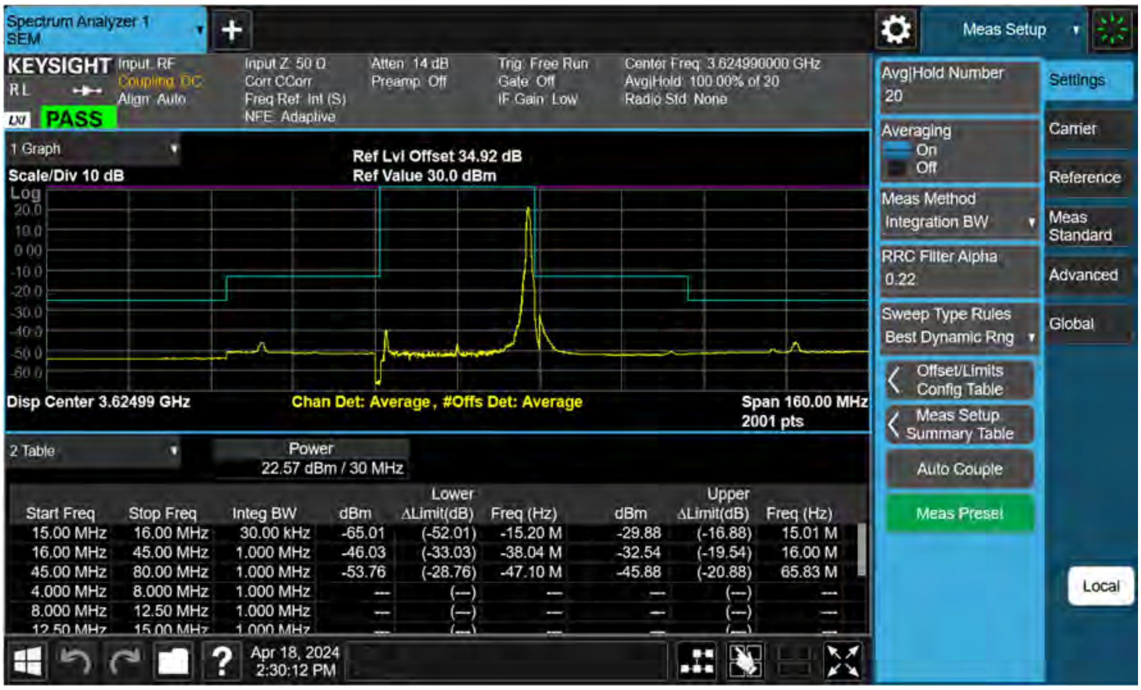
Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	30.00 kHz	---	(---)	---	-29.25	(-16.25)	15.00 M
16.00 MHz	45.00 MHz	1.000 MHz	---	(---)	---	-31.91	(-18.91)	16.00 M
45.00 MHz	80.00 MHz	1.000 MHz	---	(---)	---	-48.94	(-23.94)	65.83 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 30 M_BandEdge(Center)_Mid_3624.99 MHz_BPSK_FullRB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	300.0 kHz	-33.12	(-20.12)	-15.00 M	-39.80	(-26.80)	15.35 M
16.00 MHz	45.00 MHz	1.000 MHz	-35.66	(-22.66)	-28.33 M	-43.63	(-30.63)	26.44 M
45.00 MHz	80.00 MHz	1.000 MHz	-47.46	(-22.46)	-60.05 M	-46.16	(-21.16)	61.10 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 30 M_BandEdge(Lower)_Mid_3624.99 MHz_BPSK_1RB

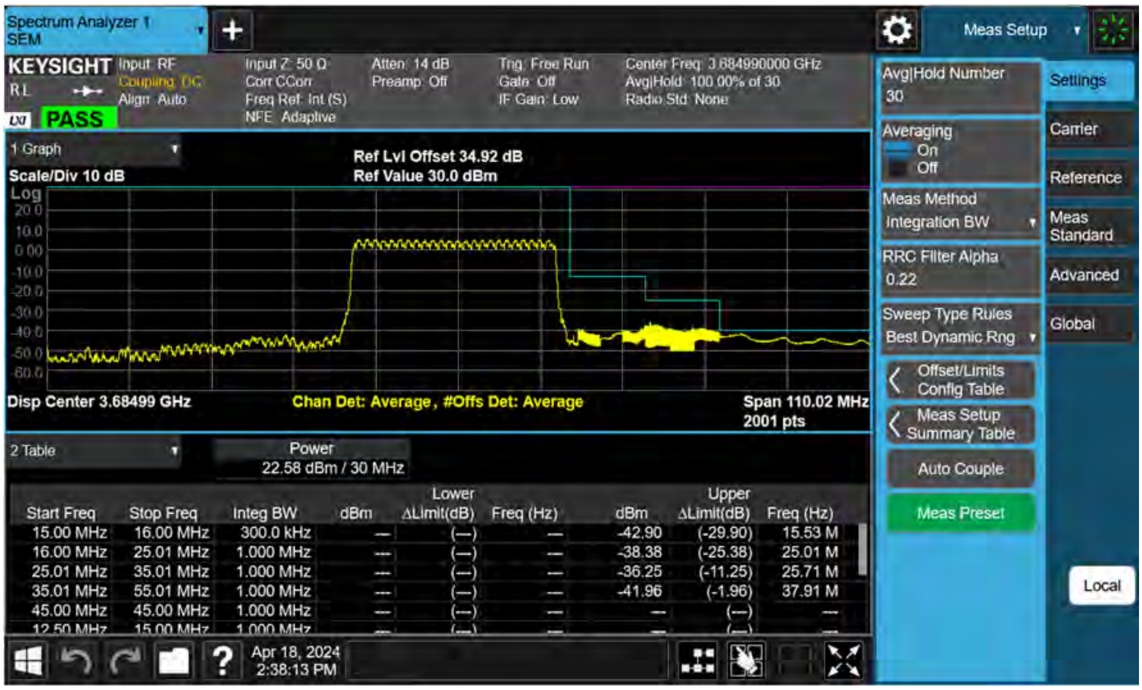
Sub6 n48. 30 M_BandEdge(Upper)_Mid_3624.99 MHz_BPSK_1RB



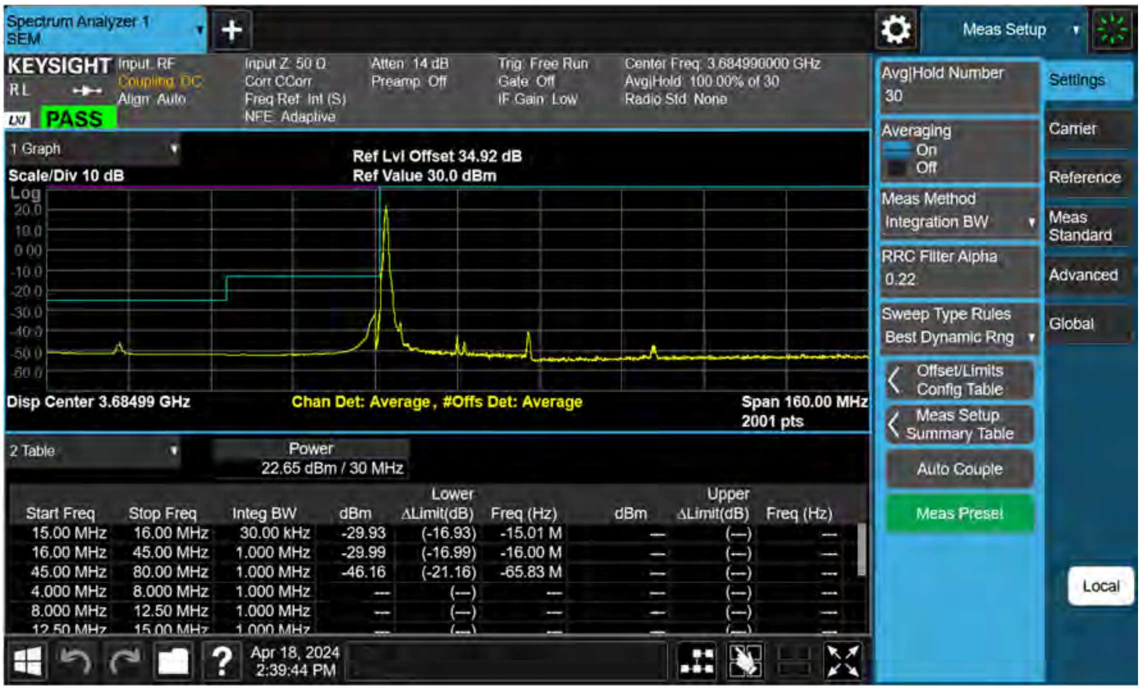
Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	30.00 kHz	-65.01	(-52.01)	-15.20 M	-29.88	(-16.88)	15.01 M
16.00 MHz	45.00 MHz	1.000 MHz	-46.03	(-33.03)	-38.04 M	-32.54	(-19.54)	16.00 M
45.00 MHz	80.00 MHz	1.000 MHz	-53.76	(-28.76)	-47.10 M	-45.88	(-20.88)	65.83 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 30 M_BandEdge(Lower)_High_ 3684.99 MHz_BPSK_FullRB

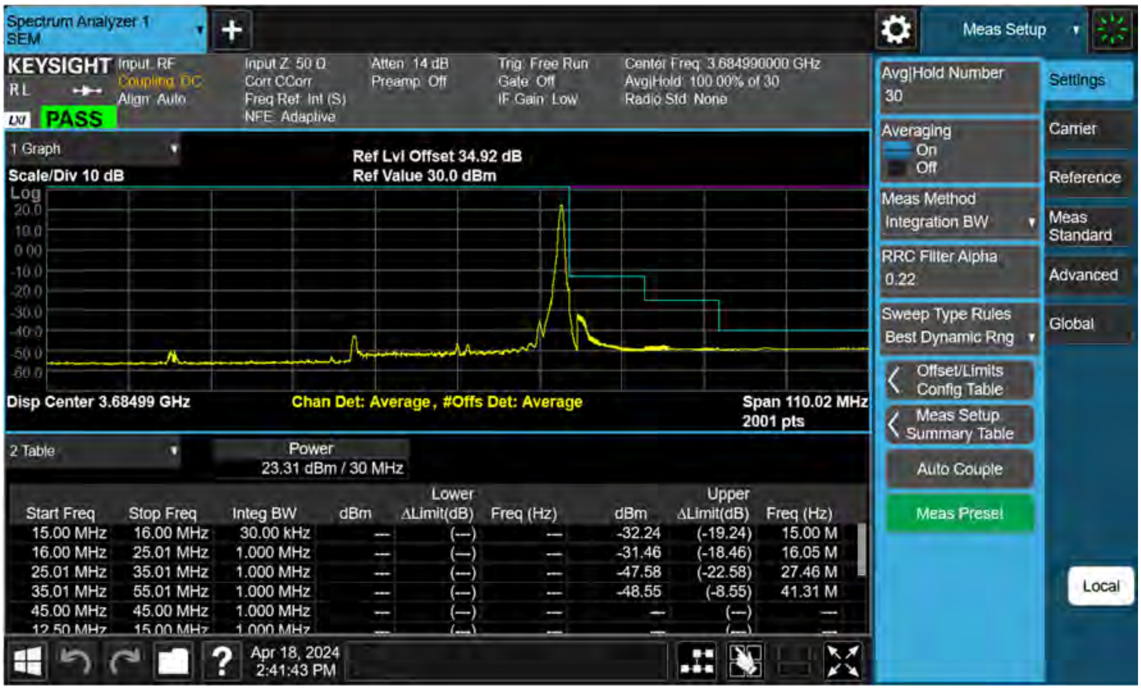
Sub6 n48. 30 M_BandEdge(Upper)_High_ 3684.99 MHz_BPSK_FullRB



Sub6 n48. 30 M_BandEdge(Lower)_High_ 3684.99 MHz_BPSK_1RB



Sub6 n48. 30 M_BandEdge(Upper)_High_ 3684.99 MHz_BPSK_1RB

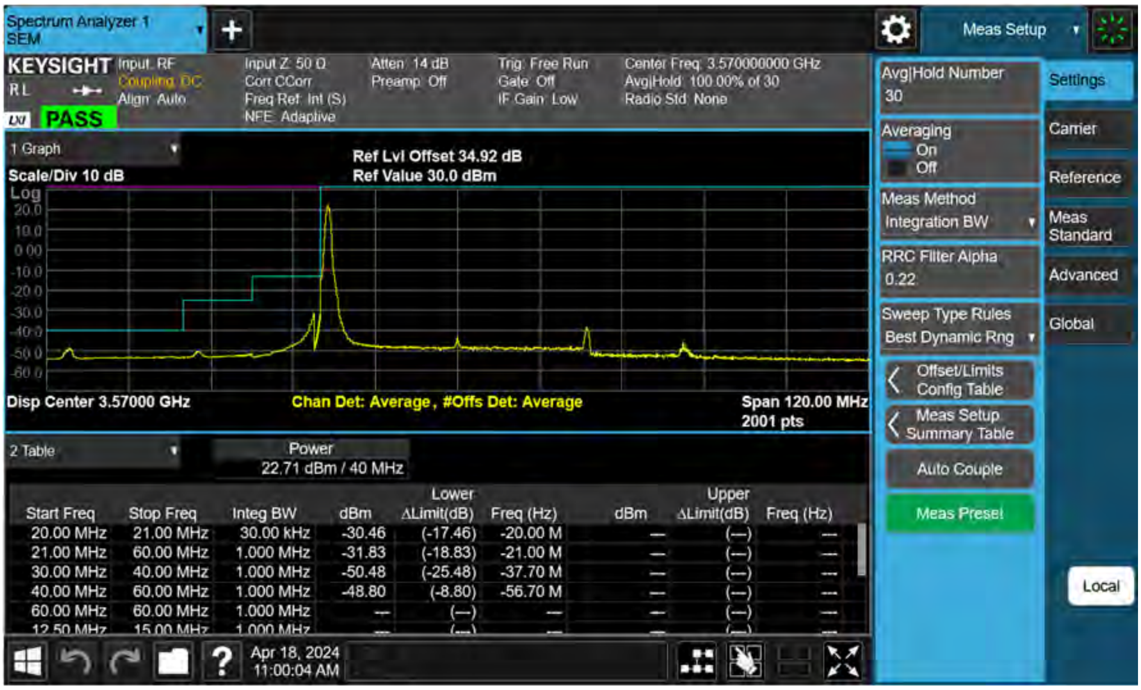


Sub6 n48. 40 M BandEdge(Lower)_Low_ 3570.00 MHz_BPSK_FullRB

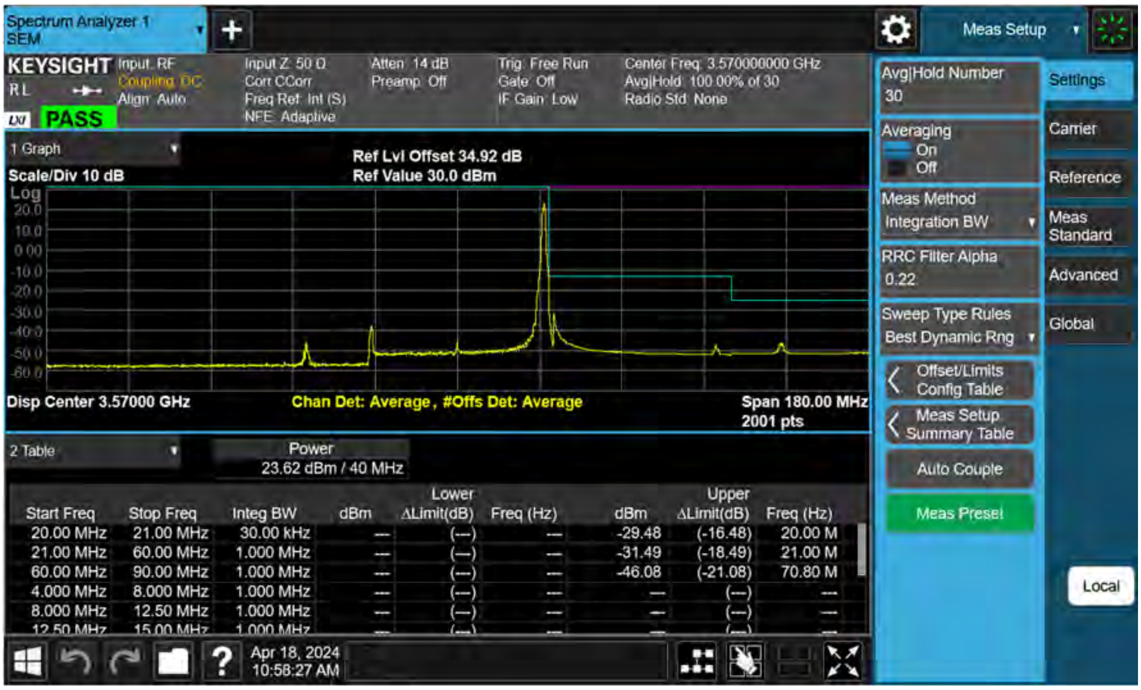
Sub6 n48. 40 M_BandEdge(Upper)_Low_ 3570.00 MHz_BPSK_FullRB

			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
20.00 MHz	21.00 MHz	390.0 kHz	---	(---)	---	-46.49	(-33.49)	20.89 M
21.00 MHz	60.00 MHz	1.000 MHz	---	(---)	---	-40.78	(-27.78)	36.41 M
60.00 MHz	90.00 MHz	1.000 MHz	---	(---)	---	-47.03	(-22.03)	72.45 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 40 M_BandEdge(Lower)_Low_ 3570.00 MHz_BPSK_1RB



Sub6 n48. 40 M_BandEdge(Upper)_Low_ 3570.00 MHz_BPSK_1RB

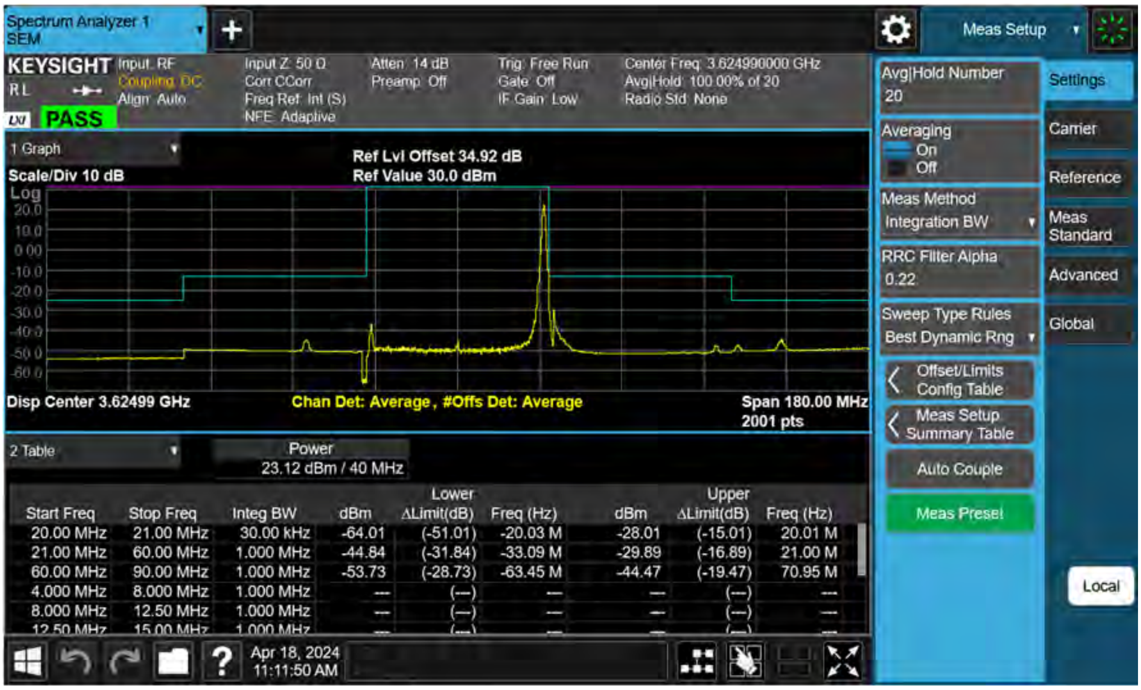


			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
20.00 MHz	21.00 MHz	30.00 kHz	---	(---)	---	-29.48	(-16.48)	20.00 M
21.00 MHz	60.00 MHz	1.000 MHz	---	(---)	---	-31.49	(-18.49)	21.00 M
60.00 MHz	90.00 MHz	1.000 MHz	---	(---)	---	-46.08	(-21.08)	70.80 M
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n48. 40 M_BandEdge(Center)_Mid_3624.99 MHz_BPSK_FullRB

Sub6 n48. 40 M_BandEdge(Lower)_Mid_3624.99 MHz_BPSK_1RB

Sub6 n48. 40 M_BandEdge(Upper)_Mid_3624.99 MHz_BPSK_1RB



Sub6 n48. 40 M_BandEdge(Lower)_High_ 3679.98 MHz_BPSK_FullRB

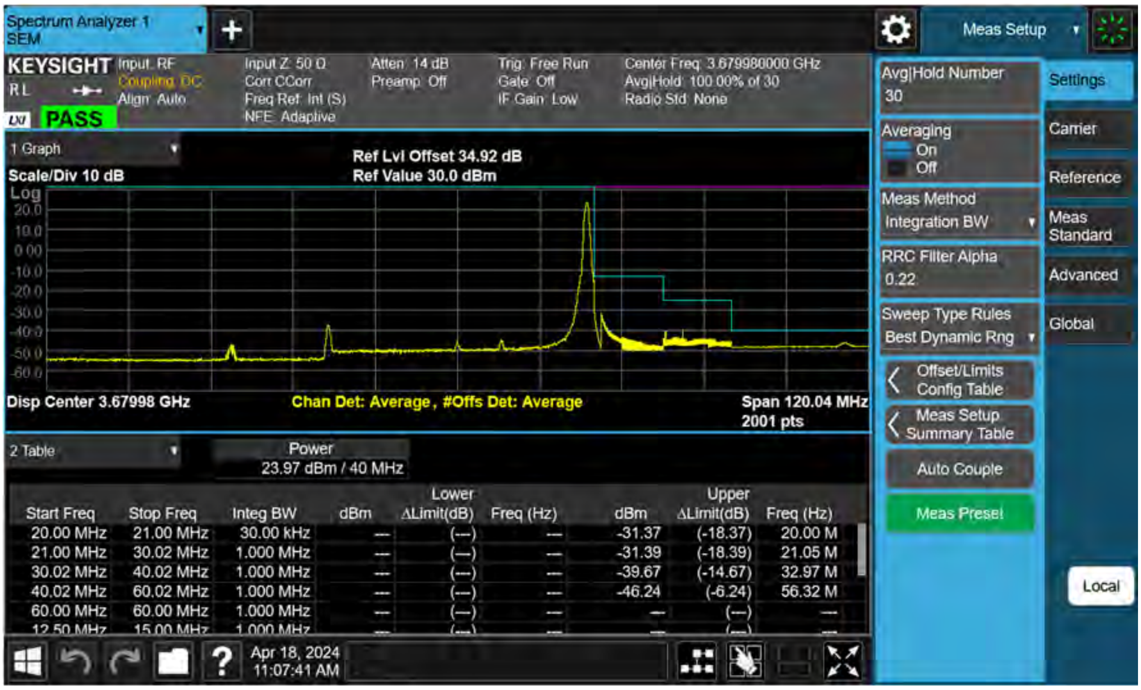
Sub6 n48. 40 M_BandEdge(Upper)_High_ 3679.98 MHz_BPSK_FullRB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
20.00 MHz	21.00 MHz	390.0 kHz	---	(---)	---	-43.16	(-30.16)	20.30 M
21.00 MHz	30.02 MHz	1.000 MHz	---	(---)	---	-41.07	(-28.07)	29.79 M
30.02 MHz	40.02 MHz	1.000 MHz	---	(---)	---	-39.31	(-14.31)	34.22 M
40.02 MHz	60.02 MHz	1.000 MHz	---	(---)	---	-41.12	(-1.12)	46.42 M
60.00 MHz	60.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

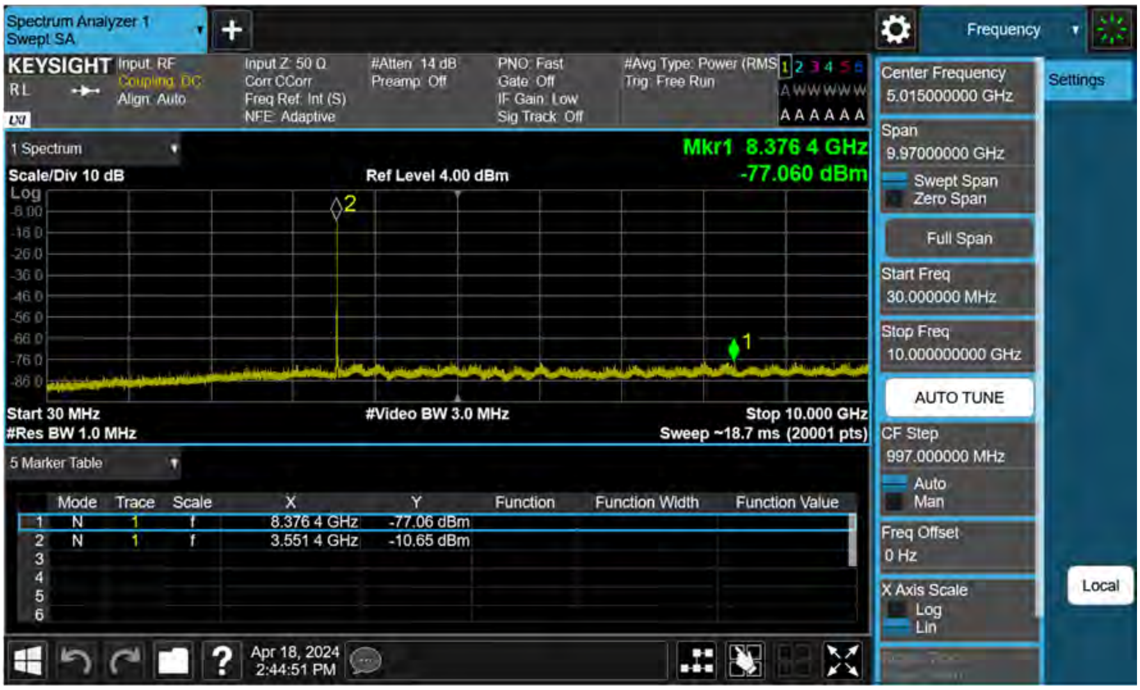
Sub6 n48. 40 M_BandEdge(Lower)_High_ 3679.98 MHz_BPSK_1RB

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
20.00 MHz	21.00 MHz	30.00 kHz	-26.52	(-13.52)	-20.00 M	---	(---)	---
21.00 MHz	60.00 MHz	1.000 MHz	-29.35	(-16.35)	-21.00 M	---	(---)	---
60.00 MHz	90.00 MHz	1.000 MHz	-44.88	(-19.88)	-70.80 M	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

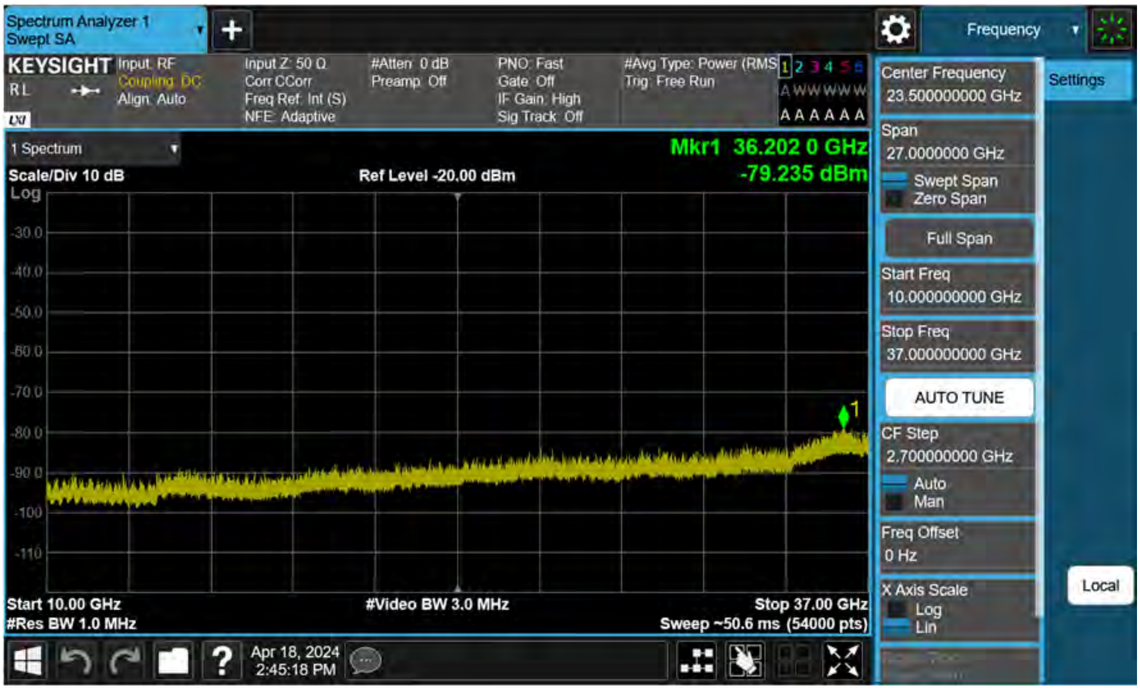
Sub6 n48. 40 M_BandEdge(Upper)_High_ 3679.98 MHz_BPSK_1RB



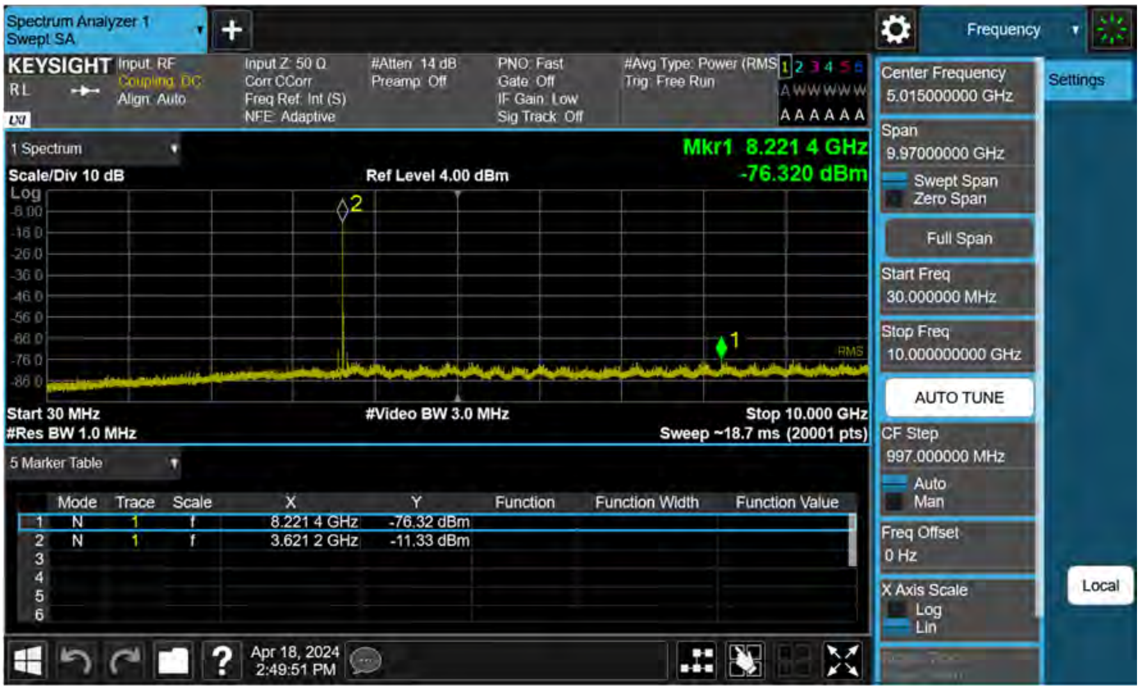
Sub6 n48. Conducted Spurious Plot 1 (10 MHz Ch. 637000 BPSK RB 1, Offset 1)



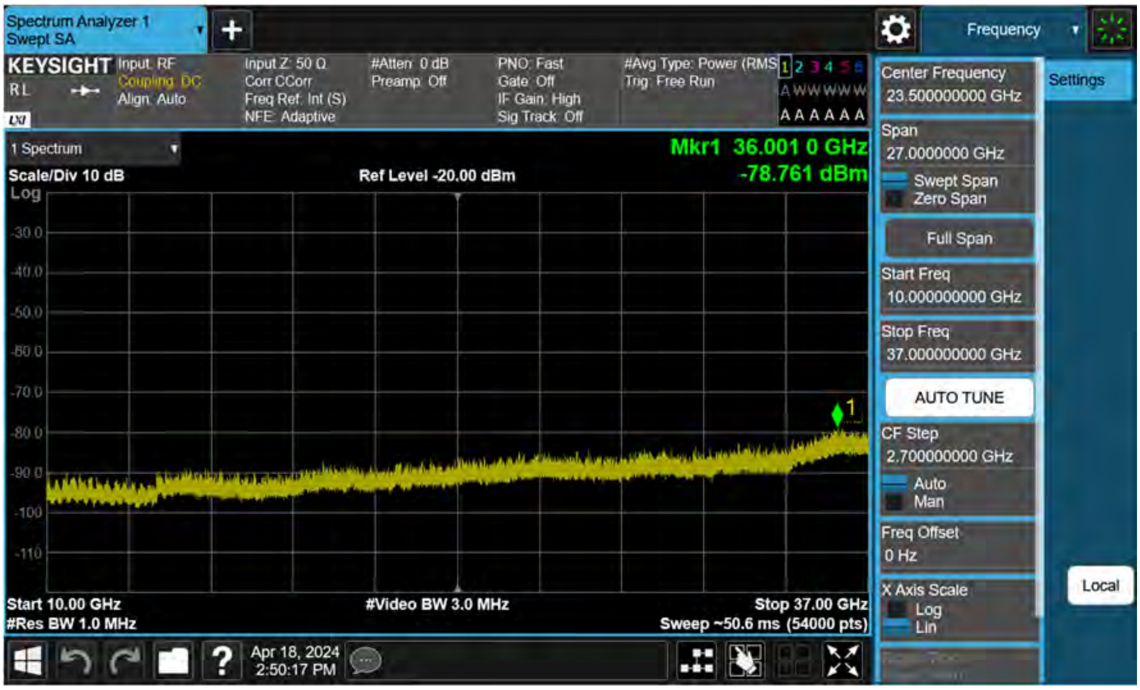
Sub6 n48. Conducted Spurious Plot 2 (10 MHz Ch. 637000 BPSK RB 1, Offset 1)



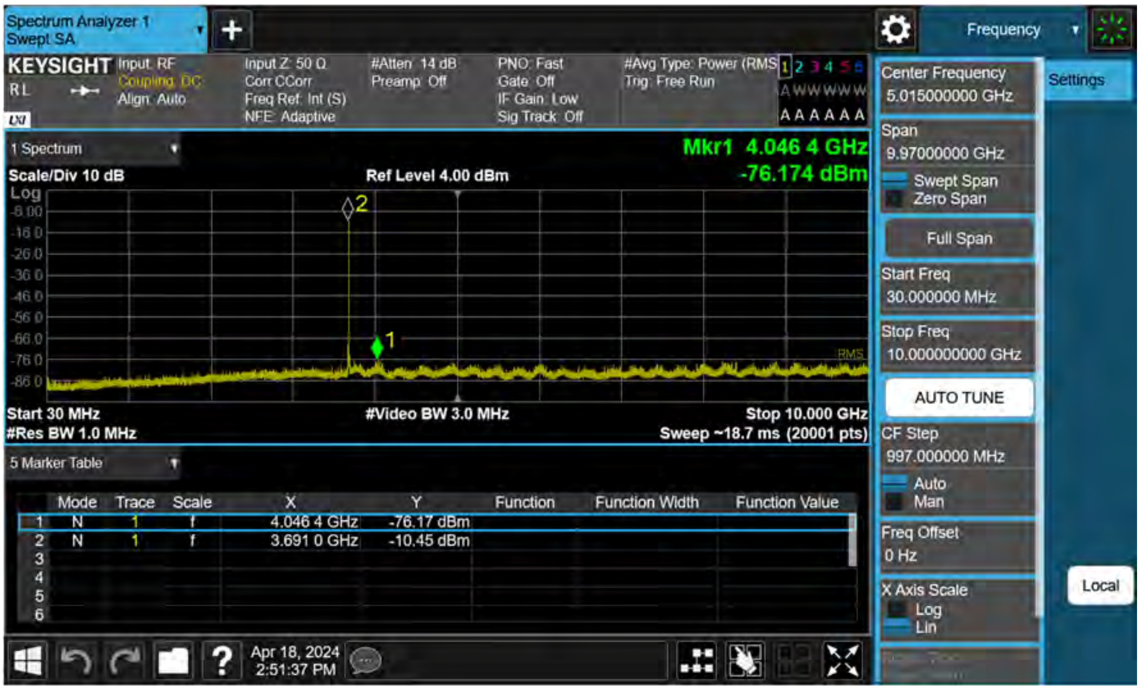
Sub6 n48. Conducted Spurious Plot 1 (10 MHz Ch. 641666 BPSK RB 1, Offset 1)



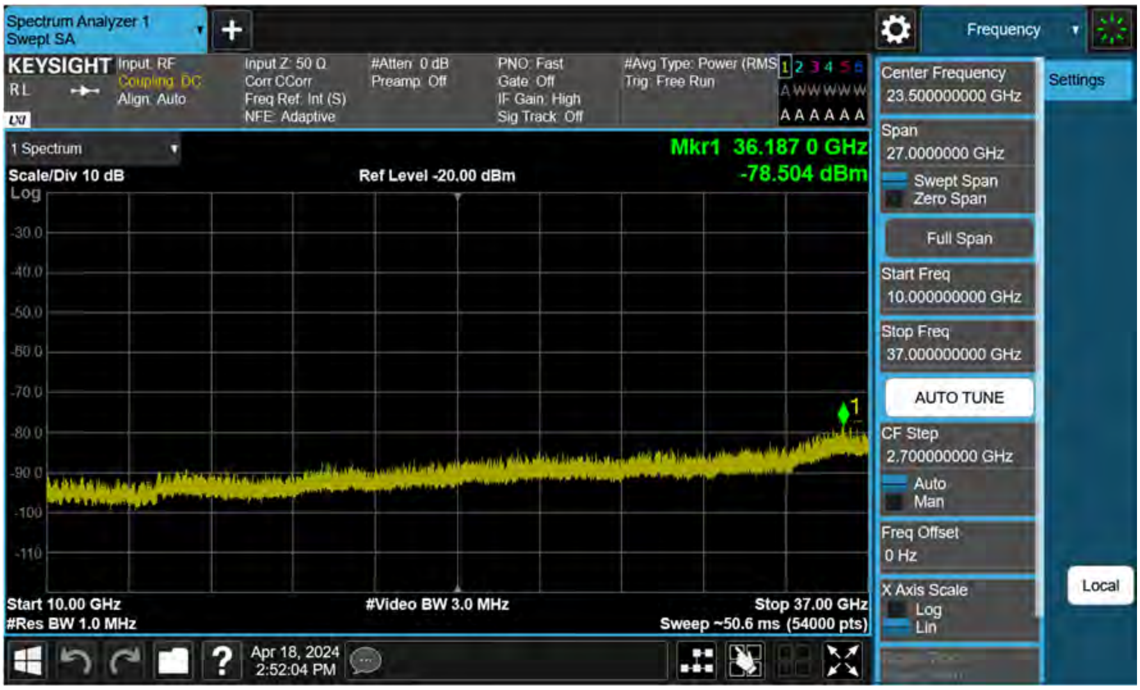
Sub6 n48. Conducted Spurious Plot 2 (10 MHz Ch. 641666 BPSK RB 1, Offset 1)



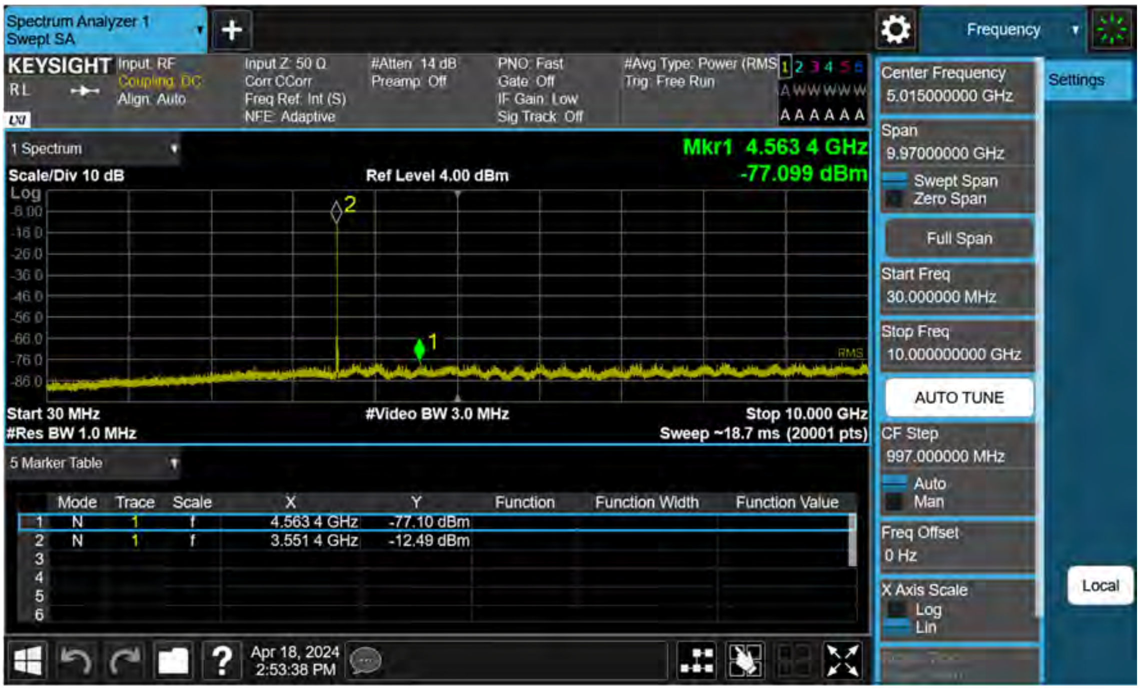
Sub6 n48. Conducted Spurious Plot 1 (10 MHz Ch. 646332 BPSK RB 1, Offset 1)



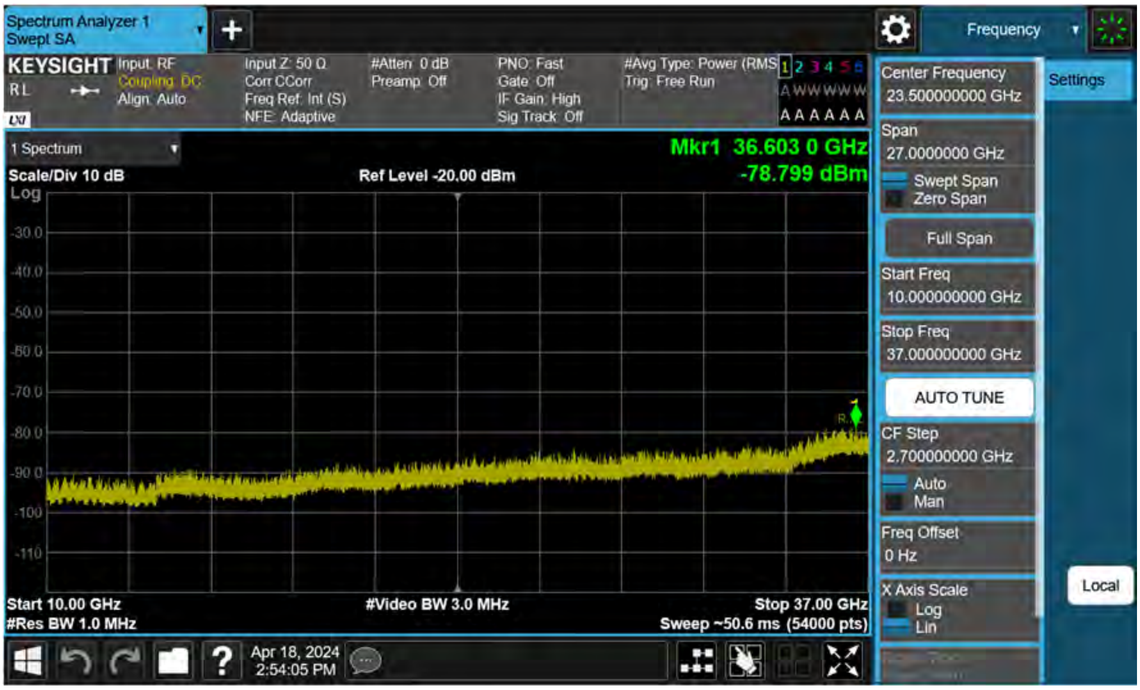
Sub6 n48. Conducted Spurious Plot 2 (10 MHz Ch. 646332 BPSK RB 1, Offset 1)



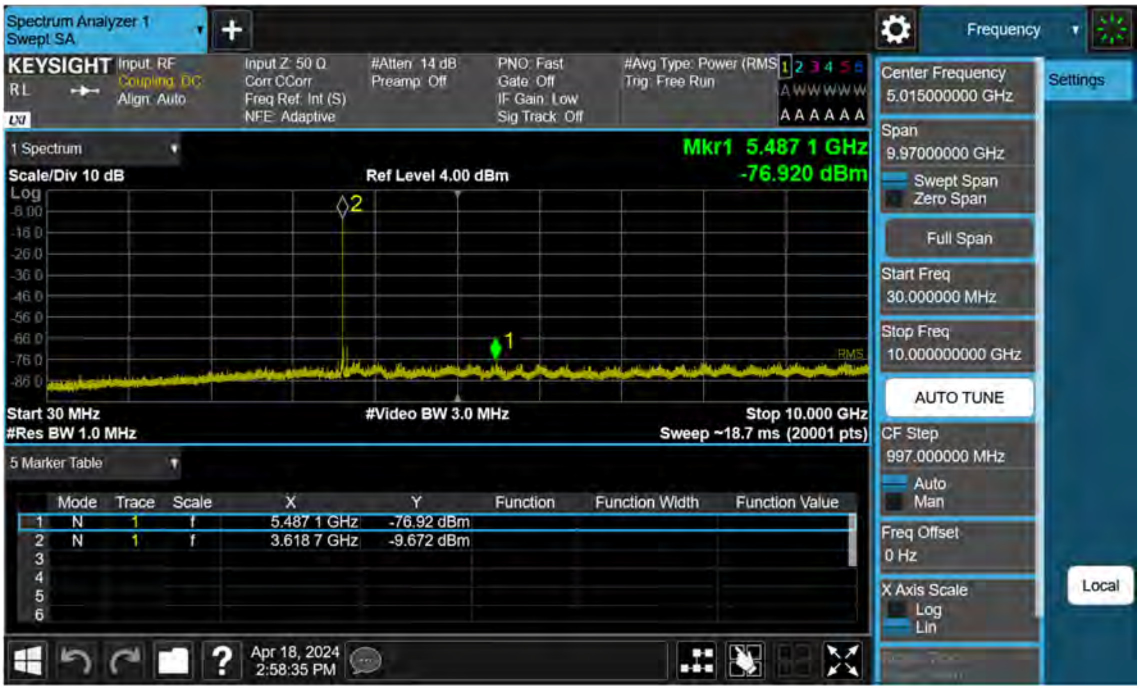
Sub6 n48. Conducted Spurious Plot 1 (15 MHz Ch. 637168 BPSK RB 1, Offset 1)



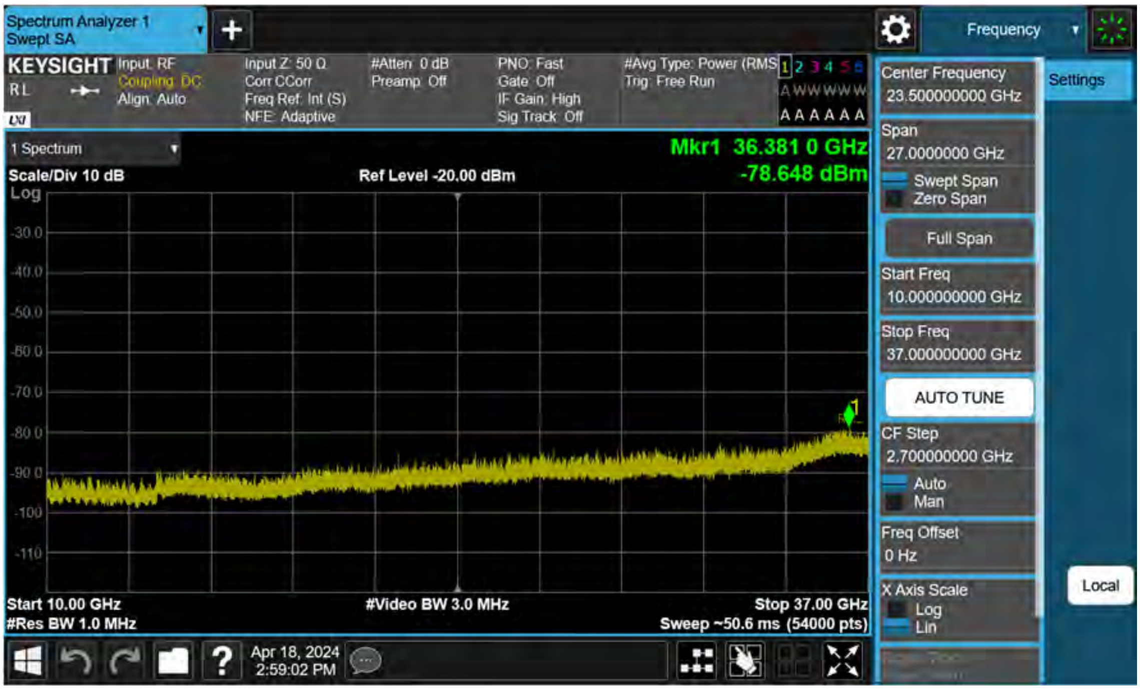
Sub6 n48. Conducted Spurious Plot 2 (15 MHz Ch. 637168 BPSK RB 1, Offset 1)



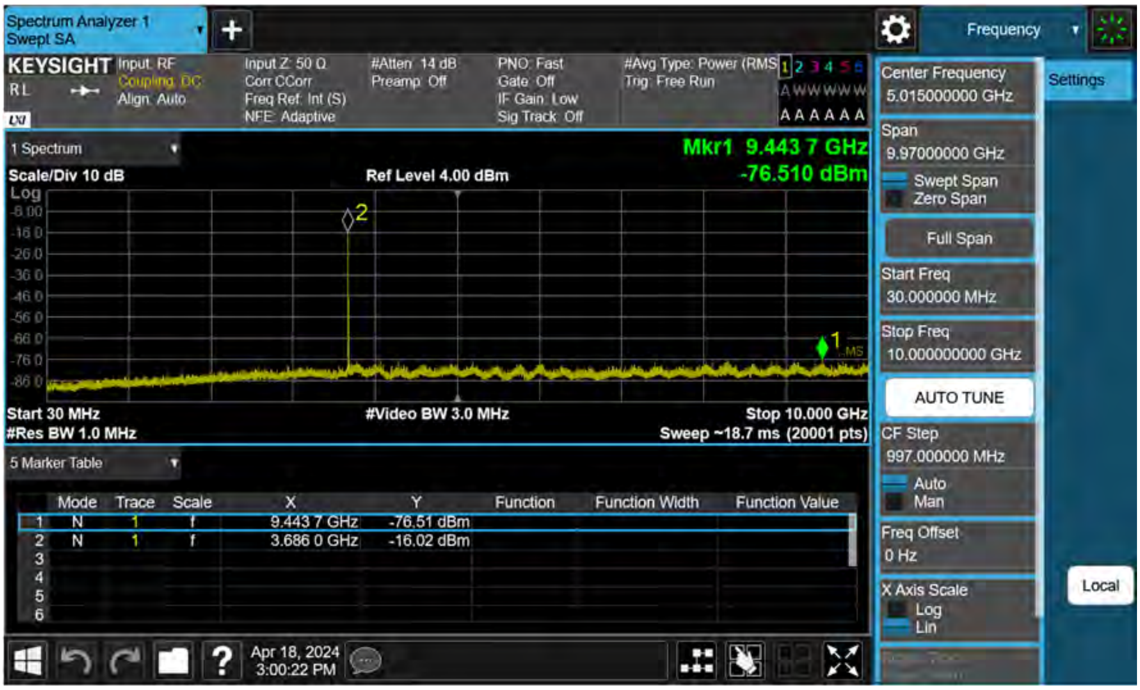
Sub6 n48. Conducted Spurious Plot 1 (15 MHz Ch. 641666 BPSK RB 1, Offset 1)



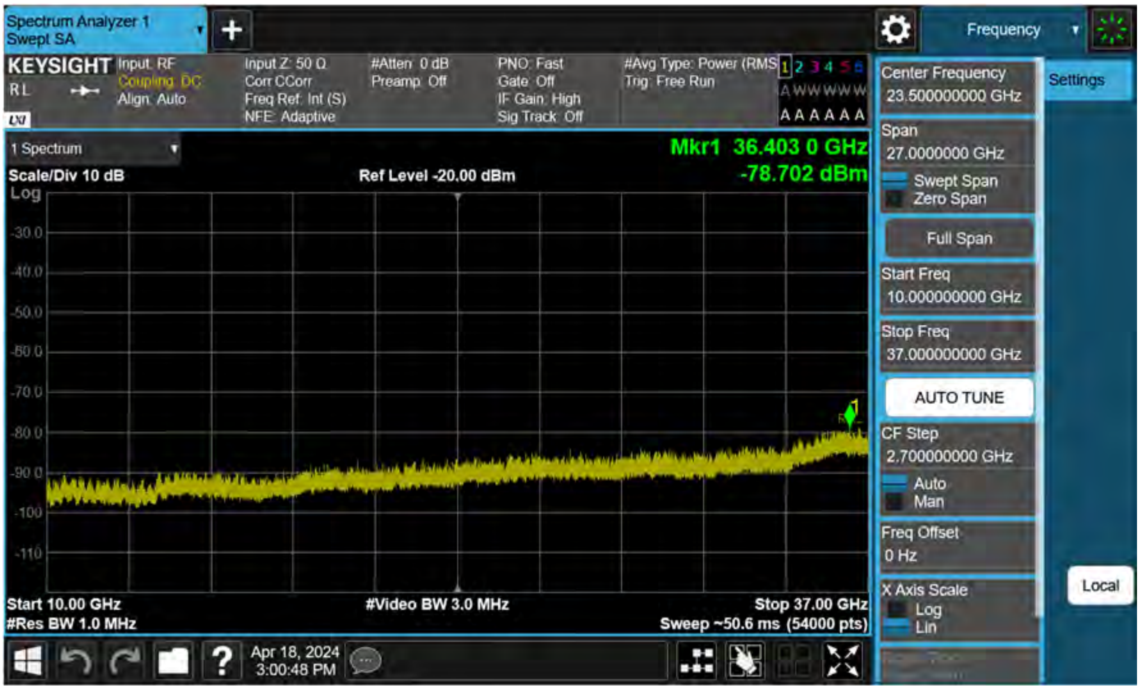
Sub6 n48. Conducted Spurious Plot 2 (15 MHz Ch. 641666 BPSK RB 1, Offset 1)



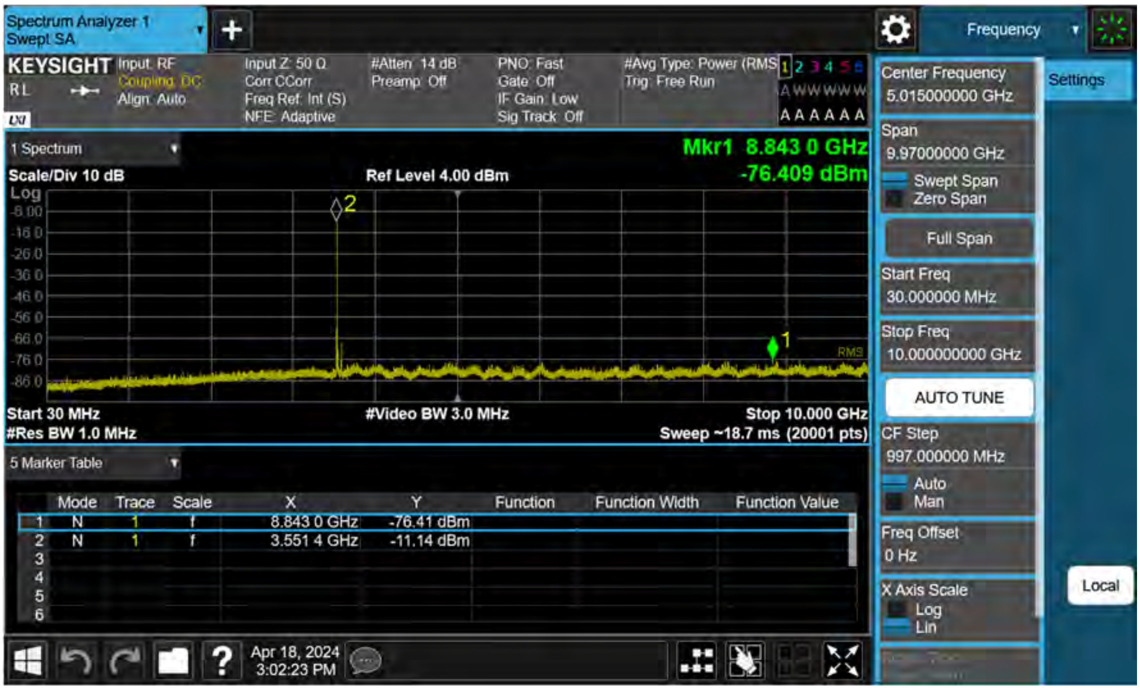
Sub6 n48. Conducted Spurious Plot 1 (15 MHz Ch. 646166 BPSK RB 1, Offset 1)



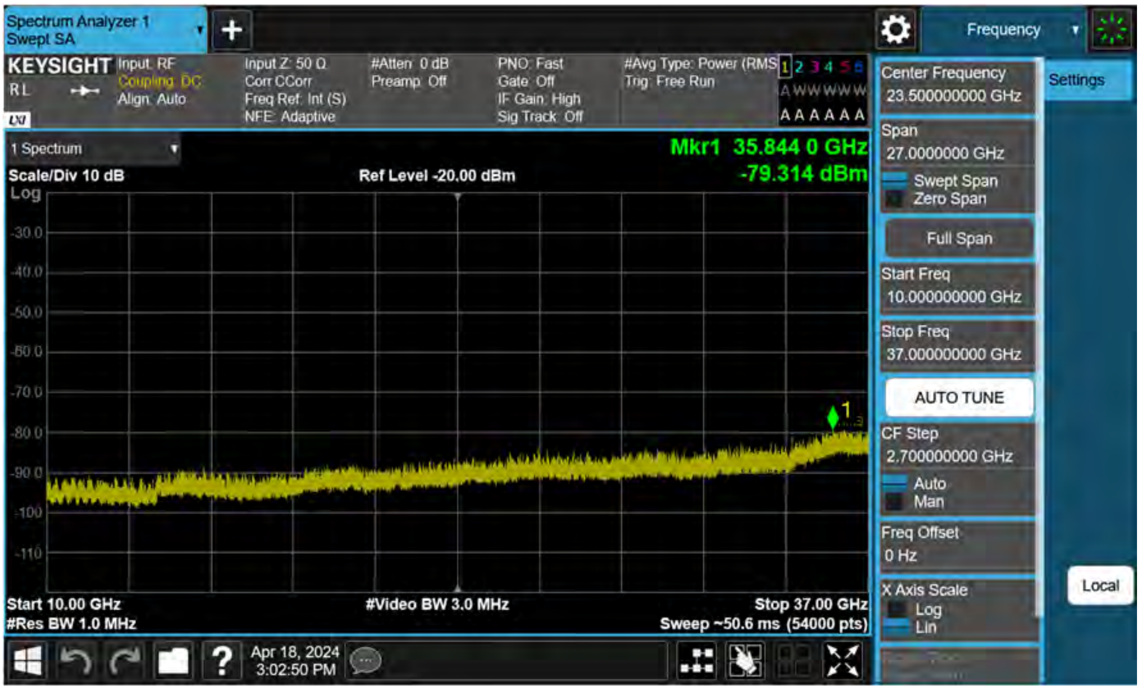
Sub6 n48. Conducted Spurious Plot 2 (15 MHz Ch. 646166 BPSK RB 1, Offset 1)



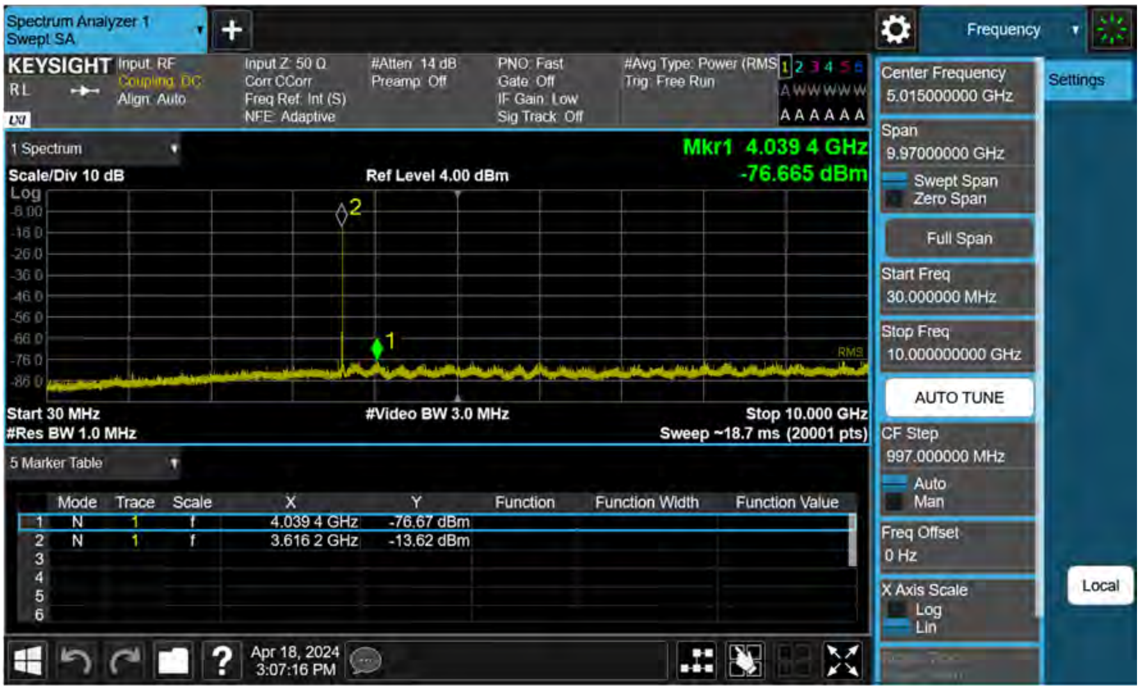
Sub6 n48. Conducted Spurious Plot 1 (20 MHz Ch. 637334 BPSK RB 1, Offset 1)



Sub6 n48. Conducted Spurious Plot 2 (20 MHz Ch. 637334 BPSK RB 1, Offset 1)

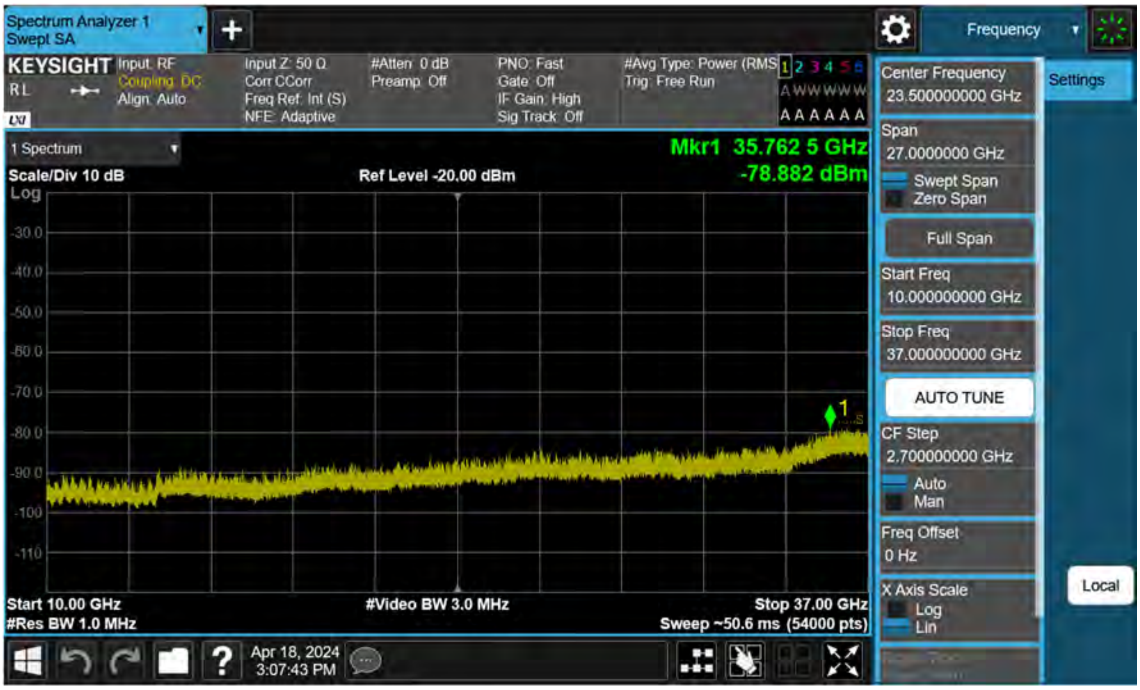


Sub6 n48. Conducted Spurious Plot 1 (20 MHz Ch. 641666 BPSK RB 1, Offset 1)



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	4.039 4 GHz	-76.67 dBm			
2	N	1	f	3.616 2 GHz	-13.62 dBm			
3								
4								
5								
6								

Sub6 n48. Conducted Spurious Plot 2 (20 MHz Ch. 641666 BPSK RB 1, Offset 1)



Sub6 n48. Conducted Spurious Plot 1 (20 MHz Ch. 646000 BPSK RB 1, Offset 1)