TEST REPORT

FCC Sub6 n41(38) Test for SM-F741U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2404-FC031

DATE OF ISSUE
April 26, 2024

Tested by
Jae Ryang Do

Technical Manager
Jong Seok Lee

HCT CO., LTD.
BongJai Huh / CEO

HCT CO., LTD. 2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Tel. +82 31 645 6300 Fax. +82 31 645 6401

HCT CO.,LTD.
2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT

REPORT NO.
HCT-RF-2404-FC031

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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 25, 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:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27

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

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).

CONTENTS

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:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile phone
Model(s):	SM-F741U
Additional Model(s)	SM-F741U1
SCS(kHz):	30
Bandwidth(MHz):	Sub6 n38 : 5, 10, 15, 20, 25, 30, 35, 40 Sub6 n41(38) : 5, 10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency:	Sub6 n38 2575.000 – 2615.000 : 10 MHz(Sub6 n38) 2577.500 – 2612.500 : 15 MHz(Sub6 n38) 2580.000 – 2610.000 : 20 MHz(Sub6 n38) 2582.500 – 2607.500 : 25 MHz(Sub6 n38) 2585.000 – 2605.000 : 30 MHz(Sub6 n38) 2590.000 – 2600.000 : 40 MHz(Sub6 n38) Sub6 n41(38) 2501.010 – 2685.000 : 10 MHz(Sub6 n41(38)) 2503.500 – 2682.480 : 15 MHz(Sub6 n41(38)) 2506.020 – 2679.990 : 20 MHz(Sub6 n41(38)) 2508.510 – 2677.500 : 25 MHz(Sub6 n41(38)) 2511.000 – 2674.980 : 30 MHz(Sub6 n41(38)) 2516.010 – 2670.000 : 40 MHz(Sub6 n41(38)) 2521.020 – 2664.990 : 50 MHz(Sub6 n41) 2526.000 – 2659.980 : 60 MHz(Sub6 n41) 2531.010 – 2655.000 : 70 MHz(Sub6 n41) 2536.020 – 2649.990 : 80 MHz(Sub6 n41) 2541.000 – 2644.980 : 90 MHz(Sub6 n41) 2546.010 – 2640.000 : 100 MHz(Sub6 n41)
Date(s) of Tests:	February 27, 2024 ~ April 25, 2024
Serial number:	Radiated : R3CX20KJSJW(Sub6 n38) R3CX30BD5JJ(Sub6 n41(38)) R3CX30HJ3RM(Sub6 n41(38)_RSE) Conducted : 7b5599c1a7507ece(Sub6 n38) R3CX20KK2JX(Sub6 n41(38))

1.1. MAXIMUM OUTPUT POWER

ANT B

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n38 (10)	2575.000 – 2615.000	8M64G7D	PI/2 BPSK	0.102	20.09
		8M71G7D	QPSK	0.102	20.08
		8M68W7D	16QAM	0.080	19.01
		8M64W7D	64QAM	0.058	17.64
		8M65W7D	256QAM	0.034	15.29
Sub6 n38 (15)	2577.500 – 2612.500	12M0G7D	PI/2 BPSK	0.101	20.04
		12M9G7D	QPSK	0.097	19.86
		13M0W7D	16QAM	0.077	18.85
		13M0W7D	64QAM	0.056	17.45
		13M0W7D	256QAM	0.033	15.14
Sub6 n38 (20)	2580.000 – 2610.000	18M0G7D	PI/2 BPSK	0.100	19.98
		18M0G7D	QPSK	0.097	19.86
		18M0W7D	16QAM	0.075	18.76
		18M0W7D	64QAM	0.056	17.46
		17M9W7D	256QAM	0.033	15.13
Sub6 n38 (25)	2582.500 – 2607.500	23M0G7D	PI/2 BPSK	0.103	20.11
		23M0G7D	QPSK	0.100	20.02
		23M0W7D	16QAM	0.078	18.90
		23M0W7D	64QAM	0.057	17.55
		23M0W7D	256QAM	0.034	15.36
Sub6 n38 (30)	2585.000 – 2605.000	27M0G7D	PI/2 BPSK	0.106	20.25
		26M9G7D	QPSK	0.104	20.18
		26M9W7D	16QAM	0.080	19.03
		27M0W7D	64QAM	0.059	17.71
		26M9W7D	256QAM	0.035	15.41
Sub6 n38 (40)	2590.000 – 2600.000	35M9G7D	PI/2 BPSK	0.104	20.16
		35M9G7D	QPSK	0.102	20.07
		36M0W7D	16QAM	0.077	18.86
		35M8W7D	64QAM	0.058	17.63
		36M0W7D	256QAM	0.034	15.29

ANT I

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41(38) (10)	2501.010 – 2685.000	8M65G7D	PI/2 BPSK	0.414	26.17
		8M68G7D	QPSK	0.403	26.05
		8M66W7D	16QAM	0.312	24.94
		8M71W7D	64QAM	0.223	23.49
		8M65W7D	256QAM	0.134	21.28
Sub6 n41(38) (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.426	26.29
		13M0G7D	QPSK	0.409	26.12
		12M0W7D	16QAM	0.313	24.95
		13M0W7D	64QAM	0.230	23.61
		13M1W7D	256QAM	0.135	21.31
Sub6 n41(38) (20)	2506.020 – 2679.990	17M9G7D	PI/2 BPSK	0.423	26.26
		18M0G7D	QPSK	0.421	26.24
		18M0W7D	16QAM	0.318	25.02
		18M0W7D	64QAM	0.236	23.72
		18M0W7D	256QAM	0.140	21.46
Sub6 n41(38) (25)	2508.510 – 2677.500	23M0G7D	PI/2 BPSK	0.427	26.30
		23M1G7D	QPSK	0.417	26.20
		23M0W7D	16QAM	0.321	25.06
		23M0W7D	64QAM	0.239	23.79
		23M0W7D	256QAM	0.142	21.52
Sub6 n41(38) (30)	2511.000 – 2674.980	26M9G7D	PI/2 BPSK	0.431	26.34
		27M0G7D	QPSK	0.423	26.26
		27M0W7D	16QAM	0.334	25.24
		26M9W7D	64QAM	0.236	23.72
		27M0W7D	256QAM	0.144	21.59
Sub6 n41(38) (40)	2516.010 – 2670.000	36M0G7D	PI/2 BPSK	0.437	26.40
		35M9G7D	QPSK	0.429	26.32
		35M9W7D	16QAM	0.330	25.19
		35M9W7D	64QAM	0.243	23.85
		35M9W7D	256QAM	0.142	21.53
Sub6 n41 (50)	2521.020 – 2664.990	45M9G7D	PI/2 BPSK	0.441	26.44
		45M8G7D	QPSK	0.427	26.30
		45M9W7D	16QAM	0.332	25.21
		45M8W7D	64QAM	0.248	23.94
		45M8W7D	256QAM	0.148	21.69
Sub6 n41 (60)	2526.000 – 2659.980	58M0G7D	PI/2 BPSK	0.397	25.99
		58M0G7D	QPSK	0.393	25.94
		58M0W7D	16QAM	0.319	25.04
		57M9W7D	64QAM	0.227	23.56
		58M1W7D	256QAM	0.134	21.27
Sub6 n41 (70)	2531.010 – 2655.000	64M7G7D	PI/2 BPSK	0.421	26.24
		64M6G7D	QPSK	0.411	26.14
		64M5W7D	16QAM	0.326	25.13
		64M3W7D	64QAM	0.234	23.69
		64M4W7D	256QAM	0.142	21.52
Sub6 n41 (80)	2536.020 – 2649.990	77M1G7D	PI/2 BPSK	0.448	26.51
		77M1G7D	QPSK	0.445	26.48
		77M3W7D	16QAM	0.336	25.26
		77M1W7D	64QAM	0.242	23.84
		77M2W7D	256QAM	0.148	21.69
Sub6 n41 (90)	2541.000 – 2644.980	86M7G7D	PI/2 BPSK	0.465	26.67
		86M8G7D	QPSK	0.459	26.62
		87M0W7D	16QAM	0.362	25.59
		86M9W7D	64QAM	0.257	24.10
		86M8W7D	256QAM	0.154	21.87
Sub6 n41 (100)	2546.010 – 2640.000	96M5G7D	PI/2 BPSK	0.453	26.56
		96M7G7D	QPSK	0.450	26.53
		96M4W7D	16QAM	0.352	25.47
		96M6W7D	64QAM	0.254	24.05
		96M9W7D	256QAM	0.150	21.75

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
Channel Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4 - ANSI C63.26-2015 – Section 5.2.6(only GSM)
Frequency stability	- ANSI C63.26-2015 – Section 5.6
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
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

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;

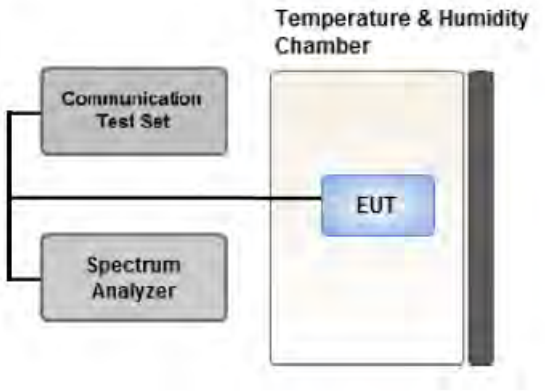
$$\text{Result}_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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.

$$EIRP_{(dBm)} = ERP_{(dBm)} + 2.15$$

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)

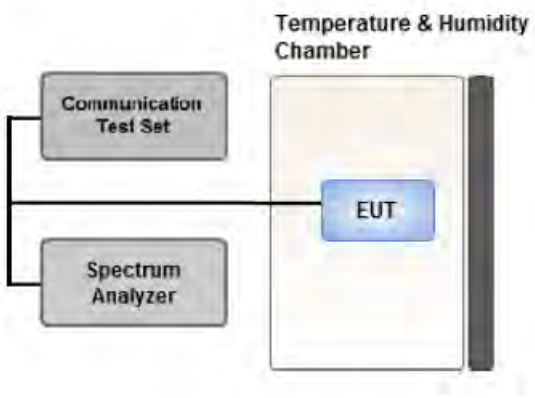
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

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.



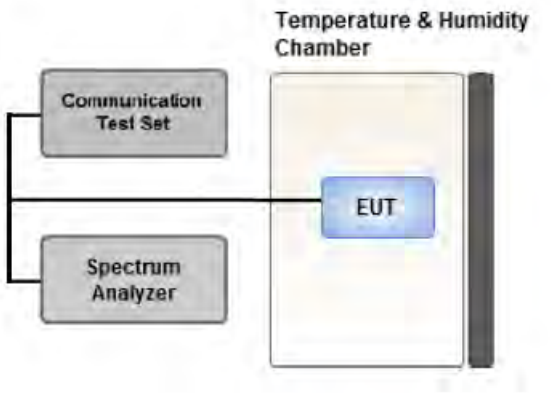
Test setup

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

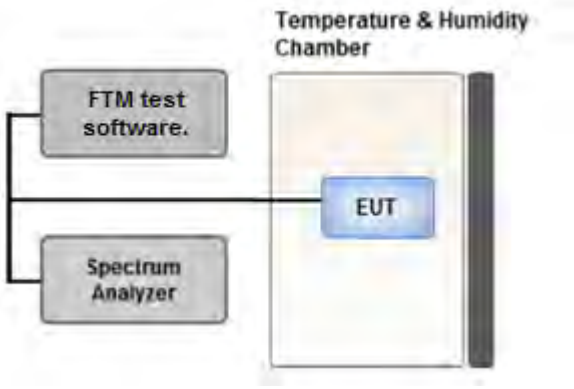
Test Overview

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 Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum power and at the appropriate frequencies.
All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

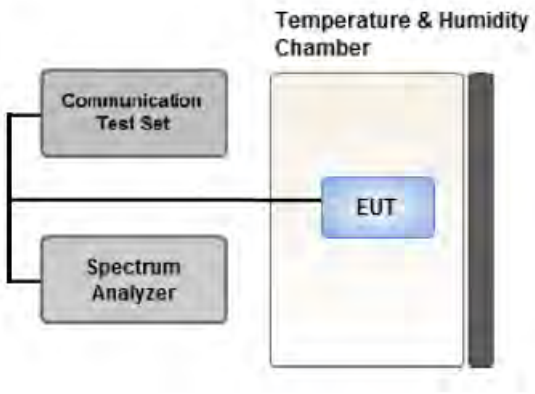
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5.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

Test Notes

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

Where Margin < 1 dB the emission level is either corrected by 10 log(1 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 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.
The frequency stability of the transmitter is measured by:

1. Temperature:
   The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.
2. Primary Supply Voltage:
   .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
   .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- The EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported. (Worst case: Open mode)
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode: NSA. SA, SRS
  Worst case: Sub6 n38_SA Only, Sub6 n41(38)_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
- 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.
- Sub6 n41 (2 496 – 2 690 MHz, 10/15/20/30/40/50/60/80/90/100 MHz bandwidth) overlaps the entire frequency range of Sub6 n38 (2 570 - 2 620 MHz, 10/15/20/30/40 MHz bandwidth) and they have the same Tune-up power. (Only ANT I)
  Therefore, test data provided in this report covers Sub6 n38 as well as Sub6 n41.
- SM-F741U & additional models were tested and the worst case results are reported.
  (Worst case : SM-F741U)

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

[ANT I Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		Y

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
  (Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode: NSA. SA, SRS
  Worst case: Sub6 n38_SA Only, Sub6 n41(38)_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)
- Sub6 n41 (2 496 – 2 690 MHz, 10/15/20/30/40/50/60/80/90/100 MHz bandwidth) overlaps the entire frequency range of Sub6 n38 (2 570 - 2 620 MHz, 10/15/20/30/40 MHz bandwidth) and they have the same Tune-up power. (Only ANT I)
  Therefore, test data provided in this report covers Sub6 n38 as well as Sub6 n41.

[ANT B Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 25, 30, 40	Mid	Full RB	0
Channel Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		25	Low	1	0
			High	1	64
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		10, 15, 20, 25, 30, 40	Low, Mid High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 25, 30, 40	Low, Mid, High	1	1

[ANT I Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Mid	Full RB	0
Channel Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		25	Low	1	0
			High	1	64
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Low, Mid High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	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, § 27.53(m)(4)	■ < 40 + 10log10 (P[Watts]) at Channel edges ■ < 43 + 10log10 (P[Watts]) between 5 and X MHz from Channel edges ■ < 55 + 10log10 (P[Watts]) beyond X MHz beyond from Channel edges ■ < 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz	PASS
Conducted Output Power	§ 2.1046	N/A	See Note1
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. See SAR Report

2. All conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(m)(4)	< 55 + 10log10 (P[Watts])	PASS

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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(ANT B)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2575.000	Sub6 38/ 10 MHz [30 kHz]	PI/2 BPSK	-23.90	12.47	10.20	2.58	H	< 2.00	0.102	20.09	1	1
		QPSK	-23.91	12.46	10.20	2.58	H		0.102	20.08		
		16-QAM	-24.98	11.39	10.20	2.58	H		0.080	19.01		
		64-QAM	-26.35	10.02	10.20	2.58	H		0.058	17.64		
		256-QAM	-28.70	7.67	10.20	2.58	H		0.034	15.29		
2595.000		PI/2 BPSK	-24.84	11.46	10.05	2.50	H		0.080	19.01	1	1
		QPSK	-24.99	11.31	10.05	2.50	H		0.077	18.86		
		16-QAM	-26.13	10.17	10.05	2.50	H		0.059	17.72		
		64-QAM	-27.43	8.87	10.05	2.50	H		0.044	16.42		
		256-QAM	-29.70	6.60	10.05	2.50	H		0.026	14.15		
2615.000		PI/2 BPSK	-25.14	11.76	9.90	2.55	H		0.082	19.12	1	1
		QPSK	-25.23	11.67	9.90	2.55	H		0.080	19.03		
		16-QAM	-26.29	10.61	9.90	2.55	H		0.063	17.97		
		64-QAM	-27.75	9.15	9.90	2.55	H		0.045	16.51		
		256-QAM	-29.94	6.96	9.90	2.55	H		0.027	14.32		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2577.500	Sub6 38/ 15 MHz [30 kHz]	PI/2 BPSK	-23.80	12.40	10.20	2.56	H	< 2.00	0.101	20.04	1	1
		QPSK	-23.98	12.22	10.20	2.56	H		0.097	19.86		
		16-QAM	-24.99	11.21	10.20	2.56	H		0.077	18.85		
		64-QAM	-26.39	9.81	10.20	2.56	H		0.056	17.45		
		256-QAM	-28.70	7.50	10.20	2.56	H		0.033	15.14		
2595.000		PI/2 BPSK	-24.59	11.71	10.05	2.50	H		0.084	19.26	1	1
		QPSK	-24.71	11.59	10.05	2.50	H		0.082	19.14		
		16-QAM	-25.91	10.39	10.05	2.50	H		0.062	17.94		
		64-QAM	-27.24	9.06	10.05	2.50	H		0.046	16.61		
		256-QAM	-29.41	6.89	10.05	2.50	H		0.028	14.44		
2612.500		PI/2 BPSK	-25.13	11.91	9.90	2.51	H		0.085	19.30	1	1
		QPSK	-25.26	11.78	9.90	2.51	H		0.083	19.17		
		16-QAM	-26.37	10.67	9.90	2.51	H		0.064	18.06		
		64-QAM	-27.74	9.30	9.90	2.51	H		0.047	16.69		
		256-QAM	-30.01	7.03	9.90	2.51	H		0.028	14.42		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2580.000	Sub6 38/ 20 MHz [30 kHz]	PI/2 BPSK	-23.86	12.34	10.20	2.56	H	< 2.00	0.100	19.98	1	1
		QPSK	-23.98	12.22	10.20	2.56	H		0.097	19.86		
		16-QAM	-25.08	11.12	10.20	2.56	H		0.075	18.76		
		64-QAM	-26.38	9.82	10.20	2.56	H		0.056	17.46		
		256-QAM	-28.71	7.49	10.20	2.56	H		0.033	15.13		
2595.000		PI/2 BPSK	-24.56	11.74	10.05	2.50	H		0.085	19.29	1	1
		QPSK	-24.72	11.58	10.05	2.50	H		0.082	19.13		
		16-QAM	-25.77	10.53	10.05	2.50	H		0.064	18.08		
		64-QAM	-27.15	9.15	10.05	2.50	H		0.047	16.70		
		256-QAM	-29.55	6.75	10.05	2.50	H		0.027	14.30		
2610.000		PI/2 BPSK	-25.26	11.78	9.90	2.51	H		0.083	19.17	1	1
		QPSK	-25.31	11.73	9.90	2.51	H		0.082	19.12		
		16-QAM	-26.49	10.55	9.90	2.51	H		0.062	17.94		
		64-QAM	-27.80	9.24	9.90	2.51	H		0.046	16.63		
		256-QAM	-30.09	6.95	9.90	2.51	H		0.027	14.34		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2582.500	Sub6 38/ 25 MHz [30 kHz]	PI/2 BPSK	-23.73	12.47	10.20	2.56	H	< 2.00	0.103	20.11	1	1
		QPSK	-23.82	12.38	10.20	2.56	H		0.100	20.02		
		16-QAM	-24.94	11.26	10.20	2.56	H		0.078	18.90		
		64-QAM	-26.29	9.91	10.20	2.56	H		0.057	17.55		
		256-QAM	-28.48	7.72	10.20	2.56	H		0.034	15.36		
2595.000		PI/2 BPSK	-24.46	11.84	10.05	2.50	H		0.087	19.39	1	1
		QPSK	-24.56	11.74	10.05	2.50	H		0.085	19.29		
		16-QAM	-25.66	10.64	10.05	2.50	H		0.066	18.19		
		64-QAM	-26.99	9.31	10.05	2.50	H		0.049	16.86		
		256-QAM	-29.28	7.02	10.05	2.50	H		0.029	14.57		
2607.500		PI/2 BPSK	-24.90	12.14	9.90	2.51	H		0.090	19.53	1	1
		QPSK	-24.98	12.06	9.90	2.51	H		0.088	19.45		
		16-QAM	-26.18	10.86	9.90	2.51	H		0.067	18.25		
		64-QAM	-27.41	9.63	9.90	2.51	H		0.050	17.02		
		256-QAM	-29.71	7.33	9.90	2.51	H		0.030	14.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2585.000	Sub6 38/ 30 MHz [30 kHz]	PI/2 BPSK	-23.61	12.59	10.20	2.54	H	< 2.00	0.106	20.25	1	1
		QPSK	-23.68	12.52	10.20	2.54	H		0.104	20.18		
		16-QAM	-24.83	11.37	10.20	2.54	H		0.080	19.03		
		64-QAM	-26.15	10.05	10.20	2.54	H		0.059	17.71		
		256-QAM	-28.45	7.75	10.20	2.54	H		0.035	15.41		
2595.000		PI/2 BPSK	-24.20	12.10	10.05	2.50	H		0.092	19.65	1	1
		QPSK	-24.22	12.08	10.05	2.50	H		0.092	19.63		
		16-QAM	-25.38	10.92	10.05	2.50	H		0.070	18.47		
		64-QAM	-26.68	9.62	10.05	2.50	H		0.052	17.17		
		256-QAM	-28.90	7.40	10.05	2.50	H		0.031	14.95		
2605.000		PI/2 BPSK	-24.76	11.96	9.90	2.50	H		0.086	19.37	1	1
		QPSK	-24.78	11.94	9.90	2.50	H		0.086	19.35		
		16-QAM	-26.09	10.63	9.90	2.50	H		0.064	18.04		
		64-QAM	-27.34	9.38	9.90	2.50	H		0.048	16.79		
		256-QAM	-29.56	7.16	9.90	2.50	H		0.029	14.57		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2590.000	Sub6 38/ 40 MHz [30 kHz]	PI/2 BPSK	-23.71	12.48	10.20	2.52	H	< 2.00	0.104	20.16	1	1
		QPSK	-23.80	12.39	10.20	2.52	H		0.102	20.07		
		16-QAM	-25.01	11.18	10.20	2.52	H		0.077	18.86		
		64-QAM	-26.24	9.95	10.20	2.52	H		0.058	17.63		
		256-QAM	-28.58	7.61	10.20	2.52	H		0.034	15.29		
2595.000		PI/2 BPSK	-24.24	12.06	10.05	2.50	H		0.091	19.61	1	1
		QPSK	-24.26	12.04	10.05	2.50	H		0.091	19.59		
		16-QAM	-25.55	10.75	10.05	2.50	H		0.068	18.30		
		64-QAM	-26.86	9.44	10.05	2.50	H		0.050	16.99		
		256-QAM	-29.11	7.19	10.05	2.50	H		0.030	14.74		
2600.000		PI/2 BPSK	-24.26	12.15	9.90	2.48	H		0.091	19.57	1	1
		QPSK	-24.28	12.13	9.90	2.48	H		0.090	19.55		
		16-QAM	-25.43	10.98	9.90	2.48	H		0.069	18.40		
		64-QAM	-26.76	9.65	9.90	2.48	H		0.051	17.07		
		256-QAM	-29.04	7.37	9.90	2.48	H		0.030	14.79		

8.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: N38
- ▣ 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)	RB	
									Size	Offset
515000 (2575.000)	5 150.00	-62.63	11.00	-64.89	3.64	V	-57.53	-25.00	1	1
	7 725.00	-64.73	11.00	-57.61	4.54	V	-51.15	-25.00		
	10 300.00	-64.37	11.10	-54.05	5.35	V	-48.30	-25.00		
	12 875.00	-65.01	11.90	-54.27	6.13	V	-48.50	-25.00		
	15 450.00	-61.29	15.40	-56.08	6.75	V	-47.43	-25.00		
519000 (2595.000)	5 190.00	-61.67	11.00	-63.47	3.70	V	-56.17	-25.00	1	1
	7 785.00	-64.87	10.90	-57.56	4.61	V	-51.27	-25.00		
	10 380.00	-63.61	11.20	-53.18	5.40	V	-47.38	-25.00		
	12 975.00	-63.48	12.00	-53.51	6.13	V	-47.63	-25.00		
	15 570.00	-60.54	15.40	-55.14	6.78	V	-46.52	-25.00		
523000 (2615.000)	5 230.00	-60.54	11.10	-62.48	3.72	V	-55.10	-25.00	1	1
	7 845.00	-64.64	10.65	-57.48	4.59	V	-51.42	-25.00		
	10 460.00	-64.02	11.30	-54.11	5.42	V	-48.23	-25.00		
	13 075.00	-63.25	12.10	-53.25	6.16	V	-47.31	-25.00		
	15 690.00	-62.76	15.20	-56.48	6.80	V	-48.08	-25.00		

▣ NR Band: N38

▣ Bandwidth: 15 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
515500 (2577.500)	5 155.00	-62.52	11.00	-64.68	3.67	V	-57.34	-25.00	1	1
	7 732.50	-63.94	11.00	-56.97	4.53	V	-50.50	-25.00		
	10 310.00	-63.64	11.10	-52.81	5.35	V	-47.06	-25.00		
	12 887.50	-63.54	11.90	-53.18	6.16	V	-47.44	-25.00		
	15 465.00	-62.34	15.40	-57.60	6.75	V	-48.95	-25.00		
519000 (2595.000)	5 190.00	-64.10	11.00	-65.90	3.70	V	-58.60	-25.00	1	1
	7 785.00	-65.31	10.90	-58.00	4.61	V	-51.71	-25.00		
	10 380.00	-65.19	11.20	-54.76	5.40	V	-48.96	-25.00		
	12 975.00	-63.97	12.00	-54.00	6.13	V	-48.12	-25.00		
	15 570.00	-64.00	15.40	-58.60	6.78	V	-49.98	-25.00		
522500 (2612.500)	5 225.00	-63.94	11.10	-65.95	3.72	V	-58.56	-25.00	1	1
	7 837.50	-64.25	10.70	-57.00	4.59	V	-50.89	-25.00		
	10 450.00	-62.49	11.30	-51.86	5.42	V	-45.98	-25.00		
	13 062.50	-63.01	12.10	-53.14	6.14	V	-47.18	-25.00		
	15 675.00	-65.18	15.20	-58.98	6.81	V	-50.59	-25.00		

▣ NR Band: N38

▣ Bandwidth: 20 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
516000 (2580.000)	5 160.00	-62.88	11.00	-64.93	3.69	V	-57.62	-25.00	1	1
	7 740.00	-63.34	11.00	-56.65	4.55	V	-50.20	-25.00		
	10 320.00	-63.29	11.10	-52.53	5.34	V	-46.77	-25.00		
	12 900.00	-63.55	11.90	-53.34	6.13	V	-47.57	-25.00		
	15 480.00	-63.67	15.40	-59.05	6.75	V	-50.40	-25.00		
519000 (2595.000)	5 190.00	-63.31	11.00	-65.11	3.70	V	-57.81	-25.00	1	1
	7 785.00	-63.95	10.90	-56.64	4.61	V	-50.35	-25.00		
	10 380.00	-63.56	11.20	-53.13	5.40	V	-47.33	-25.00		
	12 975.00	-64.22	12.00	-54.25	6.13	V	-48.37	-25.00		
	15 570.00	-64.13	15.40	-58.73	6.78	V	-50.11	-25.00		
522000 (2610.000)	5 220.00	-63.23	11.10	-65.31	3.71	V	-57.92	-25.00	1	1
	7 830.00	-63.19	10.70	-55.51	4.60	V	-49.41	-25.00		
	10 440.00	-63.59	11.20	-53.62	5.39	V	-47.81	-25.00		
	13 050.00	-63.84	12.10	-53.60	6.13	V	-47.63	-25.00		
	15 660.00	-63.11	15.20	-56.91	6.81	V	-48.52	-25.00		

▣ NR Band: N38

▣ Bandwidth: 25 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
516500 (2582.500)	5 165.00	-61.98	11.00	-63.83	3.71	V	-56.53	-25.00	1	1
	7 747.50	-62.56	10.90	-55.84	4.56	V	-49.50	-25.00		
	10 330.00	-63.64	11.10	-53.36	5.33	V	-47.59	-25.00		
	12 912.50	-64.55	11.90	-54.18	6.12	V	-48.40	-25.00		
	15 495.00	-63.19	15.40	-58.19	6.76	V	-49.55	-25.00		
519000 (2595.000)	5 190.00	-62.90	11.00	-64.70	3.70	V	-57.40	-25.00	1	1
	7 785.00	-64.18	10.90	-56.87	4.61	V	-50.58	-25.00		
	10 380.00	-64.19	11.20	-53.76	5.40	V	-47.96	-25.00		
	12 975.00	-63.94	12.00	-53.97	6.13	V	-48.09	-25.00		
	15 570.00	-63.55	15.40	-58.15	6.78	V	-49.53	-25.00		
523000 (2607.500)	5 215.00	-63.01	11.10	-65.29	3.71	V	-57.90	-25.00	1	1
	7 822.50	-63.55	10.70	-56.37	4.61	V	-50.28	-25.00		
	10 430.00	-64.08	11.20	-53.19	5.39	V	-47.38	-25.00		
	13 037.50	-64.11	12.00	-53.94	6.12	V	-48.06	-25.00		
	15 645.00	-62.89	15.30	-57.00	6.81	V	-48.50	-25.00		

▣ NR Band: N38

▣ Bandwidth: 30 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
517000 (2585.000)	5 170.00	-62.56	11.00	-64.21	3.72	V	-56.93	-25.00	1	1
	7 755.00	-63.92	10.90	-57.01	4.58	V	-50.69	-25.00		
	10 340.00	-64.31	11.10	-54.29	5.35	V	-48.54	-25.00		
	12 925.00	-64.98	11.90	-54.31	6.09	V	-48.50	-25.00		
	15 510.00	-62.52	15.40	-57.13	6.77	V	-48.50	-25.00		
519000 (2595.000)	5 190.00	-63.18	11.00	-64.98	3.70	V	-57.68	-25.00	1	1
	7 785.00	-64.95	10.90	-57.64	4.61	V	-51.35	-25.00		
	10 380.00	-64.88	11.20	-54.45	5.40	V	-48.65	-25.00		
	12 975.00	-63.33	12.00	-53.36	6.13	V	-47.48	-25.00		
	15 570.00	-62.94	15.40	-57.54	6.78	V	-48.92	-25.00		
521000 (2605.000)	5 210.00	-62.55	11.10	-65.03	3.70	V	-57.63	-25.00	1	1
	7 815.00	-63.61	10.70	-56.40	4.61	V	-50.31	-25.00		
	10 420.00	-63.94	11.20	-54.14	5.38	V	-48.32	-25.00		
	13 025.00	-63.68	12.00	-53.59	6.12	V	-47.71	-25.00		
	15 630.00	-63.46	15.40	-57.78	6.80	V	-49.18	-25.00		

▣ NR Band: N38

▣ Bandwidth: 40 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
518000 (2590.000)	5 180.00	-63.44	11.00	-64.64	3.71	V	-57.35	-25.00	1	1
	7 770.00	-63.95	10.90	-56.49	4.61	V	-50.20	-25.00		
	10 360.00	-64.43	11.20	-54.12	5.38	V	-48.30	-25.00		
	12 950.00	-64.60	12.00	-54.25	6.08	V	-48.33	-25.00		
	15 540.00	-62.56	15.40	-57.44	6.77	V	-48.81	-25.00		
519000 (2595.000)	5 190.00	-63.35	11.00	-65.15	3.70	V	-57.85	-25.00	1	1
	7 785.00	-65.45	10.90	-58.14	4.61	V	-51.85	-25.00		
	10 380.00	-65.34	11.20	-54.91	5.40	V	-49.11	-25.00		
	12 975.00	-63.78	12.00	-53.81	6.13	V	-47.93	-25.00		
	15 570.00	-62.48	15.40	-57.08	6.78	V	-48.46	-25.00		
520000 (2600.000)	5 200.00	-62.13	11.10	-64.09	3.68	V	-56.67	-25.00	1	1
	7 800.00	-63.98	10.70	-57.16	4.61	V	-51.07	-25.00		
	10 400.00	-64.58	11.20	-55.07	5.37	V	-49.24	-25.00		
	13 000.00	-64.56	12.00	-54.54	6.15	V	-48.69	-25.00		
	15 600.00	-63.11	15.40	-58.27	6.79	V	-49.66	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	3.86
			QPSK			4.43
			16-QAM			5.44
			64-QAM			5.87
			256-QAM			6.57
	15 MHz		BPSK	36		3.77
			QPSK			4.34
			16-QAM			5.24
			64-QAM			5.72
			256-QAM			6.47
	20 MHz		BPSK	50		3.72
			QPSK			4.34
			16-QAM			5.33
			64-QAM			5.78
			256-QAM			6.39
	25 MHz		BPSK	64		3.95
			QPSK			4.49
			16-QAM			5.67
			64-QAM			6.04
			256-QAM			6.68
	30 MHz		BPSK	75		3.81
			QPSK			4.37
			16-QAM			5.32
			64-QAM			5.93
			256-QAM			6.56
	40 MHz		BPSK	100		3.91
			QPSK			4.44
			16-QAM			5.38
			64-QAM			5.89
			256-QAM			6.69

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 98 ~ 127.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	8.6384
			QPSK			8.7124
			16-QAM			8.6837
			64-QAM			8.6419
			256-QAM			8.6513
	15 MHz		BPSK	36		12.950
			QPSK			12.933
			16-QAM			12.956
			64-QAM			12.992
			256-QAM			12.954
	20 MHz		BPSK	50		17.971
			QPSK			17.984
			16-QAM			17.958
			64-QAM			17.974
			256-QAM			17.905
	25 MHz		BPSK	64		23.039
			QPSK			22.988
			16-QAM			22.992
			64-QAM			23.017
			256-QAM			23.000
	30 MHz		BPSK	75		27.025
			QPSK			26.918
			16-QAM			26.880
			64-QAM			27.004
			256-QAM			26.942
	40 MHz		BPSK	100		35.895
			QPSK			35.924
			16-QAM			36.002
			64-QAM			35.807
			256-QAM			35.989

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 128 ~ 157.

8.5 CONDUCTED SPURIOUS EMISSIONS

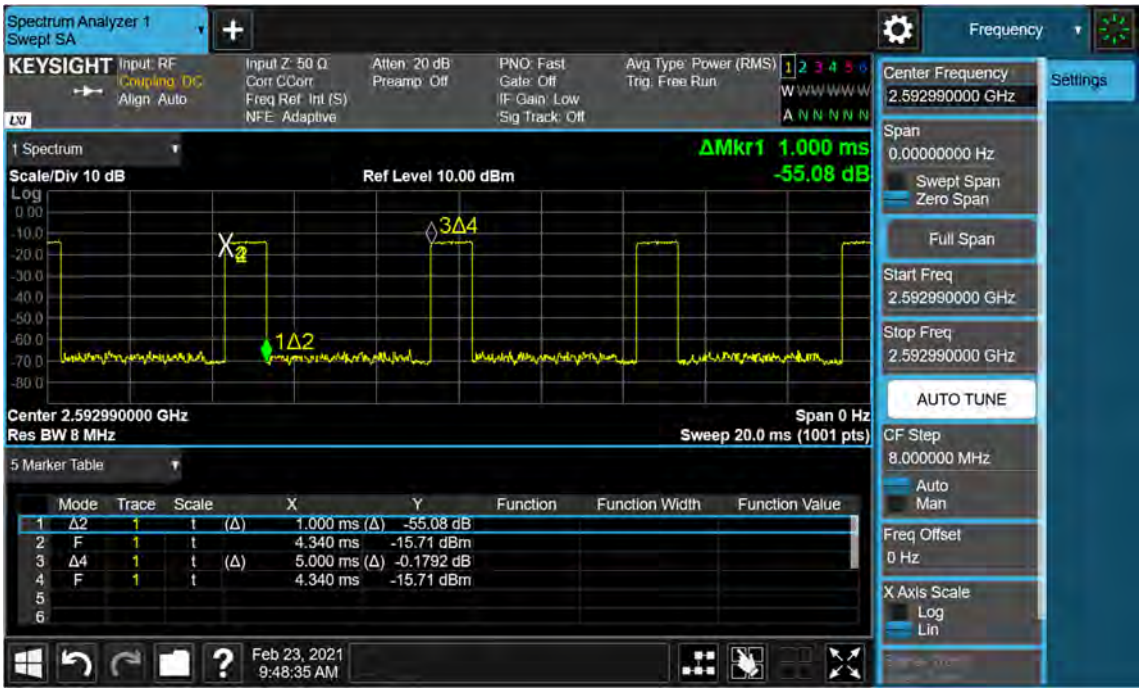
Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n38	10	2575.000	8.8873	37.805	-70.881	-33.076	-25.00
		2595.000	3.7643	37.190	-71.259	-34.069	
		2615.000	8.8679	37.805	-70.483	-32.678	
	15	2577.500	3.8031	37.190	-70.452	-33.262	
		2595.000	4.0429	37.190	-69.911	-32.721	
		2612.500	3.7992	37.190	-69.532	-32.342	
	20	2580.000	3.7812	37.190	-69.843	-32.653	
		2595.000	8.8510	37.805	-70.373	-32.568	
		2610.000	4.0374	37.190	-70.673	-33.483	
	25	2582.500	9.6884	37.190	-69.669	-32.479	
		2595.000	9.6894	37.805	-70.254	-32.449	
		2607.500	9.1810	37.805	-69.670	-31.865	
	30	2585.000	3.7702	37.805	-69.943	-32.138	
		2595.000	9.6620	37.805	-70.031	-32.226	
		2605.000	8.2642	37.190	-70.426	-33.236	
	40	2590.000	8.3066	37.805	-70.881	-33.076	
		2595.000	9.1600	37.190	-71.259	-34.069	
		2600.000	4.9572	37.805	-70.483	-32.678	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 158 ~ 193.

2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.99



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

- Result(dBm) = Reading + Factor

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

8.6 CHANNEL EDGE

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2575.000	BPSK	Full RB	0	-26.96	-28.64	-32.14	-34.36
	2595.000	BPSK	Full RB	0	-27.72	-28.85	-32.71	-34.68
	2615.000	BPSK	Full RB	0	-25.33	-27.44	-31.88	-32.03
15 MHz	2577.500	BPSK	Full RB	0	-26.57	-38.30	-33.91	-40.69
	2595.000	BPSK	Full RB	0	-26.24	-40.15	-33.28	-44.21
	2612.500	BPSK	Full RB	0	-26.24	-37.27	-32.70	-42.06
20 MHz	2580.000	BPSK	Full RB	0	-28.22	-34.69	-34.43	-36.42
	2595.000	BPSK	Full RB	0	-28.39	-35.14	-34.97	-38.76
	2610.000	BPSK	Full RB	0	-28.98	-34.37	-32.68	-35.24
25 MHz	2582.500	BPSK	Full RB	0	-28.45	-31.81	-36.53	-33.36
	2595.000	BPSK	Full RB	0	-27.81	-34.43	-35.03	-39.27
	2607.500	BPSK	Full RB	0	-28.55	-33.74	-36.50	-34.49
30 MHz	2585.000	BPSK	Full RB	0	-29.67	-34.16	-35.64	-33.18
	2595.000	BPSK	Full RB	0	-28.84	-41.05	-34.55	-41.44
	2605.000	BPSK	Full RB	0	-31.47	-35.50	-36.10	-35.02
40 MHz	2590.000	BPSK	Full RB	0	-28.77	-35.33	-37.00	-34.92
	2595.000	BPSK	Full RB	0	-27.97	-35.24	-34.94	-35.34
	2600.000	BPSK	Full RB	0	-30.57	-36.81	-39.22	-37.42
Limit(dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2575.000	BPSK	Full RB	0	-35.76	-38.49	-40.67	-39.99
	2595.000	BPSK	Full RB	0	-37.26	-39.95	-41.99	-40.64
	2615.000	BPSK	Full RB	0	-36.62	-36.77	-42.02	-40.85
15 MHz	2577.500	BPSK	Full RB	0	-35.13	-39.19	-44.15	-43.11
	2595.000	BPSK	Full RB	0	-35.79	-41.89	-45.17	-42.20
	2612.500	BPSK	Full RB	0	-35.20	-39.72	-44.54	-43.71
20 MHz	2580.000	BPSK	Full RB	0	-36.00	-37.39	-44.59	-42.30
	2595.000	BPSK	Full RB	0	-34.94	-43.09	-44.08	-41.22
	2610.000	BPSK	Full RB	0	-33.78	-44.02	-44.05	-42.67
25 MHz	2582.500	BPSK	Full RB	0	-35.69	-33.55	-39.34	-44.00
	2595.000	BPSK	Full RB	0	-34.71	-41.27	-47.81	-43.23
	2607.500	BPSK	Full RB	0	-35.96	-36.12	-38.88	-44.36
30 MHz	2585.000	BPSK	Full RB	0	-36.38	-33.28	-39.91	-44.10
	2595.000	BPSK	Full RB	0	-37.97	-36.01	-44.01	-46.56
	2605.000	BPSK	Full RB	0	-33.70	-35.36	-40.39	-45.24
40 MHz	2590.000	BPSK	Full RB	0	-37.64	-34.94	-46.00	-45.53
	2595.000	BPSK	Full RB	0	-35.43	-39.68	-47.17	-44.43
	2600.000	BPSK	Full RB	0	-38.05	-36.72	-44.44	-46.00
Limit(dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Duty Cycle factor already applied on the factor.
   - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
   - Result(dBm) = Reading + Factor
   - Duty Cycle Factor(dB) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 194 ~ 223. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ BandWidth: 10 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(℃)	(Hz)	(Hz)	(%)	
2575.000	100 %	+20(Ref)	2575 000 002	0.0	0.000 000	0.000
	100 %	-30	2575 000 004	1.8	0.000 000	0.001
	100 %	-20	2575 000 005	2.5	0.000 000	0.001
	100 %	-10	2575 000 004	1.2	0.000 000	0.000
	100 %	0	2575 000 009	6.6	0.000 000	0.003
	100 %	+10	2575 000 008	5.7	0.000 000	0.002
	100 %	+30	2575 000 003	0.6	0.000 000	0.000
	100 %	+40	2575 000 004	1.6	0.000 000	0.001
	100 %	+50	2575 000 007	5.0	0.000 000	0.002
	Batt. Endpoint	+20	2575 000 004	2.0	0.000 000	0.001
2615.000	100 %	+20(Ref)	2614 999 996	0.0	0.000 000	0.000
	100 %	-30	2614 999 995	-1.0	0.000 000	0.000
	100 %	-20	2614 999 991	-4.6	0.000 000	-0.002
	100 %	-10	2614 999 991	-4.7	0.000 000	-0.002
	100 %	0	2614 999 997	1.2	0.000 000	0.000
	100 %	+10	2614 999 990	-5.6	0.000 000	-0.002
	100 %	+30	2614 999 996	0.6	0.000 000	0.000
	100 %	+40	2614 999 997	1.6	0.000 000	0.001
	100 %	+50	2614 999 988	-7.9	0.000 000	-0.003
	Batt. Endpoint	+20	2614 999 993	-3.0	0.000 000	-0.001

▣ BandWidth: 15 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(℃)	(Hz)	(Hz)	(%)	
2577.500	100 %	+20(Ref)	2577 500 002	0.0	0.000 000	0.000
	100 %	-30	2577 499 999	-2.7	0.000 000	-0.001
	100 %	-20	2577 500 001	-1.0	0.000 000	0.000
	100 %	-10	2577 500 000	-1.8	0.000 000	-0.001
	100 %	0	2577 499 998	-3.3	0.000 000	-0.001
	100 %	+10	2577 499 997	-4.2	0.000 000	-0.002
	100 %	+30	2577 500 001	-0.7	0.000 000	0.000
	100 %	+40	2577 499 996	-5.5	0.000 000	-0.002
	100 %	+50	2577 499 996	-5.9	0.000 000	-0.002
	Batt. Endpoint	+20	2577 500 000	-1.2	0.000 000	0.000
2612.500	100 %	+20(Ref)	2612 500 007	0.0	0.000 000	0.000
	100 %	-30	2612 500 009	1.2	0.000 000	0.000
	100 %	-20	2612 500 013	5.9	0.000 000	0.002
	100 %	-10	2612 500 015	7.4	0.000 000	0.003
	100 %	0	2612 500 015	8.0	0.000 000	0.003
	100 %	+10	2612 500 013	5.9	0.000 000	0.002
	100 %	+30	2612 500 010	2.7	0.000 000	0.001
	100 %	+40	2612 500 013	5.6	0.000 000	0.002
	100 %	+50	2612 500 009	1.4	0.000 000	0.001
	Batt. Endpoint	+20	2612 500 010	2.8	0.000 000	0.001

▣ BandWidth: 20 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(℃)	(Hz)	(Hz)	(%)	
2580.000	100 %	+20(Ref)	2580 000 002	0.0	0.000 000	0.000
	100 %	-30	2580 000 002	0.0	0.000 000	0.000
	100 %	-20	2580 000 002	0.3	0.000 000	0.000
	100 %	-10	2580 000 003	1.2	0.000 000	0.000
	100 %	0	2580 000 001	-1.2	0.000 000	0.000
	100 %	+10	2580 000 006	4.2	0.000 000	0.002
	100 %	+30	2580 000 004	2.3	0.000 000	0.001
	100 %	+40	2580 000 003	0.6	0.000 000	0.000
	100 %	+50	2580 000 004	1.9	0.000 000	0.001
	Batt. Endpoint	+20	2580 000 002	-0.5	0.000 000	0.000
2610.000	100 %	+20(Ref)	2610 000 000	0.0	0.000 000	0.000
	100 %	-30	2610 000 002	2.4	0.000 000	0.001
	100 %	-20	2610 000 004	4.4	0.000 000	0.002
	100 %	-10	2609 999 996	-3.7	0.000 000	-0.001
	100 %	0	2610 000 003	2.9	0.000 000	0.001
	100 %	+10	2610 000 005	4.6	0.000 000	0.002
	100 %	+30	2610 000 001	1.1	0.000 000	0.000
	100 %	+40	2610 000 005	4.8	0.000 000	0.002
	100 %	+50	2610 000 001	1.4	0.000 000	0.001
	Batt. Endpoint	+20	2610 000 006	6.4	0.000 000	0.002

▣ BandWidth: 25 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2582.500	100 %	+20(Ref)	2582 500 004	0.0	0.000 000	0.000
	100 %	-30	2582 500 009	5.0	0.000 000	0.002
	100 %	-20	2582 500 012	8.5	0.000 000	0.003
	100 %	-10	2582 500 007	3.4	0.000 000	0.001
	100 %	0	2582 500 007	3.4	0.000 000	0.001
	100 %	+10	2582 500 006	2.6	0.000 000	0.001
	100 %	+30	2582 500 006	2.2	0.000 000	0.001
	100 %	+40	2582 500 010	6.5	0.000 000	0.003
	100 %	+50	2582 500 008	4.0	0.000 000	0.002
	Batt. Endpoint	+20	2582 500 010	6.0	0.000 000	0.002
2607.500	100 %	+20(Ref)	2607 499 999	0.0	0.000 000	0.000
	100 %	-30	2607 499 996	-2.6	0.000 000	-0.001
	100 %	-20	2607 499 997	-1.7	0.000 000	-0.001
	100 %	-10	2607 499 993	-5.8	0.000 000	-0.002
	100 %	0	2607 500 000	0.9	0.000 000	0.000
	100 %	+10	2607 499 997	-2.2	0.000 000	-0.001
	100 %	+30	2607 499 997	-1.6	0.000 000	-0.001
	100 %	+40	2607 499 997	-1.6	0.000 000	-0.001
	100 %	+50	2607 499 997	-1.5	0.000 000	-0.001
	Batt. Endpoint	+20	2607 500 000	1.5	0.000 000	0.001

▣ BandWidth: 30 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(℃)	(Hz)	(Hz)	(%)	
2585.000	100 %	+20(Ref)	2585 000 001	0.0	0.000 000	0.000
	100 %	-30	2584 999 999	-2.0	0.000 000	-0.001
	100 %	-20	2584 999 997	-3.6	0.000 000	-0.001
	100 %	-10	2585 000 001	0.1	0.000 000	0.000
	100 %	0	2585 000 003	2.7	0.000 000	0.001
	100 %	+10	2584 999 997	-3.8	0.000 000	-0.001
	100 %	+30	2584 999 997	-3.3	0.000 000	-0.001
	100 %	+40	2584 999 998	-2.3	0.000 000	-0.001
	100 %	+50	2585 000 000	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	2585 000 001	0.1	0.000 000	0.000
2605.000	100 %	+20(Ref)	2605 000 004	0.0	0.000 000	0.000
	100 %	-30	2605 000 010	6.5	0.000 000	0.003
	100 %	-20	2605 000 011	7.5	0.000 000	0.003
	100 %	-10	2605 000 009	5.2	0.000 000	0.002
	100 %	0	2605 000 010	6.4	0.000 000	0.002
	100 %	+10	2605 000 007	3.4	0.000 000	0.001
	100 %	+30	2605 000 008	4.0	0.000 000	0.002
	100 %	+40	2605 000 010	6.3	0.000 000	0.002
	100 %	+50	2605 000 008	3.7	0.000 000	0.001
	Batt. Endpoint	+20	2605 000 008	4.2	0.000 000	0.002

▣ 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2590.000	100 %	+20(Ref)	2590 000 003	0.0	0.000 000	0.000
	100 %	-30	2590 000 005	2.1	0.000 000	0.001
	100 %	-20	2590 000 004	1.5	0.000 000	0.001
	100 %	-10	2590 000 011	8.0	0.000 000	0.003
	100 %	0	2590 000 006	3.5	0.000 000	0.001
	100 %	+10	2590 000 010	7.1	0.000 000	0.003
	100 %	+30	2590 000 005	2.7	0.000 000	0.001
	100 %	+40	2590 000 005	2.0	0.000 000	0.001
	100 %	+50	2590 000 007	4.0	0.000 000	0.002
	Batt. Endpoint	+20	2590 000 004	1.5	0.000 000	0.001
2600.000	100 %	+20(Ref)	2599 999 997	0.0	0.000 000	0.000
	100 %	-30	2599 999 996	-0.8	0.000 000	0.000
	100 %	-20	2599 999 996	-1.3	0.000 000	0.000
	100 %	-10	2599 999 995	-1.7	0.000 000	-0.001
	100 %	0	2599 999 993	-4.1	0.000 000	-0.002
	100 %	+10	2599 999 995	-2.4	0.000 000	-0.001
	100 %	+30	2599 999 997	-0.1	0.000 000	0.000
	100 %	+40	2599 999 997	-0.1	0.000 000	0.000
	100 %	+50	2599 999 995	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	2599 999 995	-1.7	0.000 000	-0.001

9. TEST DATA(ANT I)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2501.010	Sub6 n41(38) / 10 MHz [30 kHz]	PI/2 BPSK	-20.41	16.23	10.30	2.47	H	< 2.00	0.255	24.06	1	1
		QPSK	-20.47	16.17	10.30	2.47	H		0.251	24.00		
		16-QAM	-21.66	14.98	10.30	2.47	H		0.191	22.81		
		64-QAM	-23.03	13.61	10.30	2.47	H		0.139	21.44		
		256-QAM	-25.26	11.38	10.30	2.47	H		0.083	19.21		
2505.000		PI/2 BPSK	-19.59	17.04	10.30	2.48	H		0.306	24.86	1	22
		QPSK	-19.74	16.89	10.30	2.48	H		0.296	24.71		
		16-QAM	-20.84	15.79	10.30	2.48	H		0.230	23.61		
		64-QAM	-22.10	14.53	10.30	2.48	H		0.172	22.35		
		256-QAM	-24.27	12.36	10.30	2.48	H		0.104	20.18		
2592.990		PI/2 BPSK	-17.68	18.62	10.05	2.50	H		0.414	26.17	1	1
		QPSK	-17.80	18.50	10.05	2.50	H		0.403	26.05		
		16-QAM	-25.90	10.40	10.05	2.50	H		0.312	24.94		
		64-QAM	-20.36	15.94	10.05	2.50	H		0.223	23.49		
		256-QAM	-22.57	13.73	10.05	2.50	H		0.134	21.28		
2685.000		PI/2 BPSK	-20.83	16.63	10.10	2.58	H		0.260	24.15	1	1
		QPSK	-20.99	16.47	10.10	2.58	H		0.251	23.99		
		16-QAM	-22.04	15.42	10.10	2.58	H		0.197	22.94		
		64-QAM	-23.41	14.05	10.10	2.58	H		0.144	21.57		
		256-QAM	-25.61	11.85	10.10	2.58	H		0.086	19.37		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2503.500	Sub6 n41(38) / 15 MHz [30 kHz]	PI/2 BPSK	-19.83	16.80	10.30	2.48	H	< 2.00	0.290	24.62	1	36
		QPSK	-19.86	16.77	10.30	2.48	H		0.288	24.59		
		16-QAM	-20.97	15.66	10.30	2.48	H		0.223	23.48		
		64-QAM	-22.44	14.19	10.30	2.48	H		0.159	22.01		
		256-QAM	-24.61	12.02	10.30	2.48	H		0.096	19.84		
2507.500		PI/2 BPSK	-18.94	17.69	10.30	2.48	H		0.356	25.51	1	36
		QPSK	-19.21	17.42	10.30	2.48	H		0.334	25.24		
		16-QAM	-20.23	16.40	10.30	2.48	H		0.264	24.22		
		64-QAM	-21.66	14.97	10.30	2.48	H		0.190	22.79		
		256-QAM	-23.81	12.82	10.30	2.48	H		0.116	20.64		
2592.990		PI/2 BPSK	-17.56	18.74	10.05	2.50	H		0.426	26.29	1	1
		QPSK	-17.73	18.57	10.05	2.50	H		0.409	26.12		
		16-QAM	-18.90	17.40	10.05	2.50	H		0.313	24.95		
		64-QAM	-20.24	16.06	10.05	2.50	H		0.230	23.61		
		256-QAM	-22.54	13.76	10.05	2.50	H		0.135	21.31		
2682.480		PI/2 BPSK	-20.50	17.21	10.10	2.58	H		0.297	24.73	1	1
		QPSK	-20.57	17.14	10.10	2.58	H		0.292	24.66		
		16-QAM	-21.79	15.92	10.10	2.58	H		0.221	23.44		
		64-QAM	-22.97	14.74	10.10	2.58	H		0.168	22.26		
		256-QAM	-25.31	12.40	10.10	2.58	H		0.098	19.92		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2506.020	Sub6 n41(38) / 20 MHz [30 kHz]	PI/2 BPSK	-19.03	17.60	10.30	2.48	H	< 2.00	0.348	25.42	1	49
		QPSK	-19.11	17.52	10.30	2.48	H		0.342	25.34		
		16-QAM	-20.18	16.45	10.30	2.48	H		0.267	24.27		
		64-QAM	-21.51	15.12	10.30	2.48	H		0.197	22.94		
		256-QAM	-24.00	12.63	10.30	2.48	H		0.111	20.45		
2510.010		PI/2 BPSK	-18.79	17.83	10.30	2.50	H		0.366	25.63	1	49
		QPSK	-18.85	17.77	10.30	2.50	H		0.361	25.57		
		16-QAM	-19.97	16.65	10.30	2.50	H		0.279	24.45		
		64-QAM	-21.38	15.24	10.30	2.50	H		0.201	23.04		
		256-QAM	-23.57	13.05	10.30	2.50	H		0.122	20.85		
2592.990		PI/2 BPSK	-17.59	18.71	10.05	2.50	H		0.423	26.26	1	25
		QPSK	-17.61	18.69	10.05	2.50	H		0.421	26.24		
		16-QAM	-18.83	17.47	10.05	2.50	H		0.318	25.02		
		64-QAM	-20.13	16.17	10.05	2.50	H		0.236	23.72		
		256-QAM	-22.39	13.91	10.05	2.50	H		0.140	21.46		
2679.990		PI/2 BPSK	-20.39	17.32	10.10	2.58	H		0.305	24.84	1	1
		QPSK	-20.43	17.28	10.10	2.58	H		0.302	24.80		
		16-QAM	-21.66	16.05	10.10	2.58	H		0.228	23.57		
		64-QAM	-22.90	14.81	10.10	2.58	H		0.171	22.33		
		256-QAM	-25.16	12.55	10.10	2.58	H		0.102	20.07		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2508.510	Sub6 n41(38) / 25 MHz [30 kHz]	PI/2 BPSK	-18.54	18.09	10.30	2.49	H	< 2.00	0.389	25.90	1	63
		QPSK	-18.71	17.92	10.30	2.49	H		0.374	25.73		
		16-QAM	-19.86	16.77	10.30	2.49	H		0.287	24.58		
		64-QAM	-21.14	15.49	10.30	2.49	H		0.214	23.30		
		256-QAM	-23.34	13.29	10.30	2.49	H		0.129	21.10		
2512.500		PI/2 BPSK	-18.13	18.49	10.28	2.50	H		0.424	26.27	1	63
		QPSK	-18.37	18.25	10.28	2.50	H		0.401	26.03		
		16-QAM	-19.40	17.22	10.28	2.50	H		0.316	25.00		
		64-QAM	-20.81	15.81	10.28	2.50	H		0.229	23.59		
		256-QAM	-23.18	13.44	10.28	2.50	H		0.132	21.22		
2592.990		PI/2 BPSK	-17.55	18.75	10.05	2.50	H		0.427	26.30	1	32
		QPSK	-17.65	18.65	10.05	2.50	H		0.417	26.20		
		16-QAM	-18.79	17.51	10.05	2.50	H		0.321	25.06		
		64-QAM	-20.06	16.24	10.05	2.50	H		0.239	23.79		
		256-QAM	-22.33	13.97	10.05	2.50	H		0.142	21.52		
2677.500		PI/2 BPSK	-20.19	17.37	10.10	2.58	H		0.308	24.89	1	1
		QPSK	-20.26	17.30	10.10	2.58	H		0.303	24.82		
		16-QAM	-21.30	16.26	10.10	2.58	H		0.239	23.78		
		64-QAM	-22.60	14.96	10.10	2.58	H		0.177	22.48		
		256-QAM	-24.93	12.63	10.10	2.58	H		0.104	20.15		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2511.000	Sub6 n41(38) / 30 MHz [30 kHz]	PI/2 BPSK	-18.21	18.41	10.30	2.50	H	< 2.00	0.418	26.21	1	76
		QPSK	-18.41	18.21	10.30	2.50	H		0.399	26.01		
		16-QAM	-19.41	17.21	10.30	2.50	H		0.317	25.01		
		64-QAM	-20.74	15.88	10.30	2.50	H		0.233	23.68		
		256-QAM	-23.06	13.56	10.30	2.50	H		0.137	21.36		
2515.020		PI/2 BPSK	-18.01	18.48	10.30	2.51	H		0.424	26.27	1	76
		QPSK	-18.11	18.38	10.30	2.51	H		0.414	26.17		
		16-QAM	-19.16	17.33	10.30	2.51	H		0.325	25.12		
		64-QAM	-20.56	15.93	10.30	2.51	H		0.236	23.72		
		256-QAM	-22.76	13.73	10.30	2.51	H		0.142	21.52		
2592.990		PI/2 BPSK	-17.51	18.79	10.05	2.50	H		0.431	26.34	1	39
		QPSK	-17.59	18.71	10.05	2.50	H		0.423	26.26		
		16-QAM	-18.61	17.69	10.05	2.50	H		0.334	25.24		
		64-QAM	-20.16	16.14	10.05	2.50	H		0.234	23.69		
		256-QAM	-22.26	14.04	10.05	2.50	H		0.144	21.59		
2674.980		PI/2 BPSK	-19.88	17.53	10.10	2.58	H		0.320	25.05	1	1
		QPSK	-19.98	17.43	10.10	2.58	H		0.313	24.95		
		16-QAM	-21.01	16.40	10.10	2.58	H		0.247	23.92		
		64-QAM	-22.49	14.92	10.10	2.58	H		0.175	22.44		
		256-QAM	-24.72	12.69	10.10	2.58	H		0.105	20.21		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2516.010	Sub6 n41(38) / 40 MHz [30 kHz]	PI/2 BPSK	-17.88	18.61	10.30	2.51	H	< 2.00	0.437	26.40	1	104
		QPSK	-17.96	18.53	10.30	2.51	H		0.429	26.32		
		16-QAM	-19.09	17.40	10.30	2.51	H		0.330	25.19		
		64-QAM	-20.43	16.06	10.30	2.51	H		0.243	23.85		
		256-QAM	-22.75	13.74	10.30	2.51	H		0.142	21.53		
2520.000		PI/2 BPSK	-17.90	18.77	10.00	2.53	H		0.421	26.24	1	104
		QPSK	-17.95	18.72	10.00	2.53	H		0.416	26.19		
		16-QAM	-19.06	17.61	10.00	2.53	H		0.322	25.08		
		64-QAM	-20.53	16.14	10.00	2.53	H		0.230	23.61		
		256-QAM	-22.78	13.89	10.00	2.53	H		0.137	21.36		
2592.990		PI/2 BPSK	-17.63	18.67	10.05	2.50	H		0.419	26.22	1	53
		QPSK	-17.71	18.59	10.05	2.50	H		0.411	26.14		
		16-QAM	-18.74	17.56	10.05	2.50	H		0.324	25.11		
		64-QAM	-20.03	16.27	10.05	2.50	H		0.241	23.82		
		256-QAM	-22.34	13.96	10.05	2.50	H		0.142	21.51		
2670.000		PI/2 BPSK	-19.63	17.49	10.10	2.58	H		0.317	25.01	1	1
		QPSK	-19.71	17.41	10.10	2.58	H		0.311	24.93		
		16-QAM	-21.11	16.01	10.10	2.58	H		0.225	23.53		
		64-QAM	-22.26	14.86	10.10	2.58	H		0.173	22.38		
		256-QAM	-24.46	12.66	10.10	2.58	H		0.104	20.18		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-17.76	18.91	10.00	2.53	H	< 2.00	0.435	26.38	1	131
		QPSK	-17.84	18.83	10.00	2.53	H		0.427	26.30		
		16-QAM	-18.93	17.74	10.00	2.53	H		0.332	25.21		
		64-QAM	-20.26	16.41	10.00	2.53	H		0.244	23.88		
		256-QAM	-22.69	13.98	10.00	2.53	H		0.140	21.45		
2525.010		-20.43	-17.59	18.67	10.30	2.53	H		0.441	26.44	1	131
		-20.50	-17.79	18.47	10.30	2.53	H		0.421	26.24		
		-21.70	-18.83	17.43	10.30	2.53	H		0.331	25.20		
		-22.96	-20.19	16.07	10.30	2.53	H		0.242	23.84		
		-25.24	-22.41	13.85	10.30	2.53	H		0.145	21.62		
2592.990		PI/2 BPSK	-17.50	18.80	10.05	2.50	H		0.432	26.35	1	66
		QPSK	-17.60	18.70	10.05	2.50	H		0.422	26.25		
		16-QAM	-18.66	17.64	10.05	2.50	H		0.330	25.19		
		64-QAM	-19.91	16.39	10.05	2.50	H		0.248	23.94		
		256-QAM	-22.16	14.14	10.05	2.50	H		0.148	21.69		
2664.990		PI/2 BPSK	-19.46	17.63	10.10	2.60	H		0.326	25.13	1	1
		QPSK	-19.59	17.50	10.10	2.60	H		0.316	25.00		
		16-QAM	-20.72	16.37	10.10	2.60	H		0.244	23.87		
		64-QAM	-22.05	15.04	10.10	2.60	H		0.179	22.54		
		256-QAM	-24.37	12.72	10.10	2.60	H		0.105	20.22		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-18.23	18.03	10.30	2.53	H	< 2.00	0.380	25.80	1	160
		QPSK	-18.33	17.93	10.30	2.53	H		0.372	25.70		
		16-QAM	-19.40	16.86	10.30	2.53	H		0.290	24.63		
		64-QAM	-20.83	15.43	10.30	2.53	H		0.209	23.20		
		256-QAM	-23.07	13.19	10.30	2.53	H		0.125	20.96		
2530.020		PI/2 BPSK	-18.01	18.11	10.30	2.52	H		0.388	25.89	1	160
		QPSK	-18.08	18.04	10.30	2.52	H		0.382	25.82		
		16-QAM	-19.17	16.95	10.30	2.52	H		0.297	24.73		
		64-QAM	-20.56	15.56	10.30	2.52	H		0.216	23.34		
		256-QAM	-22.88	13.24	10.30	2.52	H		0.126	21.02		
2592.990		PI/2 BPSK	-17.86	18.44	10.05	2.50	H		0.397	25.99	1	81
		QPSK	-17.91	18.39	10.05	2.50	H		0.393	25.94		
		16-QAM	-18.81	17.49	10.05	2.50	H		0.319	25.04		
		64-QAM	-20.29	16.01	10.05	2.50	H		0.227	23.56		
		256-QAM	-22.58	13.72	10.05	2.50	H		0.134	21.27		
2659.980		PI/2 BPSK	-18.98	17.87	10.10	2.61	H		0.344	25.36	1	1
		QPSK	-19.09	17.76	10.10	2.61	H		0.335	25.25		
		16-QAM	-20.33	16.52	10.10	2.61	H		0.252	24.01		
		64-QAM	-21.69	15.16	10.10	2.61	H		0.184	22.65		
		256-QAM	-23.91	12.94	10.10	2.61	H		0.110	20.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-17.70	18.42	10.30	2.52	H	< 2.00	0.417	26.20	1	187
		QPSK	-17.89	18.23	10.30	2.52	H		0.399	26.01		
		16-QAM	-18.81	17.31	10.30	2.52	H		0.323	25.09		
		64-QAM	-20.35	15.77	10.30	2.52	H		0.226	23.55		
		256-QAM	-22.59	13.53	10.30	2.52	H		0.135	21.31		
2535.000		PI/2 BPSK	-17.81	18.44	10.30	2.52	H		0.419	26.22	1	94
		QPSK	-17.91	18.34	10.30	2.52	H		0.409	26.12		
		16-QAM	-18.90	17.35	10.30	2.52	H		0.326	25.13		
		64-QAM	-20.34	15.91	10.30	2.52	H		0.234	23.69		
		256-QAM	-22.64	13.61	10.30	2.52	H		0.138	21.39		
2592.990		PI/2 BPSK	-17.61	18.69	10.05	2.50	H		0.421	26.24	1	94
		QPSK	-17.71	18.59	10.05	2.50	H		0.411	26.14		
		16-QAM	-18.82	17.48	10.05	2.50	H		0.318	25.03		
		64-QAM	-20.16	16.14	10.05	2.50	H		0.234	23.69		
		256-QAM	-22.33	13.97	10.05	2.50	H		0.142	21.52		
2655.000		PI/2 BPSK	-18.41	18.35	10.10	2.63	H		0.382	25.82	1	1
		QPSK	-18.55	18.21	10.10	2.63	H		0.370	25.68		
		16-QAM	-19.55	17.21	10.10	2.63	H		0.294	24.68		
		64-QAM	-20.95	15.81	10.10	2.63	H		0.213	23.28		
		256-QAM	-23.13	13.63	10.10	2.63	H		0.129	21.10		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-17.90	18.34	10.30	2.52	H	< 2.00	0.409	26.12	1	215
		QPSK	-17.93	18.31	10.30	2.52	H		0.406	26.09		
		16-QAM	-19.05	17.19	10.30	2.52	H		0.314	24.97		
		64-QAM	-20.36	15.88	10.30	2.52	H		0.232	23.66		
		256-QAM	-22.68	13.56	10.30	2.52	H		0.136	21.34		
2540.010		PI/2 BPSK	-17.63	18.73	10.30	2.52	H		0.448	26.51	1	215
		QPSK	-17.66	18.70	10.30	2.52	H		0.445	26.48		
		16-QAM	-18.88	17.48	10.30	2.52	H		0.336	25.26		
		64-QAM	-20.30	16.06	10.30	2.52	H		0.242	23.84		
		256-QAM	-22.45	13.91	10.30	2.52	H		0.148	21.69		
2592.990		PI/2 BPSK	-17.61	18.69	10.05	2.50	H		0.421	26.24	1	108
		QPSK	-17.75	18.55	10.05	2.50	H		0.407	26.10		
		16-QAM	-18.89	17.41	10.05	2.50	H		0.313	24.96		
		64-QAM	-20.24	16.06	10.05	2.50	H		0.230	23.61		
		256-QAM	-22.41	13.89	10.05	2.50	H		0.139	21.44		
2649.990		PI/2 BPSK	-17.79	18.88	10.10	2.65	H		0.430	26.33	1	1
		QPSK	-17.98	18.69	10.10	2.65	H		0.411	26.14		
		16-QAM	-19.16	17.51	10.10	2.65	H		0.313	24.96		
		64-QAM	-20.54	16.13	10.10	2.65	H		0.228	23.58		
		256-QAM	-22.69	13.98	10.10	2.65	H		0.139	21.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-17.47	18.89	10.30	2.52	H	< 2.00	0.465	26.67	1	243
		QPSK	-17.64	18.72	10.30	2.52	H		0.447	26.50		
		16-QAM	-18.82	17.54	10.30	2.52	H		0.340	25.32		
		64-QAM	-20.19	16.17	10.30	2.52	H		0.248	23.95		
		256-QAM	-22.44	13.92	10.30	2.52	H		0.148	21.70		
2545.020		PI/2 BPSK	-17.43	18.94	10.25	2.54	H		0.462	26.65	1	243
		QPSK	-17.46	18.91	10.25	2.54	H		0.459	26.62		
		16-QAM	-18.49	17.88	10.25	2.54	H		0.362	25.59		
		64-QAM	-19.98	16.39	10.25	2.54	H		0.257	24.10		
		256-QAM	-22.21	14.16	10.25	2.54	H		0.154	21.87		
2592.990		PI/2 BPSK	-17.55	18.75	10.05	2.50	H		0.427	26.30	1	122
		QPSK	-17.78	18.52	10.05	2.50	H		0.405	26.07		
		16-QAM	-18.81	17.49	10.05	2.50	H		0.319	25.04		
		64-QAM	-20.21	16.09	10.05	2.50	H		0.231	23.64		
		256-QAM	-22.51	13.79	10.05	2.50	H		0.136	21.34		
2644.980		PI/2 BPSK	-17.60	19.21	10.00	2.66	H		0.452	26.55	1	1
		QPSK	-17.75	19.06	10.00	2.66	H		0.437	26.40		
		16-QAM	-18.85	17.96	10.00	2.66	H		0.339	25.30		
		64-QAM	-20.14	16.67	10.00	2.66	H		0.252	24.01		
		256-QAM	-22.31	14.50	10.00	2.66	H		0.153	21.84		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-17.61	18.76	10.25	2.54	H	< 2.00	0.444	26.47	1	271
		QPSK	-17.73	18.64	10.25	2.54	H		0.432	26.35		
		16-QAM	-18.61	17.76	10.25	2.54	H		0.352	25.47		
		64-QAM	-20.09	16.28	10.25	2.54	H		0.251	23.99		
		256-QAM	-22.34	14.03	10.25	2.54	H		0.149	21.74		
2550.000		PI/2 BPSK	-17.49	18.88	10.20	2.55	H		0.450	26.53	1	271
		QPSK	-17.61	18.76	10.20	2.55	H		0.438	26.41		
		16-QAM	-18.61	17.76	10.20	2.55	H		0.348	25.41		
		64-QAM	-19.97	16.40	10.20	2.55	H		0.254	24.05		
		256-QAM	-22.27	14.10	10.20	2.55	H		0.150	21.75		
2592.990		PI/2 BPSK	-17.88	18.42	10.05	2.50	H		0.395	25.97	1	136
		QPSK	-17.88	18.42	10.05	2.50	H		0.395	25.97		
		16-QAM	-18.98	17.32	10.05	2.50	H		0.307	24.87		
		64-QAM	-20.44	15.86	10.05	2.50	H		0.219	23.41		
		256-QAM	-22.57	13.73	10.05	2.50	H		0.134	21.28		
2640.000		PI/2 BPSK	-17.62	19.33	9.90	2.67	H		0.453	26.56	1	1
		QPSK	-17.65	19.30	9.90	2.67	H		0.450	26.53		
		16-QAM	-18.75	18.20	9.90	2.67	H		0.349	25.43		
		64-QAM	-20.14	16.81	9.90	2.67	H		0.254	24.04		
		256-QAM	-22.43	14.52	9.90	2.67	H		0.150	21.75		

9.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: n41(38)
- ▣ Bandwidth: 10 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500202 (2501.010)	5 002.02	-61.69	10.70	-63.04	3.63	V	-55.97	-25.00	1	1
	7 503.03	-55.84	11.10	-48.83	4.50	H	-42.23	-25.00		
	10 004.04	-63.72	11.20	-55.26	5.26	V	-49.32	-25.00		
	12 505.05	-65.28	12.10	-55.94	6.04	V	-49.88	-25.00		
	15 006.06	-60.05	13.80	-53.45	6.65	V	-46.30	-25.00		
501000 (2505.000)	5 010.00	-60.94	10.70	-62.15	3.59	V	-55.04	-25.00	1	22
	7 515.00	-60.59	11.10	-53.48	4.51	H	-46.89	-25.00		
	10 020.00	-62.52	11.20	-53.43	5.28	V	-47.51	-25.00		
	12 525.00	-63.54	12.10	-53.66	6.02	V	-47.58	-25.00		
	15 030.00	-58.89	13.80	-52.57	6.64	V	-45.41	-25.00		
518598 (2592.990)	5 185.98	-62.66	11.00	-64.16	3.70	V	-56.86	-25.00	1	1
	7 778.97	-57.38	10.90	-50.00	4.61	H	-43.71	-25.00		
	10 371.96	-63.38	11.20	-52.68	5.41	V	-46.89	-25.00		
	12 964.95	-64.16	12.00	-54.23	6.11	V	-48.34	-25.00		
	15 557.94	-61.36	15.40	-56.03	6.77	V	-47.40	-25.00		
537000 (2685.000)	5 370.00	-62.37	11.50	-64.89	3.74	V	-57.13	-25.00	1	1
	8 055.00	-59.33	10.90	-52.12	4.71	H	-45.93	-25.00		
	10 740.00	-64.25	11.10	-53.65	5.50	V	-48.05	-25.00		
	13 425.00	-62.97	11.80	-52.12	6.22	V	-46.54	-25.00		
	16 110.00	-64.23	15.70	-55.09	6.91	V	-46.30	-25.00		

▣ NR Band: n41(38)

▣ Bandwidth: 15 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500700 (2503.500)	5 007.00	-61.50	10.70	-62.78	3.61	V	-55.69	-25.00	1	36
	7 510.50	-58.52	11.10	-51.45	4.50	H	-44.85	-25.00		
	10 014.00	-63.46	11.20	-54.85	5.27	V	-48.92	-25.00		
	12 517.50	-63.52	12.10	-53.89	6.04	V	-47.83	-25.00		
	15 021.00	-59.09	13.80	-52.61	6.65	V	-45.46	-25.00		
501504 (2507.500)	5 015.00	-62.24	10.70	-63.61	3.57	V	-56.48	-25.00	1	36
	7 522.50	-60.63	11.10	-53.32	4.51	H	-46.73	-25.00		
	10 030.00	-62.47	11.20	-53.91	5.27	V	-47.98	-25.00		
	12 537.50	-63.79	12.10	-53.96	6.00	V	-47.86	-25.00		
	15 045.00	-57.81	13.90	-51.71	6.65	V	-44.46	-25.00		
518598 (2592.990)	5 185.98	-62.27	11.00	-63.77	3.70	V	-56.47	-25.00	1	1
	7 778.97	-49.82	10.90	-42.44	4.61	H	-36.15	-25.00		
	10 371.96	-62.59	11.20	-51.89	5.41	V	-46.10	-25.00		
	12 964.95	-63.63	12.00	-53.70	6.11	V	-47.81	-25.00		
	15 557.94	-57.67	15.40	-52.34	6.77	V	-43.71	-25.00		
536496 (2682.480)	5 364.96	-63.03	11.50	-65.32	3.75	V	-57.57	-25.00	1	1
	8 047.44	-58.44	10.85	-51.26	4.69	H	-45.10	-25.00		
	10 729.92	-64.15	11.10	-52.92	5.47	V	-47.29	-25.00		
	13 412.40	-62.55	11.80	-51.88	6.21	V	-46.29	-25.00		
	16 094.88	-62.00	15.60	-52.54	6.91	V	-43.85	-25.00		

▣ NR Band: n41(38)

▣ Bandwidth: 20 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501204 (2506.020)	5 012.04	-62.80	10.70	-64.01	3.59	V	-56.90	-25.00	1	49
	7 518.06	-58.72	11.10	-51.61	4.51	H	-45.02	-25.00		
	10 024.08	-63.56	11.20	-54.74	5.27	V	-48.81	-25.00		
	12 530.10	-63.10	12.10	-53.28	6.01	V	-47.19	-25.00		
	15 036.12	-59.29	13.80	-53.05	6.65	V	-45.90	-25.00		
502002 (2510.010)	5 020.02	-60.98	10.70	-62.55	3.55	V	-55.40	-25.00	1	49
	7 530.03	-57.14	11.10	-49.18	4.50	H	-42.58	-25.00		
	10 040.04	-62.39	11.20	-53.47	5.26	V	-47.53	-25.00		
	12 550.05	-63.19	12.10	-53.10	5.99	V	-46.99	-25.00		
	15 060.06	-57.77	14.00	-51.82	6.65	V	-44.47	-25.00		
518598 (2592.990)	5 185.98	-61.99	11.00	-63.49	3.70	V	-56.19	-25.00	1	25
	7 778.97	-57.69	10.90	-50.31	4.61	H	-44.02	-25.00		
	10 371.96	-64.43	11.20	-53.73	5.41	V	-47.94	-25.00		
	12 964.95	-63.79	12.00	-53.86	6.11	V	-47.97	-25.00		
	15 557.94	-61.54	15.40	-56.21	6.77	V	-47.58	-25.00		
535998 (2679.990)	5 359.98	-63.21	11.50	-65.27	3.76	V	-57.53	-25.00	1	1
	8 039.97	-58.09	10.80	-50.92	4.68	H	-44.80	-25.00		
	10 719.96	-65.02	11.10	-53.39	5.46	V	-47.75	-25.00		
	13 399.95	-63.48	11.80	-53.13	6.22	V	-47.55	-25.00		
	16 079.94	-64.19	15.50	-54.91	6.90	V	-46.31	-25.00		

▣ NR Band: n41(38)

▣ Bandwidth: 25 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501702 (2508.510)	5 017.02	-62.04	10.70	-63.41	3.57	V	-56.28	-25.00	1	63
	7 525.53	-58.86	11.10	-51.55	4.51	H	-44.96	-25.00		
	10 034.04	-61.68	11.20	-52.77	5.27	V	-46.84	-25.00		
	12 542.55	-62.91	12.10	-53.32	6.00	V	-47.22	-25.00		
	15 051.06	-57.56	14.00	-51.50	6.66	V	-44.16	-25.00		
502500 (2512.500)	5 025.00	-61.93	10.95	-64.41	3.56	V	-57.02	-25.00	1	63
	7 537.50	-58.42	11.58	-52.44	4.50	H	-45.36	-25.00		
	10 050.00	-62.15	11.70	-53.29	5.27	V	-46.86	-25.00		
	12 562.50	-64.00	12.90	-54.52	6.01	V	-47.63	-25.00		
	15 075.00	-58.15	14.70	-52.53	6.65	V	-44.48	-25.00		
518598 (2592.990)	5 185.98	-62.77	11.00	-64.27	3.70	V	-56.97	-25.00	1	32
	7 778.97	-57.86	10.90	-50.48	4.61	H	-44.19	-25.00		
	10 371.96	-64.74	11.20	-54.04	5.41	V	-48.25	-25.00		
	12 964.95	-62.20	12.00	-52.27	6.11	V	-46.38	-25.00		
	15 557.94	-61.05	15.40	-55.72	6.77	V	-47.09	-25.00		
535500 (2677.500)	5 355.00	-61.45	11.50	-63.31	3.75	V	-55.56	-25.00	1	1
	8 032.50	-56.88	10.80	-49.88	4.65	H	-43.73	-25.00		
	10 710.00	-63.40	11.10	-51.52	5.47	V	-45.89	-25.00		
	13 387.50	-61.48	11.90	-51.26	6.23	V	-45.59	-25.00		
	16 065.00	-65.33	15.50	-56.28	6.90	V	-47.68	-25.00		

▣ NR Band: n41(38)

▣ Bandwidth: 30 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502200 (2511.000)	5 022.00	-60.97	10.70	-62.50	3.55	V	-55.35	-25.00	1	76
	7 533.00	-57.34	11.10	-49.86	4.50	H	-43.26	-25.00		
	10 044.00	-63.03	11.15	-54.18	5.27	V	-48.30	-25.00		
	12 555.00	-63.53	12.10	-54.22	6.00	V	-48.12	-25.00		
	15 066.00	-58.11	14.00	-52.50	6.65	V	-45.15	-25.00		
503004 (2515.020)	5 030.04	-62.31	10.70	-64.41	3.56	V	-57.27	-25.00	1	76
	7 545.06	-58.02	11.10	-50.68	4.50	H	-44.08	-25.00		
	10 060.08	-63.38	11.15	-54.64	5.27	V	-48.76	-25.00		
	12 575.10	-63.70	12.10	-54.18	6.05	V	-48.13	-25.00		
	15 090.12	-60.18	14.00	-55.04	6.66	V	-47.70	-25.00		
518598 (2592.990)	5 185.98	-61.22	11.00	-62.72	3.70	V	-55.42	-25.00	1	39
	7 778.97	-56.27	10.90	-48.89	4.61	H	-42.60	-25.00		
	10 371.96	-64.03	11.20	-53.33	5.41	V	-47.54	-25.00		
	12 964.95	-63.29	12.00	-53.36	6.11	V	-47.47	-25.00		
	15 557.94	-62.09	15.40	-56.76	6.77	V	-48.13	-25.00		
534996 (2674.980)	5 349.96	-61.98	11.50	-63.63	3.75	V	-55.88	-25.00	1	1
	8 024.94	-57.78	10.80	-51.07	4.62	H	-44.89	-25.00		
	10 699.92	-64.71	11.10	-53.03	5.48	V	-47.41	-25.00		
	13 374.90	-63.49	11.90	-53.43	6.23	V	-47.76	-25.00		
	16 049.88	-64.62	15.50	-55.77	6.90	V	-47.17	-25.00		

▣ NR Band: n41(38)

▣ Bandwidth: 40 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503202 (2516.010)	5 032.02	-62.95	10.70	-65.05	3.56	V	-57.91	-25.00	1	104
	7 548.03	-58.62	11.10	-51.28	4.50	H	-44.68	-25.00		
	10 064.04	-62.57	11.10	-53.76	5.28	V	-47.94	-25.00		
	12 580.05	-64.34	12.10	-54.71	6.06	V	-48.67	-25.00		
	15 096.06	-60.90	14.05	-55.57	6.67	V	-48.19	-25.00		
504000 (2520.000)	5 040.00	-61.80	10.70	-63.77	3.60	V	-56.67	-25.00	1	104
	7 560.00	-59.49	11.10	-52.50	4.51	H	-45.91	-25.00		
	10 080.00	-62.50	11.10	-53.45	5.29	V	-47.64	-25.00		
	12 600.00	-65.09	12.00	-55.37	6.06	V	-49.43	-25.00		
	15 120.00	-60.29	14.10	-54.20	6.68	V	-46.78	-25.00		
518598 (2592.990)	5 185.98	-62.87	11.00	-64.37	3.70	V	-57.07	-25.00	1	53
	7 778.97	-57.98	10.90	-50.60	4.61	H	-44.31	-25.00		
	10 371.96	-65.08	11.20	-54.38	5.41	V	-48.59	-25.00		
	12 964.95	-63.59	12.00	-53.66	6.11	V	-47.77	-25.00		
	15 557.94	-61.00	15.40	-55.67	6.77	V	-47.04	-25.00		
534000 (2670.000)	5 340.00	-62.26	11.40	-63.96	3.75	V	-56.31	-25.00	1	1
	8 010.00	-57.77	10.80	-50.70	4.62	H	-44.52	-25.00		
	10 680.00	-64.61	11.10	-53.15	5.46	V	-47.51	-25.00		
	13 350.00	-64.07	11.90	-54.02	6.21	V	-48.33	-25.00		
	16 020.00	-63.43	15.20	-55.08	6.68	V	-46.56	-25.00		

▣ NR Band: n41

▣ Bandwidth: 50 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504204 (2521.020)	5 042.04	-63.11	10.70	-65.08	3.60	V	-57.98	-25.00	1	131
	7 563.06	-59.48	11.10	-52.66	4.52	H	-46.08	-25.00		
	10 084.08	-62.53	11.10	-53.31	5.30	V	-47.51	-25.00		
	12 605.10	-64.50	12.00	-55.00	6.05	V	-49.05	-25.00		
	15 126.12	-61.12	14.10	-55.16	6.67	V	-47.73	-25.00		
505002 (2525.010)	5 050.02	-60.89	10.70	-62.54	3.63	V	-55.47	-25.00	1	131
	7 575.03	-58.95	11.10	-52.23	4.54	H	-45.67	-25.00		
	10 100.04	-63.12	11.10	-54.26	5.29	V	-48.45	-25.00		
	12 625.05	-64.85	12.00	-55.57	6.02	V	-49.59	-25.00		
	15 150.06	-60.12	14.20	-54.82	6.67	V	-47.29	-25.00		
518598 (2592.990)	5 185.98	-62.82	11.00	-64.32	3.70	V	-57.02	-25.00	1	66
	7 778.97	-59.46	10.90	-52.08	4.61	H	-45.79	-25.00		
	10 371.96	-64.89	11.20	-54.19	5.41	V	-48.40	-25.00		
	12 964.95	-63.70	12.00	-53.77	6.11	V	-47.88	-25.00		
	15 557.94	-61.23	15.40	-55.90	6.77	V	-47.27	-25.00		
532998 (2664.990)	5 329.98	-62.44	11.40	-64.41	3.71	V	-56.72	-25.00	1	1
	7 994.97	-58.53	10.75	-51.12	4.66	H	-45.03	-25.00		
	10 659.96	-64.30	11.10	-52.14	5.49	V	-46.53	-25.00		
	13 324.95	-64.00	12.00	-53.29	6.19	V	-47.48	-25.00		
	15 989.94	-62.98	15.10	-55.16	6.88	V	-46.94	-25.00		

▣ NR Band: n41

▣ Bandwidth: 60 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
505200 (2526.000)	5 052.00	-62.72	10.70	-64.37	3.63	V	-57.30	-25.00	1	161
	7 578.00	-62.89	11.10	-56.10	4.54	V	-49.54	-25.00		
	10 104.00	-62.30	11.10	-53.46	5.29	V	-47.65	-25.00		
	12 630.00	-63.50	12.00	-54.27	6.02	V	-48.29	-25.00		
	15 156.00	-59.29	14.20	-53.80	6.67	V	-46.27	-25.00		
506004 (2530.020)	5 060.04	-61.71	10.70	-62.69	3.65	V	-55.64	-25.00	1	161
	7 590.06	-63.92	11.10	-57.02	4.54	H	-50.46	-25.00		
	10 120.08	-62.46	11.10	-53.85	5.29	V	-48.04	-25.00		
	12 650.10	-64.22	11.90	-54.82	6.03	V	-48.95	-25.00		
	15 180.12	-59.59	14.20	-54.09	6.67	V	-46.56	-25.00		
518598 (2592.990)	5 185.98	-62.51	11.00	-64.01	3.70	V	-56.71	-25.00	1	81
	7 778.97	-58.55	10.90	-51.17	4.61	H	-44.88	-25.00		
	10 371.96	-64.22	11.20	-53.52	5.41	V	-47.73	-25.00		
	12 964.95	-63.10	12.00	-53.17	6.11	V	-47.28	-25.00		
	15 557.94	-62.32	15.40	-56.99	6.77	V	-48.36	-25.00		
531996 (2659.980)	5 319.96	-61.35	11.40	-64.09	3.66	V	-56.35	-25.00	1	1
	7 979.94	-56.88	10.70	-49.63	4.67	H	-43.60	-25.00		
	10 639.92	-63.36	11.20	-51.93	5.49	V	-46.22	-25.00		
	13 299.90	-63.29	12.00	-53.14	6.19	V	-47.33	-25.00		
	15 959.88	-64.53	15.10	-55.87	6.87	V	-47.64	-25.00		

▣ NR Band: n41

▣ Bandwidth: 70 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
506202 (2531.010)	5 062.02	-63.22	10.70	-64.20	3.65	V	-57.15	-25.00	1	187
	7 593.03	-62.31	11.15	-55.27	4.53	H	-48.65	-25.00		
	10 124.04	-64.25	11.10	-55.37	5.30	V	-49.57	-25.00		
	12 655.05	-64.82	11.90	-55.31	6.03	V	-49.44	-25.00		
	15 186.06	-60.03	14.20	-54.78	6.67	V	-47.25	-25.00		
507000 (2535.000)	5 070.00	-62.88	10.70	-64.16	3.62	V	-57.08	-25.00	1	187
	7 605.00	-61.90	11.20	-54.89	4.52	H	-48.21	-25.00		
	10 140.00	-63.77	11.10	-54.11	5.31	V	-48.32	-25.00		
	12 675.00	-64.86	11.90	-55.01	6.05	V	-49.16	-25.00		
	15 210.00	-62.62	14.40	-57.90	6.67	V	-50.17	-25.00		
518598 (2592.990)	5 185.98	-61.10	11.00	-62.60	3.70	V	-55.30	-25.00	1	94
	7 778.97	-60.06	10.90	-52.68	4.61	H	-46.39	-25.00		
	10 371.96	-62.09	11.20	-51.39	5.41	V	-45.60	-25.00		
	12 964.95	-63.15	12.00	-53.22	6.11	V	-47.33	-25.00		
	15 557.94	-61.61	15.40	-56.28	6.77	V	-47.65	-25.00		
531000 (2655.000)	5 310.00	-62.26	11.40	-64.50	3.65	V	-56.75	-25.00	1	1
	7 965.00	-60.64	10.70	-53.47	4.65	H	-47.42	-25.00		
	10 620.00	-64.09	11.20	-53.40	5.41	V	-47.61	-25.00		
	13 275.00	-64.09	12.10	-53.76	6.22	V	-47.88	-25.00		
	15 930.00	-62.25	15.00	-53.98	6.88	V	-45.86	-25.00		

▣ NR Band: n41

▣ Bandwidth: 80 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
507204 (2536.020)	5 072.04	-61.97	10.70	-63.25	3.62	V	-56.17	-25.00	1	215
	7 608.06	-57.97	11.20	-50.96	4.52	H	-44.28	-25.00		
	10 144.08	-62.89	11.05	-53.42	5.32	V	-47.69	-25.00		
	12 680.10	-64.77	11.90	-54.56	6.06	V	-48.72	-25.00		
	15 216.12	-61.56	14.40	-56.60	6.69	V	-48.89	-25.00		
508002 (2540.010)	5 080.02	-63.89	10.70	-65.53	3.61	V	-58.44	-25.00	1	215
	7 620.03	-56.64	11.20	-50.17	4.52	H	-43.49	-25.00		
	10 160.04	-64.02	11.00	-54.56	5.33	V	-48.89	-25.00		
	12 700.05	-65.12	11.90	-54.37	6.06	V	-48.53	-25.00		
	15 240.06	-61.34	14.40	-55.44	6.74	V	-47.78	-25.00		
518598 (2592.990)	5 185.98	-62.05	11.00	-63.55	3.70	V	-56.25	-25.00	1	108
	7 778.97	-58.89	10.90	-51.51	4.61	H	-45.22	-25.00		
	10 371.96	-63.87	11.20	-53.17	5.41	V	-47.38	-25.00		
	12 964.95	-62.91	12.00	-52.98	6.11	V	-47.09	-25.00		
	15 557.94	-61.15	15.40	-55.82	6.77	V	-47.19	-25.00		
529998 (2649.990)	5 299.98	-63.00	11.40	-65.11	3.69	V	-57.40	-25.00	1	1
	7 949.97	-58.83	10.70	-51.52	4.64	H	-45.46	-25.00		
	10 599.96	-64.42	11.20	-53.23	5.41	V	-47.44	-25.00		
	13 249.95	-63.06	12.10	-53.00	6.18	V	-47.08	-25.00		
	15 899.94	-63.12	15.00	-55.29	6.87	V	-47.16	-25.00		

▣ NR Band: n41

▣ Bandwidth: 90 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
508200 (2541.000)	5 082.00	-61.84	10.70	-63.48	3.61	V	-56.39	-25.00	1	243
	7 623.00	-53.22	11.20	-46.82	4.52	H	-40.14	-25.00		
	10 164.00	-63.01	11.00	-53.93	5.33	V	-48.26	-25.00		
	12 705.00	-64.31	11.90	-53.79	6.06	V	-47.95	-25.00		
	15 246.00	-61.24	14.50	-55.36	6.73	V	-47.59	-25.00		
509004 (2545.020)	5 090.04	-63.68	10.70	-65.83	3.64	V	-58.77	-25.00	1	243
	7 635.06	-54.26	11.20	-47.87	4.53	H	-41.20	-25.00		
	10 180.08	-64.11	11.00	-54.49	5.33	V	-48.82	-25.00		
	12 725.10	-64.59	11.90	-54.09	6.03	V	-48.22	-25.00		
	15 270.12	-60.86	14.60	-55.07	6.72	V	-47.19	-25.00		
518598 (2592.990)	5 185.98	-61.96	11.00	-63.46	3.70	V	-56.16	-25.00	1	122
	7 778.97	-56.52	10.90	-49.14	4.61	H	-42.85	-25.00		
	10 371.96	-64.02	11.20	-53.32	5.41	V	-47.53	-25.00		
	12 964.95	-63.02	12.00	-53.09	6.11	V	-47.20	-25.00		
	15 557.94	-61.13	15.40	-55.80	6.77	V	-47.17	-25.00		
528996 (2644.980)	5 289.96	-62.89	11.30	-64.36	3.73	V	-56.79	-25.00	1	1
	7 934.94	-53.84	10.70	-46.49	4.64	H	-40.43	-25.00		
	10 579.92	-64.80	11.20	-54.35	5.46	V	-48.61	-25.00		
	13 224.90	-63.05	12.10	-53.02	6.16	V	-47.08	-25.00		
	15 869.88	-62.88	14.90	-56.13	6.85	V	-48.08	-25.00		

▣ NR Band: n41

▣ Bandwidth: 100 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-63.42	10.70	-65.57	3.64	V	-58.51	-25.00	1	271
	7 638.03	-56.92	11.20	-50.53	4.53	H	-43.86	-25.00		
	10 184.04	-64.31	11.00	-54.85	5.33	V	-49.18	-25.00		
	12 730.05	-65.13	11.90	-54.68	6.02	V	-48.80	-25.00		
	15 276.06	-59.83	14.60	-53.96	6.71	V	-46.07	-25.00		
510000 (2550.000)	5 100.00	-62.41	10.80	-64.31	3.66	V	-57.17	-25.00	1	271
	7 650.00	-54.14	11.10	-47.29	4.53	H	-40.72	-25.00		
	10 200.00	-64.37	11.00	-53.94	5.33	V	-48.27	-25.00		
	12 750.00	-64.54	11.80	-53.58	6.04	V	-47.82	-25.00		
	15 300.00	-60.42	14.90	-54.32	6.72	V	-46.14	-25.00		
518598 (2592.990)	5 185.98	-61.17	11.00	-62.67	3.70	V	-55.37	-25.00	1	136
	7 778.97	-51.48	10.90	-44.10	4.61	H	-37.81	-25.00		
	10 371.96	-63.42	11.20	-52.72	5.41	V	-46.93	-25.00		
	12 964.95	-63.50	12.00	-53.57	6.11	V	-47.68	-25.00		
	15 557.94	-61.53	15.40	-56.20	6.77	V	-47.57	-25.00		
528000 (2640.000)	5 280.00	-62.31	11.30	-64.22	3.75	V	-56.67	-25.00	1	1
	7 920.00	-51.64	10.70	-44.46	4.63	H	-38.39	-25.00		
	10 560.00	-64.41	11.20	-54.50	5.45	V	-48.75	-25.00		
	13 200.00	-64.18	12.10	-53.74	6.19	V	-47.83	-25.00		
	15 840.00	-62.78	14.90	-55.67	6.84	V	-47.61	-25.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41(38)	10 MHz	2592.990	BPSK	24	0	3.91
			QPSK			4.96
			16-QAM			5.84
			64-QAM			6.10
			256-QAM			6.66
	15 MHz		BPSK	36		3.87
			QPSK			4.97
			16-QAM			5.80
			64-QAM			6.06
			256-QAM			6.45
	20 MHz		BPSK	50		4.93
			QPSK			4.97
			16-QAM			5.86
			64-QAM			6.21
			256-QAM			6.59
	25 MHz		BPSK	64		3.88
			QPSK			5.16
			16-QAM			5.72
			64-QAM			6.04
			256-QAM			6.49
	30 MHz		BPSK	75		3.79
			QPSK			4.89
			16-QAM			5.68
			64-QAM			6.00
			256-QAM			6.37
	40 MHz		BPSK	100		4.32
			QPSK			5.28
			16-QAM			5.91
			64-QAM			6.08
			256-QAM			6.51
	50 MHz		BPSK	128		3.89
			QPSK			5.01
			16-QAM			5.72
			64-QAM			6.03
			256-QAM			6.43

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41	60 MHz	2592.990	BPSK	162	0	3.87
			QPSK			5.03
			16-QAM			5.80
			64-QAM			6.09
			256-QAM			6.51
	70 MHz		BPSK	180		4.02
			QPSK			5.01
			16-QAM			5.79
			64-QAM			6.01
			256-QAM			6.39
	80 MHz		BPSK	216		3.92
			QPSK			4.93
			16-QAM			5.80
			64-QAM			6.05
			256-QAM			6.41
	90 MHz		BPSK	243		3.91
			QPSK			4.95
			16-QAM			5.78
			64-QAM			6.06
			256-QAM			6.44
	100 MHz		BPSK	270		4.10
			QPSK			5.08
			16-QAM			5.80
			64-QAM			6.09
			256-QAM			6.42

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 225 ~ 284.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41(38)	10 MHz	2592.990	BPSK	24	0	8.6470
			QPSK			8.6799
			16-QAM			8.6586
			64-QAM			8.7103
			256-QAM			8.6450
	15 MHz		BPSK	36		13.020
			QPSK			12.985
			16-QAM			12.988
			64-QAM			12.955
			256-QAM			13.079
	20 MHz		BPSK	50		17.919
			QPSK			17.962
			16-QAM			17.963
			64-QAM			18.027
			256-QAM			18.043
	25 MHz		BPSK	64		22.952
			QPSK			23.071
			16-QAM			23.000
			64-QAM			23.001
			256-QAM			22.975
	30 MHz		BPSK	75		26.912
			QPSK			26.991
			16-QAM			26.999
			64-QAM			26.932
			256-QAM			27.032
	40 MHz		BPSK	100		35.949
			QPSK			35.923
			16-QAM			35.933
			64-QAM			35.859
			256-QAM			35.924
	50 MHz		BPSK	128		45.877
			QPSK			45.829
			16-QAM			45.850
			64-QAM			45.830
			256-QAM			45.809

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41	60 MHz	2592.990	BPSK	162	0	57.980
			QPSK			58.020
			16-QAM			57.999
			64-QAM			57.873
			256-QAM			58.108
	70 MHz		BPSK	180		64.727
			QPSK			64.644
			16-QAM			64.506
			64-QAM			64.339
			256-QAM			64.377
	80 MHz		BPSK	216		77.101
			QPSK			77.123
			16-QAM			77.261
			64-QAM			77.129
			256-QAM			77.199
	90 MHz		BPSK	243		86.715
			QPSK			86.787
			16-QAM			86.949
			64-QAM			86.937
			256-QAM			86.768
	100 MHz		BPSK	270		96.514
			QPSK			96.676
			16-QAM			96.390
			64-QAM			96.565
			256-QAM			96.885

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 285 ~ 344.

9.5 CONDUCTED SPURIOUS EMISSIONS

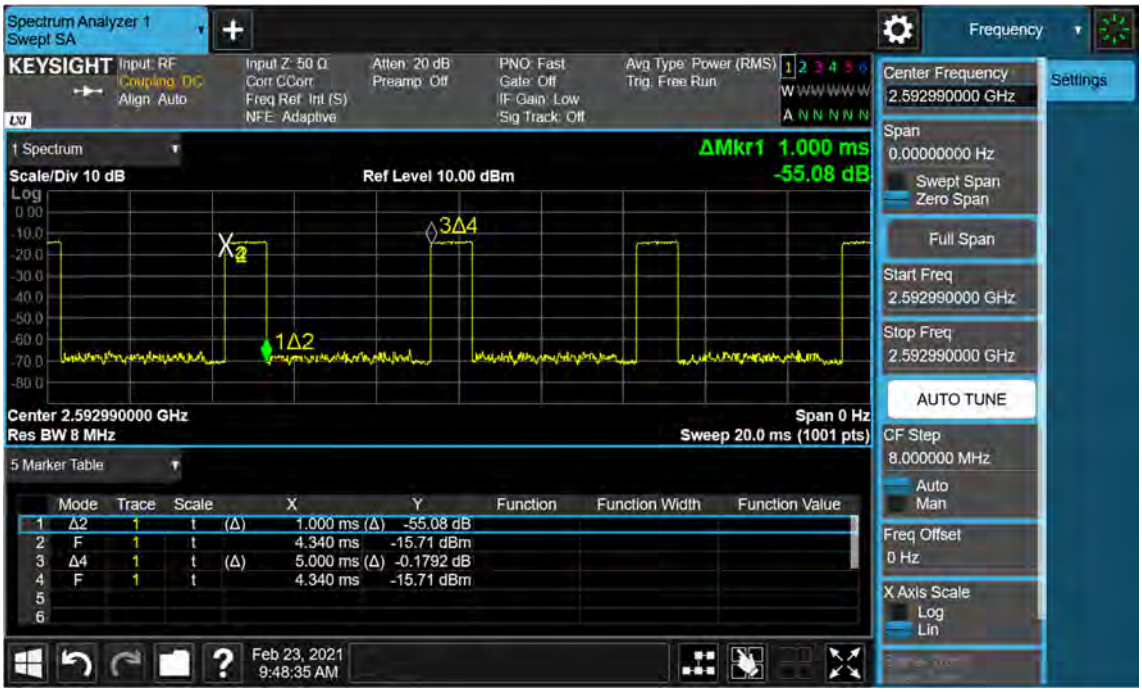
Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n41(38)	10	2501.010	8.2906	37.805	-69.397	-31.592	-25.00
		2505.000	3.7817	37.190	-70.094	-32.904	
		2592.990	8.0035	37.805	-70.618	-32.813	
		2685.000	4.0439	37.190	-69.807	-32.617	
	15	2503.500	8.2587	37.805	-69.620	-31.815	
		2507.520	4.9258	37.190	-70.332	-33.142	
		2592.990	4.0195	37.190	-70.216	-33.026	
		2682.480	3.7648	37.190	-70.204	-33.014	
	20	2506.020	3.8365	37.190	-70.122	-32.932	
		2510.010	4.0574	37.190	-70.424	-33.234	
		2592.990	7.1645	37.805	-70.341	-32.536	
		2679.990	4.0265	37.190	-69.293	-32.103	
	25	2508.480	4.0384	37.190	-69.607	-32.417	
		2512.500	8.0200	37.805	-70.418	-32.613	
		2592.990	7.9980	37.805	-70.947	-33.142	
		2677.500	9.6635	37.805	-70.473	-32.668	
	30	2511.000	8.0045	37.805	-71.238	-33.433	
		2515.000	8.2882	37.805	-70.695	-32.890	
		2592.990	8.3001	37.805	-70.951	-33.146	
		2674.980	5.9896	37.805	-71.360	-33.555	
	40	2516.010	8.8235	37.805	-70.647	-32.842	
		2520.000	8.2782	37.805	-70.174	-32.369	
		2592.990	3.7513	37.190	-70.166	-32.976	
		2670.000	8.0105	37.805	-70.886	-33.081	
	50	2521.020	9.6959	37.805	-71.018	-33.213	
		2525.010	4.5474	37.190	-70.268	-33.078	
		2592.990	8.3191	37.805	-70.040	-32.235	
		2664.990	7.9427	37.805	-70.371	-32.566	
Sub6 n41	60	2526.000	7.7318	37.805	-70.319	-32.514	
		2530.020	9.1122	37.805	-70.503	-32.698	
		2592.990	8.3350	37.805	-70.687	-32.882	
		2659.980	3.7712	37.190	-70.740	-33.550	
	70	2531.010	8.8829	37.805	-70.428	-32.623	
		2535.000	4.9447	37.190	-70.736	-33.546	
		2592.990	8.2622	37.805	-70.533	-32.728	
		2655.000	9.7378	37.805	-70.459	-32.654	
	80	2536.020	3.7663	37.190	-69.973	-32.783	
		2540.010	8.0090	37.805	-70.769	-32.964	
		2592.990	9.7298	37.805	-69.478	-31.673	
		2649.990	8.3036	37.805	-70.544	-32.739	
	90	2541.000	9.4297	37.805	-70.341	-32.536	
		2545.020	3.8002	37.190	-70.276	-33.086	
		2592.990	8.8410	37.805	-70.660	-32.855	
		2644.980	4.0564	37.190	-70.786	-33.596	
	100	2546.010	8.0035	37.805	-70.829	-33.024	
		2550.000	4.0594	37.190	-70.153	-32.963	
		2592.990	4.0679	37.190	-70.619	-33.429	
		2640.000	8.3370	37.805	-70.246	-32.441	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 345 ~ 440.

2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.99



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

- Result(dBm) = Reading + Factor

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

9.6 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
				Lower	Upper	Lower	Upper	Lower	Upper	Upper
10	2501.010	BPSK	Full RB	-20.99	-20.16	-23.39	-22.17	-26.05	-22.35	-34.29
	2505.000	BPSK	Full RB	-21.10	-21.14	-21.81	-21.61	-39.46	-22.10	-36.90
15	2503.500	BPSK	Full RB	-20.90	-25.86	-23.59	-24.78	-26.81	-21.71	-36.57
	2507.520	BPSK	Full RB	-19.63	-24.05	-22.54	-21.99	-28.69	-21.87	-39.23
20	2506.020	BPSK	Full RB	-21.35	-23.29	-23.70	-22.54	-26.43	-23.60	-35.54
	2510.010	BPSK	Full RB	-19.31	-22.47	-24.13	-20.27	-27.39	-22.97	-37.12
25	2508.480	BPSK	Full RB	-22.40	-22.61	-26.01	-24.98	-27.59	-25.24	-37.33
	2512.500	BPSK	Full RB	-22.95	-23.61	-26.19	-24.91	-26.53	-23.99	-39.15
30	2511.000	BPSK	Full RB	-22.47	-25.25	-25.49	-25.61	-29.99	-26.75	-40.83
	2515.000	BPSK	Full RB	-21.94	-25.19	-29.13	-25.54	-27.17	-26.18	-42.97
40	2516.010	BPSK	Full RB	-22.33	-26.72	-26.28	-26.55	-31.11	-27.66	-39.11
	2520.000	BPSK	Full RB	-21.16	-20.11	-24.83	-21.01	-28.31	-25.46	-39.70
50	2521.020	BPSK	Full RB	-23.09	-25.84	-27.72	-27.48	-30.98	-28.36	-39.46
	2525.010	BPSK	Full RB	-22.27	-22.87	-25.61	-24.15	-31.23	-23.44	-40.00
60	2526.000	BPSK	Full RB	-16.71	-16.17	-26.82	-25.52	-28.54	-23.88	-40.82
	2530.020	BPSK	Full RB	-18.48	-17.30	-27.46	-25.54	-32.48	-24.33	-45.15
70	2531.010	BPSK	Full RB	-22.80	-24.29	-25.50	-26.91	-29.68	-26.37	-40.19
	2535.000	BPSK	Full RB	-22.97	-25.78	-26.27	-25.36	-29.93	-26.73	-41.75
80	2536.020	BPSK	Full RB	-23.01	-23.17	-28.94	-26.14	-31.11	-25.62	-42.25
	2540.010	BPSK	Full RB	-23.22	-25.25	-29.28	-26.54	-32.21	-27.37	-44.93
90	2541.000	BPSK	Full RB	-21.76	-23.79	-26.66	-23.65	-28.27	-23.84	-33.06
	2545.020	BPSK	Full RB	-22.31	-25.85	-28.63	-26.93	-33.83	-28.26	-47.22
100	2546.010	BPSK	Full RB	-21.61	-27.38	-29.45	-28.01	-31.64	-28.40	-46.21
	2550.000	BPSK	Full RB	-21.76	-27.89	-29.02	-28.61	-34.93	-30.09	-47.82
Limit (dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-20.42	-20.38	-23.69	-23.38
	2685.000	BPSK	Full RB	0	-19.66	-19.59	-19.55	-20.28
15 MHz	2592.990	BPSK	Full RB	0	-19.49	-28.61	-23.83	-26.27
	2682.480	BPSK	Full RB	0	-16.98	-23.67	-18.20	-18.19
20 MHz	2592.990	BPSK	Full RB	0	-19.96	-24.62	-24.90	-26.37
	2679.990	BPSK	Full RB	0	-20.61	-24.17	-22.73	-23.45
25 MHz	2592.990	BPSK	Full RB	0	-21.28	-24.20	-24.34	-24.89
	2677.500	BPSK	Full RB	0	-16.51	-18.27	-17.07	-17.41
30 MHz	2592.990	BPSK	Full RB	0	-20.85	-27.06	-24.15	-26.02
	2679.990	BPSK	Full RB	0	-19.95	-23.46	-22.19	-22.90
40 MHz	2592.990	BPSK	Full RB	0	-18.64	-20.23	-19.81	-20.86
	2670.000	BPSK	Full RB	0	-17.92	-28.90	-21.97	-21.55
50 MHz	2592.990	BPSK	Full RB	0	-20.86	-26.66	-26.74	-28.07
	2664.990	BPSK	Full RB	0	-18.26	-20.30	-20.93	-21.80
60 MHz	2592.990	BPSK	Full RB	0	-15.53	-16.55	-28.18	-26.21
	2659.980	BPSK	Full RB	0	-14.84	-16.12	-22.72	-24.18
70 MHz	2592.990	BPSK	Full RB	0	-21.08	-28.10	-27.78	-27.35
	2655.000	BPSK	Full RB	0	-17.92	-22.58	-19.44	-23.41
80 MHz	2592.990	BPSK	Full RB	0	-20.12	-24.02	-25.22	-26.61
	2649.990	BPSK	Full RB	0	-18.03	-23.94	-22.81	-25.51
90 MHz	2592.990	BPSK	Full RB	0	-19.52	-24.41	-24.93	-24.82
	2644.980	BPSK	Full RB	0	-16.89	-24.16	-22.32	-24.35
100 MHz	2592.990	BPSK	Full RB	0	-17.57	-28.97	-28.86	-30.05
	2640.000	BPSK	Full RB	0	-16.28	-25.42	-23.19	-26.28
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-23.65	-24.34	-35.44	-36.32
	2685.000	BPSK	Full RB	0	-18.93	-21.65	-33.26	-35.68
15 MHz	2592.990	BPSK	Full RB	0	-25.90	-25.55	-36.89	-37.50
	2682.480	BPSK	Full RB	0	-18.34	-20.61	-35.71	-36.51
20 MHz	2592.990	BPSK	Full RB	0	-26.89	-27.08	-38.28	-37.96
	2679.990	BPSK	Full RB	0	-24.71	-25.17	-35.99	-38.95
25 MHz	2592.990	BPSK	Full RB	0	-26.42	-26.16	-39.08	-40.28
	2677.500	BPSK	Full RB	0	-19.92	-21.22	-36.75	-39.17
30 MHz	2592.990	BPSK	Full RB	0	-27.34	-27.84	-40.49	-41.56
	2679.990	BPSK	Full RB	0	-23.27	-24.55	-38.36	-47.46
40 MHz	2592.990	BPSK	Full RB	0	-25.59	-25.09	-38.35	-40.23
	2670.000	BPSK	Full RB	0	-21.98	-23.62	-39.37	-48.75
50 MHz	2592.990	BPSK	Full RB	0	-29.62	-30.60	-44.66	-42.53
	2664.990	BPSK	Full RB	0	-20.92	-20.70	-39.39	-48.69
60 MHz	2592.990	BPSK	Full RB	0	-30.22	-27.77	-47.28	-45.62
	2659.980	BPSK	Full RB	0	-20.36	-24.61	-42.62	-48.64
70 MHz	2592.990	BPSK	Full RB	0	-27.42	-28.92	-46.95	-45.81
	2655.000	BPSK	Full RB	0	-21.14	-26.42	-45.69	-48.63
80 MHz	2592.990	BPSK	Full RB	0	-27.44	-26.49	-48.61	-45.84
	2649.990	BPSK	Full RB	0	-23.25	-26.38	-46.80	-48.75
90 MHz	2592.990	BPSK	Full RB	0	-26.04	-27.44	-49.00	-48.63
	2644.980	BPSK	Full RB	0	-22.40	-28.54	-46.10	-48.79
100 MHz	2592.990	BPSK	Full RB	0	-30.76	-30.58	-49.09	-48.74
	2640.000	BPSK	Full RB	0	-23.41	-27.36	-47.60	-48.80
Limit (dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Duty Cycle factor already applied on the factor.
   - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
   - Result(dBm) = Reading + Factor
   - Duty Cycle Factor(dB) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 441 ~ 572. (1RB & Full RB)

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

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

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2501.010	100 %	+20(Ref)	2501 009 998	0.0	0.000 000	0.000
	100 %	-30	2501 009 995	-3.2	0.000 000	-0.001
	100 %	-20	2501 009 994	-4.0	0.000 000	-0.002
	100 %	-10	2501 009 989	-8.4	0.000 000	-0.003
	100 %	0	2501 009 995	-2.7	0.000 000	-0.001
	100 %	+10	2501 009 994	-3.6	0.000 000	-0.001
	100 %	+30	2501 009 992	-5.6	0.000 000	-0.002
	100 %	+40	2501 009 997	-0.3	0.000 000	0.000
	100 %	+50	2501 009 995	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	2501 009 994	-3.8	0.000 000	-0.002
2505.000	100 %	+20(Ref)	2504 999 997	0.0	0.000 000	0.000
	100 %	-30	2504 999 990	-6.8	0.000 000	-0.003
	100 %	-20	2504 999 989	-7.8	0.000 000	-0.003
	100 %	-10	2504 999 992	-5.1	0.000 000	-0.002
	100 %	0	2504 999 989	-7.5	0.000 000	-0.003
	100 %	+10	2504 999 993	-4.1	0.000 000	-0.002
	100 %	+30	2504 999 990	-6.6	0.000 000	-0.003
	100 %	+40	2504 999 993	-3.9	0.000 000	-0.002
	100 %	+50	2504 999 992	-4.8	0.000 000	-0.002
	Batt. Endpoint	+20	2504 999 993	-3.9	0.000 000	-0.002
2685.000	100 %	+20(Ref)	2684 999 994	0.0	0.000 000	0.000
	100 %	-30	2684 999 987	-7.6	0.000 000	-0.003
	100 %	-20	2684 999 985	-9.3	0.000 000	-0.003
	100 %	-10	2684 999 989	-5.0	0.000 000	-0.002
	100 %	0	2684 999 988	-6.6	0.000 000	-0.002
	100 %	+10	2684 999 988	-6.9	0.000 000	-0.003
	100 %	+30	2684 999 986	-8.9	0.000 000	-0.003
	100 %	+40	2684 999 990	-5.0	0.000 000	-0.002
	100 %	+50	2684 999 983	-11.4	0.000 000	-0.004
	Batt. Endpoint	+20	2684 999 987	-7.5	0.000 000	-0.003

▣ BandWidth: 15 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2503.500	100 %	+20(Ref)	2503 499 997	0.0	0.000 000	0.000
	100 %	-30	2503 499 994	-3.1	0.000 000	-0.001
	100 %	-20	2503 499 993	-4.1	0.000 000	-0.002
	100 %	-10	2503 499 993	-3.8	0.000 000	-0.002
	100 %	0	2503 499 994	-2.9	0.000 000	-0.001
	100 %	+10	2503 499 993	-4.2	0.000 000	-0.002
	100 %	+30	2503 499 995	-2.0	0.000 000	-0.001
	100 %	+40	2503 499 995	-2.4	0.000 000	-0.001
	100 %	+50	2503 499 993	-4.0	0.000 000	-0.002
	Batt. Endpoint	+20	2503 499 989	-8.5	0.000 000	-0.003
2507.520	100 %	+20(Ref)	2507 519 996	0.0	0.000 000	0.000
	100 %	-30	2507 519 995	-1.4	0.000 000	-0.001
	100 %	-20	2507 519 992	-4.5	0.000 000	-0.002
	100 %	-10	2507 519 993	-3.6	0.000 000	-0.001
	100 %	0	2507 519 993	-3.4	0.000 000	-0.001
	100 %	+10	2507 519 991	-5.8	0.000 000	-0.002
	100 %	+30	2507 519 990	-6.3	0.000 000	-0.003
	100 %	+40	2507 519 993	-2.9	0.000 000	-0.001
	100 %	+50	2507 519 995	-1.6	0.000 000	-0.001
	Batt. Endpoint	+20	2507 519 998	1.2	0.000 000	0.000
2682.480	100 %	+20(Ref)	2682 479 994	0.0	0.000 000	0.000
	100 %	-30	2682 479 988	-5.3	0.000 000	-0.002
	100 %	-20	2682 479 985	-9.0	0.000 000	-0.003
	100 %	-10	2682 479 985	-8.4	0.000 000	-0.003
	100 %	0	2682 479 986	-7.3	0.000 000	-0.003
	100 %	+10	2682 479 986	-7.7	0.000 000	-0.003
	100 %	+30	2682 479 987	-6.6	0.000 000	-0.002
	100 %	+40	2682 479 987	-6.8	0.000 000	-0.003
	100 %	+50	2682 479 986	-7.6	0.000 000	-0.003
	Batt. Endpoint	+20	2682 479 984	-10.1	0.000 000	-0.004

▣ BandWidth: 20 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2506.020	100 %	+20(Ref)	2506 019 994	0.0	0.000 000	0.000
	100 %	-30	2506 019 988	-5.1	0.000 000	-0.002
	100 %	-20	2506 019 989	-4.6	0.000 000	-0.002
	100 %	-10	2506 019 990	-3.2	0.000 000	-0.001
	100 %	0	2506 019 991	-2.8	0.000 000	-0.001
	100 %	+10	2506 019 993	-0.8	0.000 000	0.000
	100 %	+30	2506 019 988	-5.3	0.000 000	-0.002
	100 %	+40	2506 019 989	-4.2	0.000 000	-0.002
	100 %	+50	2506 019 990	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	2506 019 990	-4.1	0.000 000	-0.002
2510.010	100 %	+20(Ref)	2510 009 996	0.0	0.000 000	0.000
	100 %	-30	2510 009 991	-5.5	0.000 000	-0.002
	100 %	-20	2510 009 992	-3.9	0.000 000	-0.002
	100 %	-10	2510 009 991	-5.1	0.000 000	-0.002
	100 %	0	2510 009 994	-2.7	0.000 000	-0.001
	100 %	+10	2510 009 995	-1.2	0.000 000	0.000
	100 %	+30	2510 009 993	-3.3	0.000 000	-0.001
	100 %	+40	2510 009 996	0.2	0.000 000	0.000
	100 %	+50	2510 009 992	-4.4	0.000 000	-0.002
	Batt. Endpoint	+20	2510 009 993	-3.6	0.000 000	-0.001
2679.990	100 %	+20(Ref)	2679 989 993	0.0	0.000 000	0.000
	100 %	-30	2679 989 983	-10.2	0.000 000	-0.004
	100 %	-20	2679 989 984	-9.3	0.000 000	-0.003
	100 %	-10	2679 989 985	-8.3	0.000 000	-0.003
	100 %	0	2679 989 986	-6.9	0.000 000	-0.003
	100 %	+10	2679 989 984	-8.9	0.000 000	-0.003
	100 %	+30	2679 989 983	-9.7	0.000 000	-0.004
	100 %	+40	2679 989 991	-2.2	0.000 000	-0.001
	100 %	+50	2679 989 985	-7.4	0.000 000	-0.003
	Batt. Endpoint	+20	2679 989 988	-4.5	0.000 000	-0.002

▣ BandWidth: 25 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2508.510	100 %	+20(Ref)	2508 509 993	0.0	0.000 000	0.000
	100 %	-30	2508 509 992	-0.5	0.000 000	0.000
	100 %	-20	2508 509 989	-4.2	0.000 000	-0.002
	100 %	-10	2508 509 989	-4.2	0.000 000	-0.002
	100 %	0	2508 509 989	-4.1	0.000 000	-0.002
	100 %	+10	2508 509 988	-4.7	0.000 000	-0.002
	100 %	+30	2508 509 990	-3.0	0.000 000	-0.001
	100 %	+40	2508 509 993	0.0	0.000 000	0.000
	100 %	+50	2508 509 990	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	2508 509 988	-4.4	0.000 000	-0.002
2512.500	100 %	+20(Ref)	2512 499 995	0.0	0.000 000	0.000
	100 %	-30	2512 499 990	-5.3	0.000 000	-0.002
	100 %	-20	2512 499 991	-4.3	0.000 000	-0.002
	100 %	-10	2512 499 992	-3.9	0.000 000	-0.002
	100 %	0	2512 499 993	-2.3	0.000 000	-0.001
	100 %	+10	2512 499 990	-5.8	0.000 000	-0.002
	100 %	+30	2512 499 991	-4.8	0.000 000	-0.002
	100 %	+40	2512 499 992	-3.7	0.000 000	-0.001
	100 %	+50	2512 499 993	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	2512 499 988	-7.8	0.000 000	-0.003
2677.500	100 %	+20(Ref)	2677 499 993	0.0	0.000 000	0.000
	100 %	-30	2677 499 984	-9.0	0.000 000	-0.003
	100 %	-20	2677 499 981	-11.6	0.000 000	-0.004
	100 %	-10	2677 499 986	-6.4	0.000 000	-0.002
	100 %	0	2677 499 984	-8.9	0.000 000	-0.003
	100 %	+10	2677 499 988	-4.7	0.000 000	-0.002
	100 %	+30	2677 499 985	-7.7	0.000 000	-0.003
	100 %	+40	2677 499 985	-7.3	0.000 000	-0.003
	100 %	+50	2677 499 984	-8.9	0.000 000	-0.003
	Batt. Endpoint	+20	2677 499 989	-4.0	0.000 000	-0.001

▣ BandWidth: 30 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(℃)	(Hz)	(Hz)	(%)	
2511.000	100 %	+20(Ref)	2510 999 994	0.0	0.000 000	0.000
	100 %	-30	2510 999 991	-3.1	0.000 000	-0.001
	100 %	-20	2510 999 989	-5.1	0.000 000	-0.002
	100 %	-10	2510 999 990	-4.0	0.000 000	-0.002
	100 %	0	2510 999 993	-1.2	0.000 000	0.000
	100 %	+10	2510 999 989	-5.4	0.000 000	-0.002
	100 %	+30	2510 999 994	0.2	0.000 000	0.000
	100 %	+40	2510 999 991	-3.2	0.000 000	-0.001
	100 %	+50	2510 999 988	-5.7	0.000 000	-0.002
	Batt. Endpoint	+20	2510 999 990	-4.3	0.000 000	-0.002
2515.000	100 %	+20(Ref)	2514 999 998	0.0	0.000 000	0.000
	100 %	-30	2514 999 996	-2.4	0.000 000	-0.001
	100 %	-20	2514 999 994	-3.9	0.000 000	-0.002
	100 %	-10	2514 999 994	-4.0	0.000 000	-0.002
	100 %	0	2514 999 994	-4.1	0.000 000	-0.002
	100 %	+10	2514 999 996	-2.2	0.000 000	-0.001
	100 %	+30	2514 999 993	-5.1	0.000 000	-0.002
	100 %	+40	2514 999 995	-3.0	0.000 000	-0.001
	100 %	+50	2514 999 996	-2.5	0.000 000	-0.001
	Batt. Endpoint	+20	2514 999 997	-1.3	0.000 000	-0.001
2674.980	100 %	+20(Ref)	2674 979 994	0.0	0.000 000	0.000
	100 %	-30	2674 979 989	-4.8	0.000 000	-0.002
	100 %	-20	2674 979 990	-3.9	0.000 000	-0.001
	100 %	-10	2674 979 989	-5.3	0.000 000	-0.002
	100 %	0	2674 979 987	-6.7	0.000 000	-0.003
	100 %	+10	2674 979 986	-8.3	0.000 000	-0.003
	100 %	+30	2674 979 987	-7.3	0.000 000	-0.003
	100 %	+40	2674 979 987	-7.1	0.000 000	-0.003
	100 %	+50	2674 979 988	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	2674 979 985	-9.2	0.000 000	-0.003

▣ 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2516.010	100 %	+20(Ref)	2516 009 996	0.0	0.000 000	0.000
	100 %	-30	2516 009 993	-3.3	0.000 000	-0.001
	100 %	-20	2516 009 993	-3.2	0.000 000	-0.001
	100 %	-10	2516 009 990	-6.1	0.000 000	-0.002
	100 %	0	2516 009 994	-2.4	0.000 000	-0.001
	100 %	+10	2516 009 989	-7.9	0.000 000	-0.003
	100 %	+30	2516 009 994	-2.2	0.000 000	-0.001
	100 %	+40	2516 009 995	-1.9	0.000 000	-0.001
	100 %	+50	2516 009 993	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	2516 009 990	-6.6	0.000 000	-0.003
2520.000	100 %	+20(Ref)	2519 999 998	0.0	0.000 000	0.000
	100 %	-30	2519 999 993	-4.6	0.000 000	-0.002
	100 %	-20	2519 999 994	-3.4	0.000 000	-0.001
	100 %	-10	2519 999 992	-5.5	0.000 000	-0.002
	100 %	0	2519 999 994	-3.7	0.000 000	-0.001
	100 %	+10	2519 999 994	-4.1	0.000 000	-0.002
	100 %	+30	2519 999 993	-5.1	0.000 000	-0.002
	100 %	+40	2519 999 994	-3.8	0.000 000	-0.002
	100 %	+50	2519 999 996	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	2519 999 995	-2.4	0.000 000	-0.001
2670.000	100 %	+20(Ref)	2669 999 994	0.0	0.000 000	0.000
	100 %	-30	2669 999 987	-6.9	0.000 000	-0.003
	100 %	-20	2669 999 988	-5.6	0.000 000	-0.002
	100 %	-10	2669 999 986	-8.1	0.000 000	-0.003
	100 %	0	2669 999 988	-5.9	0.000 000	-0.002
	100 %	+10	2669 999 984	-9.5	0.000 000	-0.004
	100 %	+30	2669 999 989	-4.6	0.000 000	-0.002
	100 %	+40	2669 999 990	-3.3	0.000 000	-0.001
	100 %	+50	2669 999 989	-5.2	0.000 000	-0.002
	Batt. Endpoint	+20	2669 999 988	-5.3	0.000 000	-0.002

▣ BandWidth: 50 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2521.020	100 %	+20(Ref)	2521 020 000	0.0	0.000 000	0.000
	100 %	-30	2521 019 994	-5.2	0.000 000	-0.002
	100 %	-20	2521 019 997	-2.8	0.000 000	-0.001
	100 %	-10	2521 019 996	-4.0	0.000 000	-0.002
	100 %	0	2521 019 997	-2.1	0.000 000	-0.001
	100 %	+10	2521 020 000	0.8	0.000 000	0.000
	100 %	+30	2521 019 997	-2.5	0.000 000	-0.001
	100 %	+40	2521 019 998	-1.5	0.000 000	-0.001
	100 %	+50	2521 019 995	-4.8	0.000 000	-0.002
	Batt. Endpoint	+20	2521 019 999	-0.1	0.000 000	0.000
2525.010	100 %	+20(Ref)	2525 009 997	0.0	0.000 000	0.000
	100 %	-30	2525 009 996	-1.4	0.000 000	-0.001
	100 %	-20	2525 009 999	1.1	0.000 000	0.000
	100 %	-10	2525 009 993	-4.5	0.000 000	-0.002
	100 %	0	2525 009 993	-4.9	0.000 000	-0.002
	100 %	+10	2525 009 995	-2.3	0.000 000	-0.001
	100 %	+30	2525 009 994	-3.8	0.000 000	-0.002
	100 %	+40	2525 009 994	-3.7	0.000 000	-0.001
	100 %	+50	2525 009 994	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	2525 009 995	-2.7	0.000 000	-0.001
2664.990	100 %	+20(Ref)	2664 989 992	0.0	0.000 000	0.000
	100 %	-30	2664 989 984	-8.8	0.000 000	-0.003
	100 %	-20	2664 989 988	-4.8	0.000 000	-0.002
	100 %	-10	2664 989 982	-10.5	0.000 000	-0.004
	100 %	0	2664 989 986	-6.2	0.000 000	-0.002
	100 %	+10	2664 989 988	-4.9	0.000 000	-0.002
	100 %	+30	2664 989 985	-7.6	0.000 000	-0.003
	100 %	+40	2664 989 986	-6.5	0.000 000	-0.002
	100 %	+50	2664 989 983	-9.4	0.000 000	-0.004
	Batt. Endpoint	+20	2664 989 987	-5.9	0.000 000	-0.002

▣ BandWidth: 60 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2526.000	100 %	+20(Ref)	2525 999 992	0.0	0.000 000	0.000
	100 %	-30	2525 999 989	-3.4	0.000 000	-0.001
	100 %	-20	2525 999 992	-0.6	0.000 000	0.000
	100 %	-10	2525 999 988	-4.8	0.000 000	-0.002
	100 %	0	2525 999 987	-5.5	0.000 000	-0.002
	100 %	+10	2525 999 991	-0.8	0.000 000	0.000
	100 %	+30	2525 999 988	-4.2	0.000 000	-0.002
	100 %	+40	2525 999 989	-3.0	0.000 000	-0.001
	100 %	+50	2525 999 990	-2.5	0.000 000	-0.001
	Batt. Endpoint	+20	2525 999 992	-0.2	0.000 000	0.000
2530.020	100 %	+20(Ref)	2530 020 000	0.0	0.000 000	0.000
	100 %	-30	2530 020 001	0.5	0.000 000	0.000
	100 %	-20	2530 020 000	-0.3	0.000 000	0.000
	100 %	-10	2530 020 003	2.3	0.000 000	0.001
	100 %	0	2530 020 000	-0.1	0.000 000	0.000
	100 %	+10	2530 020 003	2.5	0.000 000	0.001
	100 %	+30	2530 020 000	-0.8	0.000 000	0.000
	100 %	+40	2530 019 999	-1.4	0.000 000	-0.001
	100 %	+50	2530 019 998	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	2530 019 999	-1.7	0.000 000	-0.001
2659.980	100 %	+20(Ref)	2659 979 993	0.0	0.000 000	0.000
	100 %	-30	2659 979 984	-8.6	0.000 000	-0.003
	100 %	-20	2659 979 987	-6.2	0.000 000	-0.002
	100 %	-10	2659 979 984	-8.9	0.000 000	-0.003
	100 %	0	2659 979 985	-8.4	0.000 000	-0.003
	100 %	+10	2659 979 986	-6.5	0.000 000	-0.002
	100 %	+30	2659 979 987	-5.7	0.000 000	-0.002
	100 %	+40	2659 979 985	-8.2	0.000 000	-0.003
	100 %	+50	2659 979 985	-7.8	0.000 000	-0.003
	Batt. Endpoint	+20	2659 979 987	-6.2	0.000 000	-0.002

▣ BandWidth: 70 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2531.010	100 %	+20(Ref)	2531 010 000	0.0	0.000 000	0.000
	100 %	-30	2531 009 998	-1.6	0.000 000	-0.001
	100 %	-20	2531 009 998	-1.6	0.000 000	-0.001
	100 %	-10	2531 009 997	-2.5	0.000 000	-0.001
	100 %	0	2531 010 000	-0.2	0.000 000	0.000
	100 %	+10	2531 010 000	-0.2	0.000 000	0.000
	100 %	+30	2531 010 002	2.3	0.000 000	0.001
	100 %	+40	2531 010 000	0.3	0.000 000	0.000
	100 %	+50	2531 010 000	0.3	0.000 000	0.000
	Batt. Endpoint	+20	2531 010 000	-0.4	0.000 000	0.000
2535.000	100 %	+20(Ref)	2534 999 998	0.0	0.000 000	0.000
	100 %	-30	2534 999 993	-5.4	0.000 000	-0.002
	100 %	-20	2534 999 998	-0.3	0.000 000	0.000
	100 %	-10	2535 000 001	2.5	0.000 000	0.001
	100 %	0	2535 000 001	2.5	0.000 000	0.001
	100 %	+10	2534 999 995	-2.8	0.000 000	-0.001
	100 %	+30	2534 999 993	-4.8	0.000 000	-0.002
	100 %	+40	2534 999 994	-4.1	0.000 000	-0.002
	100 %	+50	2534 999 997	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	2534 999 996	-2.1	0.000 000	-0.001
2655.000	100 %	+20(Ref)	2654 999 994	0.0	0.000 000	0.000
	100 %	-30	2654 999 989	-5.3	0.000 000	-0.002
	100 %	-20	2654 999 990	-4.2	0.000 000	-0.002
	100 %	-10	2654 999 991	-3.9	0.000 000	-0.001
	100 %	0	2654 999 994	-0.3	0.000 000	0.000
	100 %	+10	2654 999 994	-0.3	0.000 000	0.000
	100 %	+30	2654 999 987	-7.3	0.000 000	-0.003
	100 %	+40	2654 999 988	-6.2	0.000 000	-0.002
	100 %	+50	2654 999 990	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	2654 999 988	-6.6	0.000 000	-0.002

▣ BandWidth: 80 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2536.020	100 %	+20(Ref)	2536 019 997	0.0	0.000 000	0.000
	100 %	-30	2536 019 993	-3.6	0.000 000	-0.001
	100 %	-20	2536 019 993	-3.8	0.000 000	-0.002
	100 %	-10	2536 019 996	-0.9	0.000 000	0.000
	100 %	0	2536 019 995	-1.9	0.000 000	-0.001
	100 %	+10	2536 019 994	-2.7	0.000 000	-0.001
	100 %	+30	2536 019 991	-5.8	0.000 000	-0.002
	100 %	+40	2536 019 991	-5.8	0.000 000	-0.002
	100 %	+50	2536 019 994	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	2536 019 995	-1.2	0.000 000	0.000
2540.010	100 %	+20(Ref)	2540 009 994	0.0	0.000 000	0.000
	100 %	-30	2540 009 992	-2.7	0.000 000	-0.001
	100 %	-20	2540 009 987	-7.3	0.000 000	-0.003
	100 %	-10	2540 009 990	-4.2	0.000 000	-0.002
	100 %	0	2540 009 992	-2.1	0.000 000	-0.001
	100 %	+10	2540 009 992	-2.4	0.000 000	-0.001
	100 %	+30	2540 009 992	-2.2	0.000 000	-0.001
	100 %	+40	2540 009 989	-5.2	0.000 000	-0.002
	100 %	+50	2540 009 989	-5.2	0.000 000	-0.002
	Batt. Endpoint	+20	2540 009 994	-0.5	0.000 000	0.000
2649.990	100 %	+20(Ref)	2649 989 993	0.0	0.000 000	0.000
	100 %	-30	2649 989 983	-9.6	0.000 000	-0.004
	100 %	-20	2649 989 983	-9.4	0.000 000	-0.004
	100 %	-10	2649 989 985	-7.8	0.000 000	-0.003
	100 %	0	2649 989 985	-7.8	0.000 000	-0.003
	100 %	+10	2649 989 989	-4.1	0.000 000	-0.002
	100 %	+30	2649 989 986	-6.5	0.000 000	-0.002
	100 %	+40	2649 989 984	-8.9	0.000 000	-0.003
	100 %	+50	2649 989 986	-7.2	0.000 000	-0.003
	Batt. Endpoint	+20	2649 989 988	-5.2	0.000 000	-0.002

▣ BandWidth: 90 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)	(%)	(℃)	(Hz)	(Hz)	(%)	
2541.000	100 %	+20(Ref)	2540 999 999	0.0	0.000 000	0.000
	100 %	-30	2540 999 998	-1.0	0.000 000	0.000
	100 %	-20	2540 999 997	-2.4	0.000 000	-0.001
	100 %	-10	2540 999 997	-2.6	0.000 000	-0.001
	100 %	0	2540 999 998	-1.8	0.000 000	-0.001
	100 %	+10	2540 999 998	-1.7	0.000 000	-0.001
	100 %	+30	2540 999 995	-4.2	0.000 000	-0.002
	100 %	+40	2540 999 994	-5.0	0.000 000	-0.002
	100 %	+50	2540 999 995	-4.2	0.000 000	-0.002
	Batt. Endpoint	+20	2540 999 996	-3.4	0.000 000	-0.001
2545.020	100 %	+20(Ref)	2545 020 000	0.0	0.000 000	0.000
	100 %	-30	2545 020 002	1.9	0.000 000	0.001
	100 %	-20	2545 020 004	3.7	0.000 000	0.001
	100 %	-10	2545 020 002	1.9	0.000 000	0.001
	100 %	0	2545 020 000	-0.1	0.000 000	0.000
	100 %	+10	2545 020 000	0.3	0.000 000	0.000
	100 %	+30	2545 020 003	2.6	0.000 000	0.001
	100 %	+40	2545 020 001	1.0	0.000 000	0.000
	100 %	+50	2545 020 000	0.4	0.000 000	0.000
	Batt. Endpoint	+20	2545 020 000	0.0	0.000 000	0.000
2644.980	100 %	+20(Ref)	2644 979 996	0.0	0.000 000	0.000
	100 %	-30	2644 979 992	-3.8	0.000 000	-0.001
	100 %	-20	2644 979 990	-6.5	0.000 000	-0.002
	100 %	-10	2644 979 992	-3.9	0.000 000	-0.001
	100 %	0	2644 979 990	-6.0	0.000 000	-0.002
	100 %	+10	2644 979 991	-5.6	0.000 000	-0.002
	100 %	+30	2644 979 991	-5.5	0.000 000	-0.002
	100 %	+40	2644 979 990	-5.8	0.000 000	-0.002
	100 %	+50	2644 979 990	-5.8	0.000 000	-0.002
	Batt. Endpoint	+20	2644 979 991	-5.1	0.000 000	-0.002

▣ BandWidth: 100 MHz

▣ Voltage(100 %): 3.880 VDC

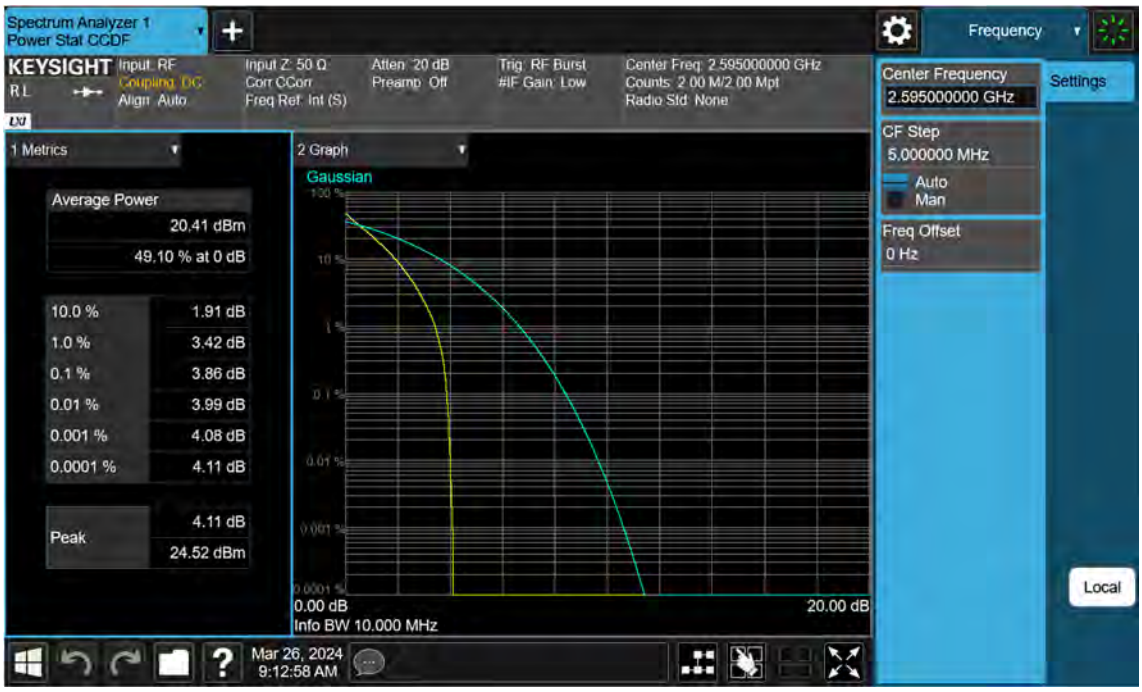
▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

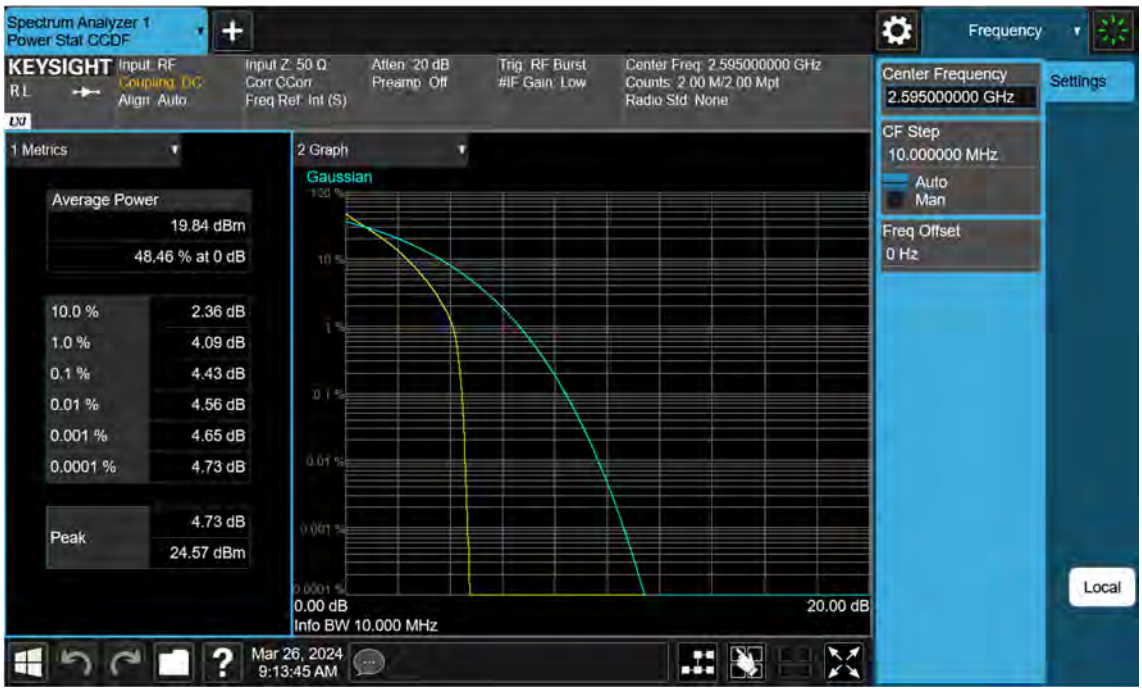
Test. Frequncy	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(℃)	(Hz)	(Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 009 999	0.0	0.000 000	0.000
	100 %	-30	2546 009 995	-3.8	0.000 000	-0.002
	100 %	-20	2546 009 999	-0.2	0.000 000	0.000
	100 %	-10	2546 009 999	-0.2	0.000 000	0.000
	100 %	0	2546 009 998	-0.6	0.000 000	0.000
	100 %	+10	2546 009 998	-0.3	0.000 000	0.000
	100 %	+30	2546 009 995	-4.0	0.000 000	-0.002
	100 %	+40	2546 009 997	-1.9	0.000 000	-0.001
	100 %	+50	2546 009 997	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	2546 009 997	-1.9	0.000 000	-0.001
2550.000	100 %	+20(Ref)	2549 999 997	0.0	0.000 000	0.000
	100 %	-30	2549 999 994	-3.0	0.000 000	-0.001
	100 %	-20	2549 999 996	-1.7	0.000 000	-0.001
	100 %	-10	2549 999 991	-6.5	0.000 000	-0.003
	100 %	0	2549 999 995	-2.3	0.000 000	-0.001
	100 %	+10	2549 999 993	-4.1	0.000 000	-0.002
	100 %	+30	2549 999 992	-5.7	0.000 000	-0.002
	100 %	+40	2549 999 994	-3.4	0.000 000	-0.001
	100 %	+50	2549 999 994	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	2549 999 995	-2.3	0.000 000	-0.001
2640.000	100 %	+20(Ref)	2639 999 995	0.0	0.000 000	0.000
	100 %	-30	2639 999 990	-5.1	0.000 000	-0.002
	100 %	-20	2639 999 990	-5.1	0.000 000	-0.002
	100 %	-10	2639 999 987	-7.8	0.000 000	-0.003
	100 %	0	2639 999 989	-5.7	0.000 000	-0.002
	100 %	+10	2639 999 988	-6.4	0.000 000	-0.002
	100 %	+30	2639 999 989	-6.0	0.000 000	-0.002
	100 %	+40	2639 999 988	-6.7	0.000 000	-0.003
	100 %	+50	2639 999 991	-4.2	0.000 000	-0.002
	Batt. Endpoint	+20	2639 999 990	-4.7	0.000 000	-0.002

10. TEST PLOTS(ANT B)

Sub6 n38_10 M_PAR_Mid_BPSK_FullRB



Sub6 n38_10 M_PAR_Mid_QPSK_FullRB

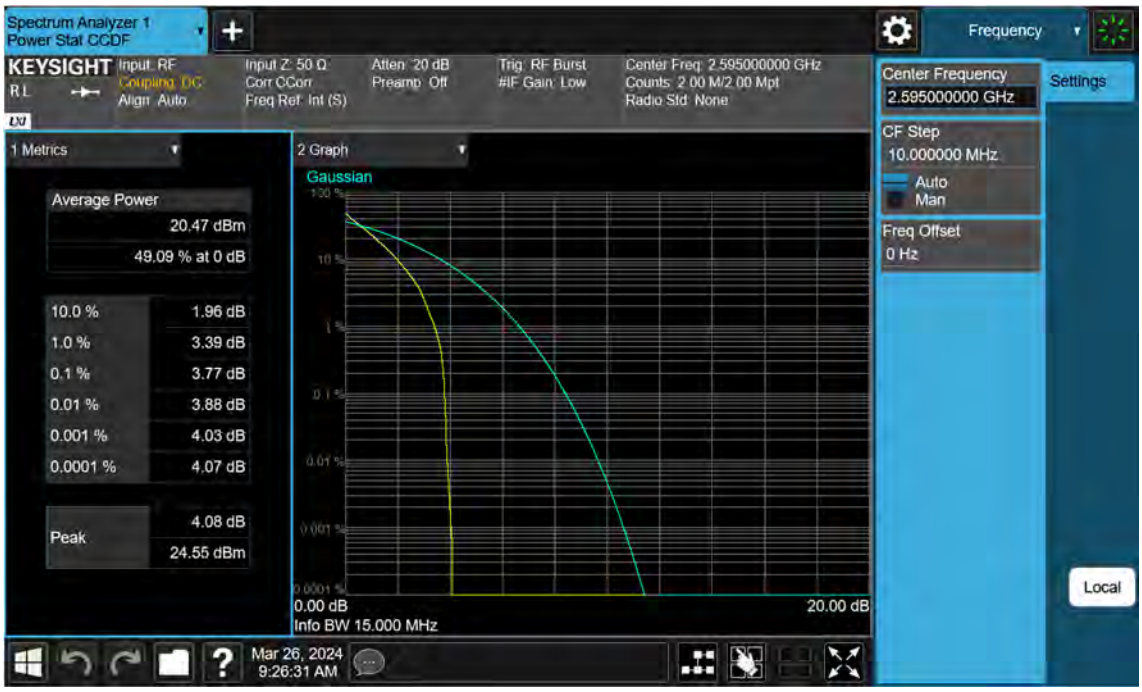


Sub6 n38_10 M_PAR_Mid_16QAM_FullRB

Sub6 n38_10 M_PAR_Mid_64QAM_FullRB

Sub6 n38_10 M_PAR_Mid_256QAM_FullRB

Sub6 n38_15 M_PAR_Mid_BPSK_FullRB



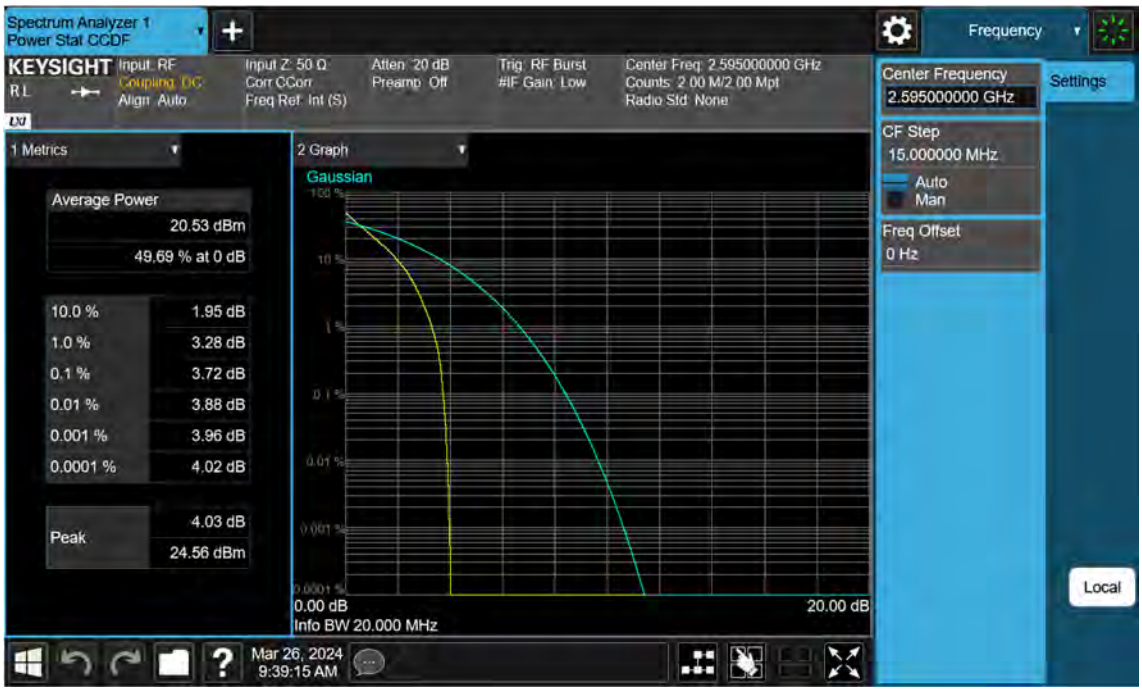
Sub6 n38_15 M_PAR_Mid_QPSK_FullRB

Sub6 n38_15 M_PAR_Mid_16QAM_FullRB

Sub6 n38_15 M_PAR_Mid_64QAM_FullRB

Sub6 n38_15 M_PAR_Mid_256QAM_FullRB

Sub6 n38_20 M_PAR_Mid_BPSK_FullRB



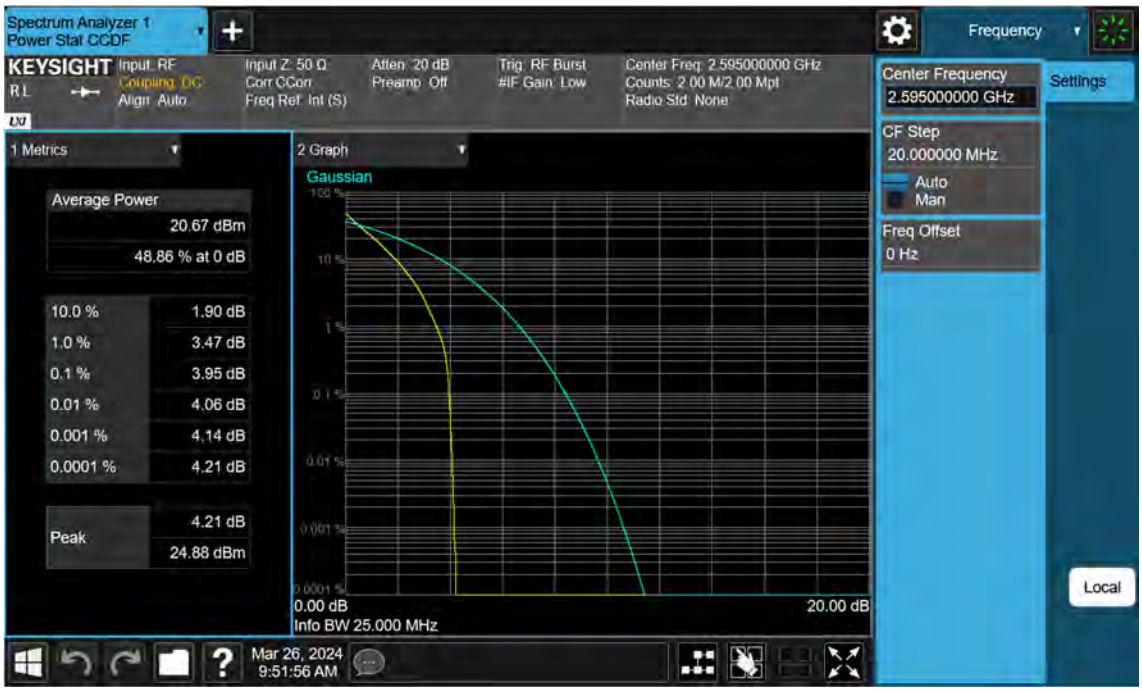
Sub6 n38_20 M_PAR_Mid_QPSK_FullRB

Sub6 n38_20 M_PAR_Mid_16QAM_FullRB

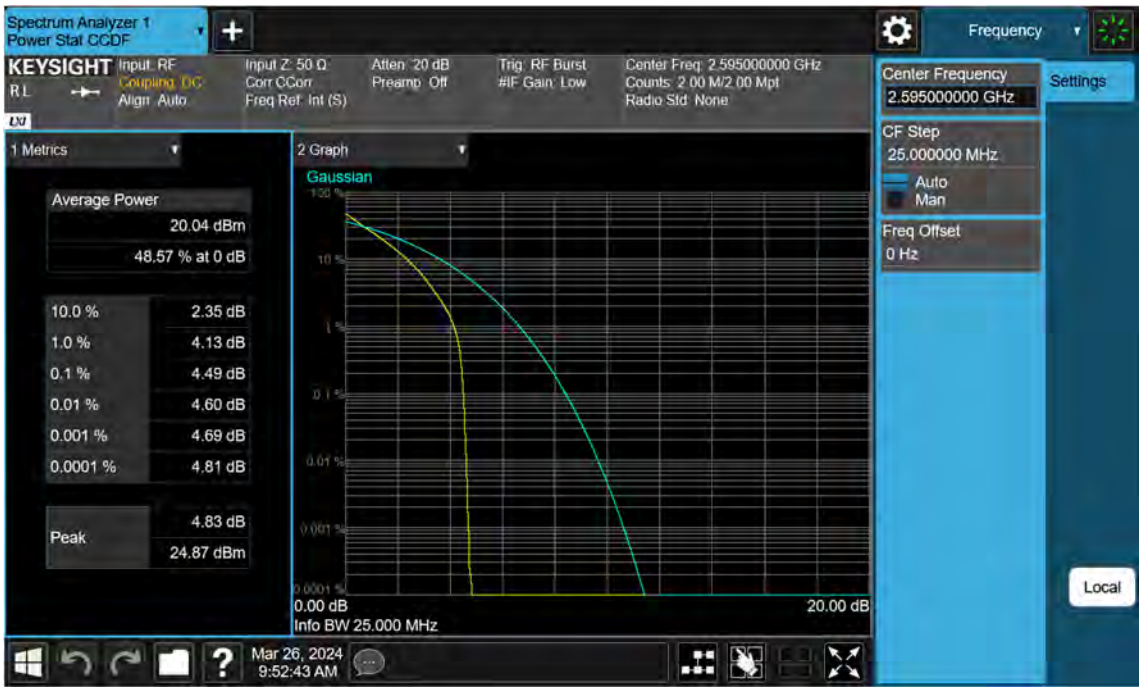
Sub6 n38_20 M_PAR_Mid_64QAM_FullRB

Sub6 n38_20 M_PAR_Mid_256QAM_FullRB

Sub6 n38_25 M_PAR_Mid_BPSK_FullRB



Sub6 n38_25 M_PAR_Mid_QPSK_FullRB

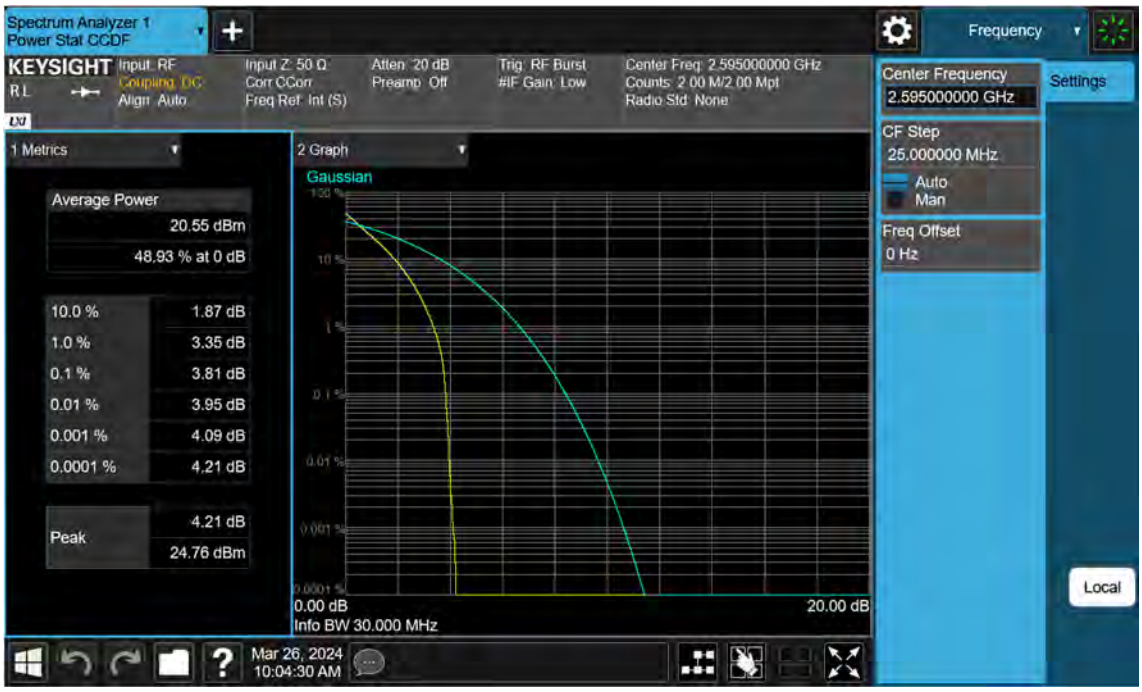


Sub6 n38_25 M_PAR_Mid_16QAM_FullRB

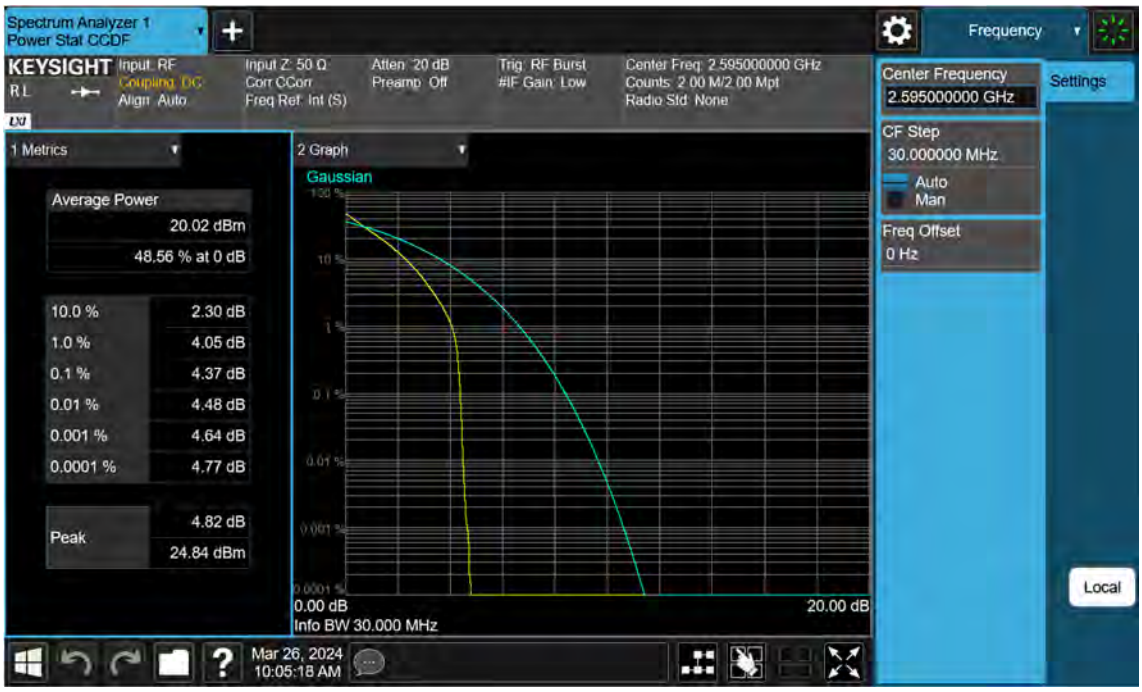
Sub6 n38_25 M_PAR_Mid_64QAM_FullRB

Sub6 n38_25 M_PAR_Mid_256QAM_FullRB

Sub6 n38_30 M_PAR_Mid_BPSK_FullRB



Sub6 n38_30 M_PAR_Mid_QPSK_FullRB

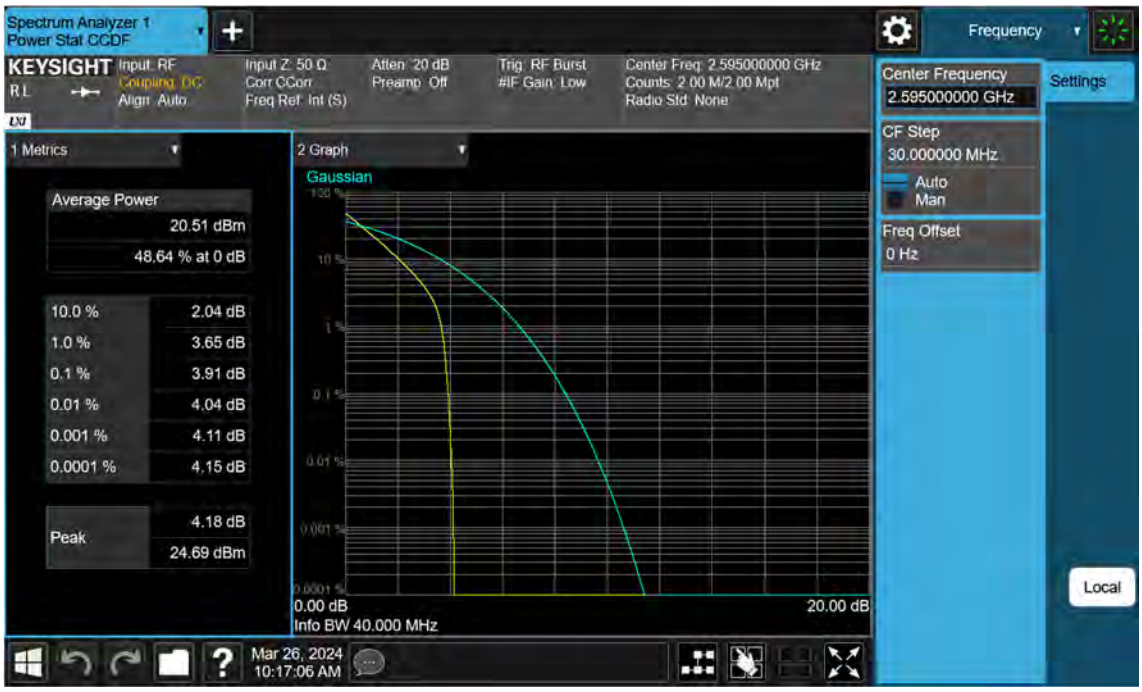


Sub6 n38_30 M_PAR_Mid_16QAM_FullRB

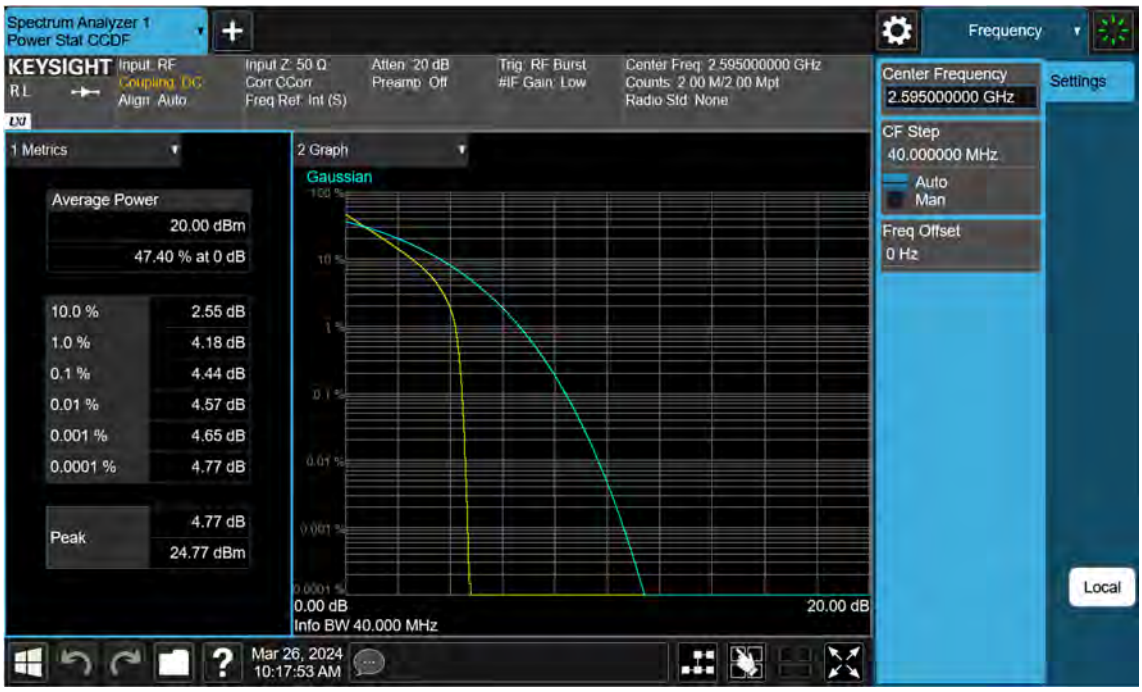
Sub6 n38_30 M_PAR_Mid_64QAM_FullRB

Sub6 n38_30 M_PAR_Mid_256QAM_FullRB

Sub6 n38_40 M_PAR_Mid_BPSK_FullRB



Sub6 n38_40 M_PAR_Mid_QPSK_FullRB



Sub6 n38_40 M_PAR_Mid_16QAM_FullRB

Sub6 n38_40 M_PAR_Mid_64QAM_FullRB

Sub6 n38_40 M_PAR_Mid_256QAM_FullRB

Sub6 n38_10 M_OBW_Mid_BPSK_FullRB

Sub6 n38_10 M_OBW_Mid_QPSK_FullRB

Sub6 n38_10 M_OBW_Mid_16QAM_FullRB

Sub6 n38_10 M_OBW_Mid_64QAM_FullRB

Sub6 n38_10 M_OBW_Mid_256QAM_FullRB

Sub6 n38_15 M_OBW_Mid_BPSK_FullRB

Sub6 n38_15 M_OBW_Mid_QPSK_FullRB

Sub6 n38_15 M_OBW_Mid_16QAM_FullRB

Sub6 n38_15 M_OBW_Mid_64QAM_FullRB

Sub6 n38_15 M_OBW_Mid_256QAM_FullRB

Sub6 n38_20 M_OBW_Mid_BPSK_FullRB

Sub6 n38_20 M_OBW_Mid_QPSK_FullRB

Sub6 n38_20 M_OBW_Mid_16QAM_FullRB

Sub6 n38_20 M_OBW_Mid_64QAM_FullRB

Sub6 n38_20 M_OBW_Mid_256QAM_FullRB

Sub6 n38_25 M_OBW_Mid_BPSK_FullRB

Sub6 n38_25 M_OBW_Mid_QPSK_FullRB

Sub6 n38_25 M_OBW_Mid_16QAM_FullRB

Sub6 n38_25 M_OBW_Mid_64QAM_FullRB

Sub6 n38_25 M_OBW_Mid_256QAM_FullRB

Sub6 n38_30 M_OBW_Mid_BPSK_FullRB

Sub6 n38_30 M_OBW_Mid_QPSK_FullRB

Sub6 n38_30 M_OBW_Mid_16QAM_FullRB

Sub6 n38_30 M_OBW_Mid_64QAM_FullRB

Sub6 n38_30 M_OBW_Mid_256QAM_FullRB

Sub6 n38_40 M_OBW_Mid_BPSK_FullRB

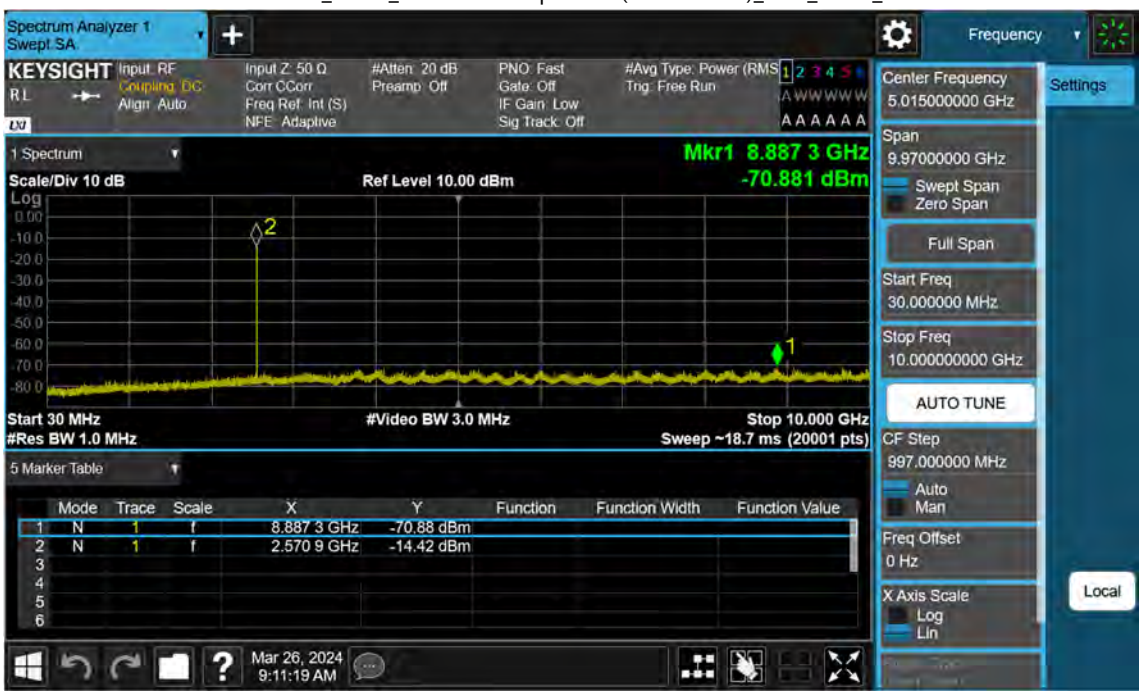
Sub6 n38_40 M_OBW_Mid_QPSK_FullRB

Sub6 n38_40 M_OBW_Mid_16QAM_FullRB

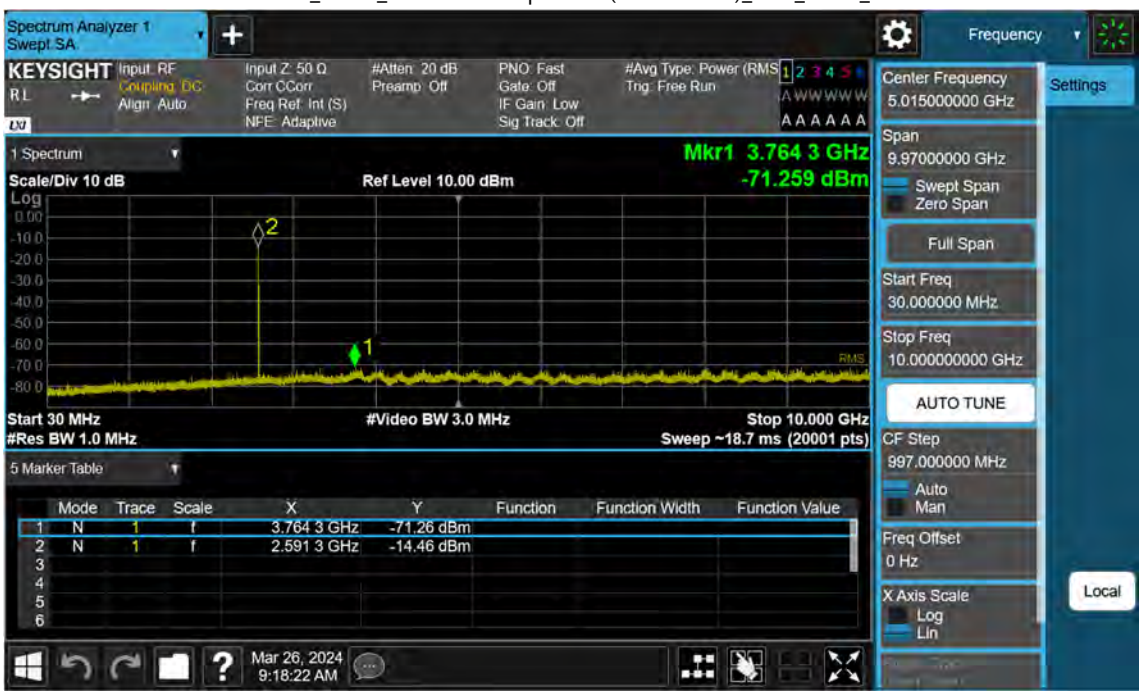
Sub6 n38_40 M_OBW_Mid_64QAM_FullRB

Sub6 n38_40 M_OBW_Mid_256QAM_FullRB

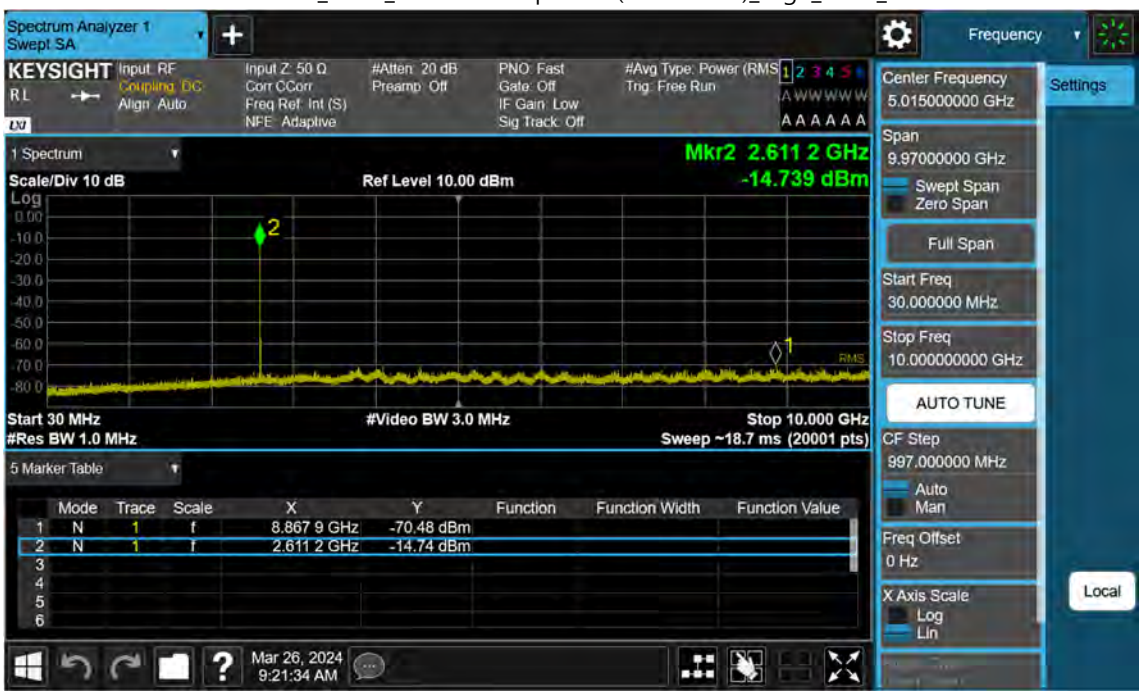
Sub6 n38_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



Sub6 n38_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB

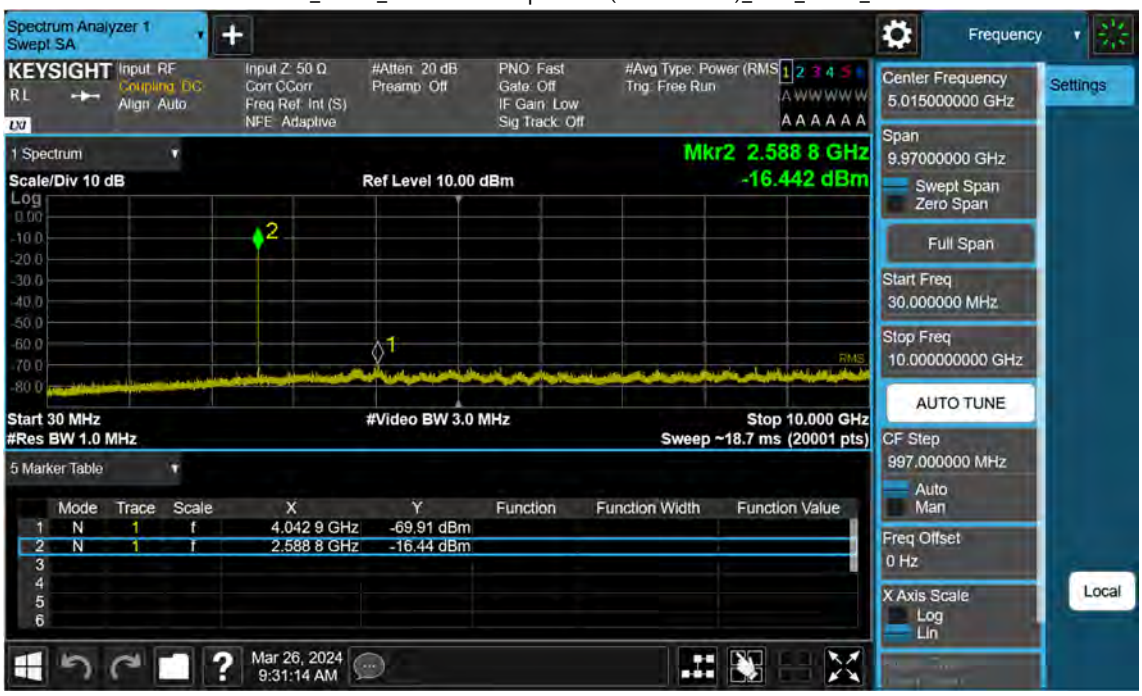


Sub6 n38_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



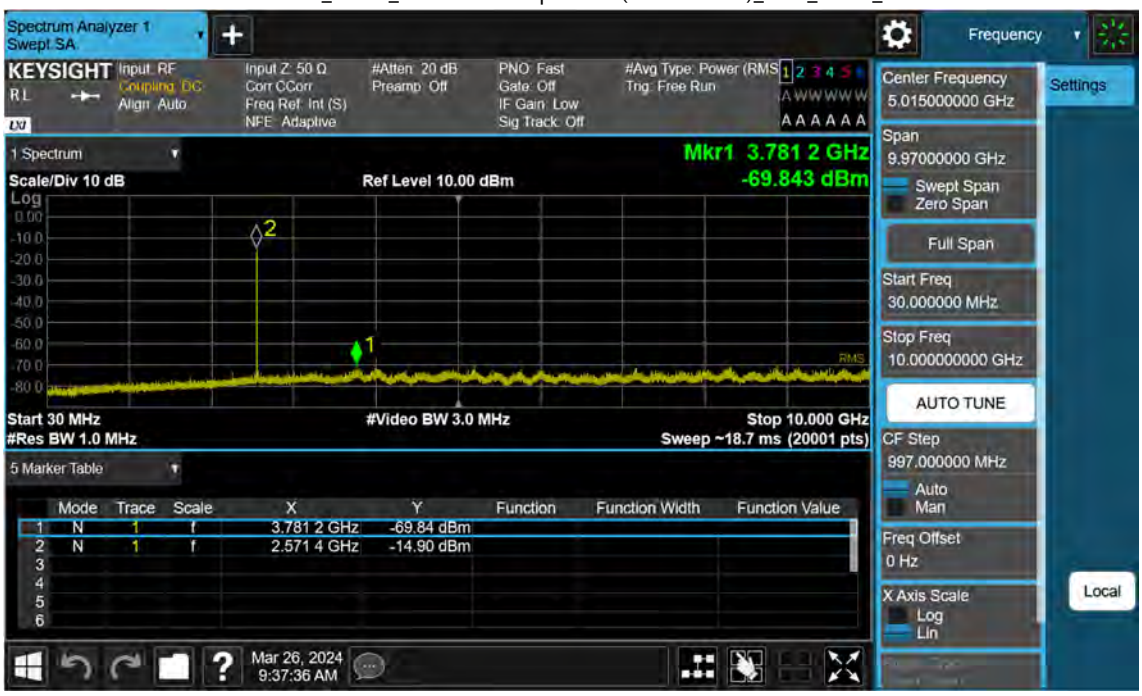
Sub6 n38_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

Sub6 n38_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB

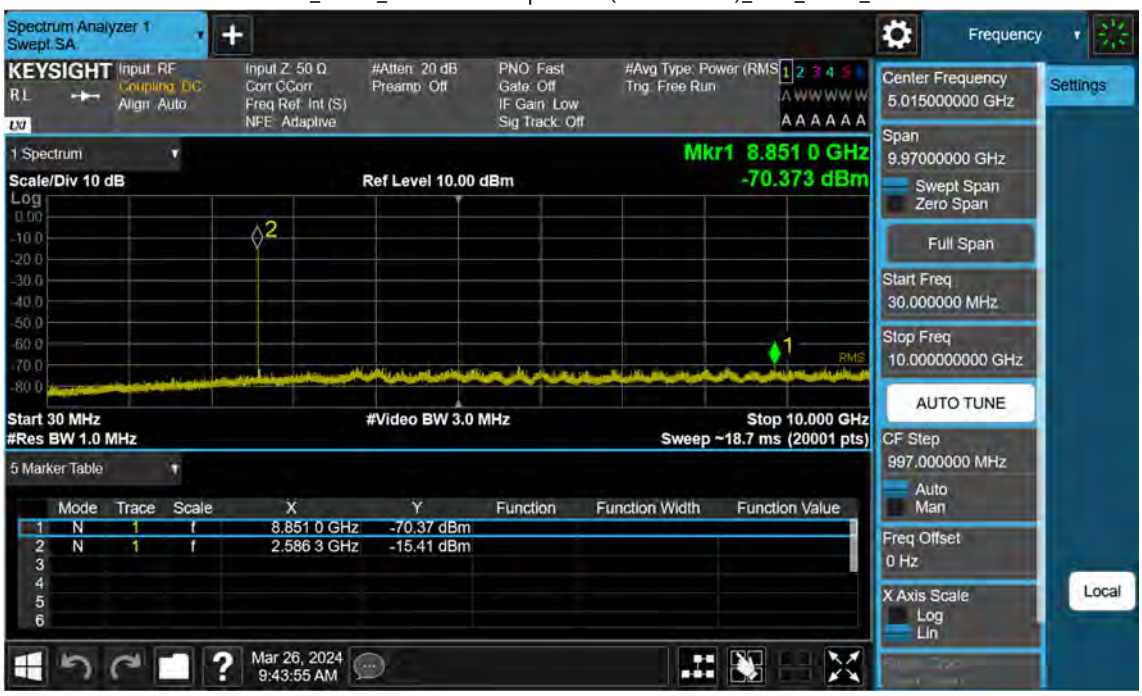


Sub6 n38_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

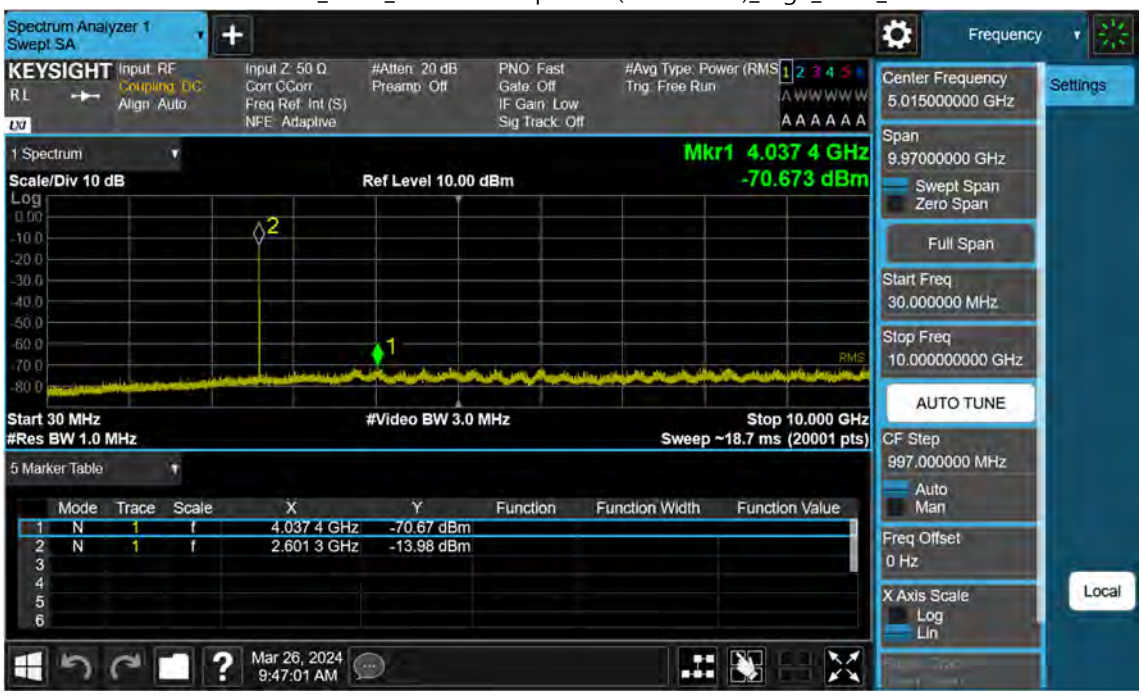
Sub6 n38_20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



Sub6 n38_20 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB

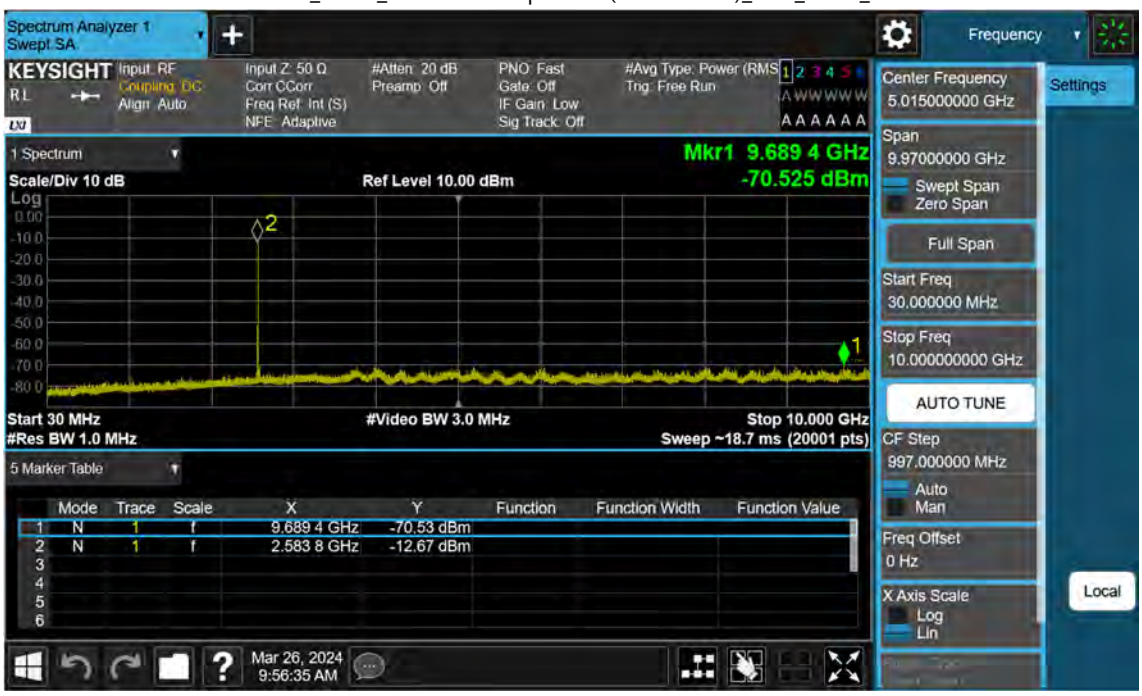


Sub6 n38_20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



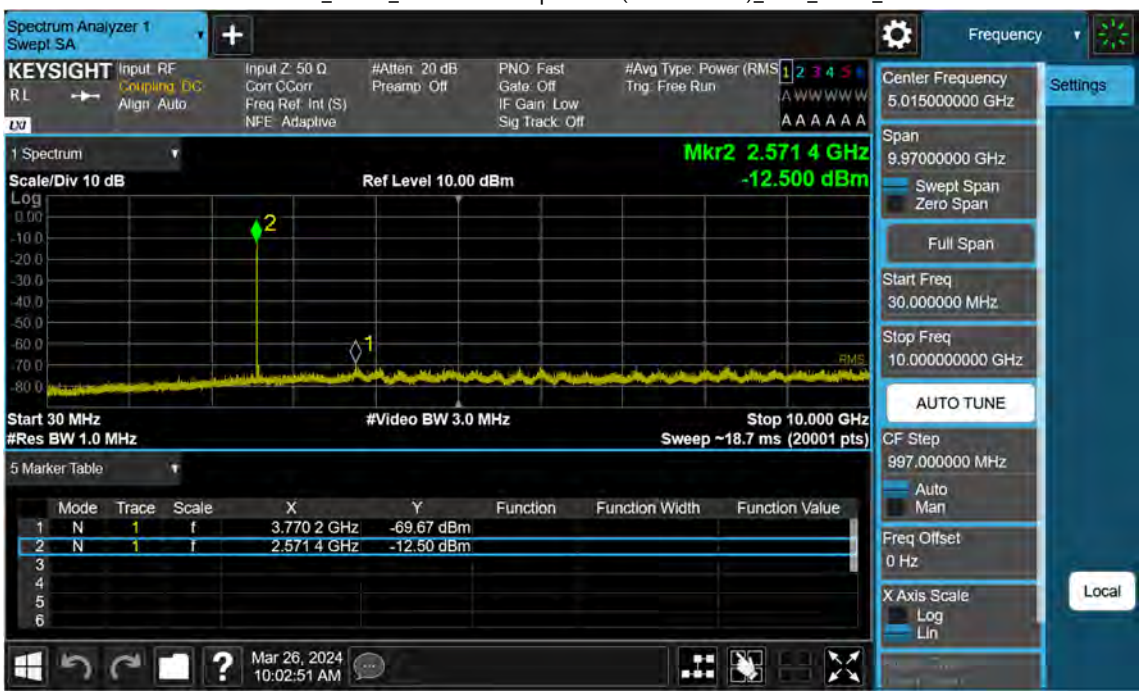
Sub6 n38_25 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

Sub6 n38_25 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB

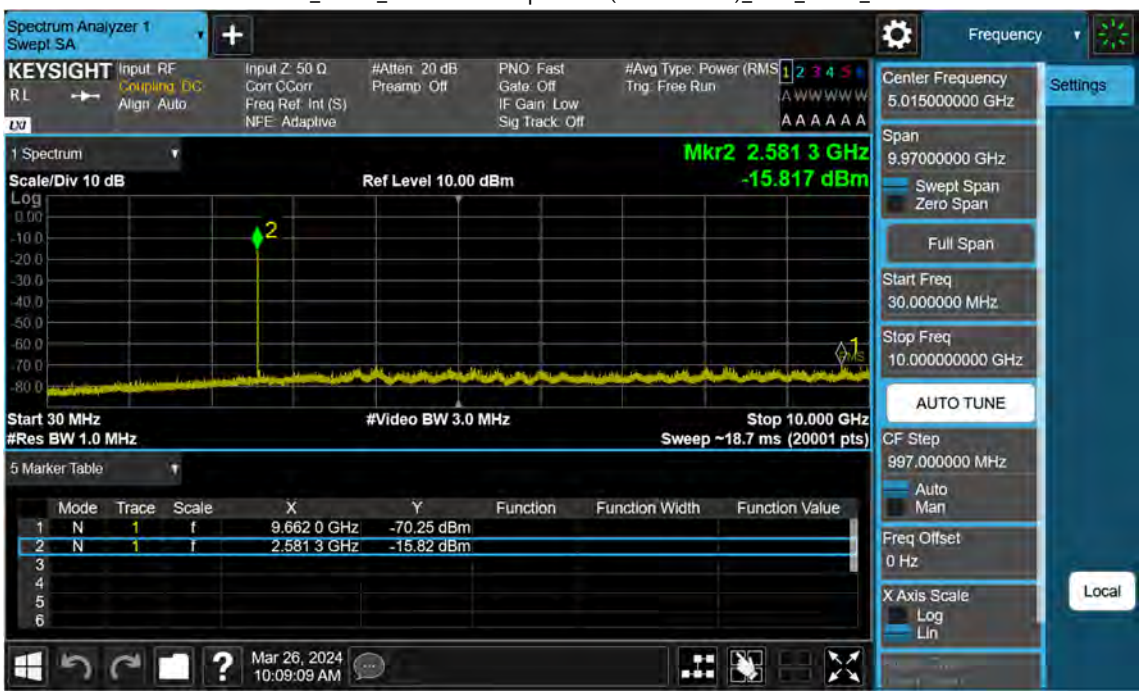


Sub6 n38_25 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

Sub6 n38_30 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

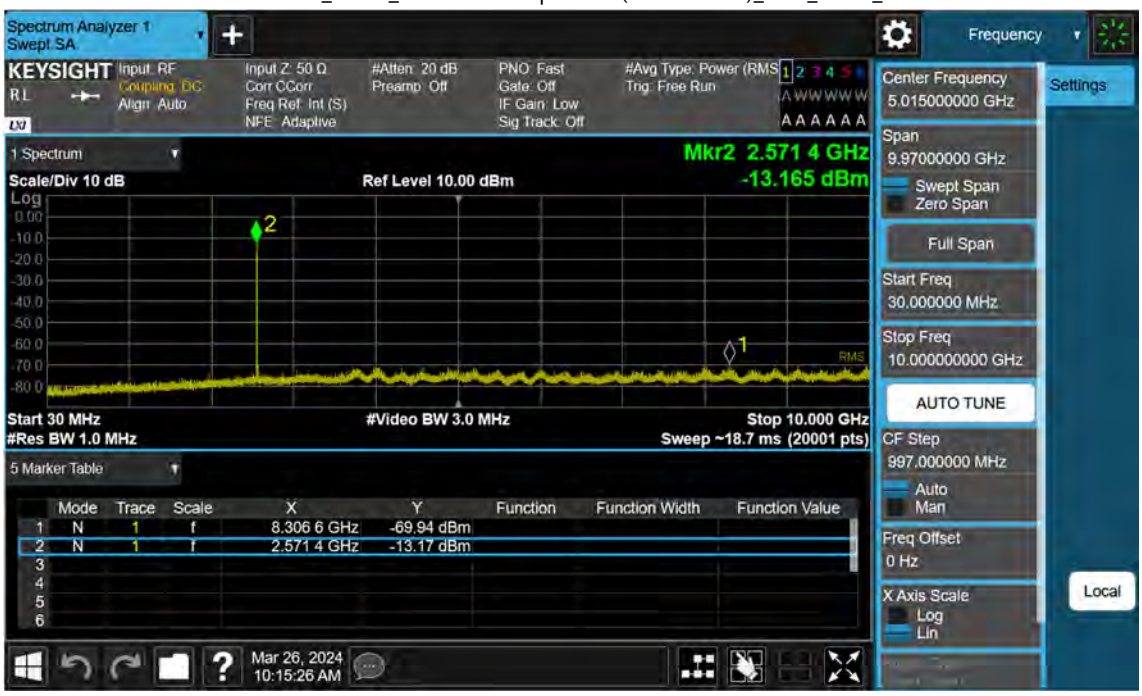


Sub6 n38_30 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



Sub6 n38_30 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

Sub6 n38_40 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

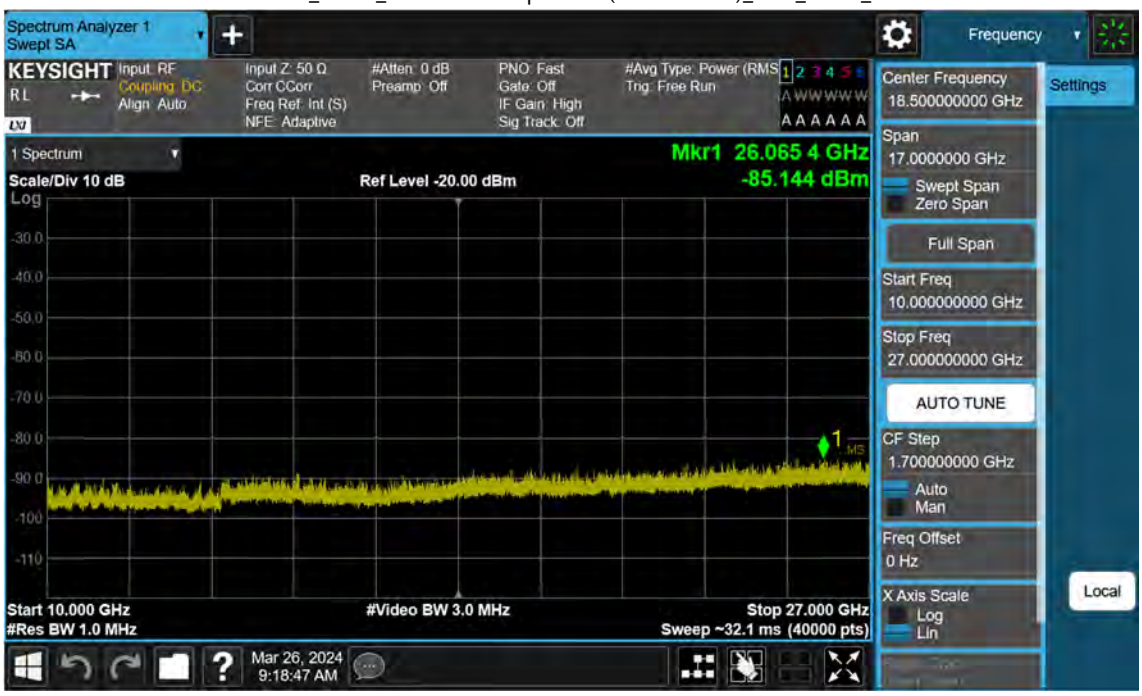


Sub6 n38_40 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB

Sub6 n38_40 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

Sub6 n38_10 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB

Sub6 n38_10 M_Conducted Spurious(Above10 G)_Mid_BPSK_FullRB

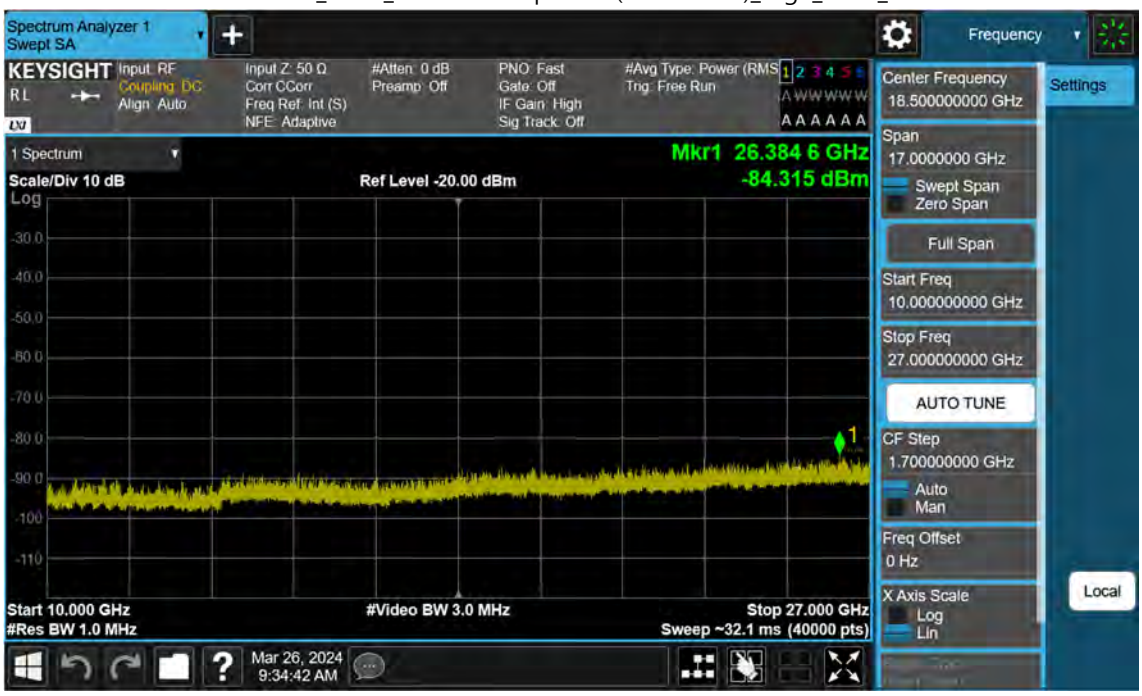


Sub6 n38_10 M_Conducted Spurious(Above10 G)_High_BPSK_1RB

Sub6 n38_15 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB

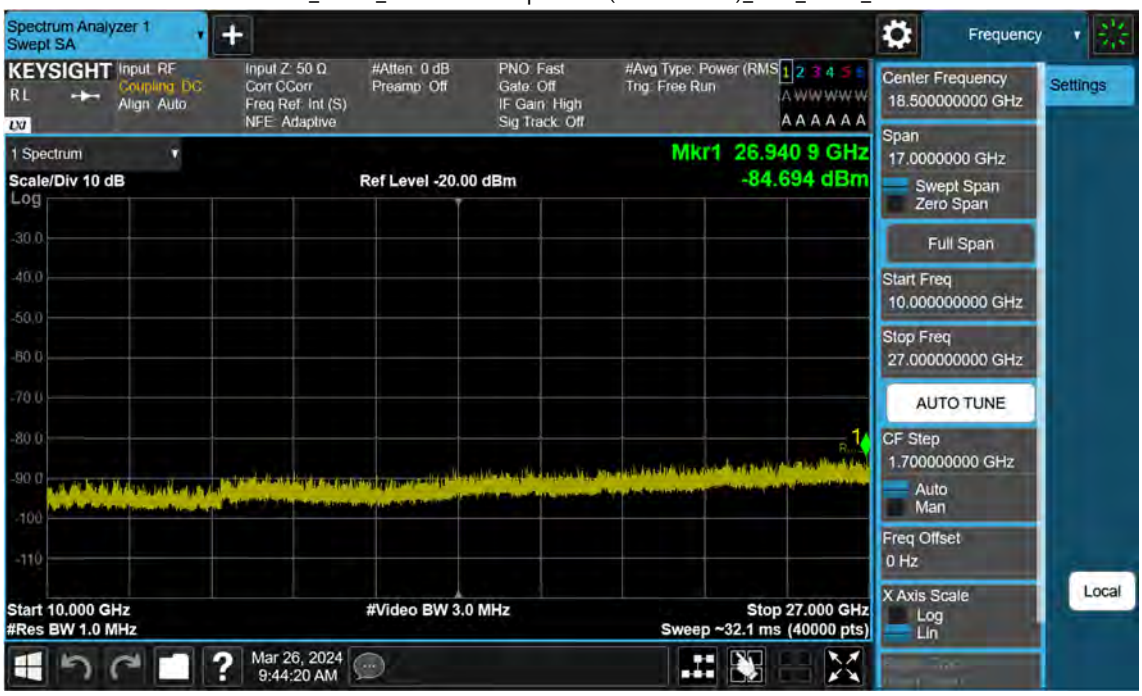
Sub6 n38_15 M_Conducted Spurious(Above10 G)_Mid_BPSK_FullRB

Sub6 n38_15 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



Sub6 n38_20 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB

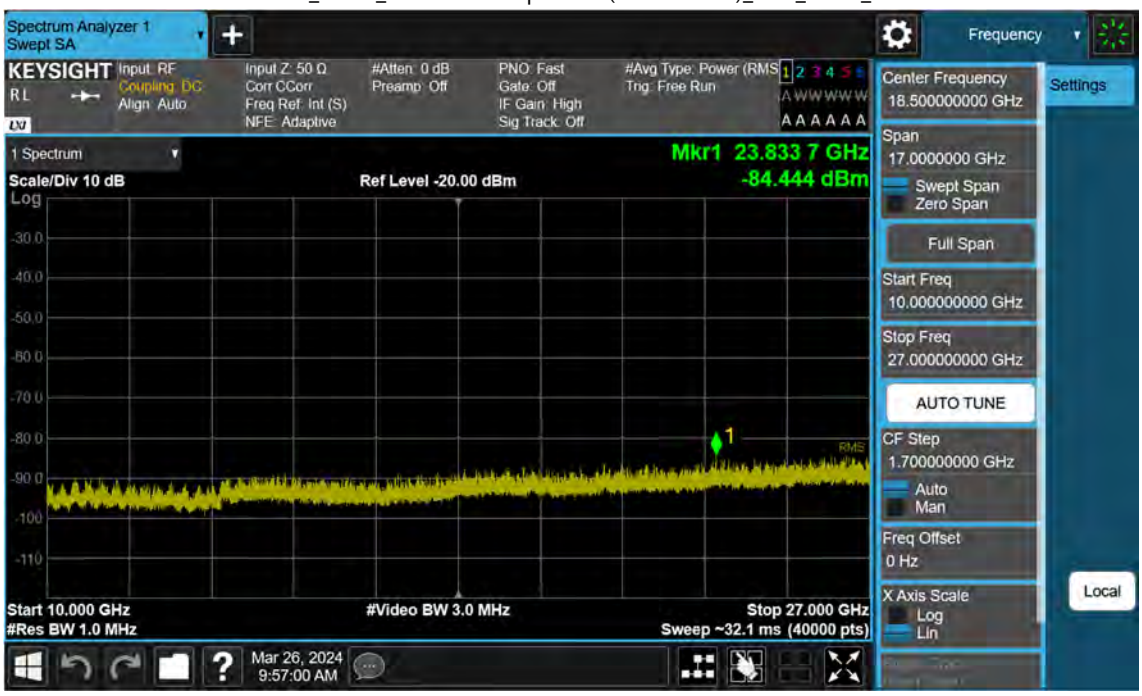
Sub6 n38_20 M_Conducted Spurious(Above10 G)_Mid_BPSK_FullRB



Sub6 n38_20 M_Conducted Spurious(Above10 G)_High_BPSK_1RB

Sub6 n38_25 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB

Sub6 n38_25 M_Conducted Spurious(Above10 G)_Mid_BPSK_FullRB

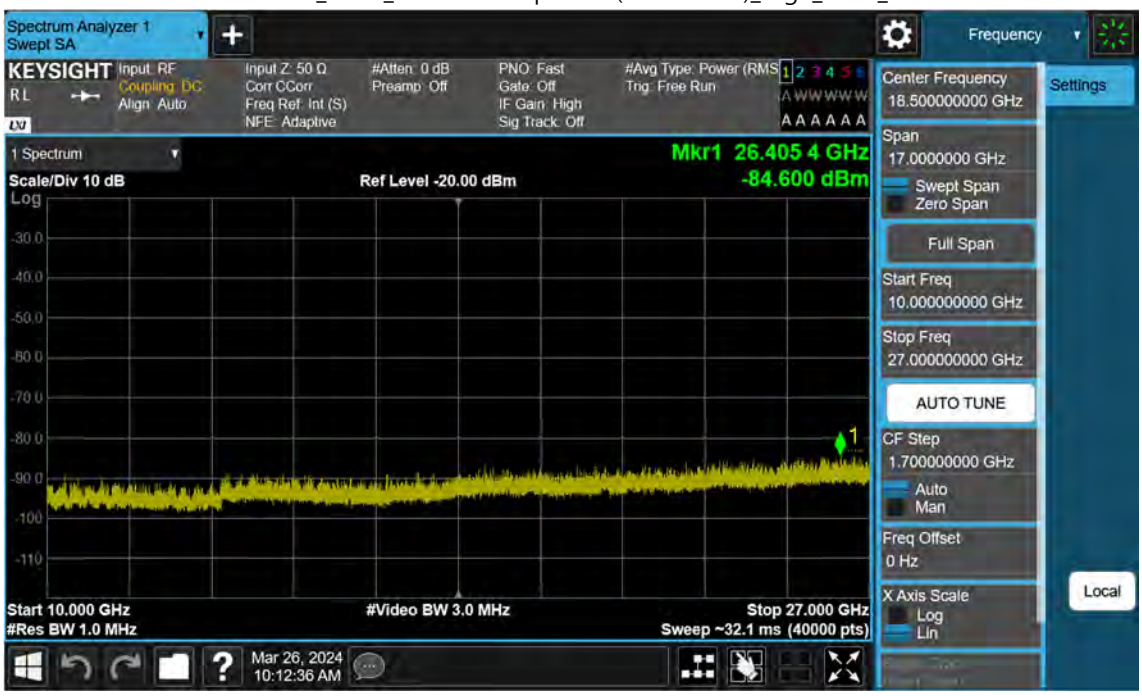


Sub6 n38_25 M_Conducted Spurious(Above10 G)_High_BPSK_1RB

Sub6 n38_30 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB

Sub6 n38_30 M_Conducted Spurious(Above10 G)_Mid_BPSK_FullRB

Sub6 n38_30 M_Conducted Spurious(Above10 G)_High_BPSK_1RB

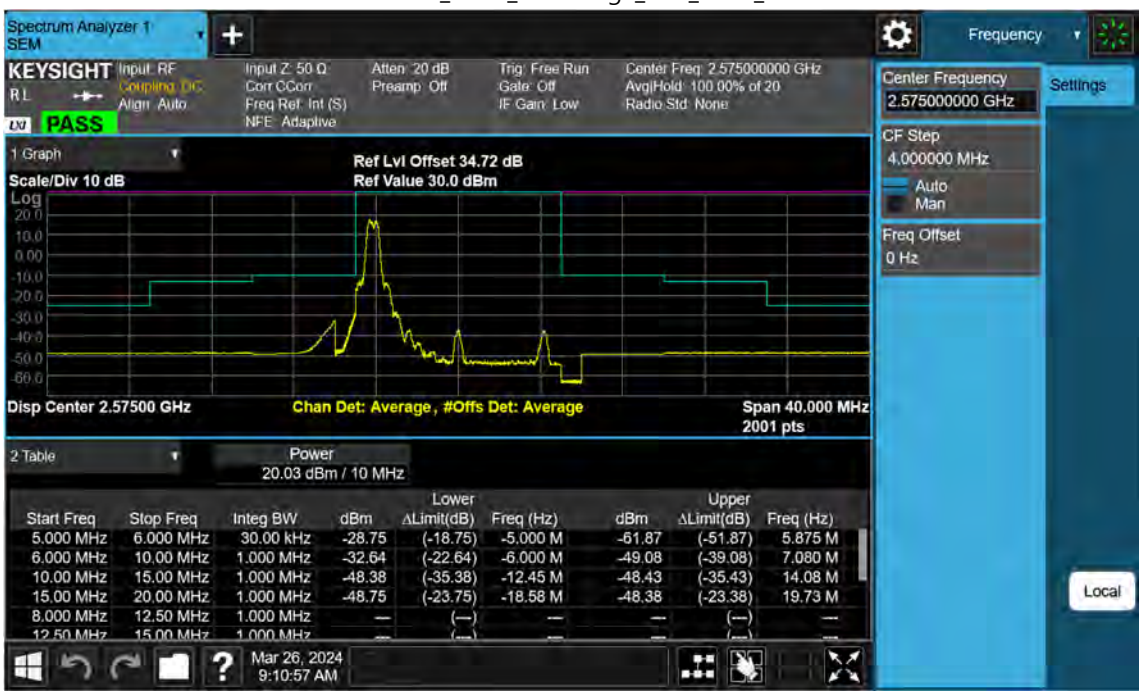


Sub6 n38_40 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB

Sub6 n38_40 M_Conducted Spurious(Above10 G)_Mid_BPSK_FullRB

Sub6 n38_40 M_Conducted Spurious(Above10 G)_High_BPSK_1RB

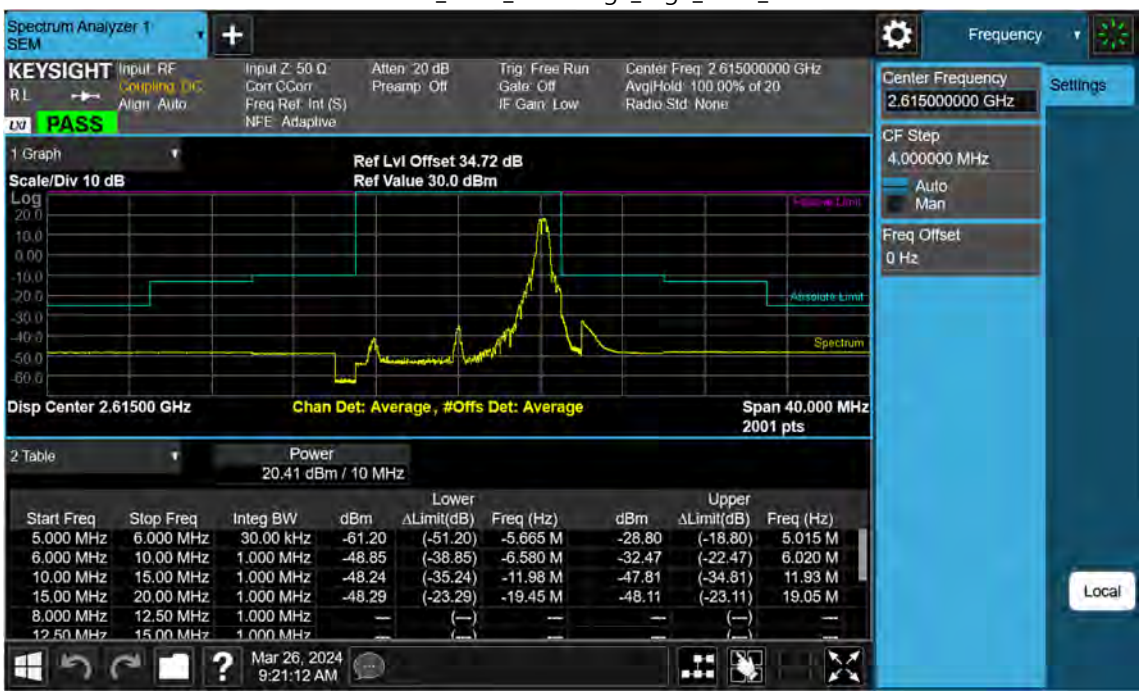
Sub6 n38_10 M_Band Edge_Low_BPSK_1RB



Sub6 n38_10 M_Band Edge_Low_BPSK_FullRB

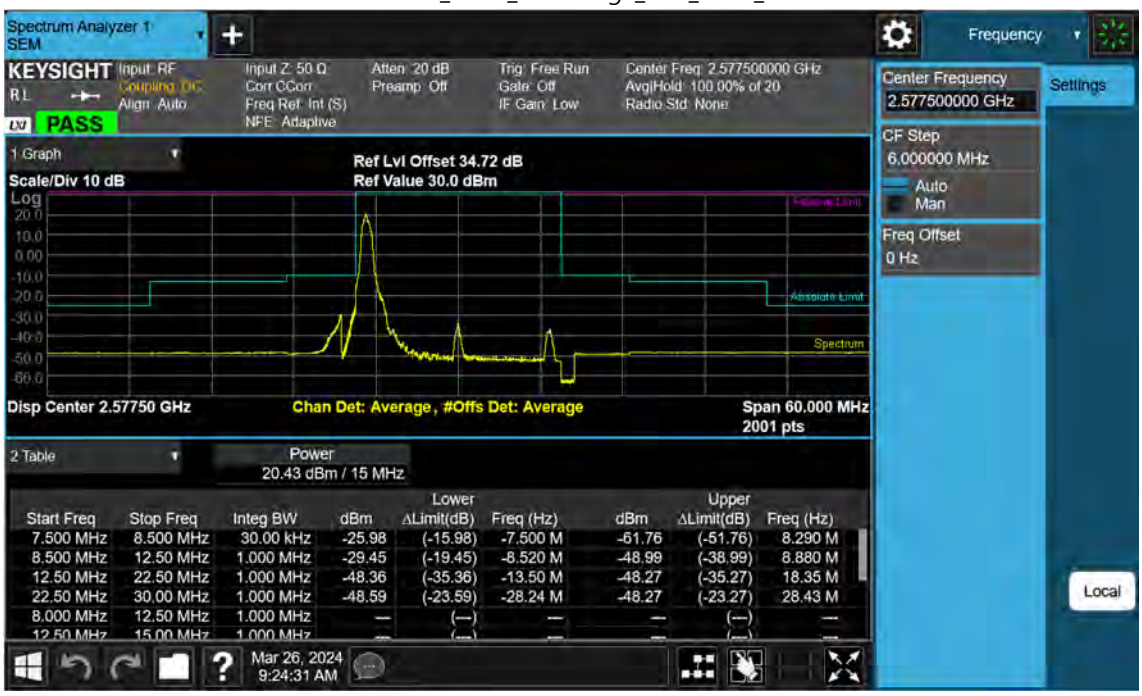
Sub6 n38_10 M_Band Edge_Mid_BPSK_FullRB

Sub6 n38_10 M_Band Edge_High_BPSK_1RB

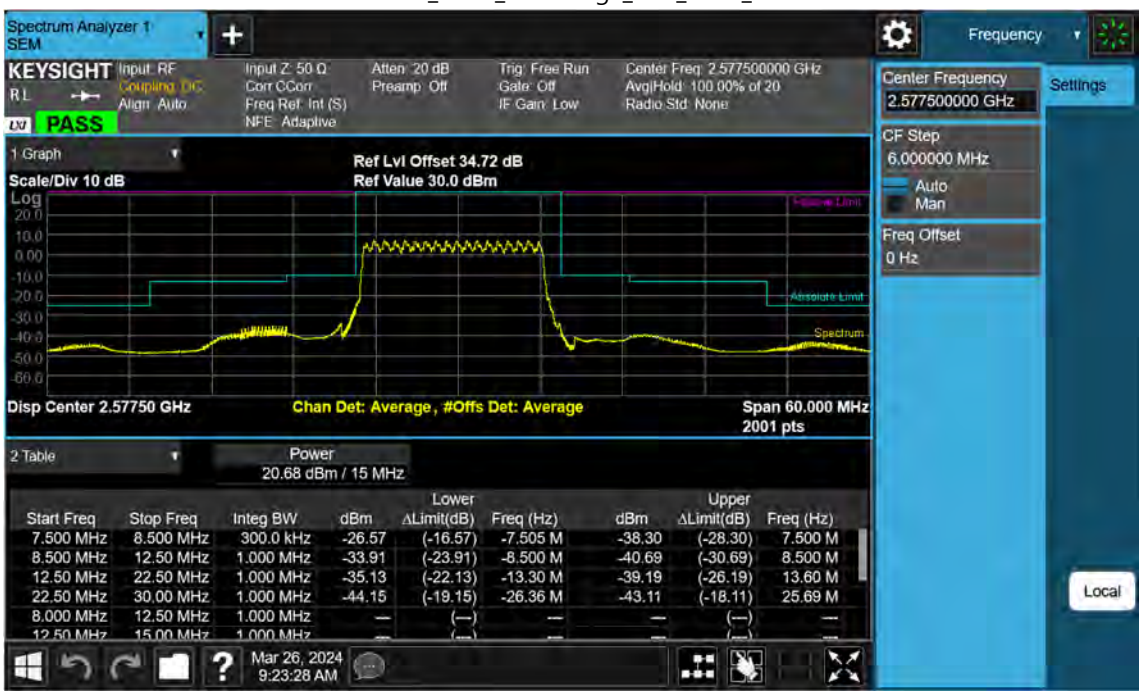


Sub6 n38_10 M_Band Edge_High_BPSK_FullRB

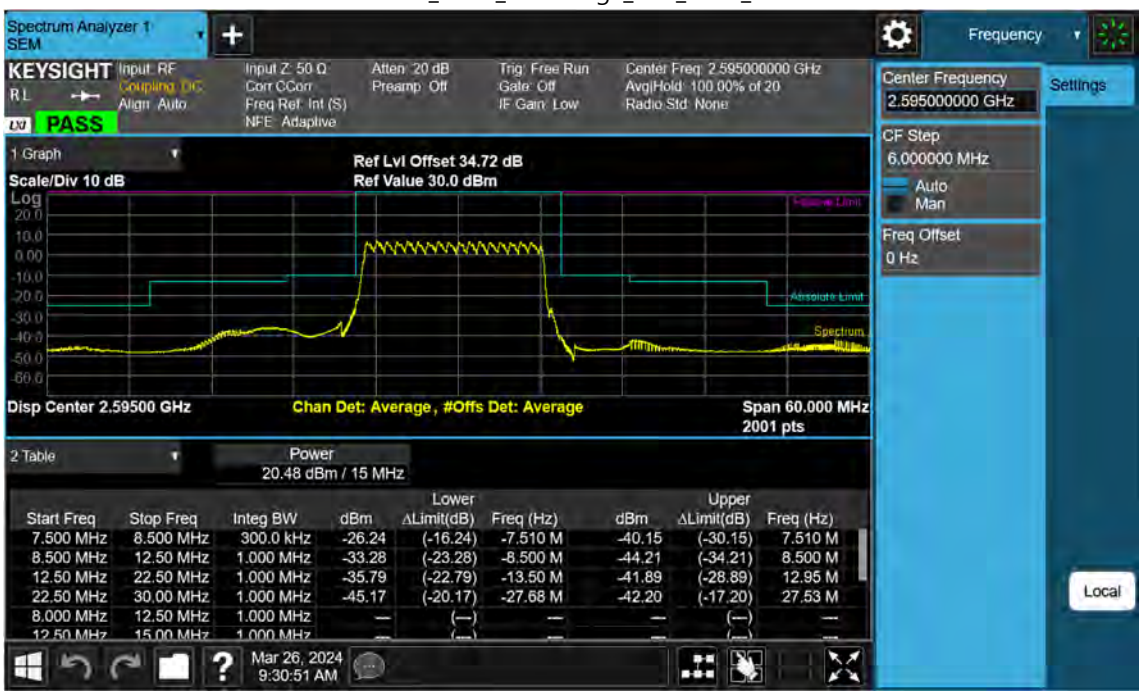
Sub6 n38_15 M_Band Edge_Low_BPSK_1RB



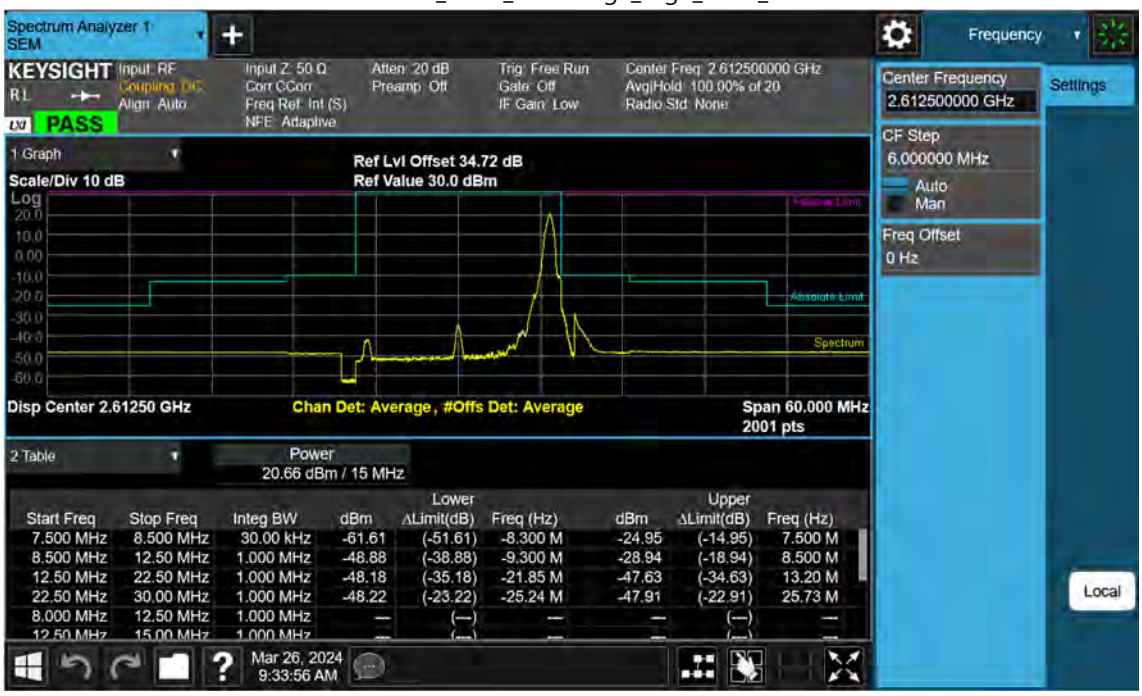
Sub6 n38_15 M_Band Edge_Low_BPSK_FullRB



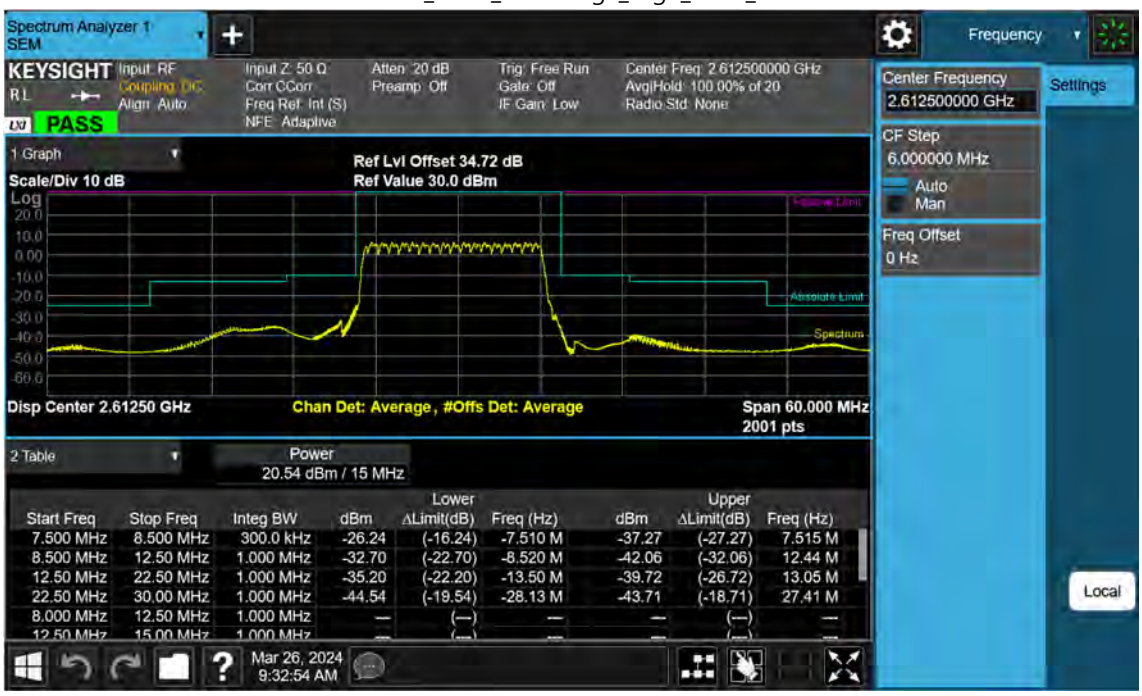
Sub6 n38_15 M_Band Edge_Mid_BPSK_FullRB



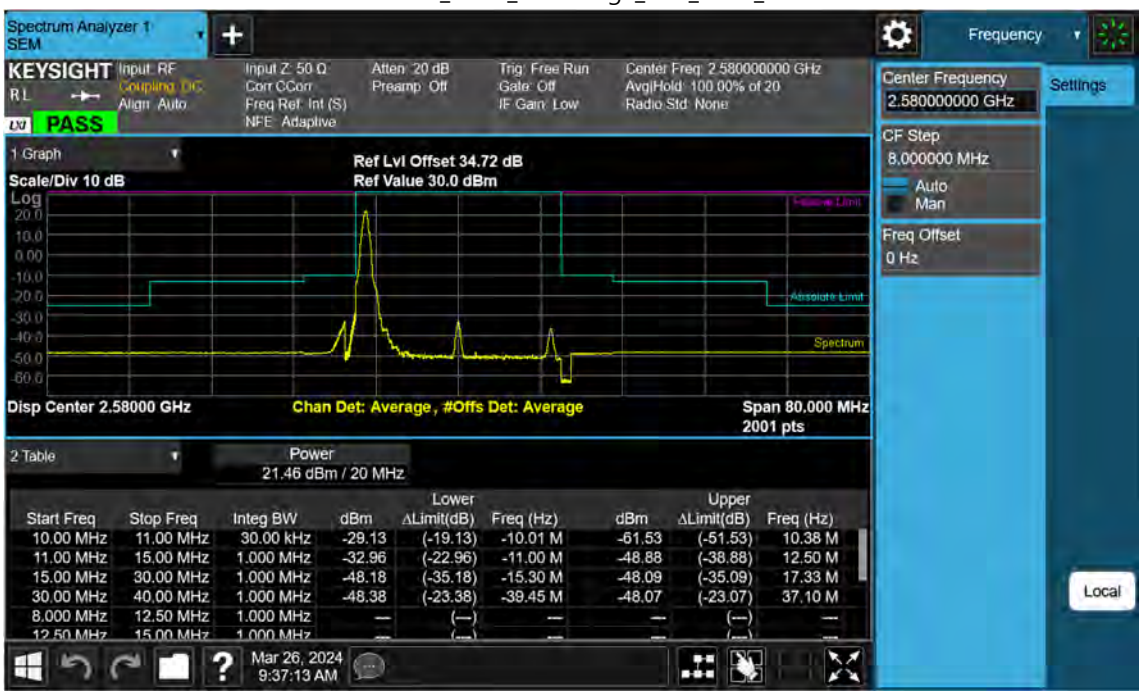
Sub6 n38_15 M_Band Edge_High_BPSK_1RB



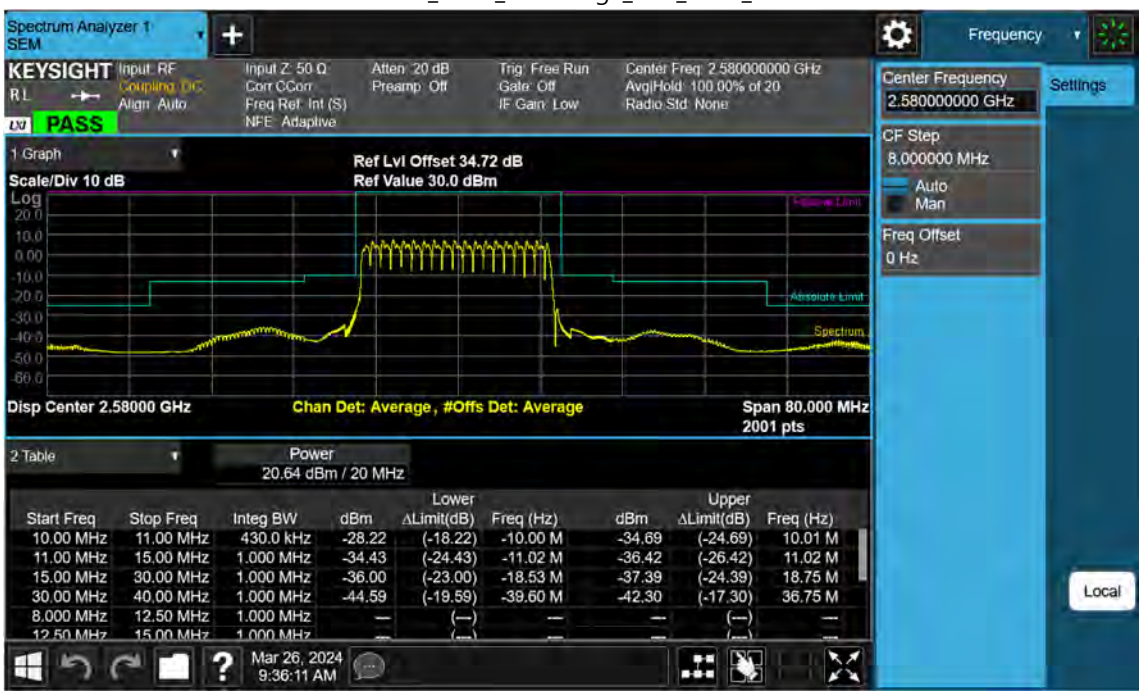
Sub6 n38_15 M_Band Edge_High_BPSK_FullRB



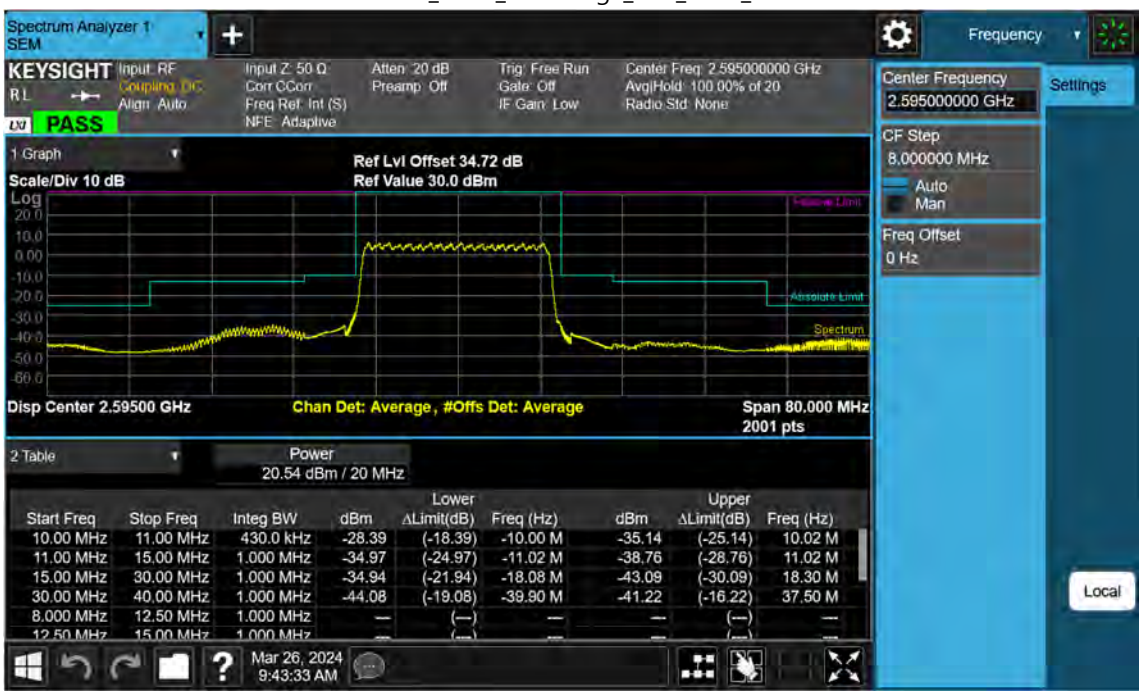
Sub6 n38_20 M_Band Edge_Low_BPSK_1RB



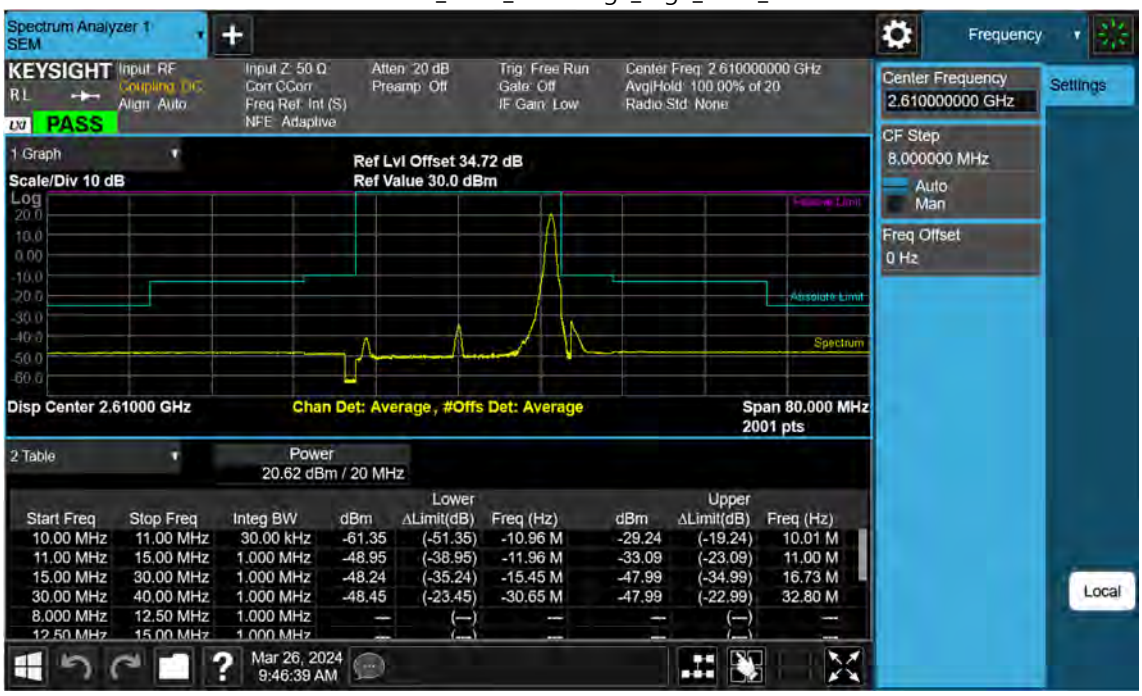
Sub6 n38_20 M_Band Edge_Low_BPSK_FullRB



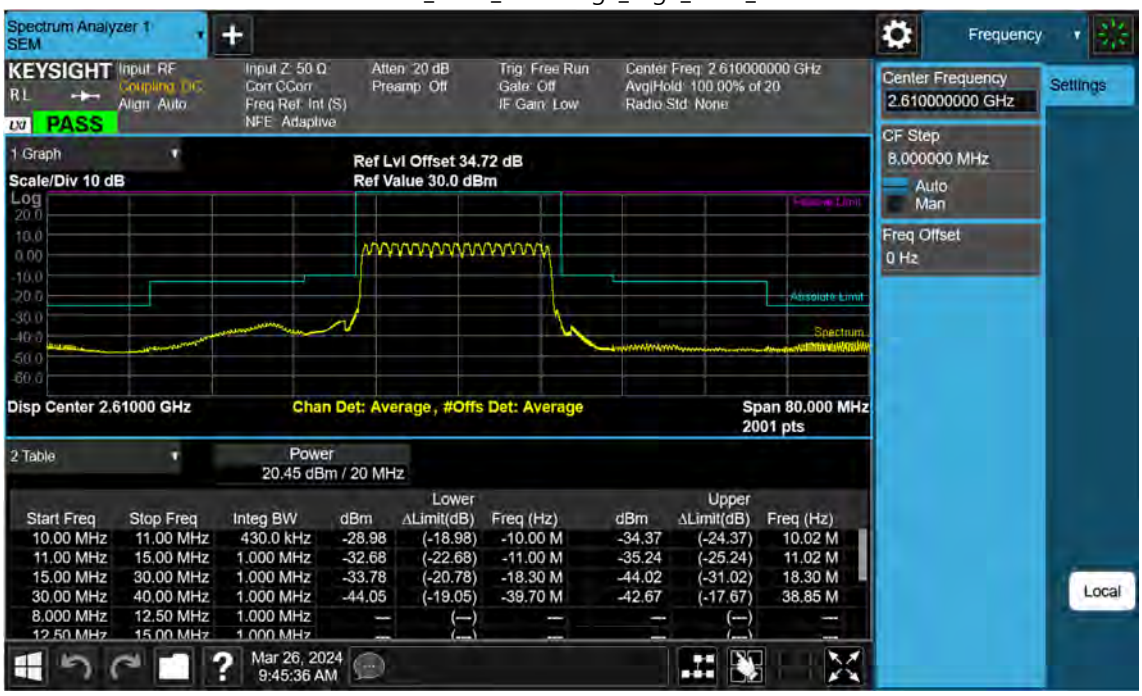
Sub6 n38_20 M_Band Edge_Mid_BPSK_FullRB



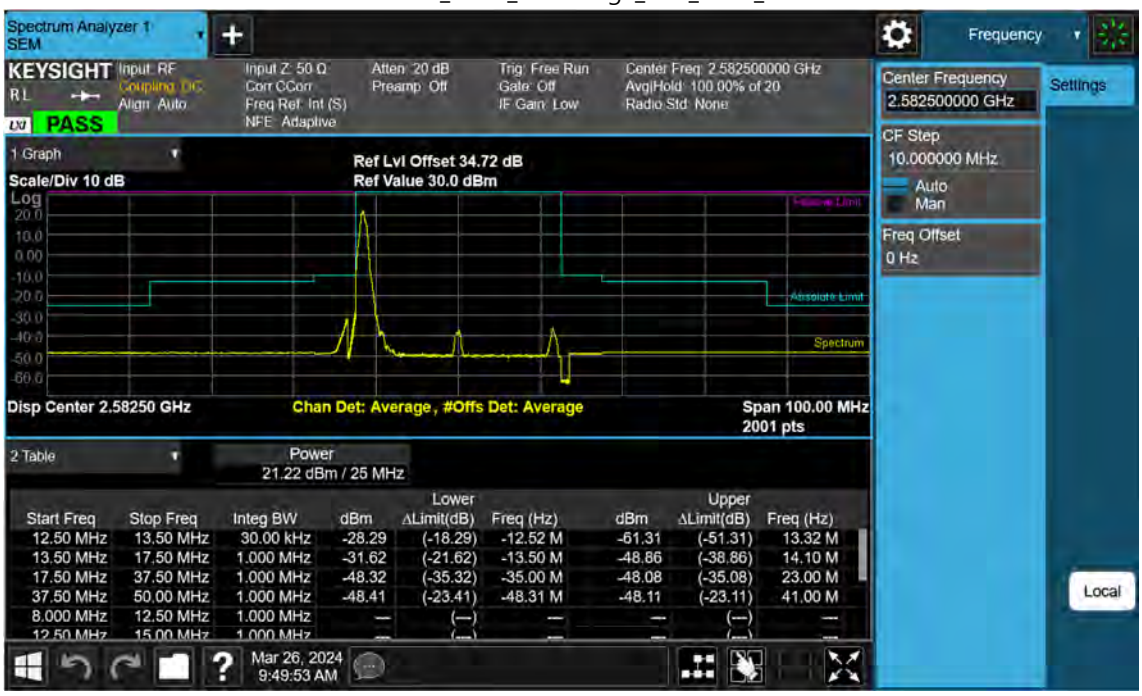
Sub6 n38_20 M_Band Edge_High_BPSK_1RB



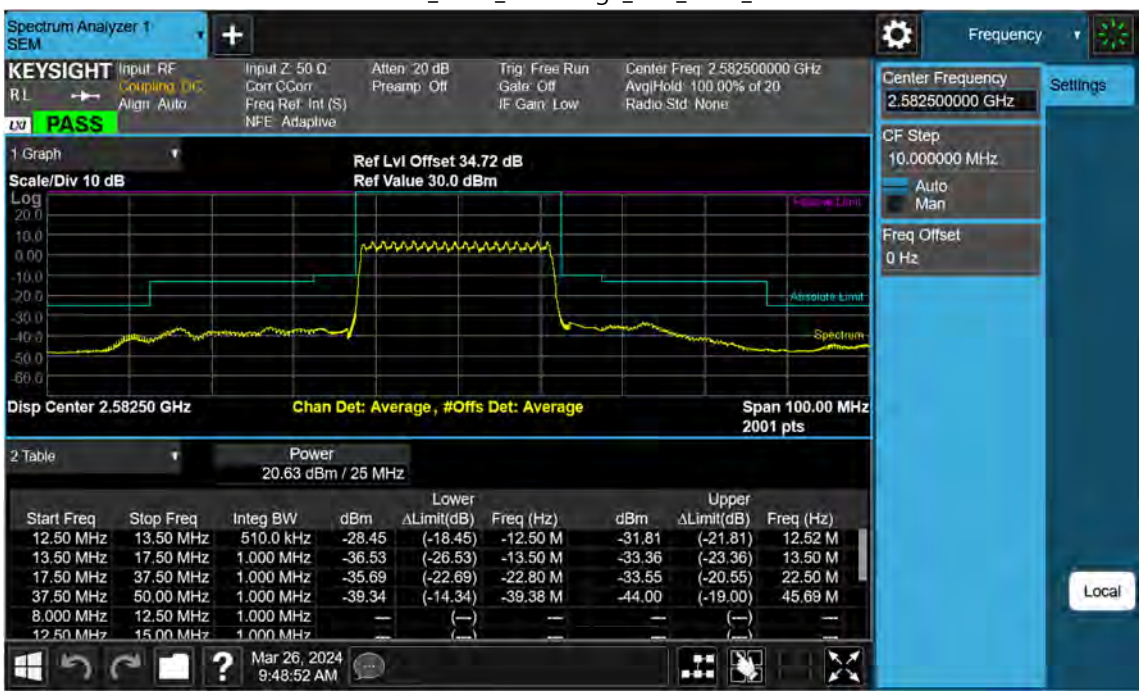
Sub6 n38_20 M_Band Edge_High_BPSK_FullRB



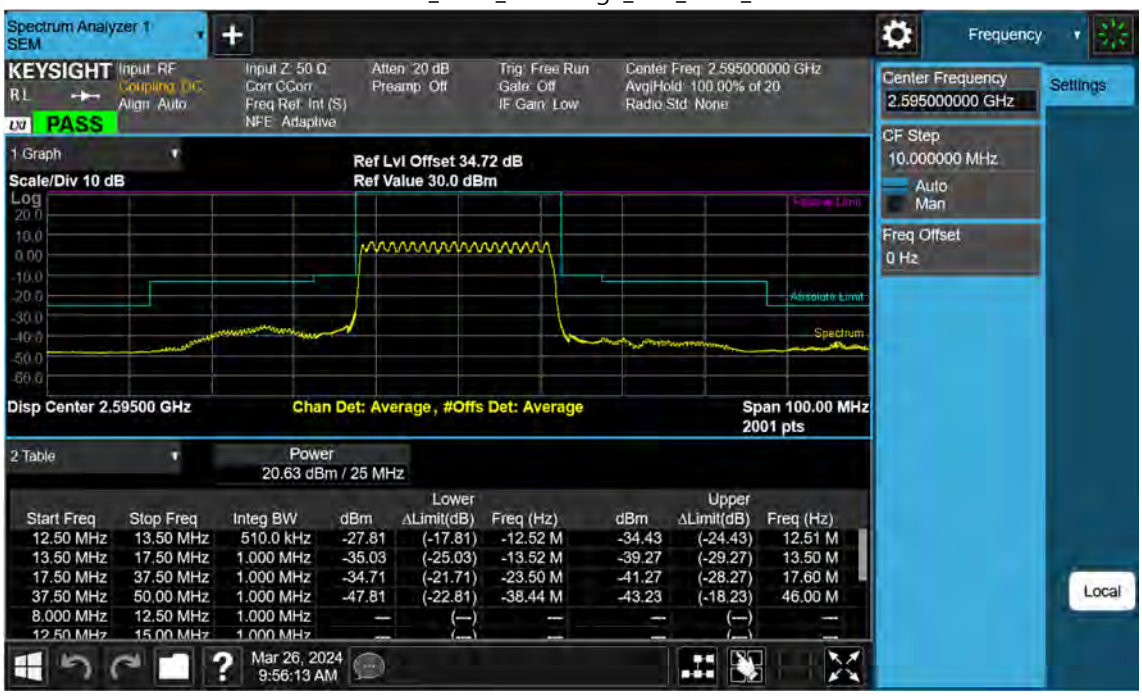
Sub6 n38_25 M_Band Edge_Low_BPSK_1RB



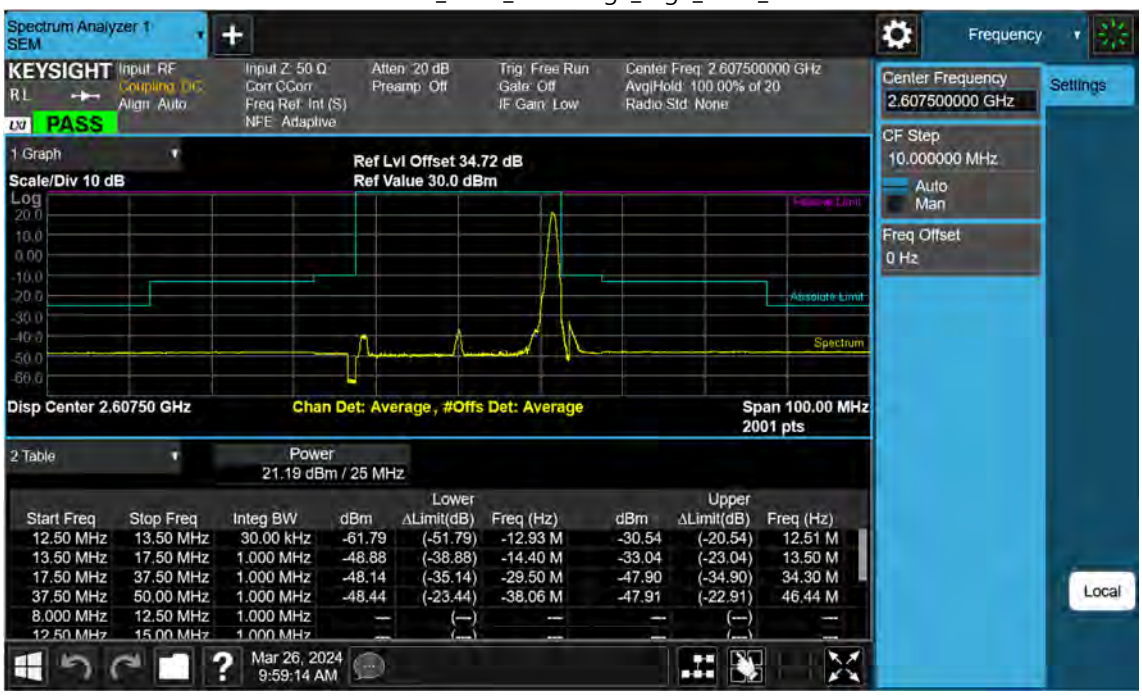
Sub6 n38_25 M_Band Edge_Low_BPSK_FullRB



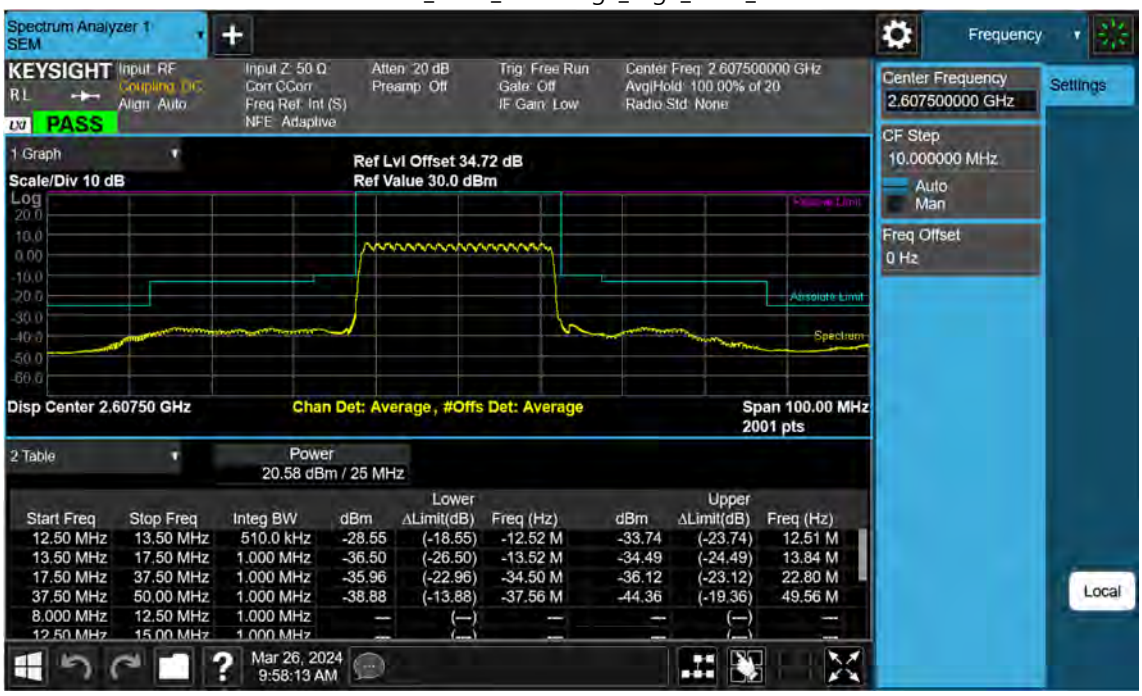
Sub6 n38_25 M_Band Edge_Mid_BPSK_FullRB



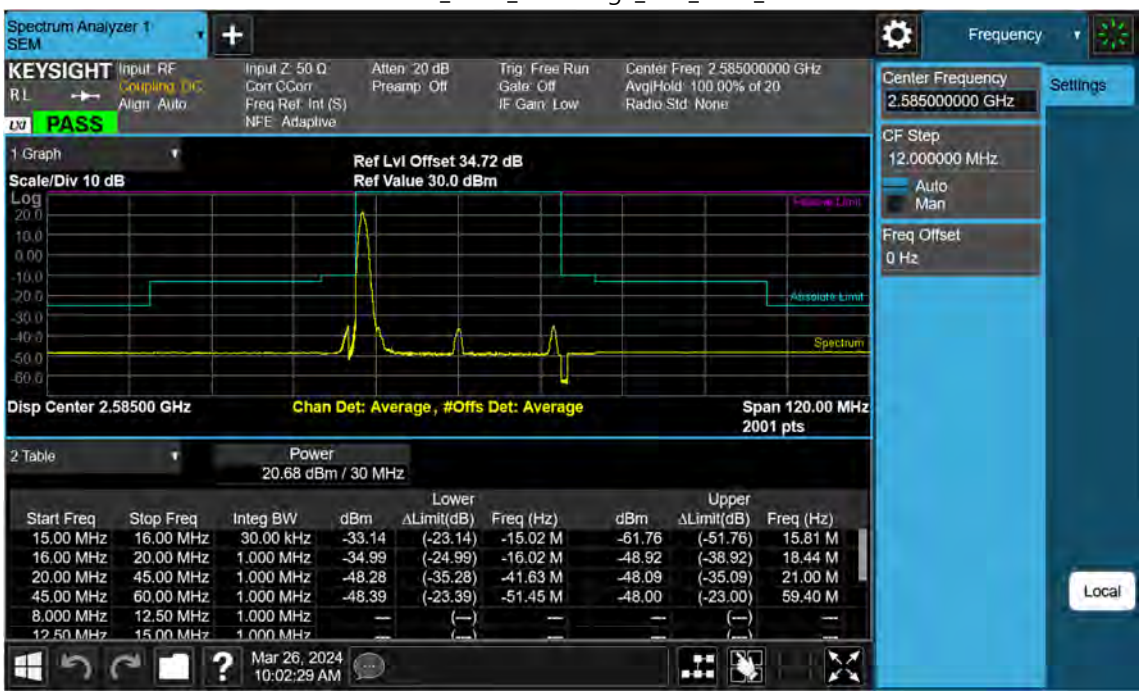
Sub6 n38_25 M_Band Edge_High_BPSK_1RB



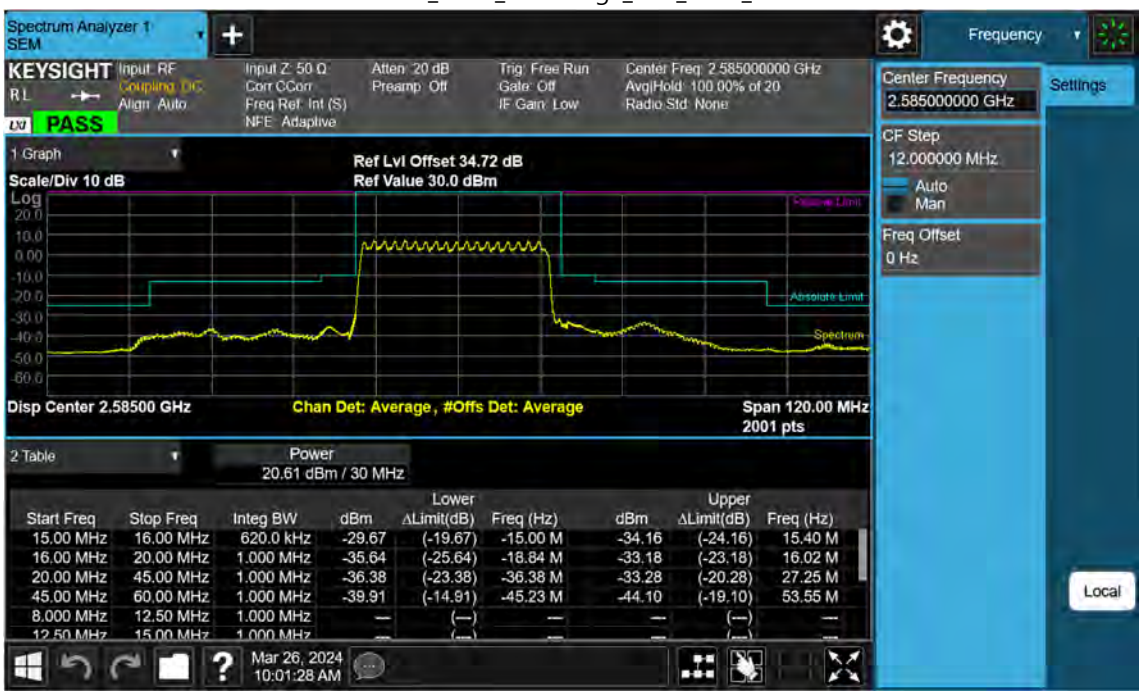
Sub6 n38_25 M_Band Edge_High_BPSK_FullRB



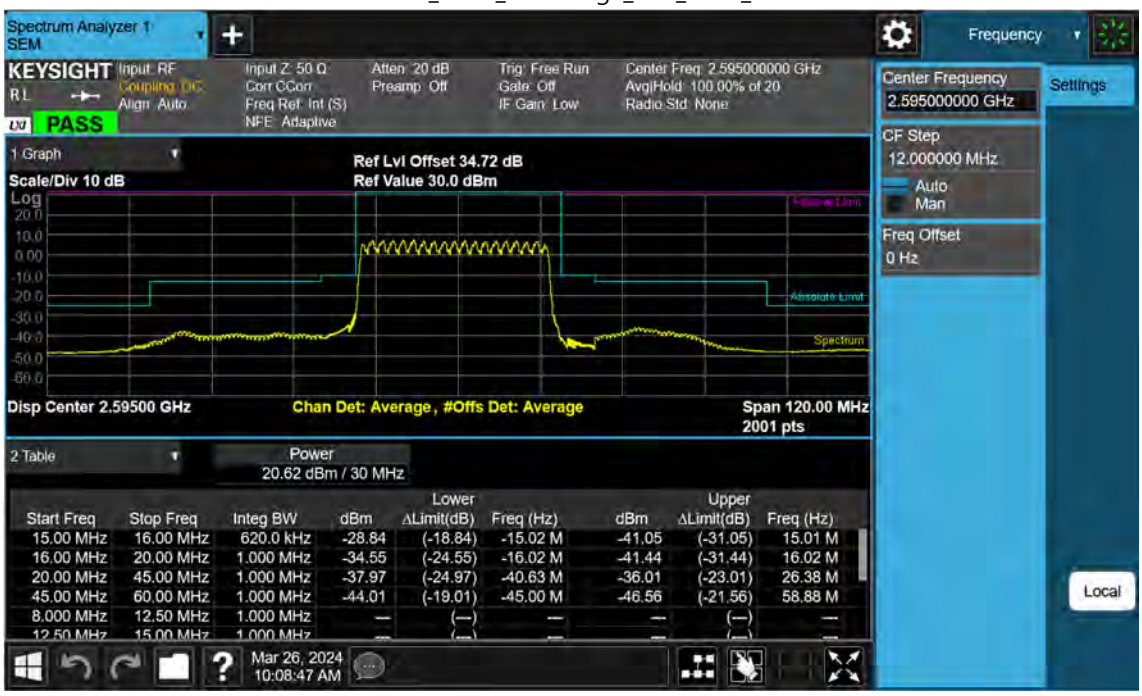
Sub6 n38_30 M_Band Edge_Low_BPSK_1RB



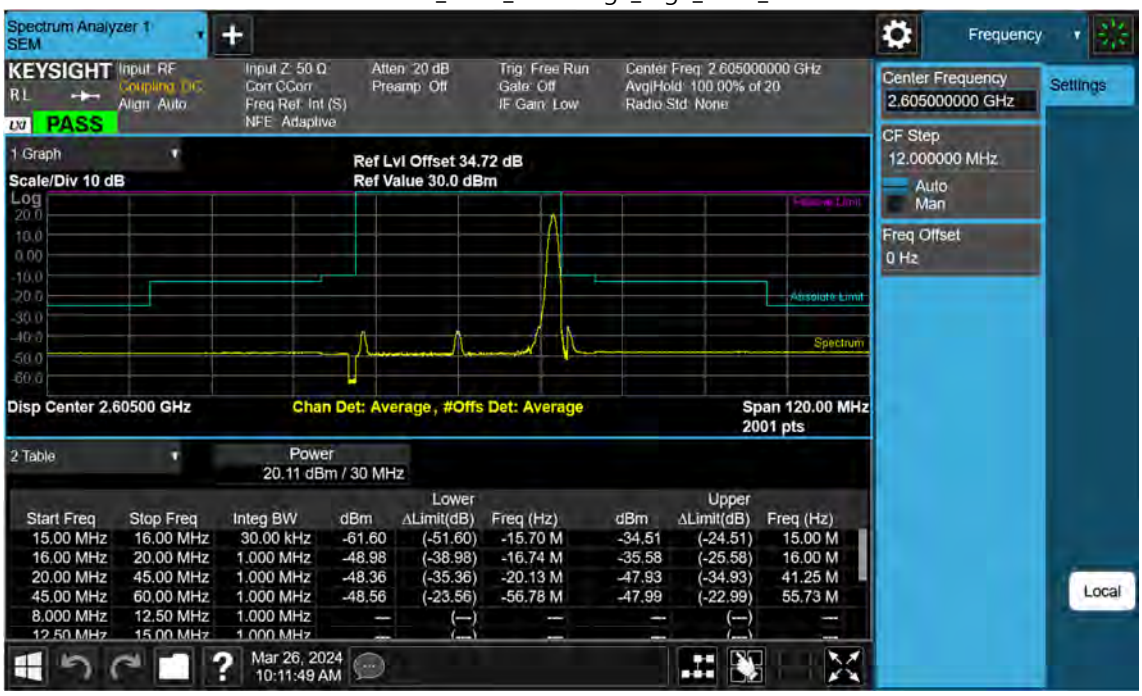
Sub6 n38_30 M_Band Edge_Low_BPSK_FullRB



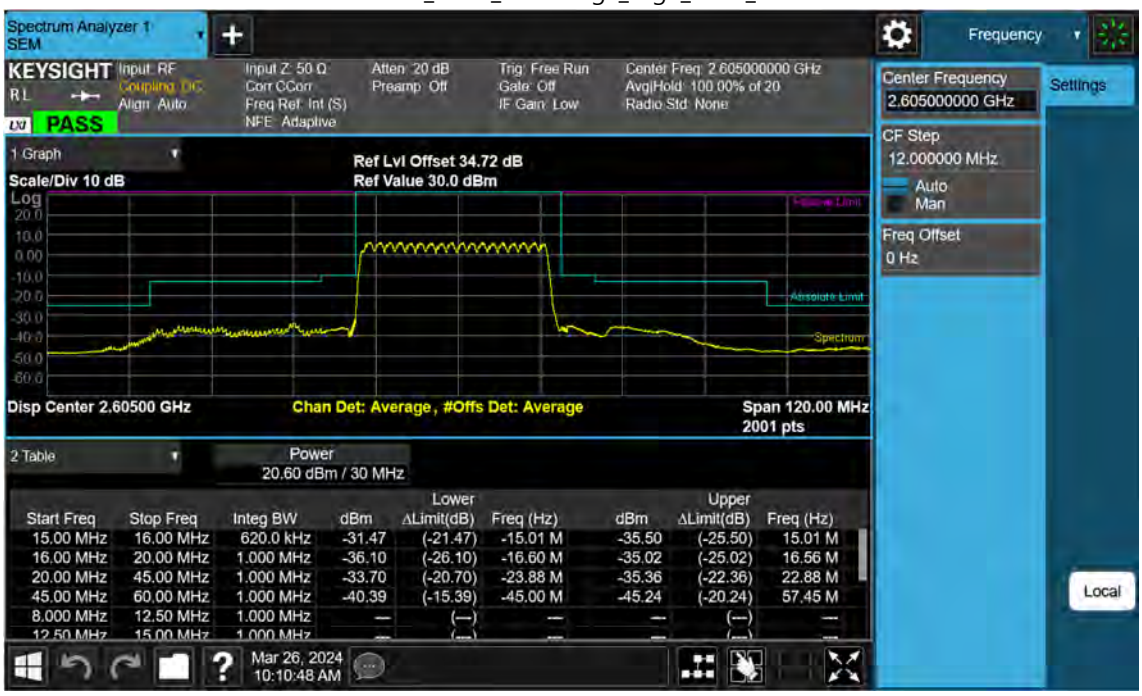
Sub6 n38_30 M_Band Edge_Mid_BPSK_FullRB



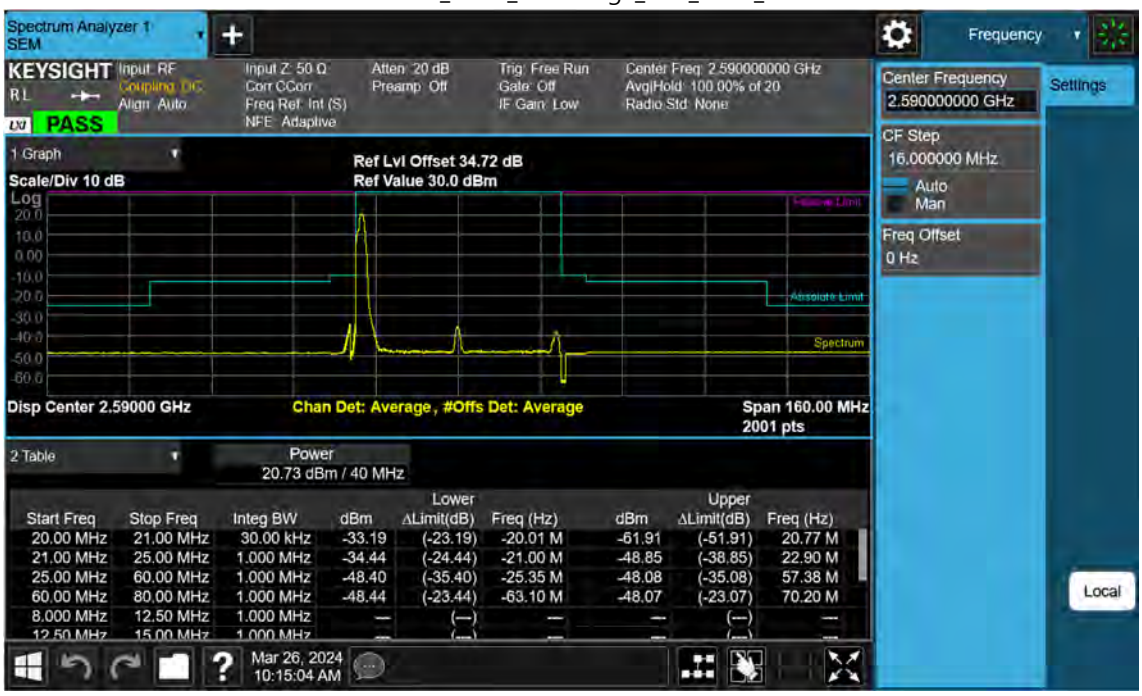
Sub6 n38_30 M_Band Edge_High_BPSK_1RB



Sub6 n38_30 M_Band Edge_High_BPSK_FullRB

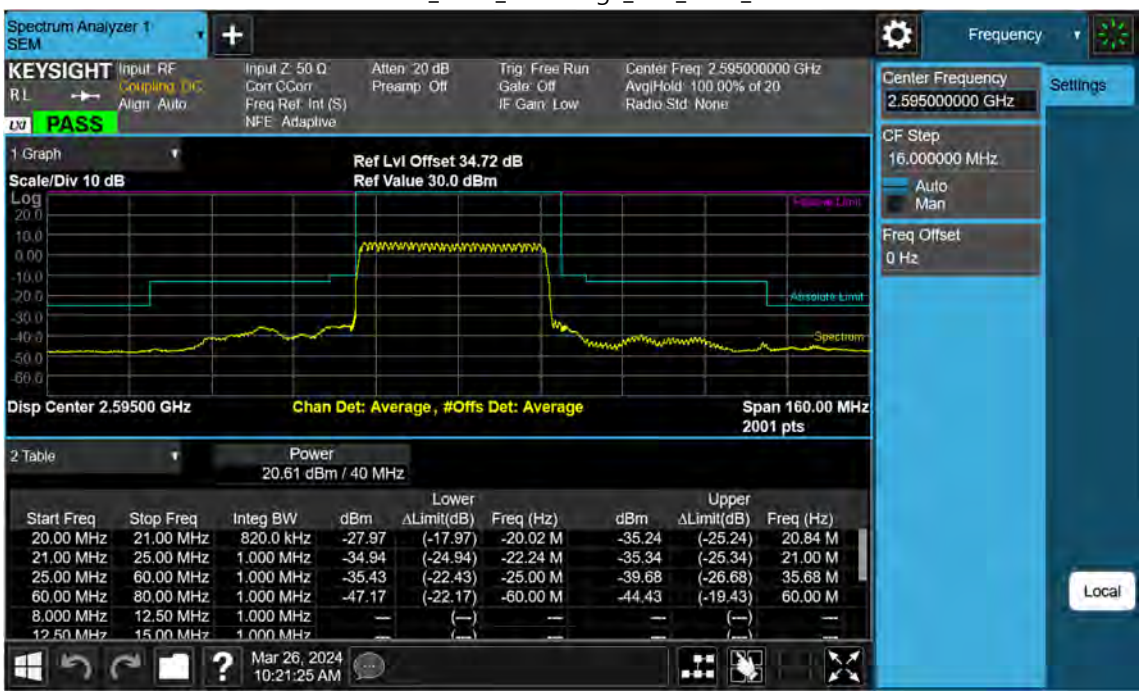


Sub6 n38_40 M_Band Edge_Low_BPSK_1RB

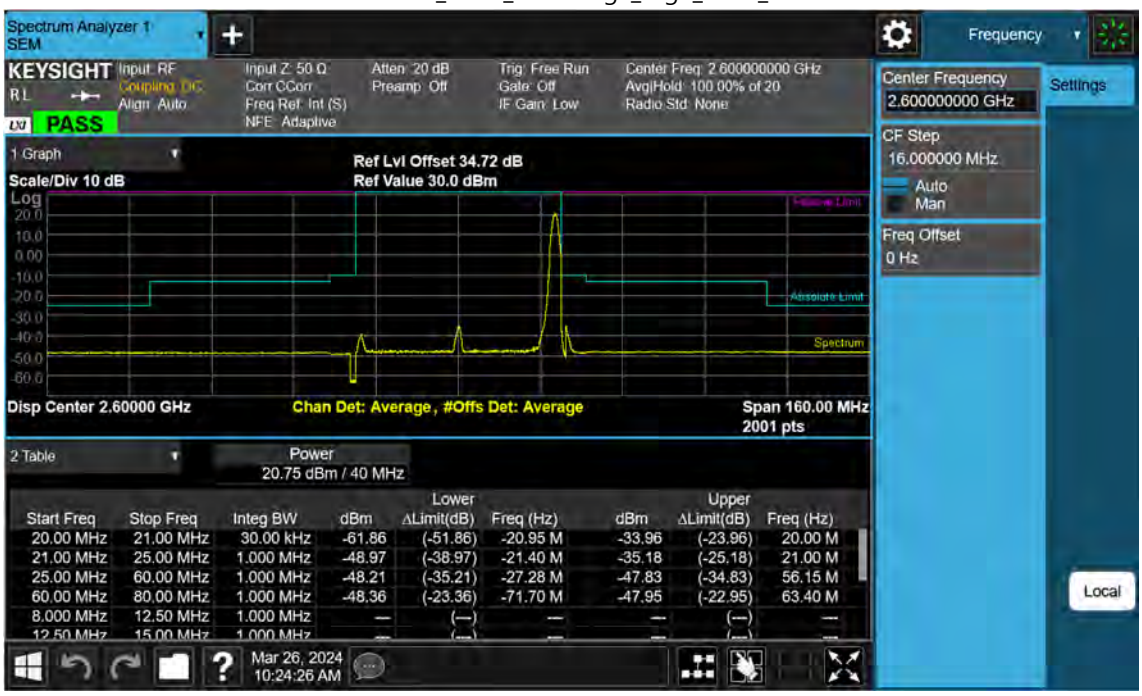


Sub6 n38_40 M_Band Edge_Low_BPSK_FullRB

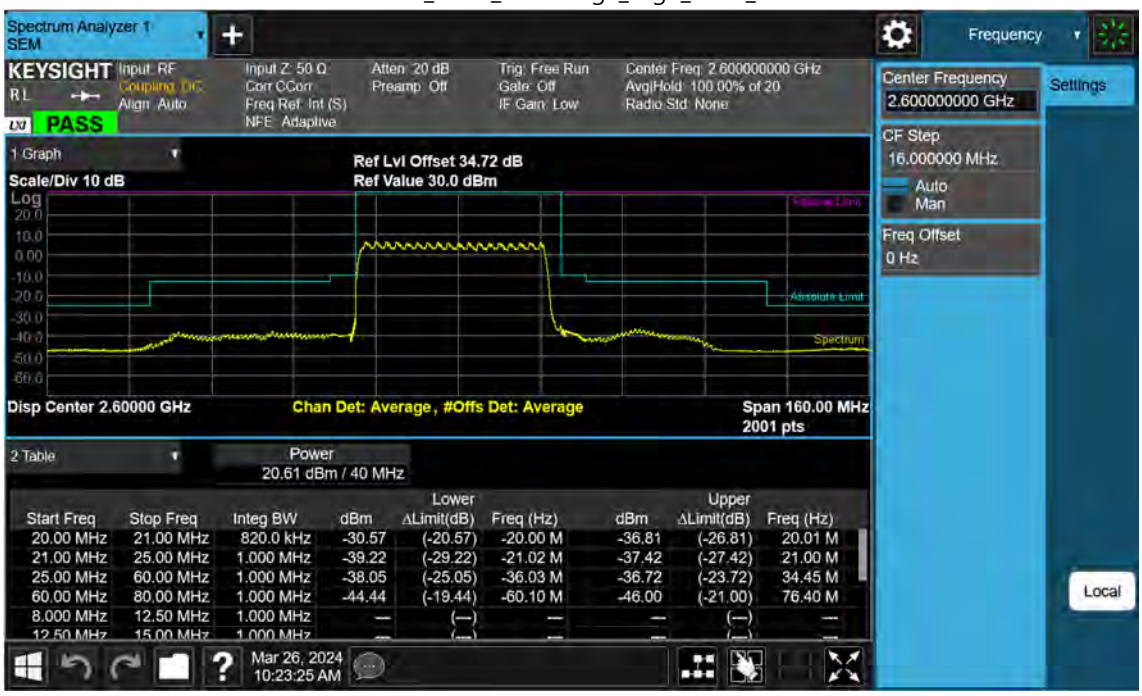
Sub6 n38_40 M_Band Edge_Mid_BPSK_FullRB



Sub6 n38_40 M_Band Edge_High_BPSK_1RB

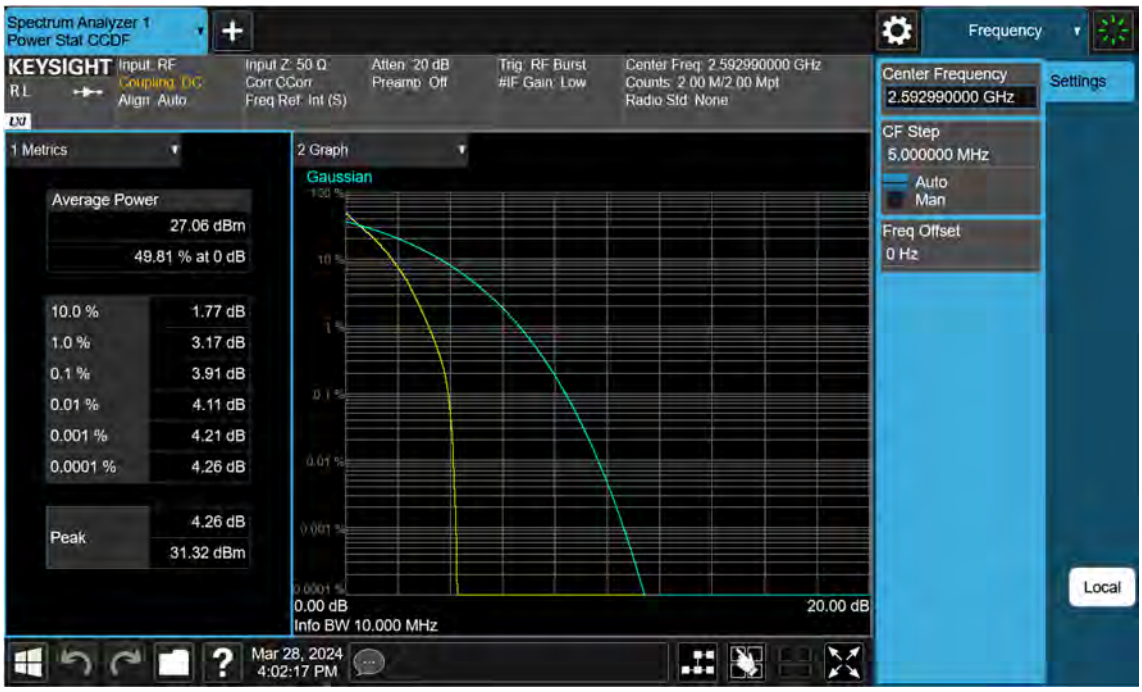


Sub6 n38_40 M_Band Edge_High_BPSK_FullRB



11. TEST PLOTS(ANT I)

Sub6 n41(38)_10 M_PAR_Mid_BPSK_FullRB



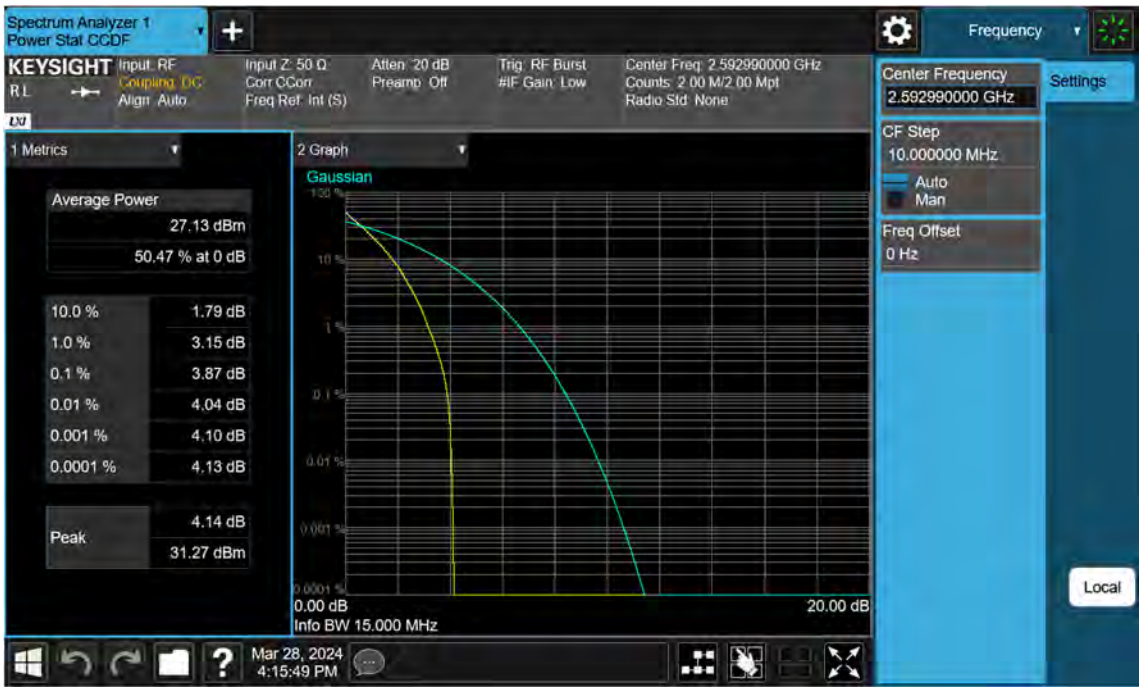
Sub6 n41(38)_10 M_PAR_Mid_QPSK_FullRB

Sub6 n41(38)_10 M_PAR_Mid_16QAM_FullRB

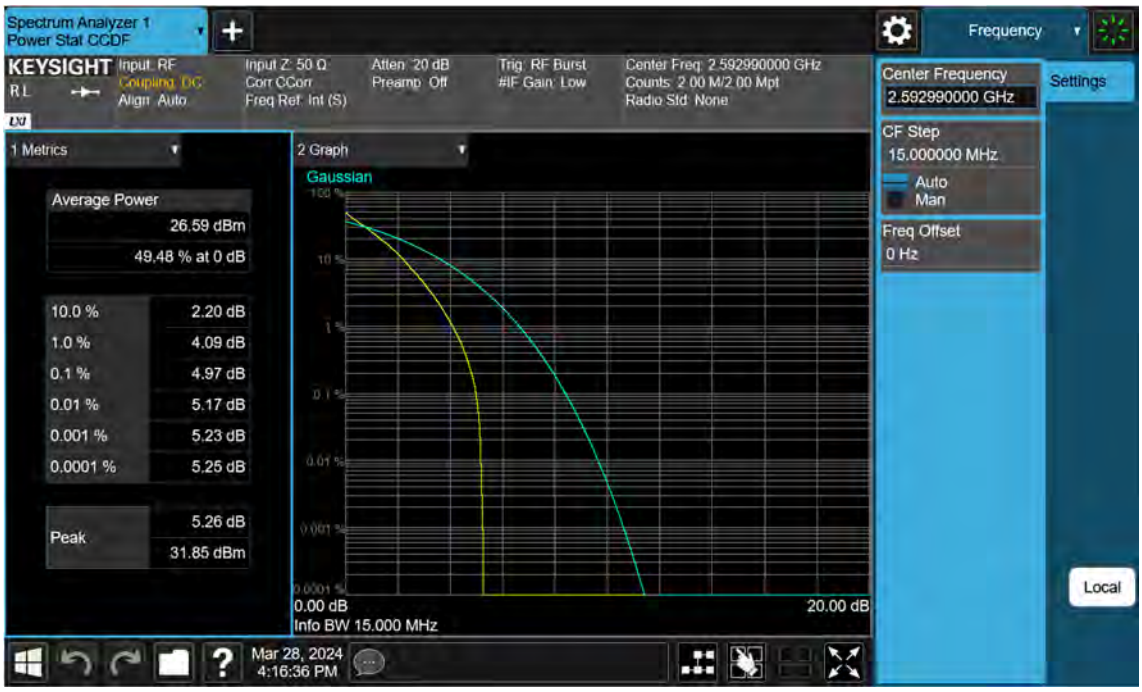
Sub6 n41(38)_10 M_PAR_Mid_64QAM_FullRB

Sub6 n41(38)_10 M_PAR_Mid_256QAM_FullRB

Sub6 n41(38)_15 M_PAR_Mid_BPSK_FullRB



Sub6 n41(38)_15 M_PAR_Mid_QPSK_FullRB



Sub6 n41(38)_15 M_PAR_Mid_16QAM_FullRB

Sub6 n41(38)_15 M_PAR_Mid_64QAM_FullRB

Sub6 n41(38)_15 M_PAR_Mid_256QAM_FullRB

Sub6 n41(38)_20 M_PAR_Mid_BPSK_FullRB

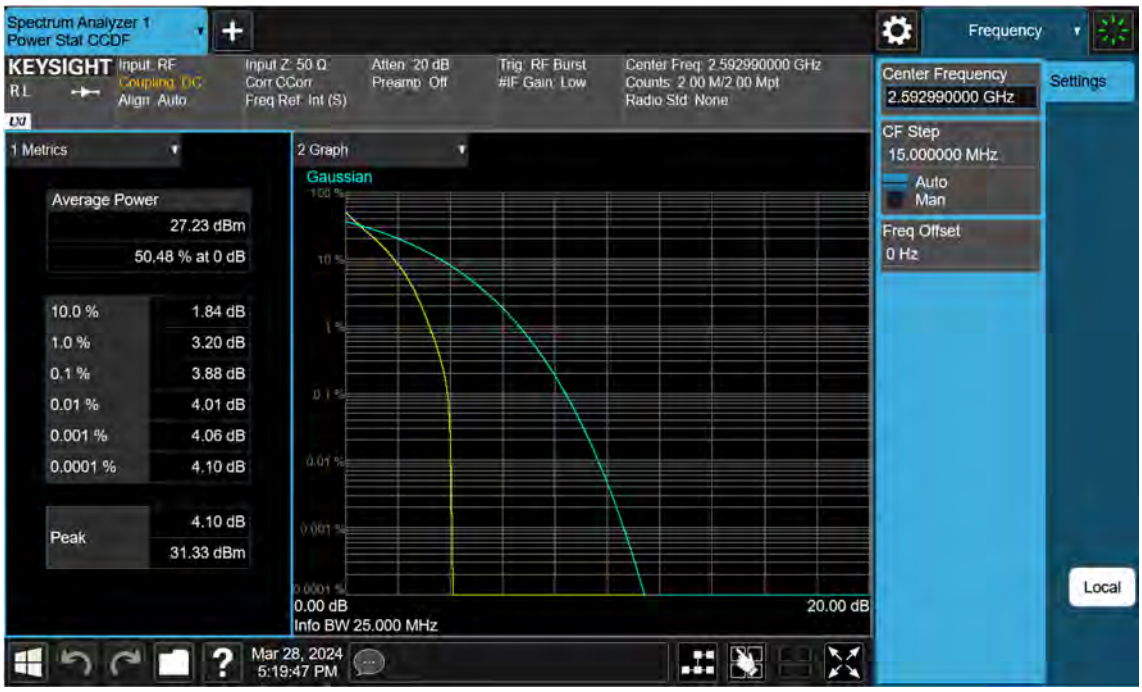
Sub6 n41(38)_20 M_PAR_Mid_QPSK_FullRB

Sub6 n41(38)_20 M_PAR_Mid_16QAM_FullRB

Sub6 n41(38)_20 M_PAR_Mid_64QAM_FullRB

Sub6 n41(38)_20 M_PAR_Mid_256QAM_FullRB

Sub6 n41(38)_25 M_PAR_Mid_BPSK_FullRB



Sub6 n41(38)_25 M_PAR_Mid_QPSK_FullRB

Sub6 n41(38)_25 M_PAR_Mid_16QAM_FullRB