TEST REPORT

FCC Sub6 n7 Test for SM-F741U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2404-FC025-R1

DATE OF ISSUE
May 3, 2024

Tested by
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TEST REPORT

REPORT NO.
HCT-RF-2404-FC025-R1

DATE OF ISSUE
May 03, 2024

Additional Model
SM-F741U1

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-F741U
Date of Test	February 27, 2024 ~ April 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
1	May 03, 2024	Revised the date of test (Page 2.)

Notice

Content
The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)
The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s).
When confirmation of authenticity of this test report is required, please contact www.hct.co.kr
The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMF741U
Application Type:	Certification
FCC Classification:	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):	15
Bandwidth(MHz):	5, 10, 15, 20, 25, 30, 35, 40
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency:	2502.5 MHz – 2567.5 MHz (Sub6 n7(5 MHz)) 2505.0 MHz – 2565.0 MHz (Sub6 n7(10 MHz)) 2507.5 MHz – 2562.5 MHz (Sub6 n7(15 MHz)) 2510.0 MHz – 2560.0 MHz (Sub6 n7(20 MHz)) 2512.5 MHz – 2557.5 MHz (Sub6 n7(25 MHz)) 2515.0 MHz – 2555.0 MHz (Sub6 n7(30 MHz)) 2517.5 MHz – 2552.5 MHz (Sub6 n7(35 MHz)) 2520.0 MHz – 2550.0 MHz (Sub6 n7(40 MHz))
Date(s) of Tests:	February 27, 2024 ~ April 25, 2024
Serial number:	Radiated : R3CX20KJSJW (ANT B) R3CX30BD5JJ (ANT I), R3CX30HGMVZ (ANT I_RSE) Conducted : 7B5599BDA1507ECE (ANT B), 7b5599c1a7507ece (ANT I)

1.1. MAXIMUM OUTPUT POWER

ANT B

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n7 (5)	2502.5 – 2567.5	4M51G7D	PI/2 BPSK	0.101	20.03
		4M52G7D	QPSK	0.098	19.91
		4M49W7D	16QAM	0.081	19.11
		4M52W7D	64QAM	0.057	17.54
		4M52W7D	256QAM	0.031	14.96
Sub6 n7 (10)	2505.0 – 2565.0	8M97G7D	PI/2 BPSK	0.103	20.13
		8M99G7D	QPSK	0.102	20.08
		9M01W7D	16QAM	0.079	18.97
		8M95W7D	64QAM	0.056	17.51
		8M99W7D	256QAM	0.031	14.95
Sub6 n7 (15)	2507.5 – 2562.5	13M5G7D	PI/2 BPSK	0.109	20.38
		13M5G7D	QPSK	0.103	20.13
		13M5W7D	16QAM	0.081	19.08
		13M5W7D	64QAM	0.059	17.71
		13M5W7D	256QAM	0.033	15.18
Sub6 n7 (20)	2510.0 – 2560.0	18M0G7D	PI/2 BPSK	0.105	20.21
		17M9G7D	QPSK	0.103	20.13
		17M9W7D	16QAM	0.083	19.19
		17M9W7D	64QAM	0.059	17.70
		18M0W7D	256QAM	0.033	15.18
Sub6 n7 (25)	2512.5 – 2557.5	23M0G7D	PI/2 BPSK	0.107	20.31
		22M9G7D	QPSK	0.104	20.18
		23M0W7D	16QAM	0.086	19.33
		22M9W7D	64QAM	0.061	17.86
		22M9W7D	256QAM	0.034	15.29
Sub6 n7 (30)	2515.0 – 2555.0	28M7G7D	PI/2 BPSK	0.111	20.46
		28M8G7D	QPSK	0.107	20.31
		28M7W7D	16QAM	0.086	19.33
		28M7W7D	64QAM	0.064	18.03
		28M7W7D	256QAM	0.034	15.36
Sub6 n7 (35)	2517.5 – 2552.5	32M3G7D	PI/2 BPSK	0.106	20.26
		32M3G7D	QPSK	0.103	20.11
		32M3W7D	16QAM	0.083	19.20
		32M3W7D	64QAM	0.061	17.82
		32M4W7D	256QAM	0.034	15.28
Sub6 n7 (40)	2520.0 – 2550.0	38M7G7D	PI/2 BPSK	0.105	20.23
		38M8G7D	QPSK	0.102	20.07
		38M8W7D	16QAM	0.083	19.18
		38M6W7D	64QAM	0.060	17.75
		38M7W7D	256QAM	0.033	15.21

ANT I

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n7 (5)	2502.5 – 2567.5	4M57G7D	PI/2 BPSK	0.220	23.42
		4M57G7D	QPSK	0.219	23.41
		4M58W7D	16QAM	0.168	22.25
		4M61W7D	64QAM	0.120	20.80
		4M60W7D	256QAM	0.067	18.26
Sub6 n7 (10)	2505.0 – 2565.0	8M97G7D	PI/2 BPSK	0.225	23.52
		9M02G7D	QPSK	0.224	23.50
		9M01W7D	16QAM	0.175	22.43
		8M96W7D	64QAM	0.127	21.04
		8M96W7D	256QAM	0.069	18.38
Sub6 n7 (15)	2507.5 – 2562.5	13M5G7D	PI/2 BPSK	0.232	23.65
		13M5G7D	QPSK	0.229	23.60
		13M5W7D	16QAM	0.182	22.59
		13M5W7D	64QAM	0.129	21.11
		13M5W7D	256QAM	0.072	18.59
Sub6 n7 (20)	2510.0 – 2560.0	17M9G7D	PI/2 BPSK	0.231	23.64
		17M9G7D	QPSK	0.230	23.61
		17M9W7D	16QAM	0.177	22.48
		17M9W7D	64QAM	0.130	21.14
		17M9W7D	256QAM	0.071	18.53
Sub6 n7 (25)	2512.5 – 2557.5	23M0G7D	PI/2 BPSK	0.242	23.84
		23M0G7D	QPSK	0.239	23.79
		23M0W7D	16QAM	0.187	22.72
		22M9W7D	64QAM	0.138	21.40
		23M0W7D	256QAM	0.074	18.72
Sub6 n7 (30)	2515.0 – 2555.0	28M7G7D	PI/2 BPSK	0.235	23.71
		28M7G7D	QPSK	0.234	23.70
		28M7W7D	16QAM	0.182	22.59
		28M6W7D	64QAM	0.129	21.12
		28M6W7D	256QAM	0.072	18.58
Sub6 n7 (35)	2517.5 – 2552.5	32M2G7D	PI/2 BPSK	0.222	23.47
		32M2G7D	QPSK	0.221	23.45
		32M2W7D	16QAM	0.173	22.39
		32M3W7D	64QAM	0.129	21.09
		32M3W7D	256QAM	0.070	18.42
Sub6 n7 (40)	2520.0 – 2550.0	38M7G7D	PI/2 BPSK	0.219	23.39
		38M7G7D	QPSK	0.218	23.38
		38M7W7D	16QAM	0.172	22.35
		38M6W7D	64QAM	0.125	20.98
		38M7W7D	256QAM	0.070	18.45

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;

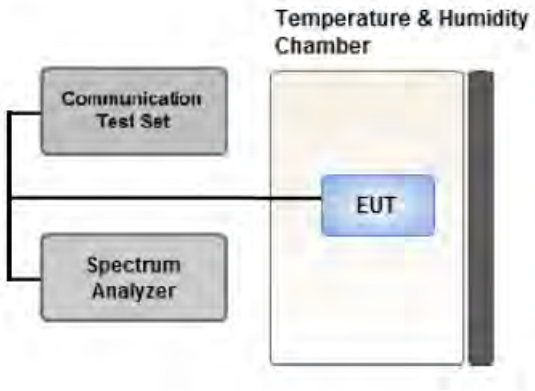
$$\text{Result}_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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)

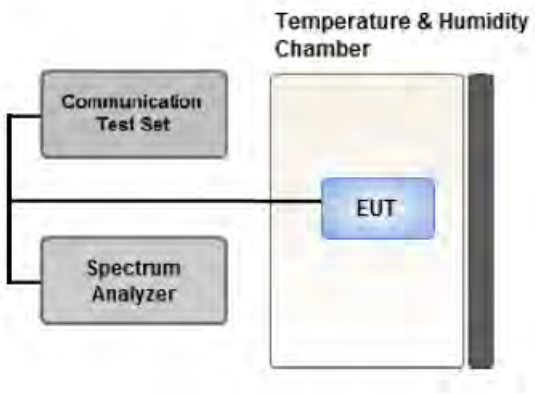
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

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.



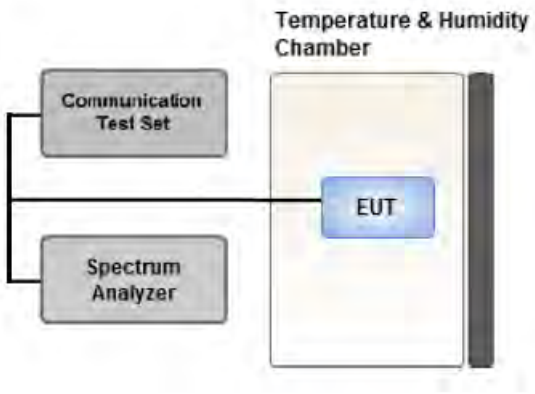
Test setup

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

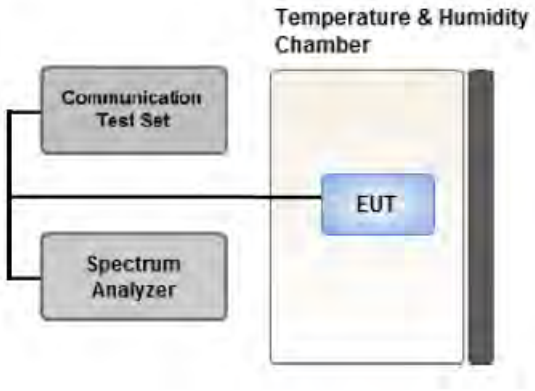
Test Overview

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

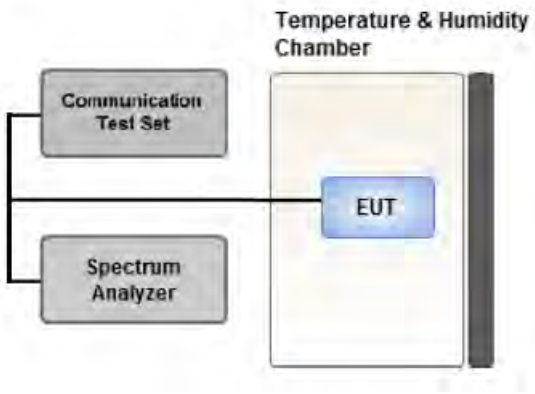
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2% of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. 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: SA Only
  Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
  Worst case : Stand alone
- We were performed the RSE test in condition of co-location.
  Mode : Stand alone, Simultaneous transmission scenarios
  Worst case : Stand alone
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.
- SM-F741U & additional models were tested and the worst case results are reported.
  (Worst case : SM-F741U)

[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 8.1		Y

[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 8.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.1		Z

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
  (Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode: SA Only
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.
- SM-F741U & additional models were tested and the worst case results are reported.
  (Worst case : SM-F741U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth Peak- to- Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	5, 10, 15, 20, 25, 30, 35, 40	Mid	Full RB	0
Channel Edge	PI/2 BPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	51
		15	Low	1	0
			High	1	78
		20	Low	1	0
			High	1	105
		25	Low	1	0
			High	1	132
		30	Low	1	0
			High	1	159
		35	Low	1	0
			High	1	187
		40	Low	1	0
			High	1	215
		5, 10, 15, 20, 25, 30, 35, 40	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	5, 10, 15, 20, 25, 30, 35, 40	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/16/2025	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/22/2024	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/22/2024	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/22/2024	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/22/2024	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/25/2024	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/04/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/22/2024	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/23/2024	Annual
SIGNAL GENERATOR (100 kHz~40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/24/2024	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/19/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

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

6. SUMMARY OF TEST RESULTS

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 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
2502.5	Sub6 n7/ 5 MHz [15 kHz]	PI/2 BPSK	-24.50	12.14	10.30	2.47	H	< 2.00	0.099	19.97	1	23
		QPSK	-24.56	12.08	10.30	2.47	H		0.098	19.91		
		16-QAM	-25.71	10.93	10.30	2.47	H		0.075	18.76		
		64-QAM	-27.03	9.61	10.30	2.47	H		0.056	17.44		
		256-QAM	-29.72	6.92	10.30	2.47	H		0.030	14.75		
2535.0		PI/2 BPSK	-24.00	12.25	10.30	2.52	H		0.101	20.03	1	1
		QPSK	-24.22	12.03	10.30	2.52	H		0.096	19.81		
		16-QAM	-24.92	11.33	10.30	2.52	H		0.081	19.11		
		64-QAM	-26.49	9.76	10.30	2.52	H		0.057	17.54		
		256-QAM	-29.07	7.18	10.30	2.52	H		0.031	14.96		
2567.5		PI/2 BPSK	-24.82	11.72	10.20	2.60	H		0.086	19.32	1	1
		QPSK	-24.83	11.71	10.20	2.60	H		0.085	19.31		
		16-QAM	-25.90	10.64	10.20	2.60	H		0.067	18.24		
		64-QAM	-27.33	9.21	10.20	2.60	H		0.048	16.81		
		256-QAM	-29.95	6.59	10.20	2.60	H		0.026	14.19		

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
2505.0	Sub6 n7/ 10 MHz [15 kHz]	PI/2 BPSK	-24.50	12.14	10.30	2.49	H	< 2.00	0.099	19.95	1	26
		QPSK	-24.62	12.02	10.30	2.49	H		0.096	19.83		
		16-QAM	-25.63	11.01	10.30	2.49	H		0.076	18.82		
		64-QAM	-27.02	9.62	10.30	2.49	H		0.055	17.43		
		256-QAM	-29.50	7.14	10.30	2.49	H		0.031	14.95		
2535.0		PI/2 BPSK	-23.90	12.35	10.30	2.52	H		0.103	20.13	1	1
		QPSK	-23.95	12.30	10.30	2.52	H		0.102	20.08		
		16-QAM	-25.06	11.19	10.30	2.52	H		0.079	18.97		
		64-QAM	-26.52	9.73	10.30	2.52	H		0.056	17.51		
		256-QAM	-29.13	7.12	10.30	2.52	H		0.031	14.90		
2565.0		PI/2 BPSK	-24.93	11.81	10.20	2.60	H		0.087	19.41	1	1
		QPSK	-25.13	11.61	10.20	2.60	H		0.083	19.21		
		16-QAM	-26.10	10.64	10.20	2.60	H		0.067	18.24		
		64-QAM	-27.57	9.17	10.20	2.60	H		0.048	16.77		
		256-QAM	-30.15	6.59	10.20	2.60	H		0.026	14.19		

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
2507.5	Sub6 n7/ 15 MHz [15 kHz]	PI/2 BPSK	-24.27	12.35	10.30	2.50	H	< 2.00	0.104	20.15	1	39
		QPSK	-24.42	12.20	10.30	2.50	H		0.100	20.00		
		16-QAM	-25.45	11.17	10.30	2.50	H		0.079	18.97		
		64-QAM	-26.78	9.84	10.30	2.50	H		0.058	17.64		
		256-QAM	-29.43	7.19	10.30	2.50	H		0.032	14.99		
2535.0		PI/2 BPSK	-23.65	12.60	10.30	2.52	H		0.109	20.38	1	1
		QPSK	-23.90	12.35	10.30	2.52	H		0.103	20.13		
		16-QAM	-24.95	11.30	10.30	2.52	H		0.081	19.08		
		64-QAM	-26.32	9.93	10.30	2.52	H		0.059	17.71		
		256-QAM	-28.85	7.40	10.30	2.52	H		0.033	15.18		
2562.5		PI/2 BPSK	-24.66	12.27	10.20	2.59	H		0.097	19.88	1	1
		QPSK	-24.72	12.21	10.20	2.59	H		0.096	19.82		
		16-QAM	-25.70	11.23	10.20	2.59	H		0.077	18.84		
		64-QAM	-27.25	9.68	10.20	2.59	H		0.054	17.29		
		256-QAM	-29.63	7.30	10.20	2.59	H		0.031	14.91		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2510.0	Sub6 n7/ 20 MHz [15 kHz]	PI/2 BPSK	-24.45	12.17	10.30	2.50	H	< 2.00	0.099	19.97	1	53
		QPSK	-24.52	12.10	10.30	2.50	H		0.098	19.90		
		16-QAM	-25.52	11.10	10.30	2.50	H		0.078	18.90		
		64-QAM	-26.89	9.73	10.30	2.50	H		0.057	17.53		
		256-QAM	-29.59	7.03	10.30	2.50	H		0.030	14.83		
2535.0		PI/2 BPSK	-23.82	12.43	10.30	2.52	H		0.105	20.21	1	1
		QPSK	-23.90	12.35	10.30	2.52	H		0.103	20.13		
		16-QAM	-24.84	11.41	10.30	2.52	H		0.083	19.19		
		64-QAM	-26.40	9.85	10.30	2.52	H		0.058	17.63		
		256-QAM	-28.85	7.40	10.30	2.52	H		0.033	15.18		
2560.0		PI/2 BPSK	-24.42	12.51	10.20	2.59	H		0.103	20.12	1	1
		QPSK	-24.50	12.43	10.20	2.59	H		0.101	20.04		
		16-QAM	-25.47	11.46	10.20	2.59	H		0.081	19.07		
		64-QAM	-26.84	10.09	10.20	2.59	H		0.059	17.70		
		256-QAM	-29.43	7.50	10.20	2.59	H		0.032	15.11		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2512.5	Sub6 n7/ 25 MHz [15 kHz]	PI/2 BPSK	-24.21	12.41	10.30	2.50	H	< 2.00	0.105	20.21	1	66
		QPSK	-24.25	12.37	10.30	2.50	H		0.104	20.17		
		16-QAM	-25.50	11.12	10.30	2.50	H		0.078	18.92		
		64-QAM	-26.71	9.91	10.30	2.50	H		0.059	17.71		
		256-QAM	-29.40	7.22	10.30	2.50	H		0.032	15.02		
2535.0		PI/2 BPSK	-23.72	12.53	10.30	2.52	H		0.107	20.31	1	1
		QPSK	-23.85	12.40	10.30	2.52	H		0.104	20.18		
		16-QAM	-24.70	11.55	10.30	2.52	H		0.086	19.33		
		64-QAM	-26.17	10.08	10.30	2.52	H		0.061	17.86		
		256-QAM	-28.74	7.51	10.30	2.52	H		0.034	15.29		
2557.5		PI/2 BPSK	-24.33	12.60	10.20	2.59	H		0.105	20.21	1	1
		QPSK	-24.40	12.53	10.20	2.59	H		0.103	20.14		
		16-QAM	-25.50	11.43	10.20	2.59	H		0.080	19.04		
		64-QAM	-26.74	10.19	10.20	2.59	H		0.060	17.80		
		256-QAM	-29.40	7.53	10.20	2.59	H		0.033	15.14		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2515.0	Sub6 n7/ 30 MHz [15 kHz]	PI/2 BPSK	-24.05	12.45	10.30	2.52	H	< 2.00	0.105	20.23	1	80
		QPSK	-24.10	12.40	10.30	2.52	H		0.104	20.18		
		16-QAM	-25.24	11.26	10.30	2.52	H		0.080	19.04		
		64-QAM	-26.44	10.06	10.30	2.52	H		0.061	17.84		
		256-QAM	-29.19	7.31	10.30	2.52	H		0.032	15.09		
2535.0		PI/2 BPSK	-23.57	12.68	10.30	2.52	H		0.111	20.46	1	1
		QPSK	-23.72	12.53	10.30	2.52	H		0.107	20.31		
		16-QAM	-24.70	11.55	10.30	2.52	H		0.086	19.33		
		64-QAM	-26.00	10.25	10.30	2.52	H		0.064	18.03		
		256-QAM	-28.67	7.58	10.30	2.52	H		0.034	15.36		
2555.0		PI/2 BPSK	-23.89	12.76	10.20	2.57	H		0.109	20.39	1	1
		QPSK	-23.98	12.67	10.20	2.57	H		0.107	20.30		
		16-QAM	-25.15	11.50	10.20	2.57	H		0.082	19.13		
		64-QAM	-26.58	10.07	10.20	2.57	H		0.059	17.70		
		256-QAM	-29.05	7.60	10.20	2.57	H		0.033	15.23		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2517.5	Sub6 n7/ 35 MHz [15 kHz]	PI/2 BPSK	-24.27	12.17	10.30	2.53	H	< 2.00	0.099	19.94	1	94
		QPSK	-24.51	11.93	10.30	2.53	H		0.093	19.70		
		16-QAM	-25.19	11.25	10.30	2.53	H		0.080	19.02		
		64-QAM	-26.66	9.78	10.30	2.53	H		0.057	17.55		
		256-QAM	-29.25	7.19	10.30	2.53	H		0.031	14.96		
2535.0		PI/2 BPSK	-23.80	12.45	10.30	2.52	H		0.105	20.23	1	1
		QPSK	-24.05	12.20	10.30	2.52	H		0.100	19.98		
		16-QAM	-24.83	11.42	10.30	2.52	H		0.083	19.20		
		64-QAM	-26.25	10.00	10.30	2.52	H		0.060	17.78		
		256-QAM	-28.75	7.50	10.30	2.52	H		0.034	15.28		
2552.5		PI/2 BPSK	-23.89	12.62	10.20	2.56	H		0.106	20.26	1	1
		QPSK	-24.04	12.47	10.20	2.56	H		0.103	20.11		
		16-QAM	-25.00	11.51	10.20	2.56	H		0.082	19.15		
		64-QAM	-26.33	10.18	10.20	2.56	H		0.061	17.82		
		256-QAM	-29.00	7.51	10.20	2.56	H		0.033	15.15		

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
2520.0	Sub6 n7/ 40 MHz [15 kHz]	PI/2 BPSK	-24.39	11.98	10.30	2.53	H	< 2.00	0.094	19.75	1	108
		QPSK	-24.52	11.85	10.30	2.53	H		0.092	19.62		
		16-QAM	-25.42	10.95	10.30	2.53	H		0.074	18.72		
		64-QAM	-26.85	9.52	10.30	2.53	H		0.054	17.29		
		256-QAM	-29.42	6.95	10.30	2.53	H		0.030	14.72		
2535.0		PI/2 BPSK	-23.80	12.45	10.30	2.52	H		0.105	20.23	1	1
		QPSK	-23.96	12.29	10.30	2.52	H		0.102	20.07		
		16-QAM	-24.85	11.40	10.30	2.52	H		0.083	19.18		
		64-QAM	-26.28	9.97	10.30	2.52	H		0.060	17.75		
		256-QAM	-28.82	7.43	10.30	2.52	H		0.033	15.21		
2550.0		PI/2 BPSK	-23.99	12.38	10.20	2.55	H		0.101	20.03	1	1
		QPSK	-24.12	12.25	10.20	2.55	H		0.098	19.90		
		16-QAM	-25.02	11.35	10.20	2.55	H		0.079	19.00		
		64-QAM	-26.50	9.87	10.20	2.55	H		0.057	17.52		
		256-QAM	-29.00	7.37	10.20	2.55	H		0.032	15.02		

8.2 RADIATED SPURIOUS EMISSIONS

▣ NR Band: N7

▣ Bandwidth: 5 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500500 (2502.5)	5 005.00	-62.11	10.70	-63.39	3.61	V	-56.30	-25.00	1	23
	7 507.50	-64.52	11.10	-57.45	4.50	V	-50.85			
	10 010.00	-58.37	11.20	-50.23	5.27	V	-44.30			
	12 512.50	-63.52	12.10	-54.21	6.04	V	-48.15			
	15 015.00	-58.40	13.80	-51.89	6.65	V	-44.74			
507000 (2535.0)	5 070.00	-61.69	10.70	-62.97	3.62	V	-55.89		1	1
	7 605.00	-63.34	11.20	-56.33	4.53	V	-49.65			
	10 140.00	-57.64	11.10	-47.98	5.31	V	-42.19			
	12 675.00	-60.97	11.90	-51.11	6.06	V	-45.27			
	15 210.00	-58.05	14.40	-53.33	6.67	V	-45.60			
513500 (2567.5)	5 135.00	-62.09	10.80	-63.66	3.62	V	-56.47		1	1
	7 702.50	-64.45	11.00	-57.38	4.57	V	-50.95			
	10 270.00	-61.03	11.00	-50.23	5.35	V	-44.58			
	12 837.50	-65.49	11.80	-55.35	6.06	V	-49.61			
	15 405.00	-58.15	15.30	-52.24	6.75	V	-43.69			

▣ NR Band: N7

▣ Bandwidth: 10 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501000 (2505.0)	5 010.00	-62.68	10.70	-63.89	3.59	V	-56.78	-25.00	1	26
	7 515.00	-64.08	11.10	-56.97	4.51	V	-50.38			
	10 020.00	-58.22	11.20	-49.13	5.28	H	-43.21			
	12 525.00	-63.14	12.10	-53.26	6.02	V	-47.18			
	15 030.00	-58.71	13.80	-52.39	6.64	V	-45.23			
507000 (2535.0)	5 070.00	-62.34	10.70	-63.62	3.62	V	-56.54		1	1
	7 605.00	-65.00	11.20	-57.99	4.53	V	-51.31			
	10 140.00	-58.06	11.10	-48.40	5.31	V	-42.61			
	12 675.00	-63.60	11.90	-53.74	6.06	V	-47.90			
	15 210.00	-59.53	14.40	-54.81	6.67	V	-47.08			
513000 (2565.0)	5 130.00	-62.08	10.80	-63.31	3.62	V	-56.13		1	1
	7 695.00	-63.44	11.05	-56.39	4.57	V	-49.91			
	10 260.00	-59.31	11.00	-48.95	5.35	H	-43.30			
	12 825.00	-64.93	11.80	-54.27	6.08	V	-48.55			
	15 390.00	-60.79	15.10	-54.78	6.75	V	-46.43			

▣ NR Band: N7

▣ Bandwidth: 15 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501500 (2507.5)	5 015.00	-63.29	10.70	-64.66	3.57	V	-57.53	-25.00	1	39
	7 522.50	-64.37	11.10	-57.23	4.51	V	-50.64			
	10 030.00	-59.08	11.20	-50.52	5.27	H	-44.59			
	12 537.50	-63.99	12.10	-54.14	6.00	V	-48.04			
	15 045.00	-57.71	13.90	-51.60	6.66	V	-44.36			
507000 (2535.0)	5 070.00	-62.89	10.70	-64.17	3.62	V	-57.09		1	1
	7 605.00	-65.67	11.20	-58.66	4.53	V	-51.98			
	10 140.00	-56.91	11.10	-47.25	5.31	V	-41.46			
	12 675.00	-63.77	11.90	-53.91	6.06	V	-48.07			
	15 210.00	-61.21	14.40	-56.49	6.67	V	-48.76			
512500 (2562.5)	5 125.00	-62.32	10.80	-63.46	3.63	V	-56.29		1	1
	7 687.50	-64.31	11.10	-57.28	4.57	V	-50.75			
	10 250.00	-58.35	11.00	-47.61	5.35	V	-41.96			
	12 812.50	-65.87	11.80	-54.72	6.10	V	-49.02			
	15 375.00	-60.86	15.10	-55.05	6.74	V	-46.69			

▣ NR Band: N7

▣ Bandwidth: 20 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502000 (2510.0)	5 020.00	-62.55	10.70	-64.08	3.55	V	-56.93	-25.00	1	53
	7 530.00	-65.54	11.10	-58.07	4.50	V	-51.47			
	10 040.00	-59.89	11.20	-50.63	5.26	H	-44.69			
	12 550.00	-63.28	12.10	-53.96	5.99	V	-47.85			
	15 060.00	-59.40	14.00	-53.59	6.65	V	-46.24			
507000 (2535.0)	5 070.00	-62.46	10.70	-63.74	3.62	V	-56.66		1	1
	7 605.00	-64.27	11.20	-57.26	4.53	V	-50.58			
	10 140.00	-58.10	11.10	-48.44	5.31	H	-42.65			
	12 675.00	-62.99	11.90	-53.13	6.06	V	-47.29			
	15 210.00	-60.18	14.40	-55.46	6.67	V	-47.73			
512000 (2560.0)	5 120.00	-58.94	10.80	-59.99	3.64	H	-52.83		1	1
	7 680.00	-63.78	11.10	-56.84	4.55	V	-50.29			
	10 240.00	-58.85	11.00	-48.94	5.33	H	-43.27			
	12 800.00	-65.55	11.80	-54.39	6.10	V	-48.69			
	15 360.00	-62.05	15.10	-56.52	6.72	V	-48.14			

▣ NR Band: N7

▣ Bandwidth: 25 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502500 (2512.5)	5 025.00	-61.96	10.70	-63.77	3.56	V	-56.63	-25.00	1	66
	7 537.50	-63.84	11.10	-56.36	4.50	V	-49.76			
	10 050.00	-58.30	11.10	-49.87	5.27	V	-44.04			
	12 562.50	-62.87	12.10	-53.56	6.01	V	-47.47			
	15 075.00	-57.11	14.00	-51.86	6.65	V	-44.51			
507000 (2535.0)	5 070.00	-61.34	10.70	-62.62	3.62	V	-55.54		1	1
	7 605.00	-64.98	11.20	-57.97	4.53	V	-51.29			
	10 140.00	-59.01	11.10	-49.35	5.31	V	-43.56			
	12 675.00	-63.82	11.90	-53.96	6.06	V	-48.12			
	15 210.00	-60.18	14.40	-55.46	6.67	V	-47.73			
511500 (2557.5)	5 115.00	-61.97	10.80	-63.16	3.66	V	-56.01		1	1
	7 672.50	-64.07	11.10	-56.89	4.54	V	-50.33			
	10 230.00	-59.00	11.00	-49.42	5.33	V	-43.75			
	12 787.50	-64.39	11.80	-53.54	6.12	V	-47.86			
	15 345.00	-60.09	15.00	-54.78	6.72	V	-46.50			

▣ NR Band: N7

▣ Bandwidth: 30 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503000 (2515.0)	5 030.00	-62.21	10.70	-64.31	3.56	V	-57.17	-25.00	1	80
	7 545.00	-64.97	11.10	-57.62	4.51	V	-51.03			
	10 060.00	-58.67	11.10	-49.88	5.27	V	-44.05			
	12 575.00	-63.61	12.10	-54.09	6.05	V	-48.04			
	15 090.00	-58.75	14.00	-53.61	6.66	V	-46.27			
507000 (2535.0)	5 070.00	-61.94	10.70	-63.22	3.62	V	-56.14		1	1
	7 605.00	-65.43	11.20	-58.42	4.53	V	-51.74			
	10 140.00	-58.87	11.10	-49.21	5.31	H	-43.42			
	12 675.00	-62.96	11.90	-53.10	6.06	V	-47.26			
	15 210.00	-59.58	14.40	-54.86	6.67	V	-47.13			
511000 (2555.0)	5 110.00	-62.52	10.80	-63.85	3.67	V	-56.72		1	1
	7 665.00	-64.37	11.10	-57.31	4.54	V	-50.75			
	10 220.00	-57.77	11.00	-47.79	5.32	H	-42.11			
	12 775.00	-63.80	11.80	-52.94	6.09	V	-47.22			
	15 330.00	-59.83	14.90	-54.66	6.71	V	-46.47			

▣ NR Band: N7

▣ Bandwidth: 35 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503500 (2517.5)	5 035.00	-63.15	10.70	-65.18	3.58	V	-58.06	-25.00	1	94
	7 552.50	-65.69	11.10	-58.59	4.51	V	-52.00			
	10 070.00	-58.68	11.10	-49.85	5.30	V	-44.05			
	12 587.50	-64.44	12.10	-54.76	6.06	V	-48.72			
	15 105.00	-61.07	14.10	-55.33	6.68	V	-47.91			
507000 (2535.0)	5 070.00	-62.52	10.70	-63.80	3.62	V	-56.72		1	1
	7 605.00	-65.10	11.20	-58.09	4.53	V	-51.41			
	10 140.00	-59.01	11.10	-49.35	5.31	V	-43.56			
	12 675.00	-63.95	11.90	-54.09	6.06	V	-48.25			
	15 210.00	-60.89	14.40	-56.17	6.67	V	-48.44			
510500 (2552.5)	5 105.00	-62.48	10.80	-64.10	3.66	V	-56.96		1	1
	7 657.50	-65.43	11.10	-58.54	4.53	V	-51.97			
	10 210.00	-57.11	11.00	-47.39	5.32	V	-41.71			
	12 762.50	-63.98	11.80	-52.96	6.07	V	-47.23			
	15 315.00	-59.35	14.90	-53.79	6.71	V	-45.60			

▣ NR Band: N7

▣ Bandwidth: 40 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504000 (2520.0)	5 040.00	-60.74	10.70	-62.71	3.60	V	-55.61	-25.00	1	108
	7 560.00	-64.62	11.10	-57.63	4.51	V	-51.04			
	10 080.00	-60.53	11.10	-51.48	5.29	H	-45.67			
	12 600.00	-64.26	12.00	-54.54	6.06	V	-48.60			
	15 120.00	-59.87	14.10	-53.78	6.68	V	-46.36			
507000 (2535.0)	5 070.00	-62.44	10.70	-63.72	3.62	V	-56.64		1	1
	7 605.00	-65.24	11.20	-58.23	4.53	V	-51.55			
	10 140.00	-58.57	11.10	-48.91	5.31	H	-43.12			
	12 675.00	-63.20	11.90	-53.34	6.06	V	-47.50			
	15 210.00	-58.28	14.40	-53.56	6.67	V	-45.83			
510000 (2550.0)	5 100.00	-62.71	10.80	-64.61	3.66	V	-57.47		1	1
	7 650.00	-63.68	11.10	-56.83	4.53	V	-50.26			
	10 200.00	-57.60	11.00	-47.17	5.33	V	-41.50			
	12 750.00	-62.51	11.80	-51.55	6.04	V	-45.79			
	15 300.00	-60.58	14.90	-54.48	6.72	V	-46.30			

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.17
			QPSK			4.72
			16-QAM			5.56
			64-QAM			6.19
			256-QAM			6.57
	10 MHz		BPSK	50		4.04
			QPSK			4.61
			16-QAM			5.47
			64-QAM			5.91
			256-QAM			6.57
	15 MHz		BPSK	75		3.96
			QPSK			4.47
			16-QAM			5.36
			64-QAM			5.80
			256-QAM			6.36
	20 MHz		BPSK	100		4.05
			QPSK			4.58
			16-QAM			5.52
			64-QAM			5.95
			256-QAM			6.64
	25 MHz		BPSK	128		3.99
			QPSK			4.65
			16-QAM			5.79
			64-QAM			6.13
			256-QAM			6.70
	30 MHz		BPSK	160		4.14
			QPSK			4.59
			16-QAM			5.42
			64-QAM			6.23
			256-QAM			6.72
	35 MHz		BPSK	180		4.15
			QPSK			4.65
			16-QAM			5.55
			64-QAM			6.00
			256-QAM			6.51
	40 MHz		BPSK	216		4.02
			QPSK			4.61
			16-QAM			5.56
			64-QAM			6.02
			256-QAM			6.92

Note:
1. Plots of the EUT's Peak- to- Average Ratio are shown Page 126 ~ 165.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.5092
			QPSK			4.5145
			16-QAM			4.4910
			64-QAM			4.5205
			256-QAM			4.5191
	10 MHz		BPSK	50		8.9737
			QPSK			8.9943
			16-QAM			9.0107
			64-QAM			8.9543
			256-QAM			8.9894
	15 MHz		BPSK	75		13.458
			QPSK			13.447
			16-QAM			13.489
			64-QAM			13.470
			256-QAM			13.490
	20 MHz		BPSK	100		17.962
			QPSK			17.940
			16-QAM			17.917
			64-QAM			17.916
			256-QAM			17.992
	25 MHz		BPSK	128		22.958
			QPSK			22.923
			16-QAM			22.973
			64-QAM			22.939
			256-QAM			22.911
	30 MHz		BPSK	160		28.728
			QPSK			28.796
			16-QAM			28.710
			64-QAM			28.654
			256-QAM			28.674
	35 MHz		BPSK	180		32.338
			QPSK			32.309
			16-QAM			32.263
			64-QAM			32.266
			256-QAM			32.399
	40 MHz		BPSK	216		38.735
			QPSK			38.774
			16-QAM			38.750
			64-QAM			38.637
			256-QAM			38.733

Note:
1. Plots of the EUT's Occupied Bandwidth are shown Page 86 ~ 125.

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 n7	5	2502.5	4.0544	30.200	-70.288	-40.088	-25.00
		2535.0	9.6999	30.815	-70.626	-39.811	
		2567.5	6.0424	30.815	-69.947	-39.132	
	10	2505.0	7.9891	30.815	-70.278	-39.463	
		2535.0	3.8341	30.200	-71.149	-40.949	
		2565.0	6.3051	30.815	-70.701	-39.886	
	15	2507.5	4.8779	30.200	-70.628	-40.428	
		2535.0	9.1481	30.815	-71.269	-40.454	
		2562.5	4.0499	30.200	-70.787	-40.587	
	20	2510.0	4.0195	30.200	-71.274	-41.074	
		2535.0	5.2259	30.815	-70.088	-39.273	
		2560.0	3.7184	30.200	-70.651	-40.451	
	25	2512.5	9.0962	30.815	-70.808	-70.808	
		2535.0	8.6316	30.815	-71.042	-71.042	
		2557.5	8.2852	30.815	-70.052	-70.052	
	30	2515.0	7.9796	30.815	-70.912	-40.097	
		2535.0	6.0195	30.815	-70.950	-40.135	
		2555.0	5.4881	30.815	-70.767	-39.952	
	35	2517.5	3.8002	30.200	-69.576	-39.376	
		2535.0	8.0025	30.815	-70.279	-39.464	
		2552.5	9.9766	30.815	-70.644	-39.829	
	40	2520.0	8.2632	30.815	-70.749	-39.934	
		2535.0	8.0180	30.815	-70.091	-39.276	
		2550.0	6.0230	30.815	-70.265	-39.450	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 222 ~ 269.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

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

8.6 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 500 MHz ~ 2 496 MHz	C.E ~ (C.E +1 MHz)	2 490.5 MHz ~ 2 496 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
5	2502.5	BPSK	Full RB	-21.43	-24.06	-37.61	-30.10	-44.57	-40.67	-35.42
10	2505.0	BPSK	Full RB	-27.13	-33.77	-32.69	-30.15	-38.17	-38.54	-36.97
15	2507.5	BPSK	Full RB	-28.67	-36.30	-34.16	-32.05	-35.28	-36.65	-39.50
20	2510.0	BPSK	Full RB	-29.89	-35.49	-34.47	-34.13	-34.02	-36.42	-39.32
25	2512.5	BPSK	Full RB	-30.42	-39.81	-37.32	-36.83	-35.91	-38.84	-43.05
30	2515.0	BPSK	Full RB	-29.24	-30.47	-39.94	-35.33	-39.55	-38.11	-43.82
35	2517.5	BPSK	Full RB	-28.50	-39.42	-36.07	-36.23	-38.90	-37.27	-47.53
40	2520.0	BPSK	Full RB	-17.85	-18.67	-35.33	-32.61	-35.58	-34.35	-44.17
Limit(dBm)				-10.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
				Lower	Upper	Lower	Upper
5	2535.0	BPSK	Full RB	-22.81	-24.39	-28.80	-27.97
	2567.5	BPSK	Full RB	-22.09	-25.32	-31.64	-30.74
10	2535.0	BPSK	Full RB	-26.41	-32.88	-33.45	-31.65
	2565.0	BPSK	Full RB	-26.01	-36.18	-31.26	-35.04
15	2535.0	BPSK	Full RB	-28.99	-38.12	-35.30	-33.14
	2562.5	BPSK	Full RB	-28.75	-38.97	-30.41	-34.57
20	2535.0	BPSK	Full RB	-28.99	-32.77	-33.74	-31.24
	2560.0	BPSK	Full RB	-28.01	-37.47	-31.27	-34.78
25	2535.0	BPSK	Full RB	-28.20	-35.64	-37.67	-33.84
	2557.5	BPSK	Full RB	-29.40	-36.99	-31.53	-34.28
30	2535.0	BPSK	Full RB	-28.40	-28.53	-36.47	-33.75
	2555.0	BPSK	Full RB	-29.01	-31.70	-32.88	-35.36
35	2535.0	BPSK	Full RB	-27.33	-35.06	-38.66	-33.05
	2552.5	BPSK	Full RB	-27.12	-45.06	-36.98	-37.80
40	2535.0	BPSK	Full RB	-16.82	-18.62	-35.59	-33.80
	2550.0	BPSK	Full RB	-17.81	-19.21	-33.40	-35.91
Limi(dBm)				-10.0		-10.0	

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
				Lower	Upper	Lower	Upper
5	2535.0	BPSK	Full RB	-37.49	-37.16	-34.97	-34.08
	2567.5	BPSK	Full RB	-39.67	-40.84	-36.05	-36.17
10	2535.0	BPSK	Full RB	-37.77	-33.39	-36.50	-36.32
	2565.0	BPSK	Full RB	-34.43	-35.26	-37.17	-39.81
15	2535.0	BPSK	Full RB	-37.44	-32.38	-41.05	-39.88
	2562.5	BPSK	Full RB	-30.63	-35.70	-40.17	-45.80
20	2535.0	BPSK	Full RB	-35.60	-32.01	-41.83	-40.09
	2560.0	BPSK	Full RB	-32.87	-39.82	-41.58	-53.26
25	2535.0	BPSK	Full RB	-37.21	-31.97	-47.67	-41.50
	2557.5	BPSK	Full RB	-34.29	-36.19	-47.63	-54.55
30	2535.0	BPSK	Full RB	-36.90	-32.46	-48.62	-44.26
	2555.0	BPSK	Full RB	-35.44	-36.19	-46.28	-54.76
35	2535.0	BPSK	Full RB	-35.94	-32.74	-47.18	-48.09
	2552.5	BPSK	Full RB	-36.17	-37.98	-49.18	-54.62
40	2535.0	BPSK	Full RB	-40.46	-33.76	-55.04	-53.72
	2550.0	BPSK	Full RB	-32.59	-34.88	-48.80	-54.62
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) = Cable Loss + Ext. Attenuator + Power Splitter
   - Result(dBm) = Reading + Factor
4. Plots of the EUT's Channel Edge are shown Page 166 ~ 221.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ BandWidth: 5 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2502.500	100 %	+20(Ref)	2502 499 995	0.0	0.000 000	0.000
	100 %	-30	2502 499 989	-5.7	0.000 000	-0.002
	100 %	-20	2502 499 989	-6.1	0.000 000	-0.002
	100 %	-10	2502 499 989	-5.2	0.000 000	-0.002
	100 %	0	2502 499 989	-5.7	0.000 000	-0.002
	100 %	+10	2502 499 990	-5.0	0.000 000	-0.002
	100 %	+30	2502 499 990	-4.2	0.000 000	-0.002
	100 %	+40	2502 499 989	-5.4	0.000 000	-0.002
	100 %	+50	2502 499 988	-6.5	0.000 000	-0.003
	Batt. Endpoint	+20	2502 499 987	-7.3	0.000 000	-0.003
2567.500	100 %	+20(Ref)	2567 499 997	0.0	0.000 000	0.000
	100 %	-30	2567 499 996	-1.3	0.000 000	-0.001
	100 %	-20	2567 499 995	-2.5	0.000 000	-0.001
	100 %	-10	2567 499 994	-3.3	0.000 000	-0.001
	100 %	0	2567 499 995	-2.7	0.000 000	-0.001
	100 %	+10	2567 499 995	-2.5	0.000 000	-0.001
	100 %	+30	2567 499 995	-2.3	0.000 000	-0.001
	100 %	+40	2567 499 995	-2.3	0.000 000	-0.001
	100 %	+50	2567 499 993	-4.0	0.000 000	-0.002
	Batt. Endpoint	+20	2567 499 995	-2.2	0.000 000	-0.001

▣ BandWidth: 10 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2505.000	100 %	+20(Ref)	2505 000 003	0.0	0.000 000	0.000
	100 %	-30	2505 000 005	2.1	0.000 000	0.001
	100 %	-20	2505 000 005	2.4	0.000 000	0.001
	100 %	-10	2505 000 005	2.7	0.000 000	0.001
	100 %	0	2505 000 004	1.3	0.000 000	0.001
	100 %	+10	2505 000 006	3.1	0.000 000	0.001
	100 %	+30	2505 000 004	1.4	0.000 000	0.001
	100 %	+40	2505 000 006	3.2	0.000 000	0.001
	100 %	+50	2505 000 006	3.2	0.000 000	0.001
	Batt. Endpoint	+20	2505 000 004	1.0	0.000 000	0.000
2565.000	100 %	+20(Ref)	2565 000 000	0.0	0.000 000	0.000
	100 %	-30	2564 999 999	-0.9	0.000 000	0.000
	100 %	-20	2565 000 001	1.4	0.000 000	0.001
	100 %	-10	2565 000 000	0.3	0.000 000	0.000
	100 %	0	2565 000 000	0.7	0.000 000	0.000
	100 %	+10	2565 000 000	0.0	0.000 000	0.000
	100 %	+30	2565 000 002	2.4	0.000 000	0.001
	100 %	+40	2565 000 000	0.1	0.000 000	0.000
	100 %	+50	2565 000 000	0.6	0.000 000	0.000
	Batt. Endpoint	+20	2565 000 000	0.0	0.000 000	0.000

▣ 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	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2507.500	100 %	+20(Ref)	2507 500 000	0.0	0.000 000	0.000
	100 %	-30	2507 500 003	2.9	0.000 000	0.001
	100 %	-20	2507 500 002	1.8	0.000 000	0.001
	100 %	-10	2507 500 004	3.5	0.000 000	0.001
	100 %	0	2507 500 003	2.7	0.000 000	0.001
	100 %	+10	2507 500 004	3.3	0.000 000	0.001
	100 %	+30	2507 500 002	1.8	0.000 000	0.001
	100 %	+40	2507 500 003	2.8	0.000 000	0.001
	100 %	+50	2507 500 002	2.0	0.000 000	0.001
	Batt. Endpoint	+20	2507 500 002	2.3	0.000 000	0.001
2562.500	100 %	+20(Ref)	2562 500 001	0.0	0.000 000	0.000
	100 %	-30	2562 500 003	2.1	0.000 000	0.001
	100 %	-20	2562 500 003	1.9	0.000 000	0.001
	100 %	-10	2562 500 005	4.0	0.000 000	0.002
	100 %	0	2562 500 003	2.4	0.000 000	0.001
	100 %	+10	2562 500 002	1.2	0.000 000	0.000
	100 %	+30	2562 500 004	3.2	0.000 000	0.001
	100 %	+40	2562 500 004	3.3	0.000 000	0.001
	100 %	+50	2562 500 003	2.0	0.000 000	0.001
	Batt. Endpoint	+20	2562 500 004	2.7	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	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2510.000	100 %	+20(Ref)	2509 999 996	0.0	0.000 000	0.000
	100 %	-30	2509 999 994	-1.9	0.000 000	-0.001
	100 %	-20	2509 999 994	-1.6	0.000 000	-0.001
	100 %	-10	2509 999 993	-2.7	0.000 000	-0.001
	100 %	0	2509 999 994	-2.0	0.000 000	-0.001
	100 %	+10	2509 999 993	-2.8	0.000 000	-0.001
	100 %	+30	2509 999 994	-1.9	0.000 000	-0.001
	100 %	+40	2509 999 994	-1.5	0.000 000	-0.001
	100 %	+50	2509 999 995	-1.3	0.000 000	-0.001
	Batt. Endpoint	+20	2509 999 994	-1.7	0.000 000	-0.001
2560.000	100 %	+20(Ref)	2560 000 001	0.0	0.000 000	0.000
	100 %	-30	2560 000 003	1.7	0.000 000	0.001
	100 %	-20	2560 000 004	2.7	0.000 000	0.001
	100 %	-10	2560 000 003	1.5	0.000 000	0.001
	100 %	0	2560 000 002	1.2	0.000 000	0.000
	100 %	+10	2560 000 002	0.4	0.000 000	0.000
	100 %	+30	2560 000 004	2.5	0.000 000	0.001
	100 %	+40	2560 000 005	3.6	0.000 000	0.001
	100 %	+50	2560 000 001	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	2560 000 001	0.3	0.000 000	0.000

▣ BandWidth: 25 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2512.500	100 %	+20(Ref)	2512 500 009	0.0	0.000 000	0.000
	100 %	-30	2512 500 016	7.4	0.000 000	0.003
	100 %	-20	2512 500 017	8.4	0.000 000	0.003
	100 %	-10	2512 500 017	7.9	0.000 000	0.003
	100 %	0	2512 500 016	6.9	0.000 000	0.003
	100 %	+10	2512 500 016	7.7	0.000 000	0.003
	100 %	+30	2512 500 018	8.8	0.000 000	0.004
	100 %	+40	2512 500 016	7.5	0.000 000	0.003
	100 %	+50	2512 500 016	7.0	0.000 000	0.003
	Batt. Endpoint	+20	2512 500 017	8.1	0.000 000	0.003
2557.500	100 %	+20(Ref)	2557 500 009	0.0	0.000 000	0.000
	100 %	-30	2557 500 018	9.0	0.000 000	0.004
	100 %	-20	2557 500 018	8.6	0.000 000	0.003
	100 %	-10	2557 500 019	9.0	0.000 000	0.004
	100 %	0	2557 500 019	9.5	0.000 000	0.004
	100 %	+10	2557 500 019	9.8	0.000 000	0.004
	100 %	+30	2557 500 020	10.3	0.000 000	0.004
	100 %	+40	2557 500 017	7.4	0.000 000	0.003
	100 %	+50	2557 500 018	8.1	0.000 000	0.003
	Batt. Endpoint	+20	2557 500 016	6.3	0.000 000	0.002

▣ BandWidth: 30 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2515.000	100 %	+20(Ref)	2515 000 004	0.0	0.000 000	0.000
	100 %	-30	2515 000 009	4.8	0.000 000	0.002
	100 %	-20	2515 000 010	5.8	0.000 000	0.002
	100 %	-10	2515 000 008	4.3	0.000 000	0.002
	100 %	0	2515 000 011	6.7	0.000 000	0.003
	100 %	+10	2515 000 009	5.6	0.000 000	0.002
	100 %	+30	2515 000 009	5.2	0.000 000	0.002
	100 %	+40	2515 000 010	6.2	0.000 000	0.002
	100 %	+50	2515 000 011	7.2	0.000 000	0.003
	Batt. Endpoint	+20	2515 000 010	6.0	0.000 000	0.002
2555.000	100 %	+20(Ref)	2555 000 004	0.0	0.000 000	0.000
	100 %	-30	2555 000 008	3.9	0.000 000	0.002
	100 %	-20	2555 000 006	1.4	0.000 000	0.001
	100 %	-10	2555 000 007	2.7	0.000 000	0.001
	100 %	0	2555 000 006	1.7	0.000 000	0.001
	100 %	+10	2555 000 007	2.5	0.000 000	0.001
	100 %	+30	2555 000 007	2.3	0.000 000	0.001
	100 %	+40	2555 000 008	3.1	0.000 000	0.001
	100 %	+50	2555 000 008	3.9	0.000 000	0.002
	Batt. Endpoint	+20	2555 000 008	3.9	0.000 000	0.002

▣ BandWidth: 35 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2517.500	100 %	+20(Ref)	2517 500 009	0.0	0.000 000	0.000
	100 %	-30	2517 500 016	7.4	0.000 000	0.003
	100 %	-20	2517 500 015	6.3	0.000 000	0.002
	100 %	-10	2517 500 016	7.4	0.000 000	0.003
	100 %	0	2517 500 016	7.7	0.000 000	0.003
	100 %	+10	2517 500 014	5.4	0.000 000	0.002
	100 %	+30	2517 500 014	5.0	0.000 000	0.002
	100 %	+40	2517 500 014	5.1	0.000 000	0.002
	100 %	+50	2517 500 015	6.3	0.000 000	0.003
	Batt. Endpoint	+20	2517 500 016	7.7	0.000 000	0.003
2552.500	100 %	+20(Ref)	2552 500 009	0.0	0.000 000	0.000
	100 %	-30	2552 500 015	5.9	0.000 000	0.002
	100 %	-20	2552 500 016	7.8	0.000 000	0.003
	100 %	-10	2552 500 016	7.8	0.000 000	0.003
	100 %	0	2552 500 016	7.6	0.000 000	0.003
	100 %	+10	2552 500 019	10.0	0.000 000	0.004
	100 %	+30	2552 500 016	7.4	0.000 000	0.003
	100 %	+40	2552 500 016	7.8	0.000 000	0.003
	100 %	+50	2552 500 016	7.6	0.000 000	0.003
	Batt. Endpoint	+20	2552 500 015	6.1	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	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2520.000	100 %	+20(Ref)	2520 000 005	0.0	0.000 000	0.000
	100 %	-30	2520 000 007	2.4	0.000 000	0.001
	100 %	-20	2520 000 008	3.6	0.000 000	0.001
	100 %	-10	2520 000 009	3.9	0.000 000	0.002
	100 %	0	2520 000 008	2.8	0.000 000	0.001
	100 %	+10	2520 000 008	3.7	0.000 000	0.001
	100 %	+30	2520 000 008	2.8	0.000 000	0.001
	100 %	+40	2520 000 008	3.4	0.000 000	0.001
	100 %	+50	2520 000 006	1.3	0.000 000	0.001
	Batt. Endpoint	+20	2520 000 009	4.5	0.000 000	0.002
2550.000	100 %	+20(Ref)	2550 000 004	0.0	0.000 000	0.000
	100 %	-30	2550 000 008	4.1	0.000 000	0.002
	100 %	-20	2550 000 011	6.9	0.000 000	0.003
	100 %	-10	2550 000 009	4.9	0.000 000	0.002
	100 %	0	2550 000 010	5.8	0.000 000	0.002
	100 %	+10	2550 000 011	6.9	0.000 000	0.003
	100 %	+30	2550 000 012	8.3	0.000 000	0.003
	100 %	+40	2550 000 007	3.0	0.000 000	0.001
	100 %	+50	2550 000 009	4.8	0.000 000	0.002
	Batt. Endpoint	+20	2550 000 009	5.1	0.000 000	0.002

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
2502.5	Sub6 n7/ 5 MHz [15 kHz]	PI/2 BPSK	-21.78	14.86	10.30	2.47	H	< 2.00	0.186	22.69	1	23
		QPSK	-21.80	14.84	10.30	2.47	H		0.185	22.67		
		16-QAM	-22.71	13.93	10.30	2.47	H		0.150	21.76		
		64-QAM	-24.15	12.49	10.30	2.47	H		0.108	20.32		
		256-QAM	-26.76	9.88	10.30	2.47	H		0.059	17.71		
2535.0		PI/2 BPSK	-20.61	15.64	10.30	2.52	H		0.220	23.42	1	12
		QPSK	-20.62	15.63	10.30	2.52	H		0.219	23.41		
		16-QAM	-21.78	14.47	10.30	2.52	H		0.168	22.25		
		64-QAM	-23.23	13.02	10.30	2.52	H		0.120	20.80		
		256-QAM	-25.77	10.48	10.30	2.52	H		0.067	18.26		
2567.5		PI/2 BPSK	-21.05	15.49	10.20	2.60	H		0.204	23.09	1	1
		QPSK	-21.09	15.45	10.20	2.60	H		0.202	23.05		
		16-QAM	-22.13	14.41	10.20	2.60	H		0.159	22.01		
		64-QAM	-23.57	12.97	10.20	2.60	H		0.114	20.57		
		256-QAM	-26.17	10.37	10.20	2.60	H		0.063	17.97		

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
2505.0	Sub6 n7/ 10 MHz [15 kHz]	PI/2 BPSK	-21.16	15.48	10.30	2.49	H	< 2.00	0.213	23.29	1	50
		QPSK	-21.28	15.36	10.30	2.49	H		0.207	23.17		
		16-QAM	-22.34	14.30	10.30	2.49	H		0.163	22.11		
		64-QAM	-23.70	12.94	10.30	2.49	H		0.119	20.75		
		256-QAM	-26.28	10.36	10.30	2.49	H		0.066	18.17		
2535.0		PI/2 BPSK	-20.60	15.65	10.30	2.52	H		0.220	23.43	1	26
		QPSK	-20.61	15.64	10.30	2.52	H		0.220	23.42		
		16-QAM	-21.60	14.65	10.30	2.52	H		0.175	22.43		
		64-QAM	-22.99	13.26	10.30	2.52	H		0.127	21.04		
		256-QAM	-25.65	10.60	10.30	2.52	H		0.069	18.38		
2565.0		PI/2 BPSK	-20.82	15.92	10.20	2.60	H		0.225	23.52	1	26
		QPSK	-20.84	15.90	10.20	2.60	H		0.224	23.50		
		16-QAM	-21.96	14.78	10.20	2.60	H		0.173	22.38		
		64-QAM	-23.39	13.35	10.20	2.60	H		0.124	20.95		
		256-QAM	-25.98	10.76	10.20	2.60	H		0.069	18.36		

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
2507.5	Sub6 n7/ 15 MHz [15 kHz]	PI/2 BPSK	-20.80	15.82	10.30	2.50	H	< 2.00	0.230	23.62	1	77
		QPSK	-20.95	15.67	10.30	2.50	H		0.222	23.47		
		16-QAM	-22.05	14.57	10.30	2.50	H		0.173	22.37		
		64-QAM	-23.31	13.31	10.30	2.50	H		0.129	21.11		
		256-QAM	-25.92	10.70	10.30	2.50	H		0.071	18.50		
2535.0		PI/2 BPSK	-20.55	15.70	10.30	2.52	H		0.223	23.48	1	77
		QPSK	-20.68	15.57	10.30	2.52	H		0.217	23.35		
		16-QAM	-21.75	14.50	10.30	2.52	H		0.169	22.28		
		64-QAM	-23.21	13.04	10.30	2.52	H		0.121	20.82		
		256-QAM	-25.69	10.56	10.30	2.52	H		0.068	18.34		
2562.5		PI/2 BPSK	-20.89	16.04	10.20	2.59	H		0.232	23.65	1	1
		QPSK	-20.94	15.99	10.20	2.59	H		0.229	23.60		
		16-QAM	-21.95	14.98	10.20	2.59	H		0.182	22.59		
		64-QAM	-23.44	13.49	10.20	2.59	H		0.129	21.10		
		256-QAM	-25.95	10.98	10.20	2.59	H		0.072	18.59		

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
2510.0	Sub6 n7/ 20 MHz [15 kHz]	PI/2 BPSK	-20.83	15.79	10.30	2.50	H	< 2.00	0.229	23.59	1	104
		QPSK	-20.84	15.78	10.30	2.50	H		0.228	23.58		
		16-QAM	-21.95	14.67	10.30	2.50	H		0.177	22.47		
		64-QAM	-23.28	13.34	10.30	2.50	H		0.130	21.14		
		256-QAM	-25.89	10.73	10.30	2.50	H		0.071	18.53		
2535.0		PI/2 BPSK	-20.56	15.69	10.30	2.52	H		0.222	23.47	1	53
		QPSK	-20.58	15.67	10.30	2.52	H		0.221	23.45		
		16-QAM	-21.77	14.48	10.30	2.52	H		0.168	22.26		
		64-QAM	-23.07	13.18	10.30	2.52	H		0.125	20.96		
		256-QAM	-25.75	10.50	10.30	2.52	H		0.067	18.28		
2560.0		PI/2 BPSK	-20.90	16.03	10.20	2.59	H		0.231	23.64	1	1
		QPSK	-20.93	16.00	10.20	2.59	H		0.230	23.61		
		16-QAM	-22.06	14.87	10.20	2.59	H		0.177	22.48		
		64-QAM	-23.40	13.53	10.20	2.59	H		0.130	21.14		
		256-QAM	-26.10	10.83	10.20	2.59	H		0.070	18.44		

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
2512.5	Sub6 n7/ 25 MHz [15 kHz]	PI/2 BPSK	-20.58	16.04	10.30	2.50	H	< 2.00	0.242	23.84	1	131
		QPSK	-20.63	15.99	10.30	2.50	H		0.239	23.79		
		16-QAM	-21.70	14.92	10.30	2.50	H		0.187	22.72		
		64-QAM	-23.02	13.60	10.30	2.50	H		0.138	21.40		
		256-QAM	-25.70	10.92	10.30	2.50	H		0.074	18.72		
2535.0		PI/2 BPSK	-20.53	15.72	10.30	2.52	H		0.224	23.50	1	66
		QPSK	-20.55	15.70	10.30	2.52	H		0.223	23.48		
		16-QAM	-21.77	14.48	10.30	2.52	H		0.168	22.26		
		64-QAM	-23.06	13.19	10.30	2.52	H		0.125	20.97		
		256-QAM	-25.63	10.62	10.30	2.52	H		0.069	18.40		
2557.5		PI/2 BPSK	-20.98	15.95	10.20	2.59	H		0.227	23.56	1	1
		QPSK	-21.01	15.92	10.20	2.59	H		0.225	23.53		
		16-QAM	-22.10	14.83	10.20	2.59	H		0.175	22.44		
		64-QAM	-23.32	13.61	10.20	2.59	H		0.132	21.22		
		256-QAM	-26.05	10.88	10.20	2.59	H		0.071	18.49		

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
2515.0	Sub6 n7/ 30 MHz [15 kHz]	PI/2 BPSK	-20.57	15.93	10.30	2.52	H	< 2.00	0.235	23.71	1	158
		QPSK	-20.58	15.92	10.30	2.52	H		0.234	23.70		
		16-QAM	-21.69	14.81	10.30	2.52	H		0.182	22.59		
		64-QAM	-23.16	13.34	10.30	2.52	H		0.129	21.12		
		256-QAM	-25.70	10.80	10.30	2.52	H		0.072	18.58		
2535.0		PI/2 BPSK	-20.53	15.72	10.30	2.52	H		0.224	23.50	1	80
		QPSK	-20.56	15.69	10.30	2.52	H		0.222	23.47		
		16-QAM	-21.69	14.56	10.30	2.52	H		0.172	22.34		
		64-QAM	-23.02	13.23	10.30	2.52	H		0.126	21.01		
		256-QAM	-25.60	10.65	10.30	2.52	H		0.070	18.43		
2555.0		PI/2 BPSK	-20.68	15.97	10.20	2.57	H		0.229	23.60	1	1
		QPSK	-20.74	15.91	10.20	2.57	H		0.226	23.54		
		16-QAM	-21.92	14.73	10.20	2.57	H		0.172	22.36		
		64-QAM	-23.18	13.47	10.20	2.57	H		0.129	21.10		
		256-QAM	-25.77	10.88	10.20	2.57	H		0.071	18.51		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2517.5	Sub6 n7/ 35 MHz [15 kHz]	PI/2 BPSK	-20.78	15.66	10.30	2.53	H	< 2.00	0.220	23.43	1	186
		QPSK	-20.82	15.62	10.30	2.53	H		0.218	23.39		
		16-QAM	-21.82	14.62	10.30	2.53	H		0.173	22.39		
		64-QAM	-23.15	13.29	10.30	2.53	H		0.128	21.06		
		256-QAM	-25.87	10.57	10.30	2.53	H		0.068	18.34		
2535.0		PI/2 BPSK	-20.56	15.69	10.30	2.52	H		0.222	23.47	1	94
		QPSK	-20.58	15.67	10.30	2.52	H		0.221	23.45		
		16-QAM	-21.75	14.50	10.30	2.52	H		0.169	22.28		
		64-QAM	-23.07	13.18	10.30	2.52	H		0.125	20.96		
		256-QAM	-25.75	10.50	10.30	2.52	H		0.067	18.28		
2552.5		PI/2 BPSK	-20.77	15.74	10.20	2.56	H		0.218	23.38	1	1
		QPSK	-20.85	15.66	10.20	2.56	H		0.214	23.30		
		16-QAM	-21.82	14.69	10.20	2.56	H		0.171	22.33		
		64-QAM	-23.06	13.45	10.20	2.56	H		0.129	21.09		
		256-QAM	-25.73	10.78	10.20	2.56	H		0.070	18.42		

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
2520.0	Sub6 n7/ 40 MHz [15 kHz]	PI/2 BPSK	-20.88	15.49	10.30	2.53	H	< 2.00	0.212	23.26	1	214
		QPSK	-20.89	15.48	10.30	2.53	H		0.211	23.25		
		16-QAM	-22.00	14.37	10.30	2.53	H		0.164	22.14		
		64-QAM	-23.34	13.03	10.30	2.53	H		0.120	20.80		
		256-QAM	-25.90	10.47	10.30	2.53	H		0.067	18.24		
2535.0		PI/2 BPSK	-20.64	15.61	10.30	2.52	H		0.219	23.39	1	108
		QPSK	-20.65	15.60	10.30	2.52	H		0.218	23.38		
		16-QAM	-21.68	14.57	10.30	2.52	H		0.172	22.35		
		64-QAM	-23.12	13.13	10.30	2.52	H		0.123	20.91		
		256-QAM	-25.82	10.43	10.30	2.52	H		0.066	18.21		
2550.0		PI/2 BPSK	-20.71	15.66	10.20	2.55	H		0.214	23.31	1	108
		QPSK	-20.82	15.55	10.20	2.55	H		0.209	23.20		
		16-QAM	-21.77	14.60	10.20	2.55	H		0.168	22.25		
		64-QAM	-23.04	13.33	10.20	2.55	H		0.125	20.98		
		256-QAM	-25.57	10.80	10.20	2.55	H		0.070	18.45		

9.2 RADIATED SPURIOUS EMISSIONS

▣ NR Band: N7

▣ Bandwidth: 5 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500500 (2502.5)	5 005.00	-62.17	10.70	-63.45	3.61	V	-56.36	-25.00	1	23
	7 507.50	-53.72	11.10	-46.65	4.50	H	-40.05			
	10 010.00	-61.80	11.20	-53.66	5.27	V	-47.73			
	12 512.50	-63.52	12.10	-54.21	6.04	V	-48.15			
	15 015.00	-58.80	13.80	-52.29	6.65	V	-45.14			
507000 (2535.0)	5 070.00	-61.14	10.70	-62.42	3.62	V	-55.34		1	12
	7 605.00	-52.81	11.20	-45.80	4.53	H	-39.12			
	10 140.00	-63.90	11.10	-54.24	5.31	V	-48.45			
	12 675.00	-62.91	11.90	-53.05	6.06	V	-47.21			
	15 210.00	-61.20	14.40	-56.48	6.67	V	-48.75			
513500 (2567.5)	5 135.00	-61.90	10.80	-63.47	3.62	V	-56.28		1	1
	7 702.50	-54.87	11.00	-47.80	4.57	H	-41.37			
	10 270.00	-63.57	11.00	-52.77	5.35	V	-47.12			
	12 837.50	-65.41	11.80	-55.27	6.06	V	-49.53			
	15 405.00	-59.78	15.30	-53.87	6.75	V	-45.32			

▣ NR Band: N7

▣ Bandwidth: 10 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501000 (2505.0)	5 010.00	-62.22	10.70	-63.43	3.59	V	-56.32	-25.00	1	50
	7 515.00	-55.39	11.10	-48.28	4.51	H	-41.69			
	10 020.00	-61.58	11.20	-52.49	5.28	V	-46.57			
	12 525.00	-62.50	12.10	-52.62	6.02	V	-46.54			
	15 030.00	-56.96	13.80	-50.64	6.64	V	-43.48			
507000 (2535.0)	5 070.00	-61.72	10.70	-63.00	3.62	V	-55.92		1	26
	7 605.00	-54.05	11.20	-47.04	4.53	H	-40.36			
	10 140.00	-62.83	11.10	-53.17	5.31	V	-47.38			
	12 675.00	-62.12	11.90	-52.26	6.06	V	-46.42			
	15 210.00	-59.73	14.40	-55.01	6.67	V	-47.28			
513000 (2565.0)	5 130.00	-61.02	10.80	-62.25	3.62	V	-55.07		1	26
	7 695.00	-55.92	11.05	-48.87	4.57	H	-42.39			
	10 260.00	-64.41	11.00	-54.05	5.35	V	-48.40			
	12 825.00	-65.22	11.80	-54.56	6.08	V	-48.84			
	15 390.00	-60.52	15.10	-54.51	6.75	V	-46.16			

▣ NR Band: N7

▣ Bandwidth: 15 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501500 (2507.5)	5 015.00	-62.19	10.70	-63.56	3.57	V	-56.43	-25.00	1	77
	7 522.50	-53.39	11.10	-46.25	4.51	H	-39.66			
	10 030.00	-61.49	11.20	-52.93	5.27	V	-47.00			
	12 537.50	-62.08	12.10	-52.23	6.00	V	-46.13			
	15 045.00	-57.58	13.90	-51.47	6.66	V	-44.23			
507000 (2535.0)	5 070.00	-62.11	10.70	-63.39	3.62	V	-56.31		1	77
	7 605.00	-48.25	11.20	-41.24	4.53	H	-34.56			
	10 140.00	-62.56	11.10	-52.90	5.31	V	-47.11			
	12 675.00	-61.99	11.90	-52.13	6.06	V	-46.29			
	15 210.00	-59.59	14.40	-54.87	6.67	V	-47.14			
512500 (2562.5)	5 125.00	-61.22	10.80	-62.36	3.63	V	-55.19		1	1
	7 687.50	-55.72	11.10	-48.69	4.57	H	-42.16			
	10 250.00	-63.23	11.00	-52.49	5.35	V	-46.84			
	12 812.50	-64.43	11.80	-53.28	6.10	V	-47.58			
	15 375.00	-60.28	15.10	-54.47	6.74	V	-46.11			

▣ NR Band: N7

▣ Bandwidth: 20 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502000 (2510.0)	5 020.00	-63.77	10.70	-65.30	3.55	V	-58.15	-25.00	1	104
	7 530.00	-54.77	11.10	-47.30	4.50	H	-40.70			
	10 040.00	-63.42	11.20	-54.16	5.26	V	-48.22			
	12 550.00	-65.18	12.10	-55.86	5.99	V	-49.75			
	15 060.00	-60.24	14.00	-54.43	6.65	V	-47.08			
507000 (2535.0)	5 070.00	-60.28	10.70	-61.56	3.62	V	-54.48		1	53
	7 605.00	-54.13	11.20	-47.12	4.53	H	-40.44			
	10 140.00	-64.05	11.10	-54.39	5.31	V	-48.60			
	12 675.00	-63.89	11.90	-54.03	6.06	V	-48.19			
	15 210.00	-61.70	14.40	-56.98	6.67	V	-49.25			
512000 (2560.0)	5 120.00	-61.65	10.80	-62.70	3.64	V	-55.54		1	1
	7 680.00	-50.54	11.10	-43.60	4.55	H	-37.05			
	10 240.00	-63.94	11.00	-54.03	5.33	V	-48.36			
	12 800.00	-65.34	11.80	-54.18	6.10	V	-48.48			
	15 360.00	-62.35	15.10	-56.82	6.72	V	-48.44			

▣ NR Band: N7

▣ Bandwidth: 25 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502500 (2512.5)	5 025.00	-62.76	10.70	-64.57	3.56	V	-57.43	-25.00	1	131
	7 537.50	-57.63	11.10	-50.15	4.50	H	-43.55			
	10 050.00	-63.41	11.10	-54.98	5.27	V	-49.15			
	12 562.50	-63.72	12.10	-54.41	6.01	V	-48.32			
	15 075.00	-59.47	14.00	-54.22	6.65	V	-46.87			
507000 (2535.0)	5 070.00	-60.23	10.70	-61.51	3.62	V	-54.43		1	66
	7 605.00	-56.39	11.20	-49.38	4.53	H	-42.70			
	10 140.00	-63.77	11.10	-54.11	5.31	V	-48.32			
	12 675.00	-62.84	11.90	-52.98	6.06	V	-47.14			
	15 210.00	-60.32	14.40	-55.60	6.67	V	-47.87			
511500 (2557.5)	5 115.00	-63.15	10.80	-64.34	3.66	V	-57.19		1	1
	7 672.50	-53.32	11.10	-46.14	4.54	H	-39.58			
	10 230.00	-65.02	11.00	-55.44	5.33	V	-49.77			
	12 787.50	-63.31	11.80	-52.46	6.12	V	-46.78			
	15 345.00	-59.53	15.00	-54.22	6.72	V	-45.94			

▣ NR Band: N7

▣ Bandwidth: 30 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503000 (2515.0)	5 030.00	-61.93	10.70	-64.03	3.56	V	-56.89	-25.00	1	158
	7 545.00	-56.40	11.10	-49.05	4.51	H	-42.46			
	10 060.00	-63.57	11.10	-54.78	5.27	V	-48.95			
	12 575.00	-64.71	12.10	-55.19	6.05	V	-49.14			
	15 090.00	-59.01	14.00	-53.87	6.66	V	-46.53			
507000 (2535.0)	5 070.00	-60.13	10.70	-61.41	3.62	V	-54.33		1	80
	7 605.00	-56.29	11.20	-49.28	4.53	H	-42.60			
	10 140.00	-63.02	11.10	-53.36	5.31	V	-47.57			
	12 675.00	-62.84	11.90	-52.98	6.06	V	-47.14			
	15 210.00	-59.99	14.40	-55.27	6.67	V	-47.54			
511000 (2555.0)	5 110.00	-62.73	10.80	-64.06	3.67	V	-56.93		1	1
	7 665.00	-57.80	11.10	-50.74	4.54	H	-44.18			
	10 220.00	-64.33	11.00	-54.35	5.32	V	-48.67			
	12 775.00	-65.31	11.80	-54.45	6.09	V	-48.73			
	15 330.00	-61.53	14.90	-56.36	6.71	V	-48.17			

▣ NR Band: N7

▣ Bandwidth: 35 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503500 (2517.5)	5 035.00	-63.56	10.70	-65.59	3.58	V	-58.47	-25.00	1	186
	7 552.50	-55.43	11.10	-48.33	4.51	H	-41.74			
	10 070.00	-62.83	11.10	-54.00	5.30	V	-48.20			
	12 587.50	-63.88	12.10	-54.20	6.06	V	-48.16			
	15 105.00	-60.14	14.10	-54.40	6.68	V	-46.98			
507000 (2535.0)	5 070.00	-60.81	10.70	-62.09	3.62	V	-55.01		1	94
	7 605.00	-56.94	11.20	-49.93	4.53	H	-43.25			
	10 140.00	-62.97	11.10	-53.31	5.31	V	-47.52			
	12 675.00	-63.42	11.90	-53.56	6.06	V	-47.72			
	15 210.00	-59.15	14.40	-54.43	6.67	V	-46.70			
510500 (2552.5)	5 105.00	-62.79	10.80	-64.41	3.66	V	-57.27		1	1
	7 657.50	-55.19	11.10	-48.30	4.53	H	-41.73			
	10 210.00	-64.77	11.00	-55.05	5.32	V	-49.37			
	12 762.50	-65.64	11.80	-54.62	6.07	V	-48.89			
	15 315.00	-61.53	14.90	-55.97	6.71	V	-47.78			

▣ NR Band: N7

▣ Bandwidth: 40 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504000 (2520.0)	5 040.00	-62.40	10.70	-64.37	3.60	V	-57.27	-25.00	1	214
	7 560.00	-57.88	11.10	-50.89	4.51	H	-44.30			
	10 080.00	-63.44	11.10	-54.39	5.29	V	-48.58			
	12 600.00	-64.94	12.00	-55.22	6.06	V	-49.28			
	15 120.00	-60.57	14.10	-54.48	6.68	V	-47.06			
507000 (2535.0)	5 070.00	-62.02	10.70	-63.30	3.62	V	-56.22		1	108
	7 605.00	-58.50	11.20	-51.49	4.53	H	-44.81			
	10 140.00	-62.04	11.10	-52.38	5.31	V	-46.59			
	12 675.00	-63.60	11.90	-53.74	6.06	V	-47.90			
	15 210.00	-60.11	14.40	-55.39	6.67	V	-47.66			
510000 (2550.0)	5 100.00	-61.72	10.80	-63.62	3.66	V	-56.48		1	108
	7 650.00	-54.17	11.10	-47.32	4.53	H	-40.75			
	10 200.00	-63.02	11.00	-52.59	5.33	V	-46.92			
	12 750.00	-64.15	11.80	-53.19	6.04	V	-47.43			
	15 300.00	-60.41	14.90	-54.31	6.72	V	-46.13			

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.06
			QPSK			5.07
			16-QAM			5.99
			64-QAM			5.97
			256-QAM			6.01
	10 MHz		BPSK	50		3.92
			QPSK			5.14
			16-QAM			6.03
			64-QAM			6.24
			256-QAM			6.60
	15 MHz		BPSK	75		4.20
			QPSK			5.18
			16-QAM			5.90
			64-QAM			6.26
			256-QAM			6.38
	20 MHz		BPSK	100		3.70
			QPSK			4.97
			16-QAM			5.86
			64-QAM			6.16
			256-QAM			6.34
	25 MHz		BPSK	128		3.99
			QPSK			5.18
			16-QAM			5.89
			64-QAM			6.16
			256-QAM			6.42
	30 MHz		BPSK	160		3.89
			QPSK			5.06
			16-QAM			5.91
			64-QAM			6.18
			256-QAM			6.55
	35 MHz		BPSK	180		3.92
			QPSK			5.08
			16-QAM			5.93
			64-QAM			6.18
			256-QAM			6.51
	40 MHz		BPSK	216		3.82
			QPSK			5.10
			16-QAM			5.93
			64-QAM			6.21
			256-QAM			6.44

Note:
1. Plots of the EUT's Peak- to- Average Ratio are shown Page 311 ~ 350.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.5684
			QPSK			4.5648
			16-QAM			4.5765
			64-QAM			4.6121
			256-QAM			4.6034
	10 MHz		BPSK	50		8.9744
			QPSK			9.0239
			16-QAM			9.0144
			64-QAM			8.9638
			256-QAM			8.9570
	15 MHz		BPSK	75		13.465
			QPSK			13.474
			16-QAM			13.452
			64-QAM			13.478
			256-QAM			13.474
	20 MHz		BPSK	100		17.904
			QPSK			17.942
			16-QAM			17.925
			64-QAM			17.883
			256-QAM			17.892
	25 MHz		BPSK	128		23.020
			QPSK			22.956
			16-QAM			22.981
			64-QAM			22.891
			256-QAM			22.955
	30 MHz		BPSK	160		28.646
			QPSK			28.647
			16-QAM			28.649
			64-QAM			28.629
			256-QAM			28.663
	35 MHz		BPSK	180		32.242
			QPSK			32.219
			16-QAM			32.232
			64-QAM			32.262
			256-QAM			32.259
	40 MHz		BPSK	216		38.686
			QPSK			38.668
			16-QAM			38.709
			64-QAM			38.626
			256-QAM			38.663

Note:
1. Plots of the EUT's Occupied Bandwidth are shown Page 271 ~ 310.

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 n7	5	2502.5	3.7962	29.700	-67.029	-37.329	-25.00
		2535.0	3.7977	29.700	-66.620	-36.920	
		2567.5	3.8012	29.700	-66.821	-37.121	
	10	2505.0	3.7892	29.700	-66.818	-37.118	
		2535.0	3.7962	29.700	-67.124	-37.424	
		2565.0	3.8031	29.700	-66.907	-37.207	
	15	2507.5	3.7832	29.700	-66.630	-36.930	
		2535.0	3.8121	29.700	-66.762	-37.062	
		2562.5	3.7867	29.700	-67.152	-37.452	
	20	2510.0	3.7692	29.700	-66.356	-36.656	
		2535.0	3.7842	29.700	-66.844	-37.144	
		2560.0	3.8031	29.700	-66.632	-36.932	
	25	2512.5	3.8091	29.700	-66.660	-36.960	
		2535.0	3.7752	29.700	-67.056	-37.356	
		2557.5	3.7688	29.700	-66.888	-37.188	
	30	2515.0	3.7727	29.700	-66.502	-36.802	
		2535.0	3.7702	29.700	-66.714	-37.014	
		2555.0	3.7992	29.700	-66.686	-36.986	
	35	2517.5	3.7508	29.700	-66.753	-37.053	
		2535.0	3.7727	29.700	-66.840	-37.140	
		2552.5	3.7712	29.700	-66.292	-36.592	
	40	2520.0	3.7777	29.700	-66.707	-37.007	
		2535.0	3.7927	29.700	-66.671	-36.971	
		2550.0	3.7767	29.700	-66.604	-36.904	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 407 ~454.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	26.994
1 – 5	29.700
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

9.6 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 500 MHz ~ 2 496 MHz	C.E ~ (C.E +1 MHz)	2 490.5 MHz ~ 2 496 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
5	2502.5	BPSK	Full RB	-20.07	-20.90	-35.05	-22.07	-52.21	-37.72	-38.91
10	2505.0	BPSK	Full RB	-22.63	-24.94	-28.79	-23.18	-44.05	-29.29	-40.29
15	2507.5	BPSK	Full RB	-24.45	-31.87	-30.63	-28.39	-32.64	-28.88	-43.90
20	2510.0	BPSK	Full RB	-23.03	-23.69	-29.67	-22.93	-30.37	-28.66	-43.97
25	2512.5	BPSK	Full RB	-26.32	-30.00	-32.50	-30.18	-31.55	-31.15	-46.91
30	2515.0	BPSK	Full RB	-25.58	-24.96	-32.41	-28.15	-33.39	-30.14	-44.11
35	2517.5	BPSK	Full RB	-23.79	-30.43	-31.59	-29.06	-32.04	-29.41	-45.86
40	2520.0	BPSK	Full RB	-15.25	-14.66	-30.26	-26.00	-35.94	-29.54	-53.46
Limit(dBm)				-10.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
				Lower	Upper	Lower	Upper
5	2535.0	BPSK	Full RB	-19.94	-20.82	-21.71	-21.10
	2567.5	BPSK	Full RB	-22.24	-19.83	-23.76	-22.81
10	2535.0	BPSK	Full RB	-22.37	-28.19	-23.91	-23.60
	2565.0	BPSK	Full RB	-22.32	-29.24	-25.08	-26.85
15	2535.0	BPSK	Full RB	-23.77	-27.15	-23.24	-21.98
	2562.5	BPSK	Full RB	-23.90	-30.70	-24.70	-28.61
20	2535.0	BPSK	Full RB	-24.35	-29.07	-25.51	-27.07
	2560.0	BPSK	Full RB	-20.74	-26.69	-21.95	-24.72
25	2535.0	BPSK	Full RB	-24.50	-28.12	-25.43	-27.20
	2557.5	BPSK	Full RB	-23.27	-28.78	-24.28	-27.91
30	2535.0	BPSK	Full RB	-24.84	-25.08	-26.03	-26.14
	2555.0	BPSK	Full RB	-21.66	-23.77	-24.17	-25.82
35	2535.0	BPSK	Full RB	-24.83	-29.23	-27.66	-29.13
	2552.5	BPSK	Full RB	-22.60	-27.58	-25.46	-25.88
40	2535.0	BPSK	Full RB	-15.67	-15.59	-28.66	-27.36
	2550.0	BPSK	Full RB	-14.34	-15.80	-28.60	-29.69
Limi(dBm)				-10.0		-10.0	

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
				Lower	Upper	Lower	Upper
5	2535.0	BPSK	Full RB	-36.88	-35.83	-39.60	-38.44
	2567.5	BPSK	Full RB	-39.60	-43.60	-40.16	-45.44
10	2535.0	BPSK	Full RB	-28.27	-27.45	-41.57	-39.36
	2565.0	BPSK	Full RB	-27.11	-30.88	-42.49	-52.52
15	2535.0	BPSK	Full RB	-27.32	-25.37	-40.79	-38.71
	2562.5	BPSK	Full RB	-25.91	-33.41	-47.16	-55.21
20	2535.0	BPSK	Full RB	-31.12	-28.27	-47.14	-44.86
	2560.0	BPSK	Full RB	-24.18	-33.43	-45.06	-54.87
25	2535.0	BPSK	Full RB	-31.58	-29.16	-47.80	-46.82
	2557.5	BPSK	Full RB	-26.73	-34.99	-47.14	-54.87
30	2535.0	BPSK	Full RB	-33.07	-30.64	-50.56	-52.82
	2555.0	BPSK	Full RB	-26.24	-30.76	-46.17	-54.78
35	2535.0	BPSK	Full RB	-32.81	-32.62	-54.85	-54.60
	2552.5	BPSK	Full RB	-27.67	-34.36	-44.16	-54.78
40	2535.0	BPSK	Full RB	-32.47	-31.17	-55.04	-54.73
	2550.0	BPSK	Full RB	-31.30	-35.46	-50.27	-54.63
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) = Cable Loss + Ext. Attenuator + Power Splitter
   - Result(dBm) = Reading + Factor
4. Plots of the EUT's Channel Edge are shown Page 351 ~ 406.

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ BandWidth: 5 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2502.500	100 %	+20(Ref)	2502 499 993	0.0	0.000 000	0.000
	100 %	-30	2502 499 987	-6.2	0.000 000	-0.002
	100 %	-20	2502 499 986	-7.0	0.000 000	-0.003
	100 %	-10	2502 499 987	-6.0	0.000 000	-0.002
	100 %	0	2502 499 990	-3.8	0.000 000	-0.002
	100 %	+10	2502 499 987	-6.7	0.000 000	-0.003
	100 %	+30	2502 499 988	-5.1	0.000 000	-0.002
	100 %	+40	2502 499 988	-5.6	0.000 000	-0.002
	100 %	+50	2502 499 985	-8.4	0.000 000	-0.003
	Batt. Endpoint	+20	2502 499 989	-4.1	0.000 000	-0.002
2567.500	100 %	+20(Ref)	2567 499 996	0.0	0.000 000	0.000
	100 %	-30	2567 499 993	-2.4	0.000 000	-0.001
	100 %	-20	2567 499 991	-4.3	0.000 000	-0.002
	100 %	-10	2567 499 994	-2.0	0.000 000	-0.001
	100 %	0	2567 499 995	-0.4	0.000 000	0.000
	100 %	+10	2567 499 990	-5.2	0.000 000	-0.002
	100 %	+30	2567 499 992	-3.9	0.000 000	-0.002
	100 %	+40	2567 499 990	-5.2	0.000 000	-0.002
	100 %	+50	2567 499 991	-4.7	0.000 000	-0.002
	Batt. Endpoint	+20	2567 499 993	-2.5	0.000 000	-0.001

▣ BandWidth: 10 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2505.000	100 %	+20(Ref)	2505 000 002	0.0	0.000 000	0.000
	100 %	-30	2505 000 005	2.1	0.000 000	0.001
	100 %	-20	2505 000 003	0.9	0.000 000	0.000
	100 %	-10	2505 000 005	2.4	0.000 000	0.001
	100 %	0	2505 000 006	3.6	0.000 000	0.001
	100 %	+10	2505 000 006	3.2	0.000 000	0.001
	100 %	+30	2505 000 004	1.5	0.000 000	0.001
	100 %	+40	2505 000 007	4.9	0.000 000	0.002
	100 %	+50	2505 000 006	3.9	0.000 000	0.002
	Batt. Endpoint	+20	2505 000 006	3.4	0.000 000	0.001
2565.000	100 %	+20(Ref)	2565 000 000	0.0	0.000 000	0.000
	100 %	-30	2565 000 002	2.0	0.000 000	0.001
	100 %	-20	2565 000 001	1.0	0.000 000	0.000
	100 %	-10	2564 999 998	-2.4	0.000 000	-0.001
	100 %	0	2565 000 002	1.5	0.000 000	0.001
	100 %	+10	2565 000 003	3.2	0.000 000	0.001
	100 %	+30	2565 000 000	0.2	0.000 000	0.000
	100 %	+40	2565 000 002	1.7	0.000 000	0.001
	100 %	+50	2564 999 999	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	2565 000 000	-0.1	0.000 000	0.000

▣ 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	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2507.500	100 %	+20(Ref)	2507 500 002	0.0	0.000 000	0.000
	100 %	-30	2507 500 005	2.5	0.000 000	0.001
	100 %	-20	2507 500 006	3.5	0.000 000	0.001
	100 %	-10	2507 500 005	2.3	0.000 000	0.001
	100 %	0	2507 500 004	1.2	0.000 000	0.000
	100 %	+10	2507 500 005	2.4	0.000 000	0.001
	100 %	+30	2507 500 004	1.8	0.000 000	0.001
	100 %	+40	2507 500 002	0.0	0.000 000	0.000
	100 %	+50	2507 500 006	3.6	0.000 000	0.001
	Batt. Endpoint	+20	2507 500 005	2.3	0.000 000	0.001
2562.500	100 %	+20(Ref)	2562 500 002	0.0	0.000 000	0.000
	100 %	-30	2562 500 005	2.8	0.000 000	0.001
	100 %	-20	2562 500 003	1.1	0.000 000	0.000
	100 %	-10	2562 500 004	2.1	0.000 000	0.001
	100 %	0	2562 500 004	1.9	0.000 000	0.001
	100 %	+10	2562 500 003	1.5	0.000 000	0.001
	100 %	+30	2562 500 004	2.4	0.000 000	0.001
	100 %	+40	2562 500 004	2.0	0.000 000	0.001
	100 %	+50	2562 500 004	2.3	0.000 000	0.001
	Batt. Endpoint	+20	2562 500 003	1.2	0.000 000	0.000

▣ BandWidth: 20 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2510.000	100 %	+20(Ref)	2509 999 998	0.0	0.000 000	0.000
	100 %	-30	2509 999 994	-3.3	0.000 000	-0.001
	100 %	-20	2509 999 995	-2.3	0.000 000	-0.001
	100 %	-10	2509 999 995	-2.5	0.000 000	-0.001
	100 %	0	2509 999 995	-2.8	0.000 000	-0.001
	100 %	+10	2509 999 993	-4.3	0.000 000	-0.002
	100 %	+30	2509 999 995	-2.6	0.000 000	-0.001
	100 %	+40	2509 999 996	-1.8	0.000 000	-0.001
	100 %	+50	2509 999 996	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	2509 999 997	-1.1	0.000 000	0.000
2560.000	100 %	+20(Ref)	2560 000 001	0.0	0.000 000	0.000
	100 %	-30	2560 000 001	0.6	0.000 000	0.000
	100 %	-20	2559 999 998	-2.3	0.000 000	-0.001
	100 %	-10	2560 000 001	0.5	0.000 000	0.000
	100 %	0	2560 000 000	-0.2	0.000 000	0.000
	100 %	+10	2560 000 000	-0.6	0.000 000	0.000
	100 %	+30	2559 999 999	-1.1	0.000 000	0.000
	100 %	+40	2560 000 003	2.4	0.000 000	0.001
	100 %	+50	2560 000 003	2.4	0.000 000	0.001
	Batt. Endpoint	+20	2560 000 000	-1.0	0.000 000	0.000

▣ BandWidth: 25 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2512.500	100 %	+20(Ref)	2512 500 005	0.0	0.000 000	0.000
	100 %	-30	2512 500 013	7.3	0.000 000	0.003
	100 %	-20	2512 500 012	7.0	0.000 000	0.003
	100 %	-10	2512 500 012	7.0	0.000 000	0.003
	100 %	0	2512 500 011	5.8	0.000 000	0.002
	100 %	+10	2512 500 014	8.2	0.000 000	0.003
	100 %	+30	2512 500 013	7.8	0.000 000	0.003
	100 %	+40	2512 500 014	8.4	0.000 000	0.003
	100 %	+50	2512 500 012	6.7	0.000 000	0.003
	Batt. Endpoint	+20	2512 500 011	5.8	0.000 000	0.002
2557.500	100 %	+20(Ref)	2557 500 010	0.0	0.000 000	0.000
	100 %	-30	2557 500 018	8.1	0.000 000	0.003
	100 %	-20	2557 500 019	8.8	0.000 000	0.003
	100 %	-10	2557 500 018	8.0	0.000 000	0.003
	100 %	0	2557 500 018	7.7	0.000 000	0.003
	100 %	+10	2557 500 019	8.6	0.000 000	0.003
	100 %	+30	2557 500 020	9.6	0.000 000	0.004
	100 %	+40	2557 500 019	9.0	0.000 000	0.004
	100 %	+50	2557 500 019	9.2	0.000 000	0.004
	Batt. Endpoint	+20	2557 500 019	9.1	0.000 000	0.004

▣ 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	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2515.000	100 %	+20(Ref)	2515 000 005	0.0	0.000 000	0.000
	100 %	-30	2515 000 012	6.1	0.000 000	0.002
	100 %	-20	2515 000 011	5.3	0.000 000	0.002
	100 %	-10	2515 000 011	5.5	0.000 000	0.002
	100 %	0	2515 000 012	6.2	0.000 000	0.002
	100 %	+10	2515 000 012	7.0	0.000 000	0.003
	100 %	+30	2515 000 012	6.5	0.000 000	0.003
	100 %	+40	2515 000 011	6.0	0.000 000	0.002
	100 %	+50	2515 000 012	6.4	0.000 000	0.003
	Batt. Endpoint	+20	2515 000 012	6.5	0.000 000	0.003
2555.000	100 %	+20(Ref)	2555 000 003	0.0	0.000 000	0.000
	100 %	-30	2555 000 006	2.6	0.000 000	0.001
	100 %	-20	2555 000 005	2.3	0.000 000	0.001
	100 %	-10	2555 000 007	3.8	0.000 000	0.002
	100 %	0	2555 000 007	4.4	0.000 000	0.002
	100 %	+10	2555 000 009	6.0	0.000 000	0.002
	100 %	+30	2555 000 007	4.3	0.000 000	0.002
	100 %	+40	2555 000 008	4.5	0.000 000	0.002
	100 %	+50	2555 000 009	6.3	0.000 000	0.002
	Batt. Endpoint	+20	2555 000 006	3.1	0.000 000	0.001

▣ BandWidth: 35 MHz

▣ Voltage(100 %): 3.880 VDC

▣ Batt. Endpoint: 3.300 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2517.500	100 %	+20(Ref)	2517 500 008	0.0	0.000 000	0.000
	100 %	-30	2517 500 013	5.2	0.000 000	0.002
	100 %	-20	2517 500 014	6.0	0.000 000	0.002
	100 %	-10	2517 500 012	4.1	0.000 000	0.002
	100 %	0	2517 500 013	5.4	0.000 000	0.002
	100 %	+10	2517 500 015	7.5	0.000 000	0.003
	100 %	+30	2517 500 014	6.0	0.000 000	0.002
	100 %	+40	2517 500 016	8.2	0.000 000	0.003
	100 %	+50	2517 500 013	5.5	0.000 000	0.002
	Batt. Endpoint	+20	2517 500 015	7.3	0.000 000	0.003
2552.500	100 %	+20(Ref)	2552 500 008	0.0	0.000 000	0.000
	100 %	-30	2552 500 014	5.8	0.000 000	0.002
	100 %	-20	2552 500 014	5.5	0.000 000	0.002
	100 %	-10	2552 500 017	8.7	0.000 000	0.003
	100 %	0	2552 500 016	7.6	0.000 000	0.003
	100 %	+10	2552 500 016	8.0	0.000 000	0.003
	100 %	+30	2552 500 016	7.3	0.000 000	0.003
	100 %	+40	2552 500 016	7.8	0.000 000	0.003
	100 %	+50	2552 500 016	8.2	0.000 000	0.003
	Batt. Endpoint	+20	2552 500 017	8.6	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	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2520.000	100 %	+20(Ref)	2520 000 002	0.0	0.000 000	0.000
	100 %	-30	2520 000 006	3.6	0.000 000	0.001
	100 %	-20	2520 000 005	2.6	0.000 000	0.001
	100 %	-10	2520 000 004	2.4	0.000 000	0.001
	100 %	0	2520 000 005	2.9	0.000 000	0.001
	100 %	+10	2520 000 008	5.7	0.000 000	0.002
	100 %	+30	2520 000 005	3.5	0.000 000	0.001
	100 %	+40	2520 000 005	3.1	0.000 000	0.001
	100 %	+50	2520 000 005	3.0	0.000 000	0.001
	Batt. Endpoint	+20	2520 000 007	4.8	0.000 000	0.002
2550.000	100 %	+20(Ref)	2550 000 006	0.0	0.000 000	0.000
	100 %	-30	2550 000 012	6.6	0.000 000	0.003
	100 %	-20	2550 000 012	6.4	0.000 000	0.002
	100 %	-10	2550 000 011	5.1	0.000 000	0.002
	100 %	0	2550 000 009	3.2	0.000 000	0.001
	100 %	+10	2550 000 012	6.2	0.000 000	0.002
	100 %	+30	2550 000 011	5.3	0.000 000	0.002
	100 %	+40	2550 000 011	5.5	0.000 000	0.002
	100 %	+50	2550 000 010	4.6	0.000 000	0.002
	Batt. Endpoint	+20	2550 000 010	4.2	0.000 000	0.002

10. TEST PLOTS(ANT B)

Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandw idth Plot (20 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandw idth Plot (25 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandw idth Plot (30 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 BPSK)

Sub6 n7. Occupied Bandw idth Plot (35 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 16QAM)

Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 256QAM)

Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 BPSK)

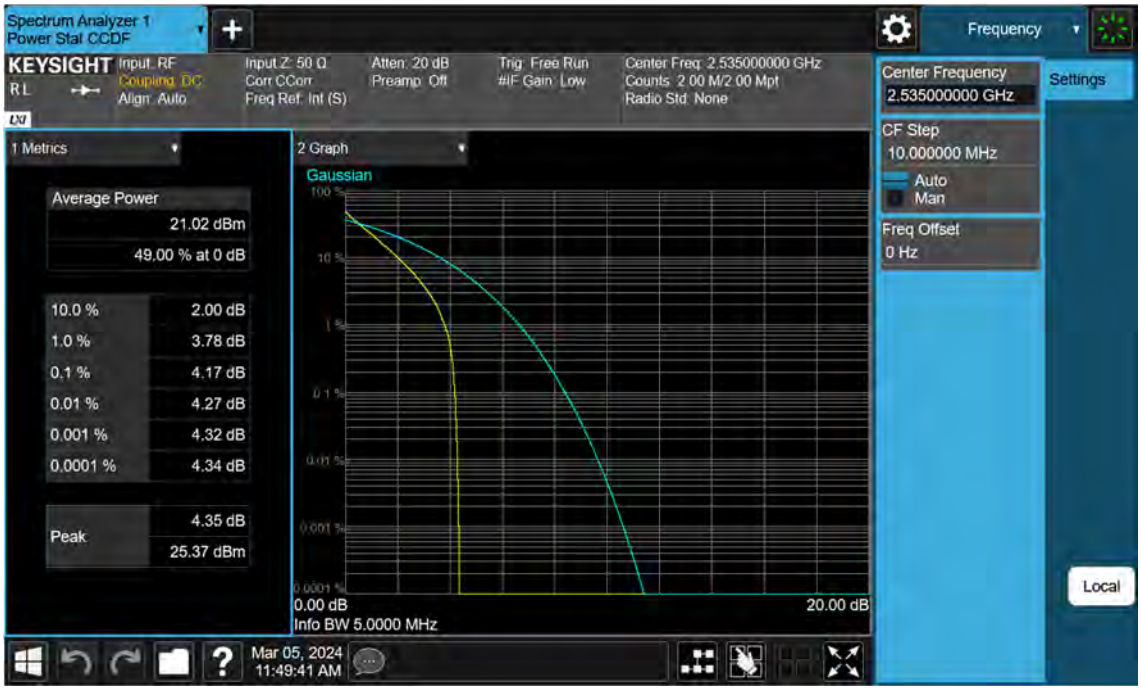
Sub6 n7. Occupied Bandw idth Plot (40 M BW Ch.507000 QPSK)

Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 16QAM)

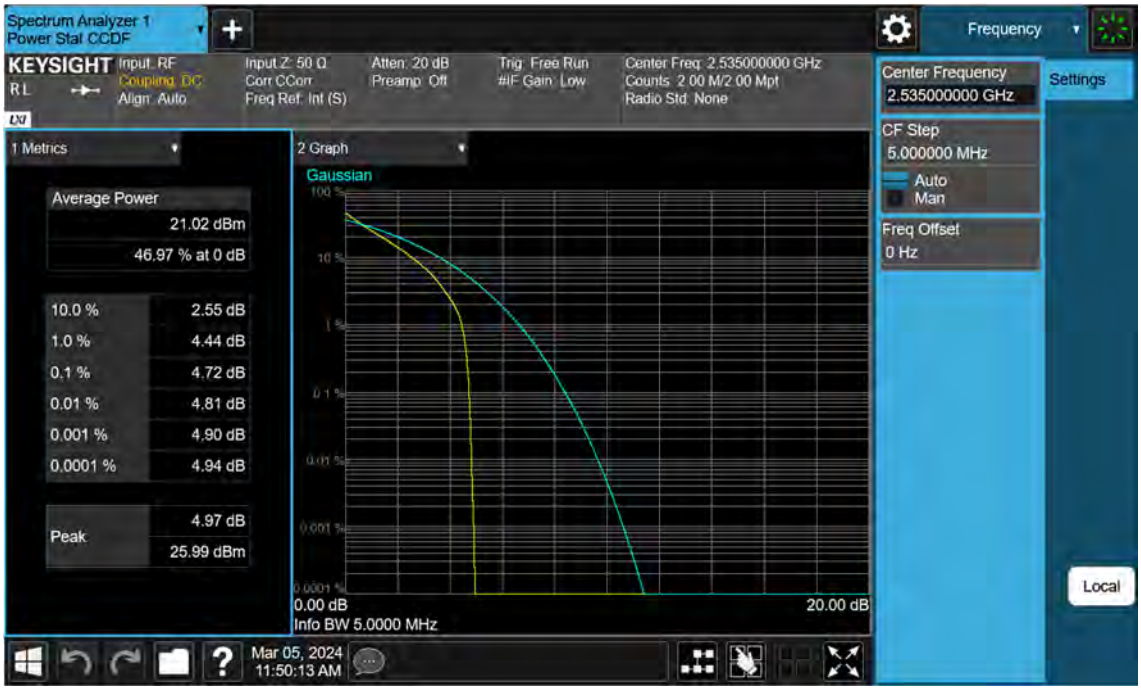
Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 64QAM)

Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 256QAM)

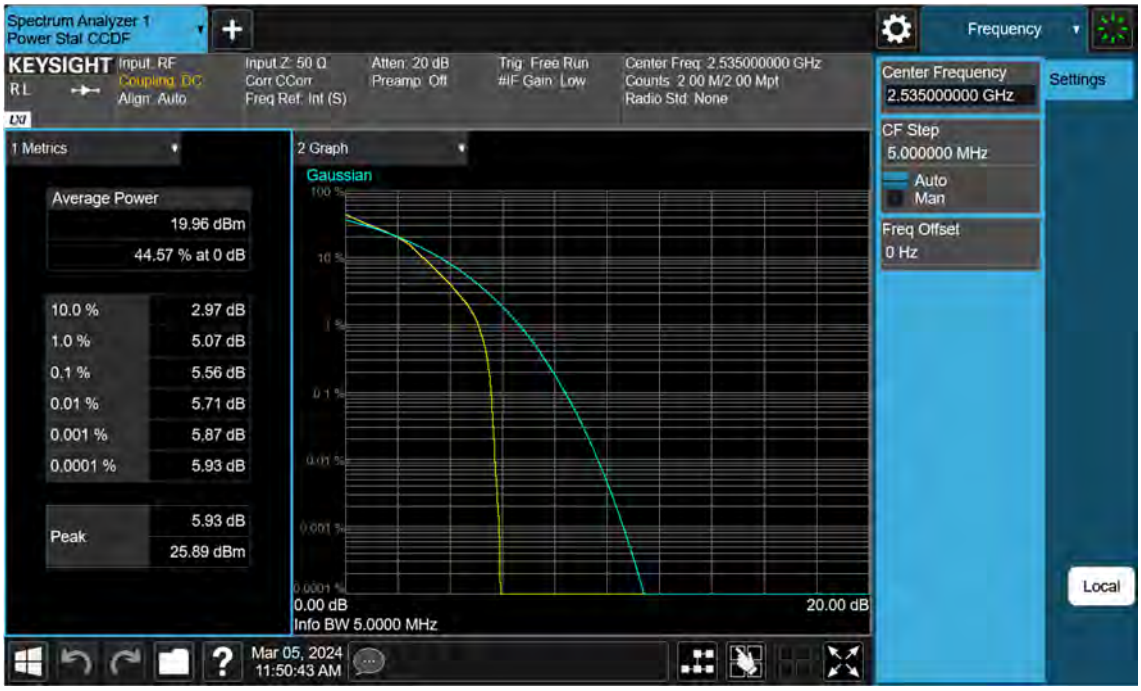
Sub6 n7. PAR Plot (5 M BW_Ch.507000_ BPSK)



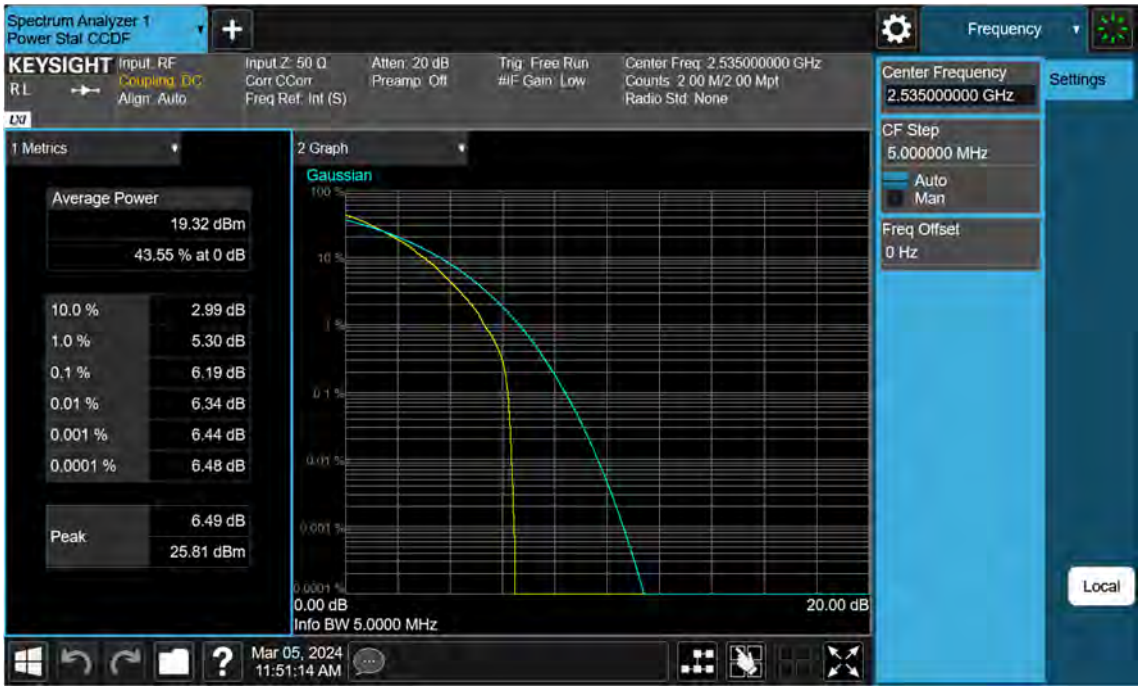
Sub6 n7. PAR Plot (5 M BW_Ch.507000_QPSK)



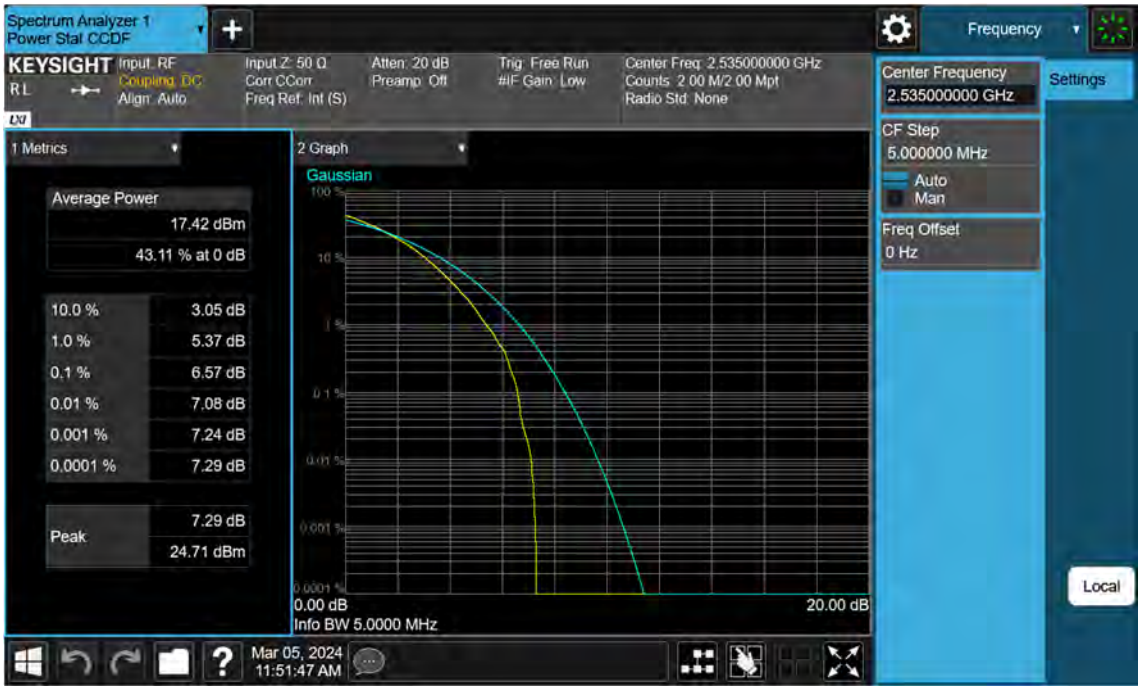
Sub6 n7. PAR Plot (5 M BW_Ch.507000_16QAM)



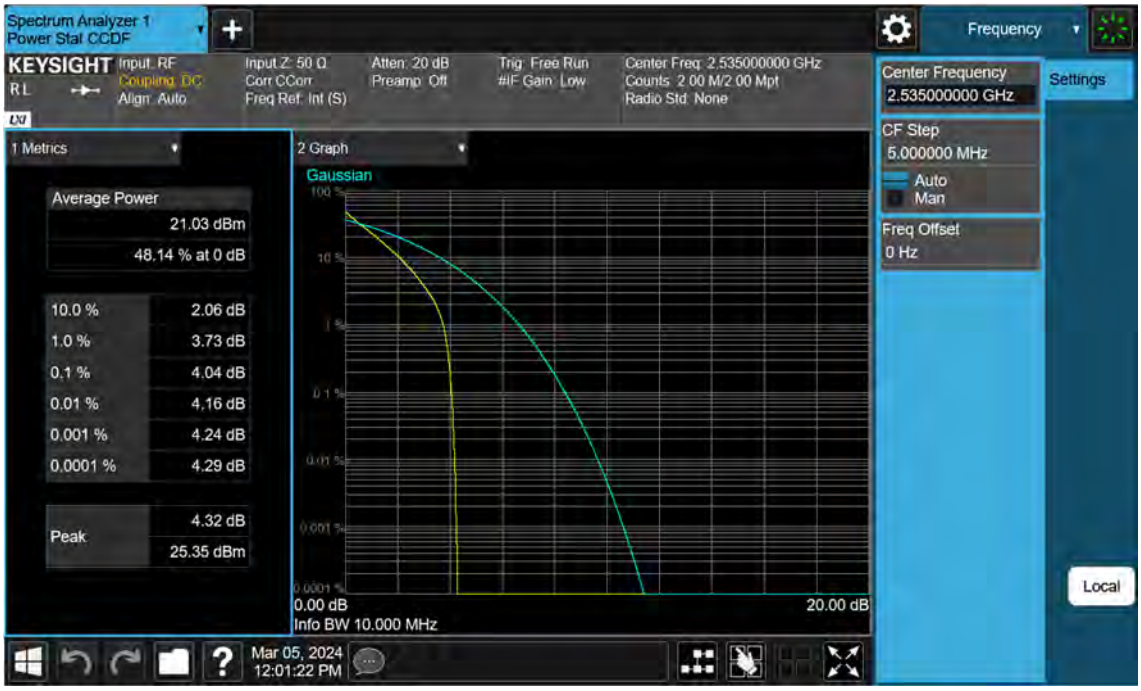
Sub6 n7. PAR Plot (5 M BW_Ch.507000_64QAM)



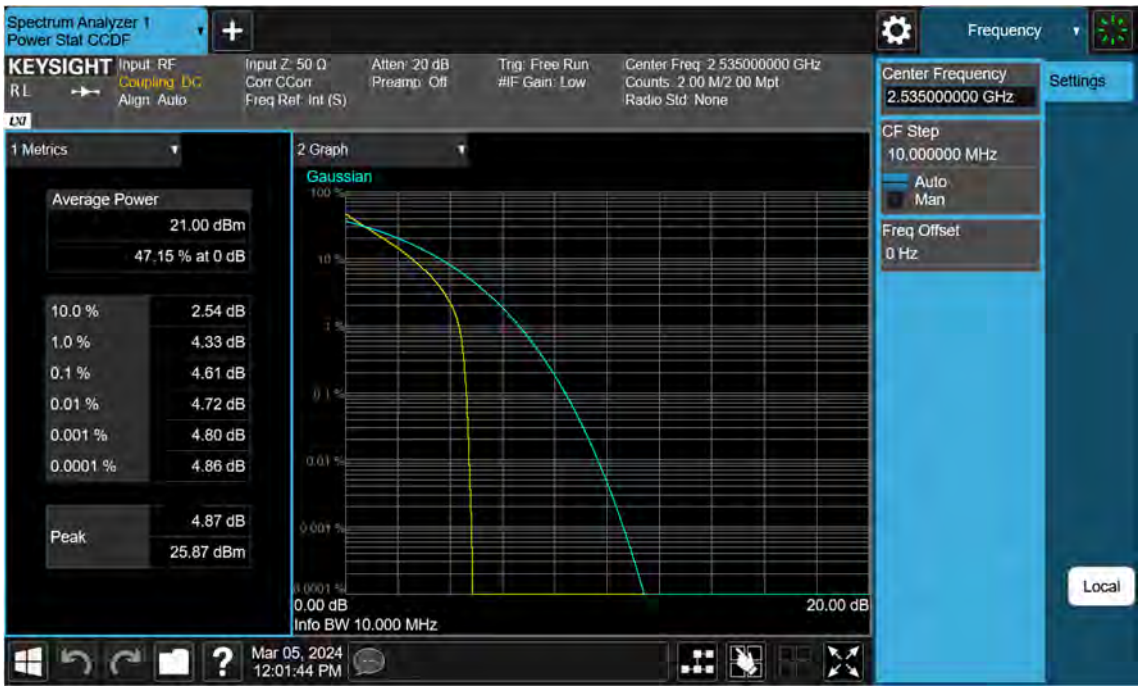
Sub6 n7. PAR Plot (5 M BW_Ch.507000_256QAM)



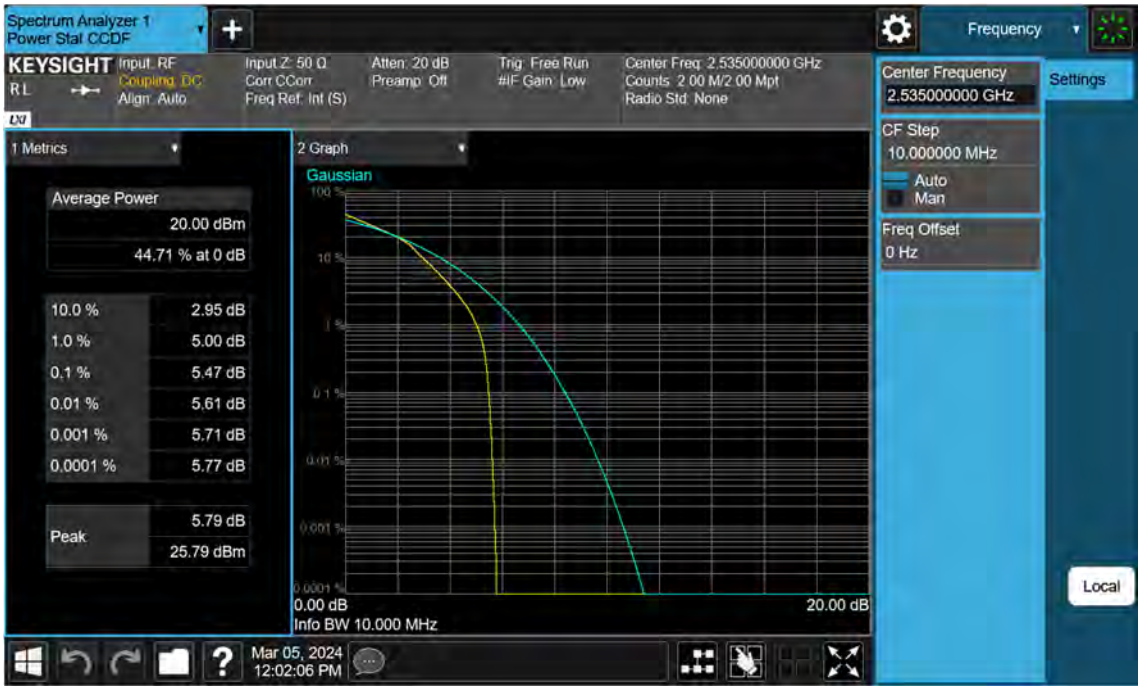
Sub6 n7. PAR Plot (10 M BW_Ch.507000_ BPSK)



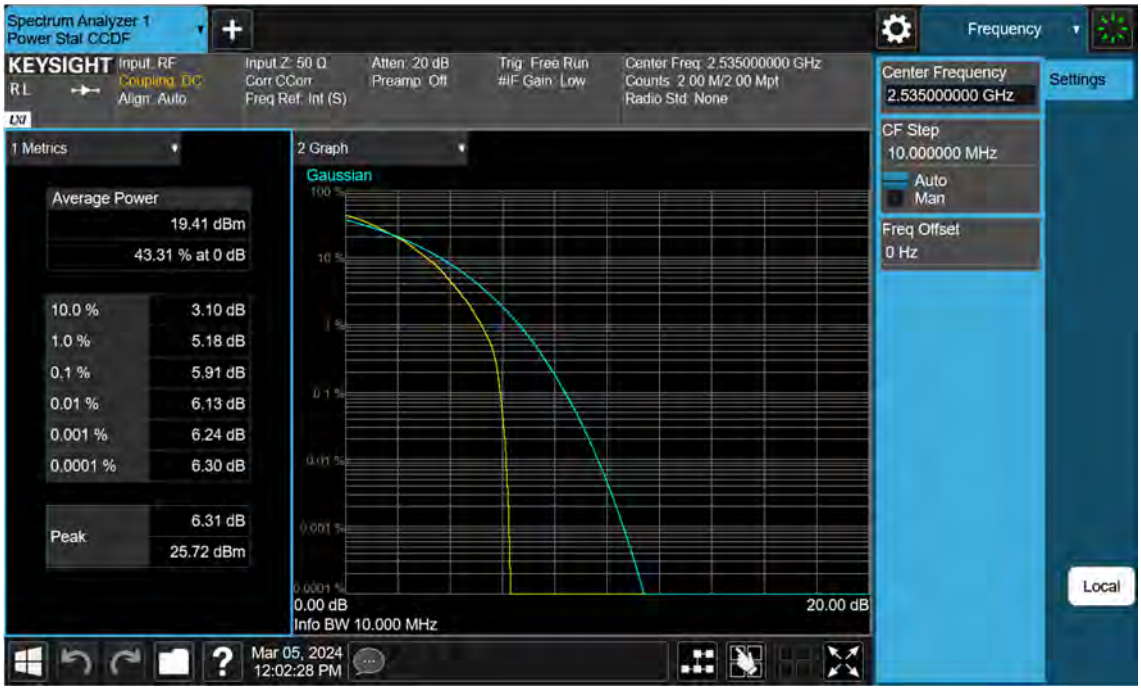
Sub6 n7. PAR Plot (10 M BW_Ch.507000_QPSK)



Sub6 n7. PAR Plot (10 M BW_Ch.507000_16QAM)

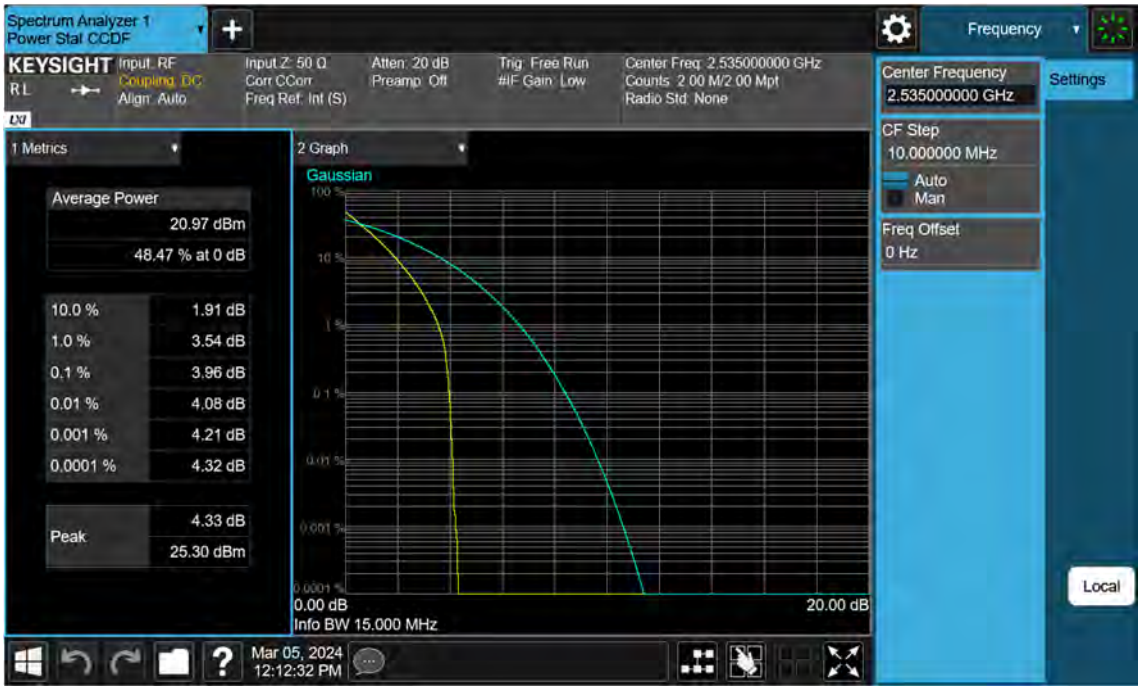


Sub6 n7. PAR Plot (10 M BW_Ch.507000_64QAM)

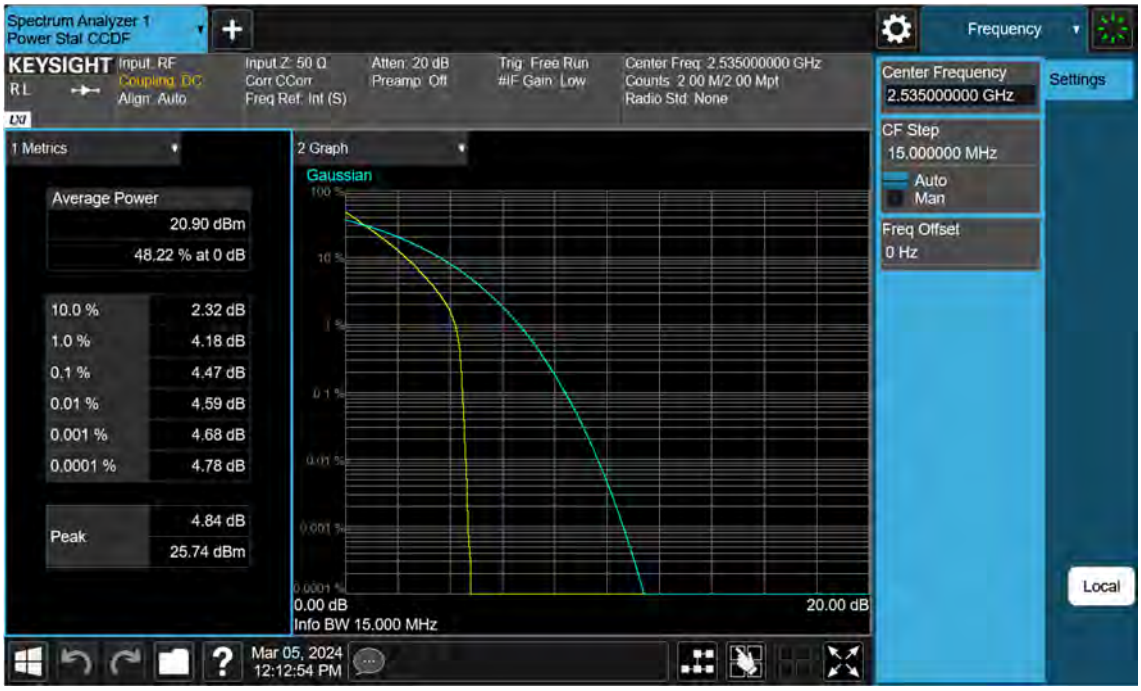


Sub6 n7. PAR Plot (10 M BW_Ch.507000_256QAM)

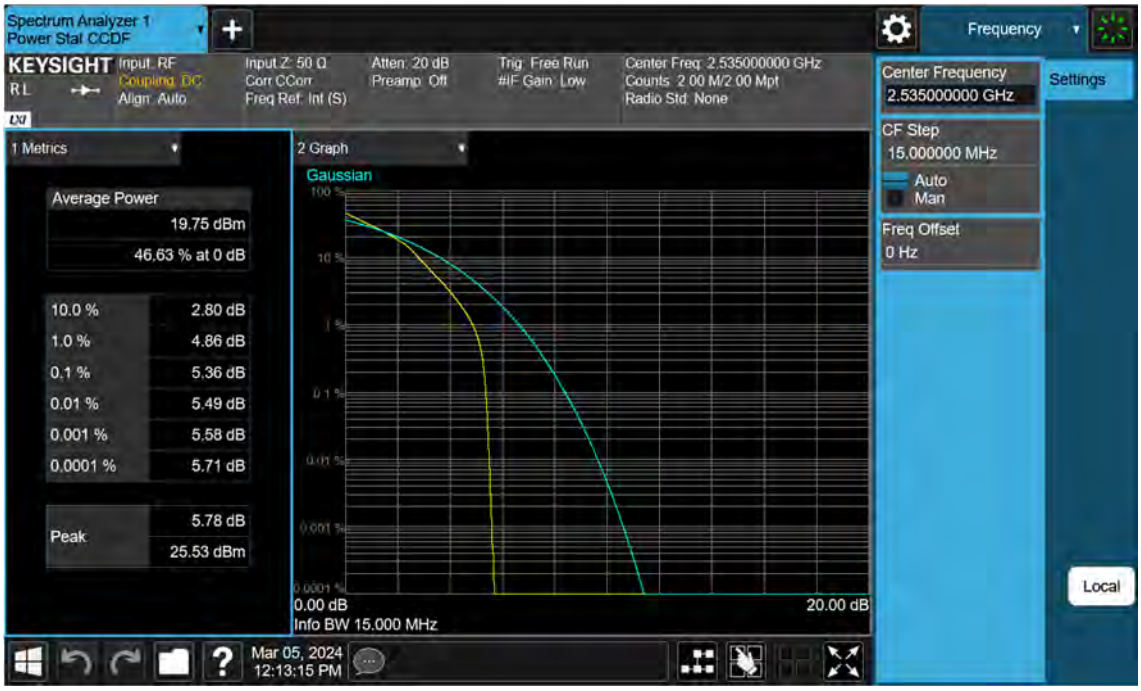
Sub6 n7. PAR Plot (15 M BW_Ch.507000_ BPSK)



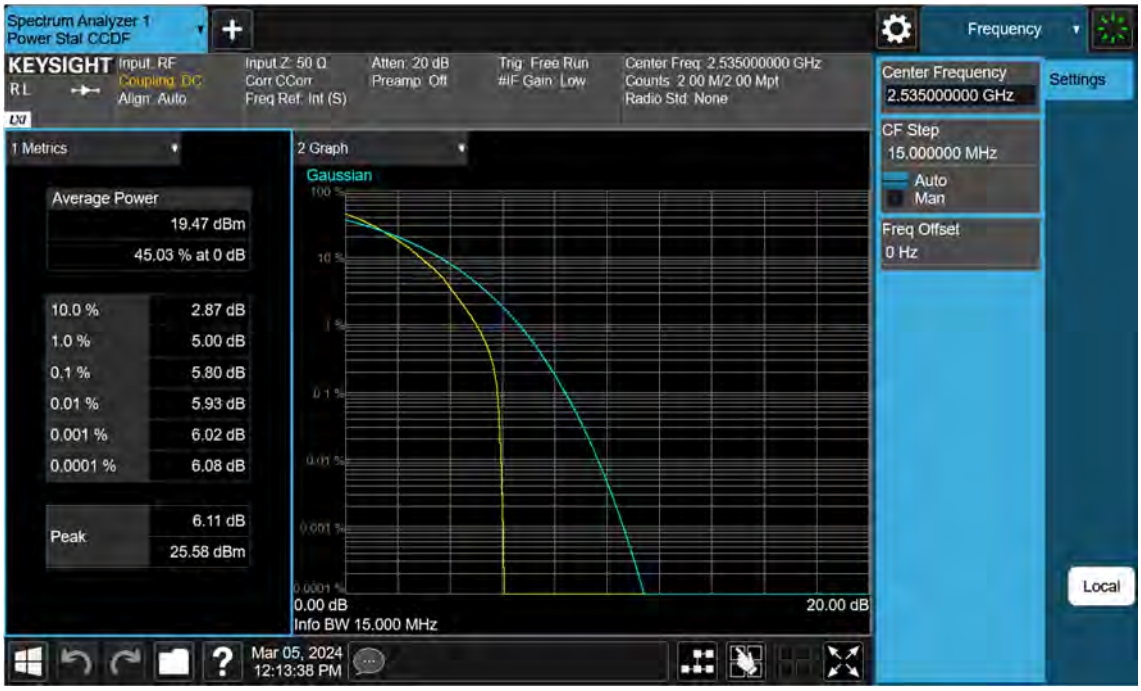
Sub6 n7. PAR Plot (15 M BW_Ch.507000_QPSK)



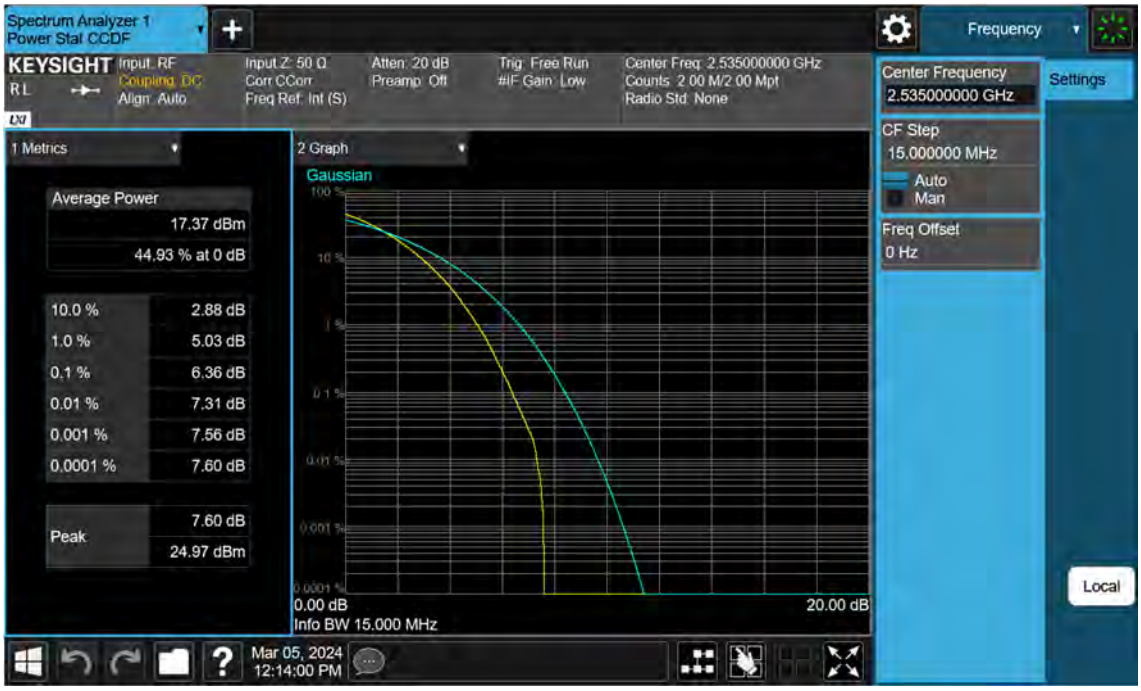
Sub6 n7. PAR Plot (15 M BW_Ch.507000_16QAM)



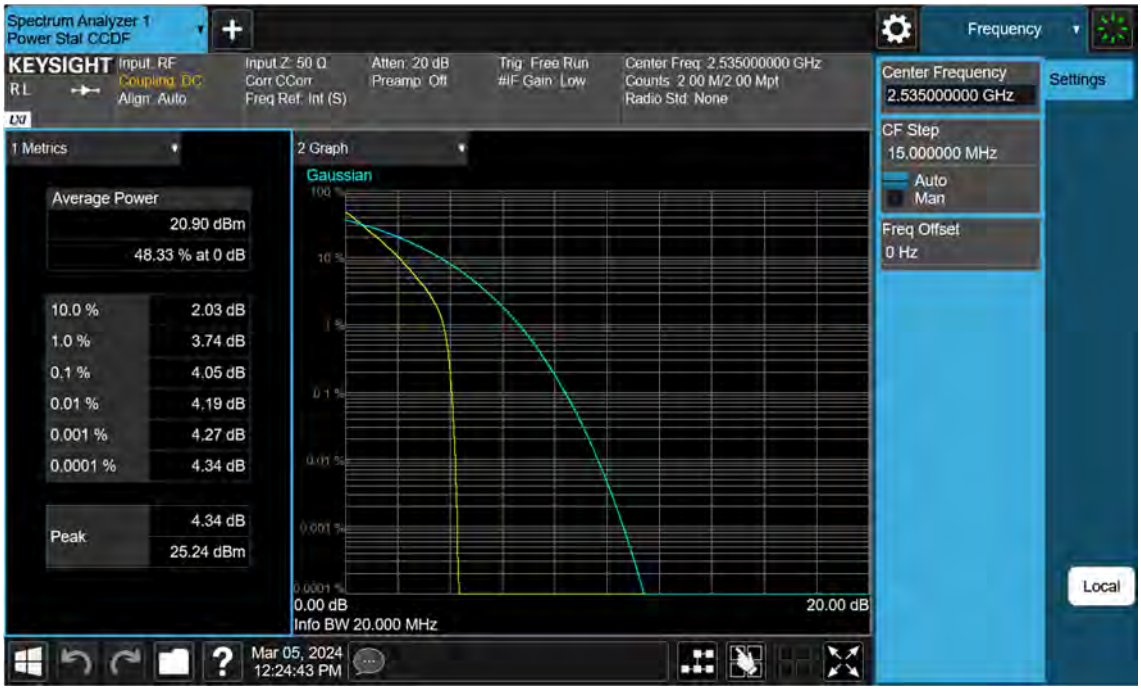
Sub6 n7. PAR Plot (15 M BW_Ch.507000_64QAM)



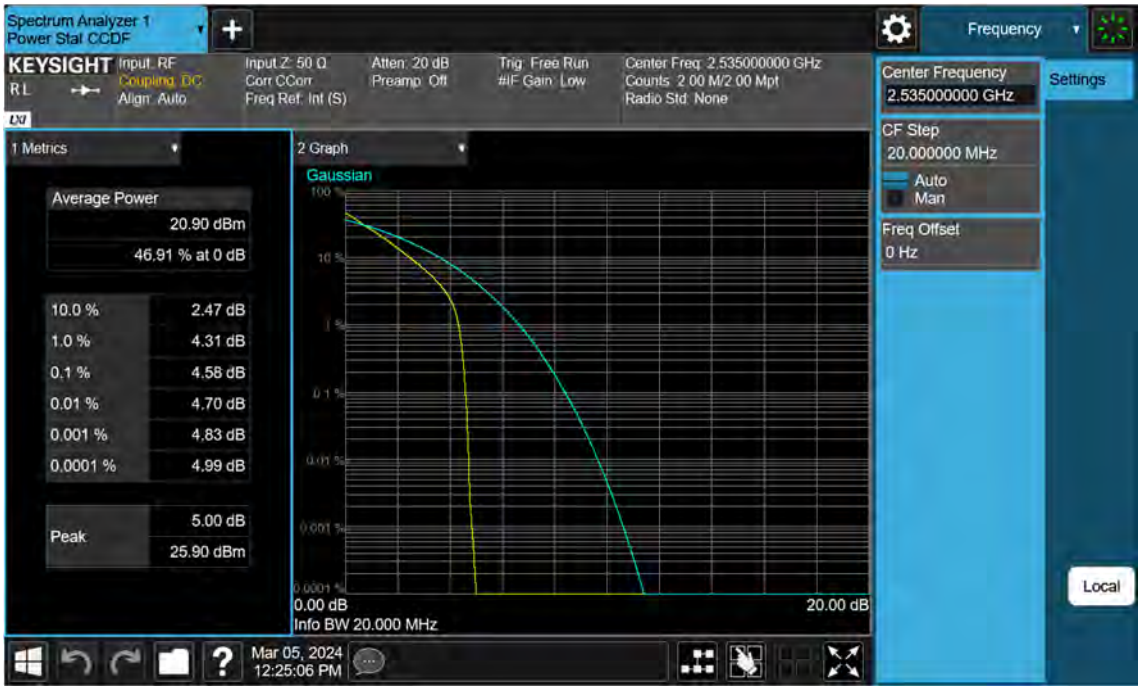
Sub6 n7. PAR Plot (15 M BW_Ch.507000_256QAM)



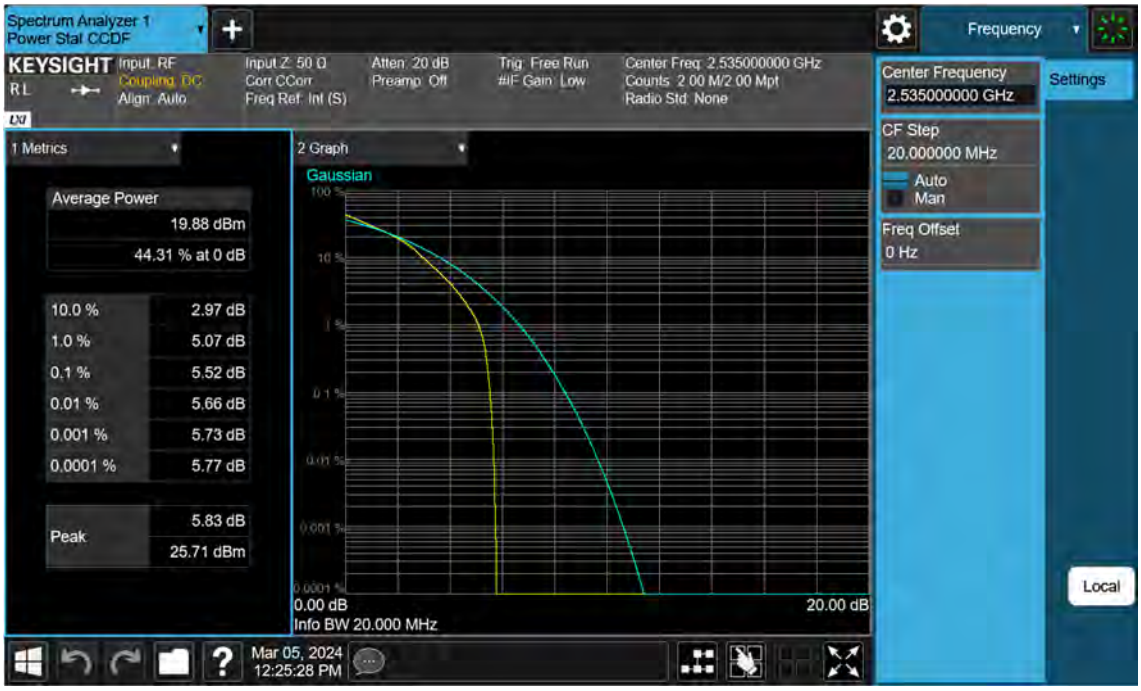
Sub6 n7. PAR Plot (20 M BW_Ch.507000_ BPSK)



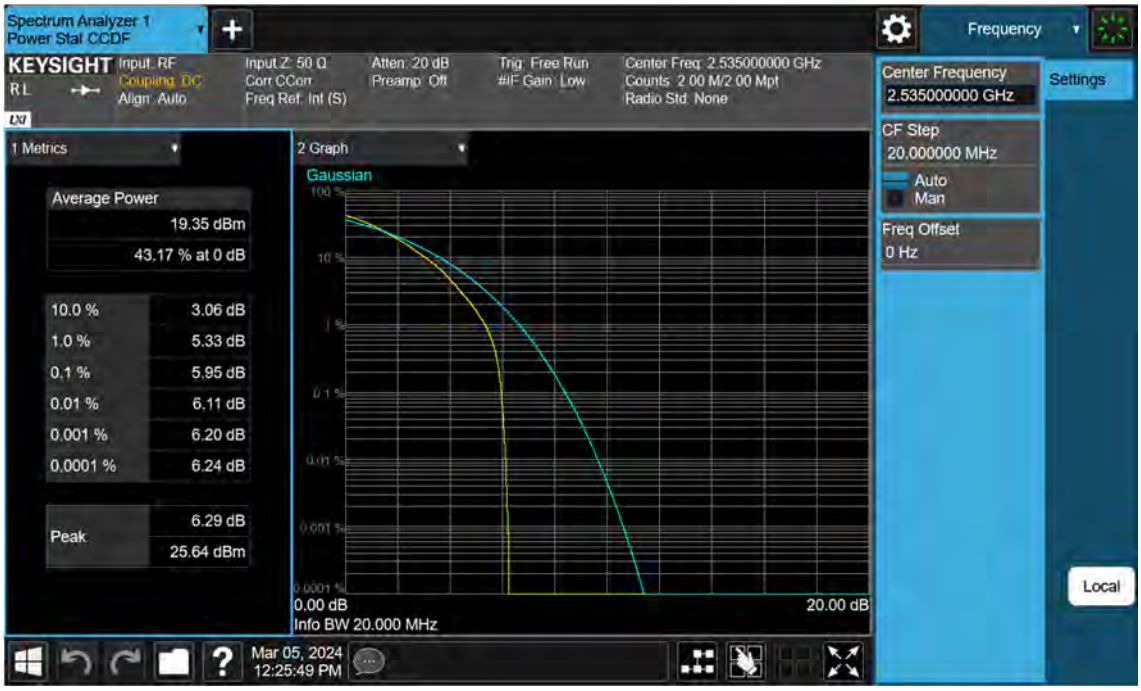
Sub6 n7. PAR Plot (20 M BW_Ch.507000_QPSK)



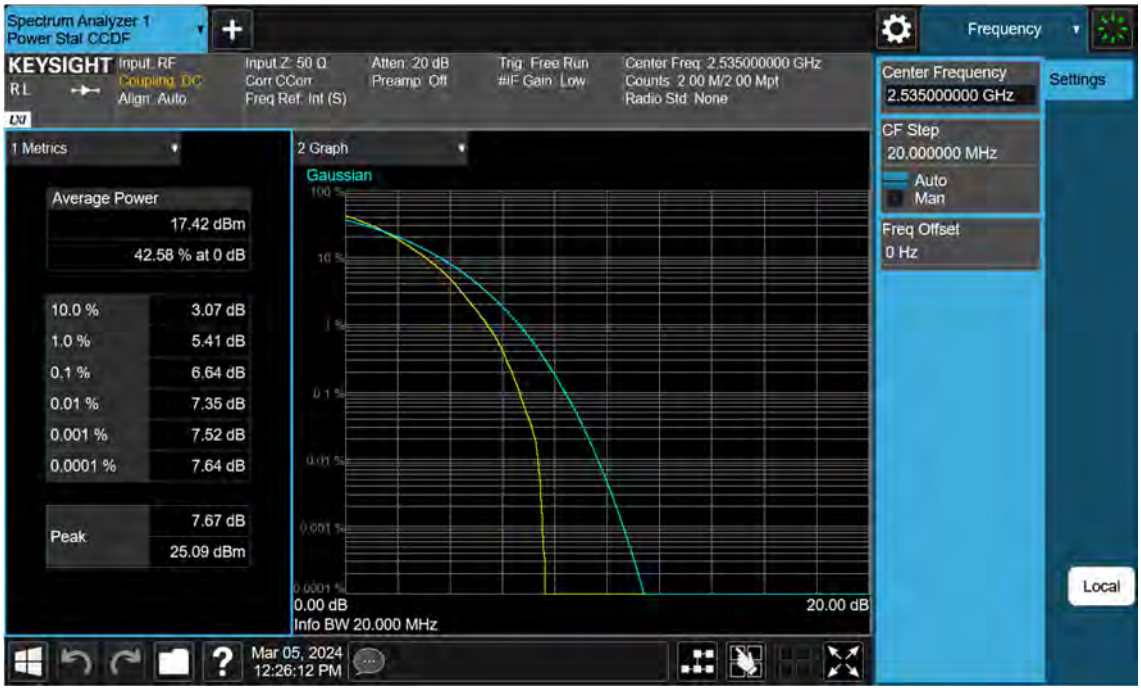
Sub6 n7. PAR Plot (20 M BW_Ch.507000_16QAM)



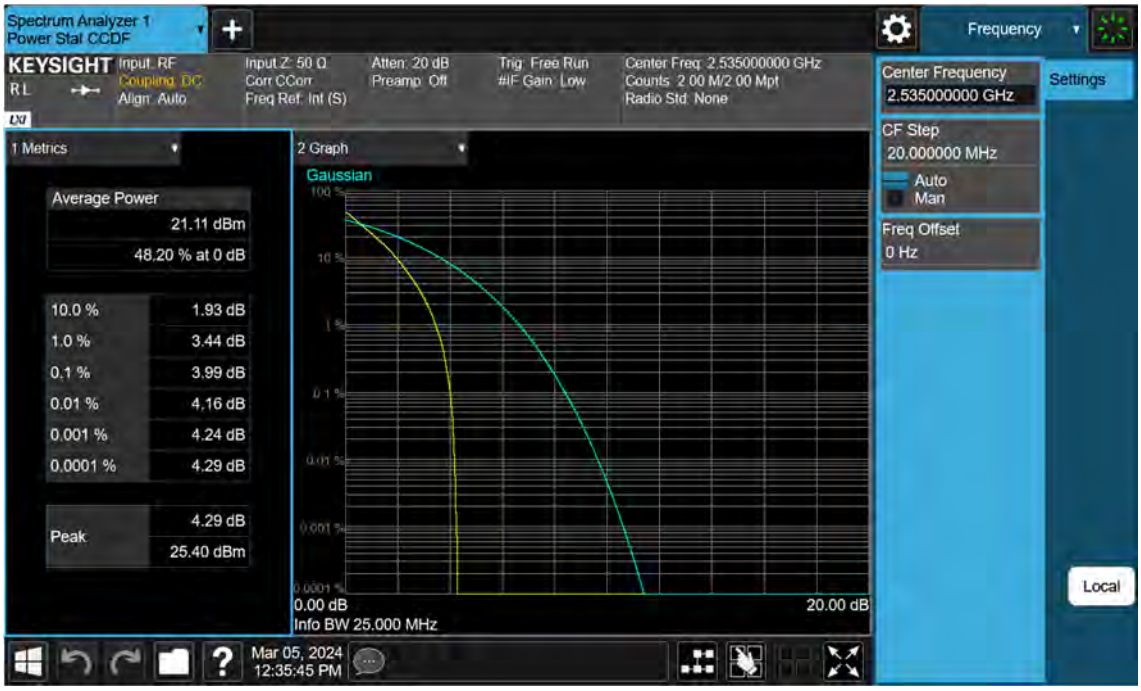
Sub6 n7. PAR Plot (20 M BW_Ch.507000_64QAM)



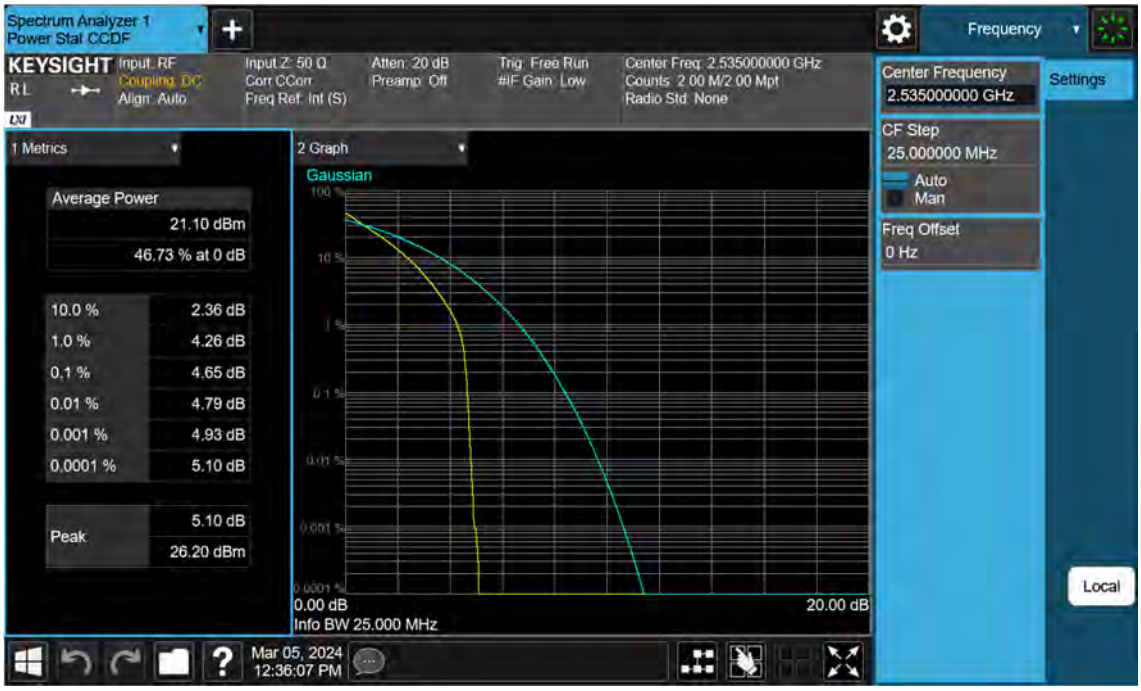
Sub6 n7. PAR Plot (20 M BW_Ch.507000_256QAM)



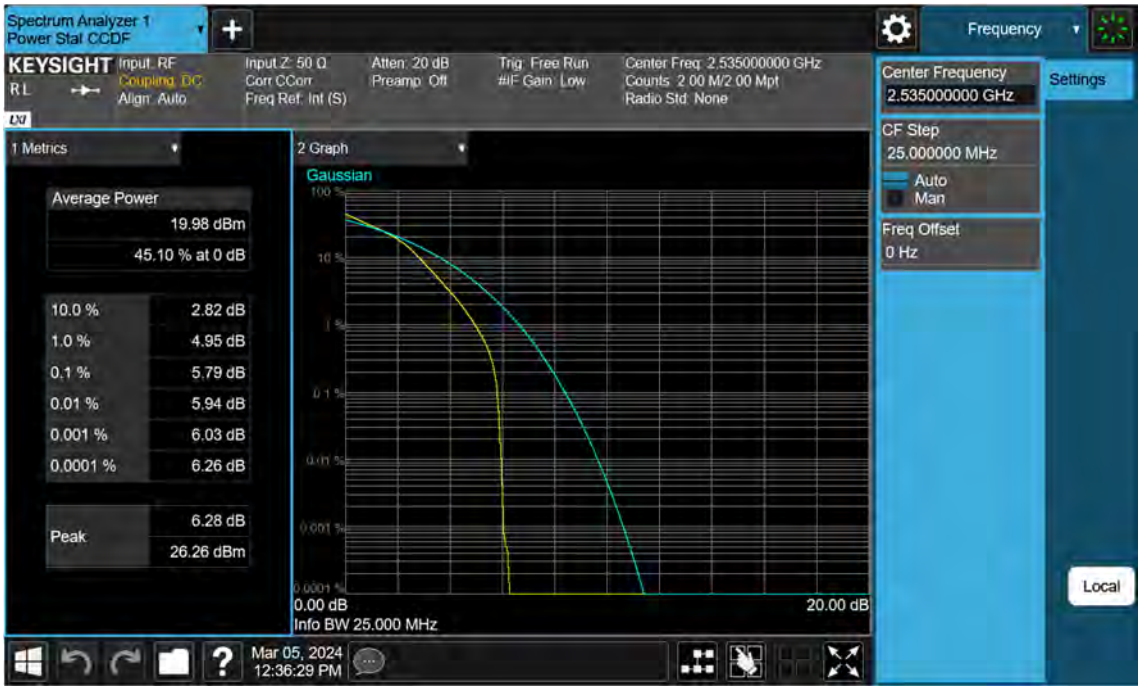
Sub6 n7. PAR Plot (25 M BW_Ch.507000_ BPSK)



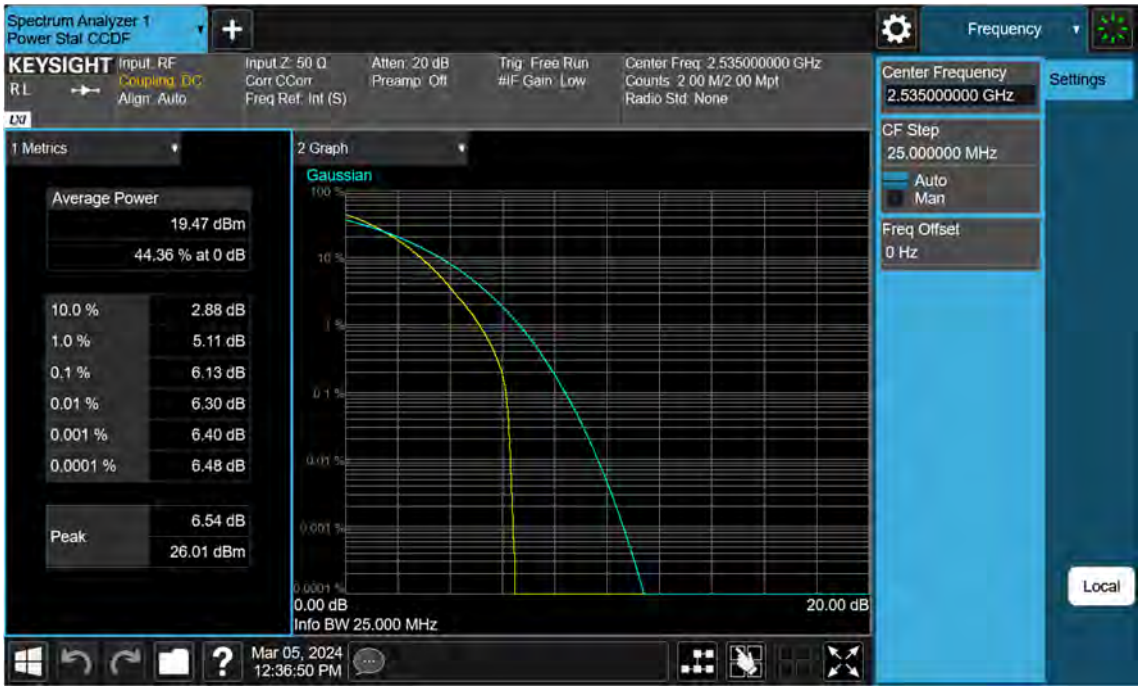
Sub6 n7. PAR Plot (25 M BW_Ch.507000_QPSK)



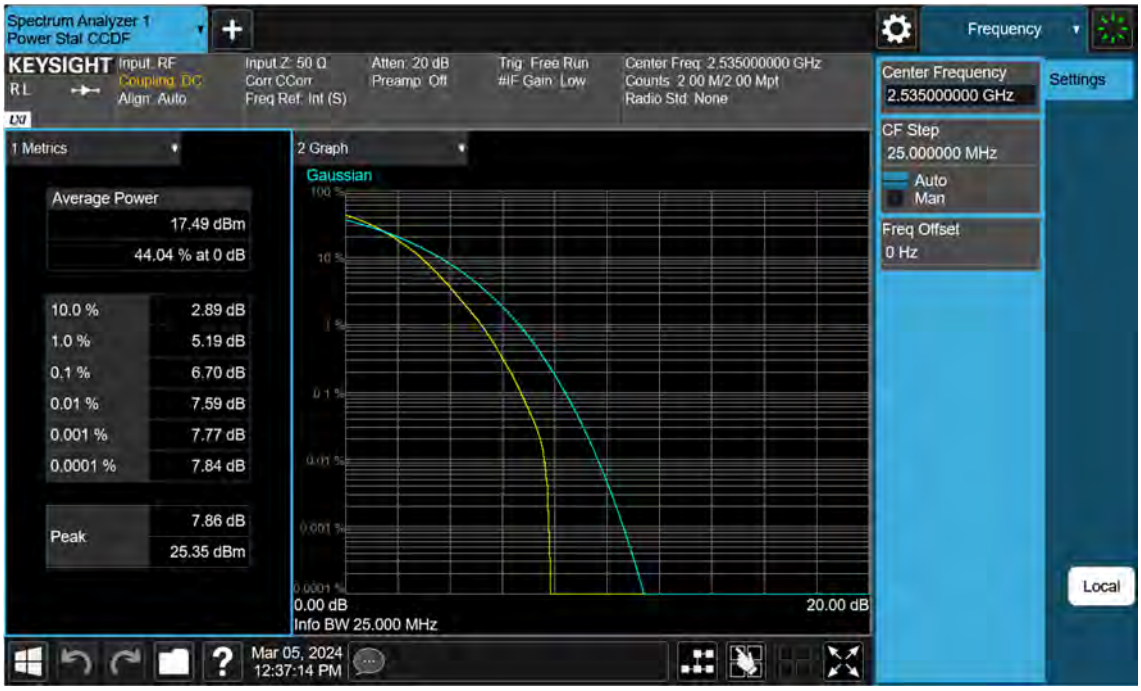
Sub6 n7. PAR Plot (25 M BW_Ch.507000_16QAM)



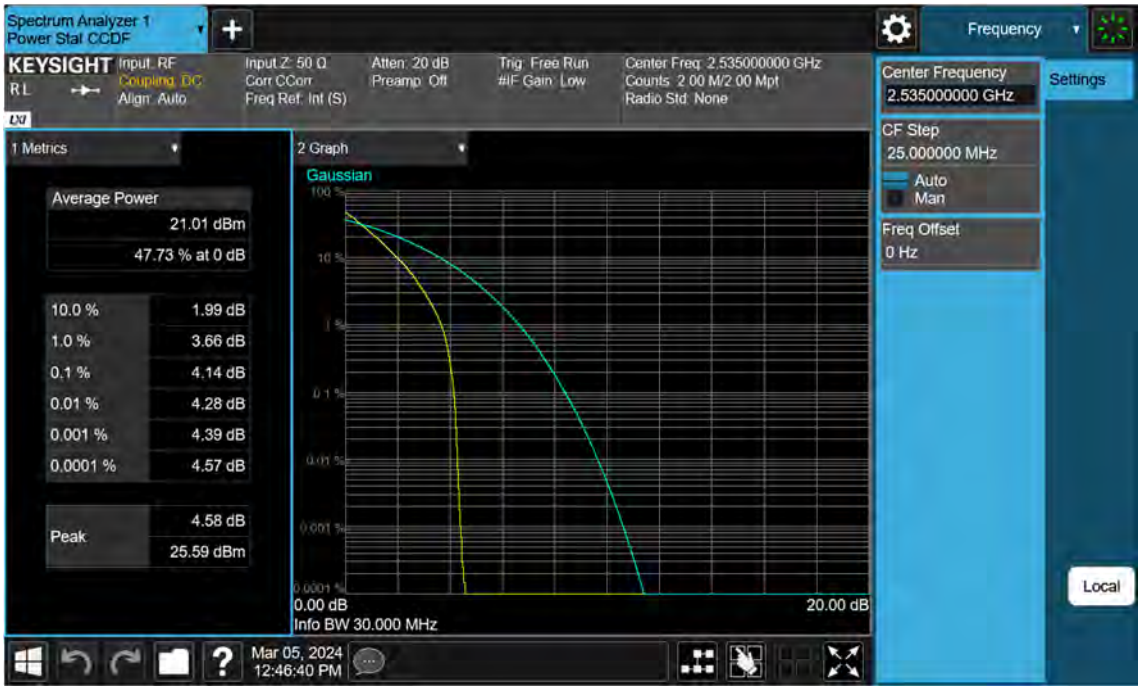
Sub6 n7. PAR Plot (25 M BW_Ch.507000_64QAM)



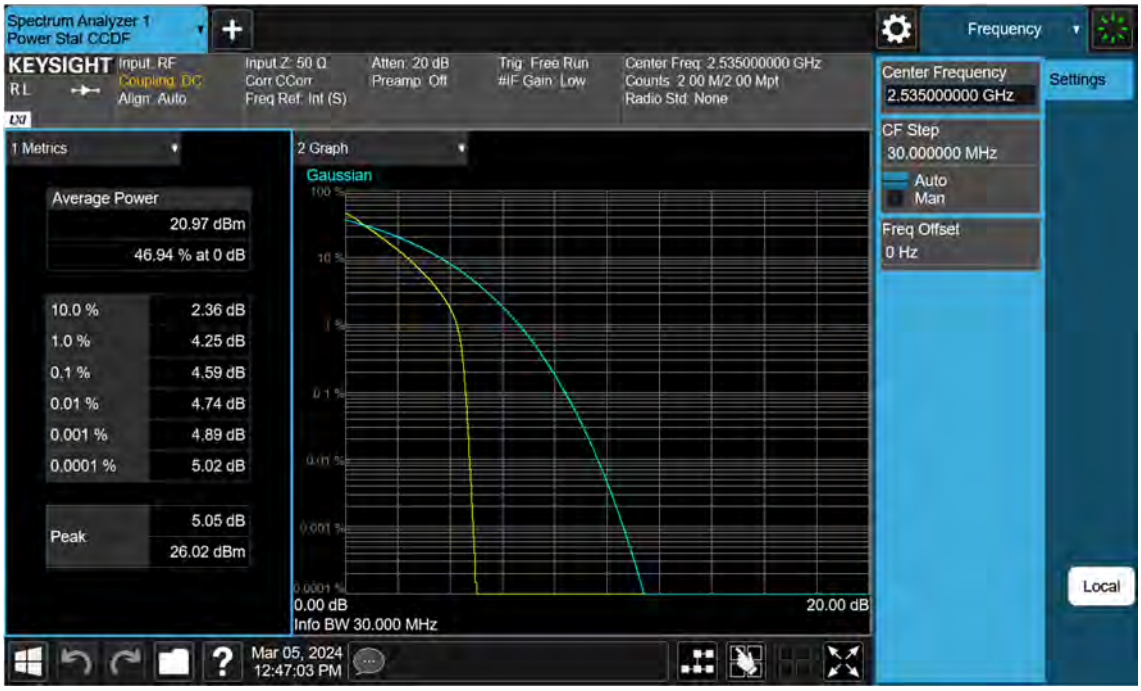
Sub6 n7. PAR Plot (25 M BW_Ch.507000_256QAM)



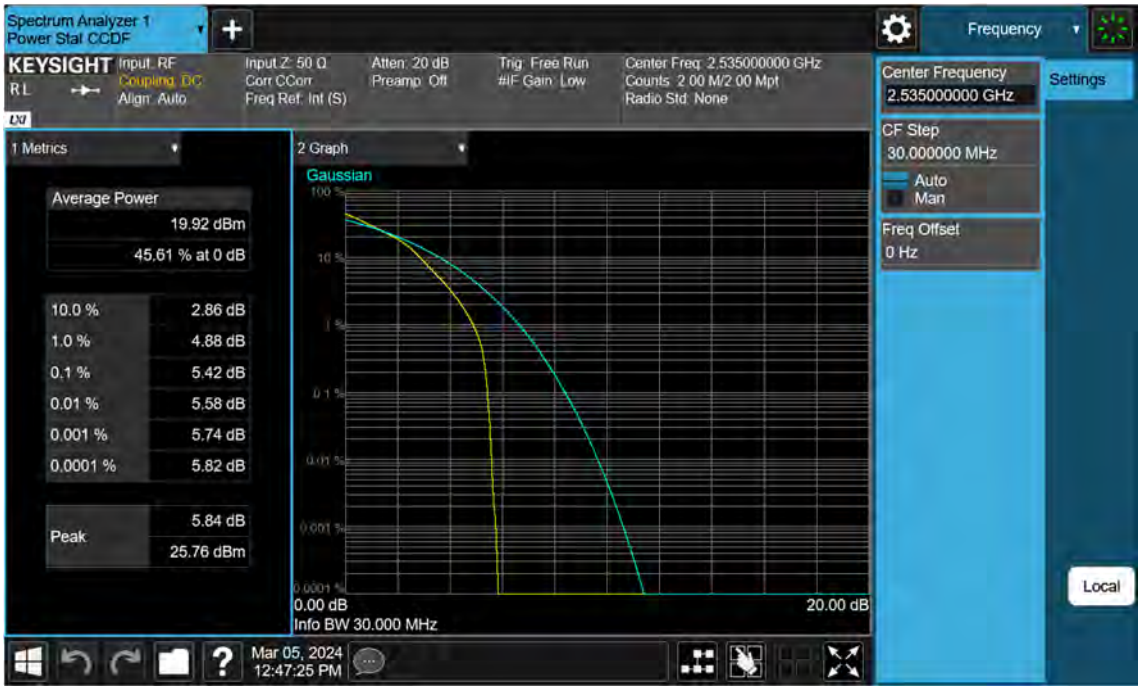
Sub6 n7. PAR Plot (30 M BW_Ch.507000_ BPSK)



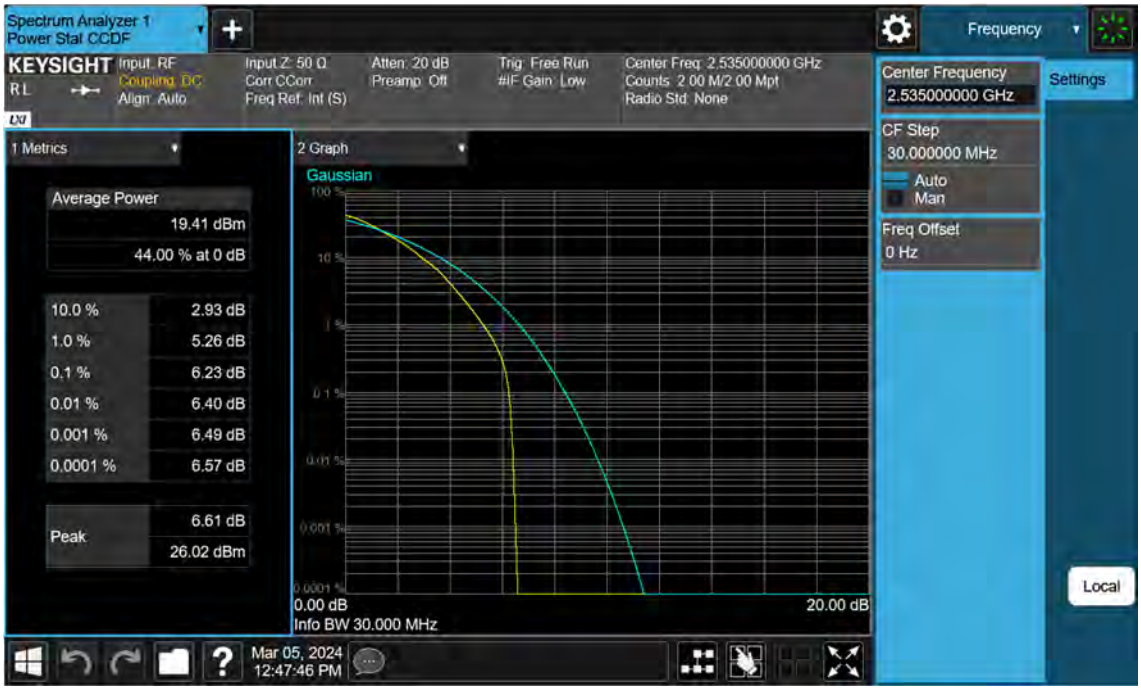
Sub6 n7. PAR Plot (30 M BW_Ch.507000_QPSK)



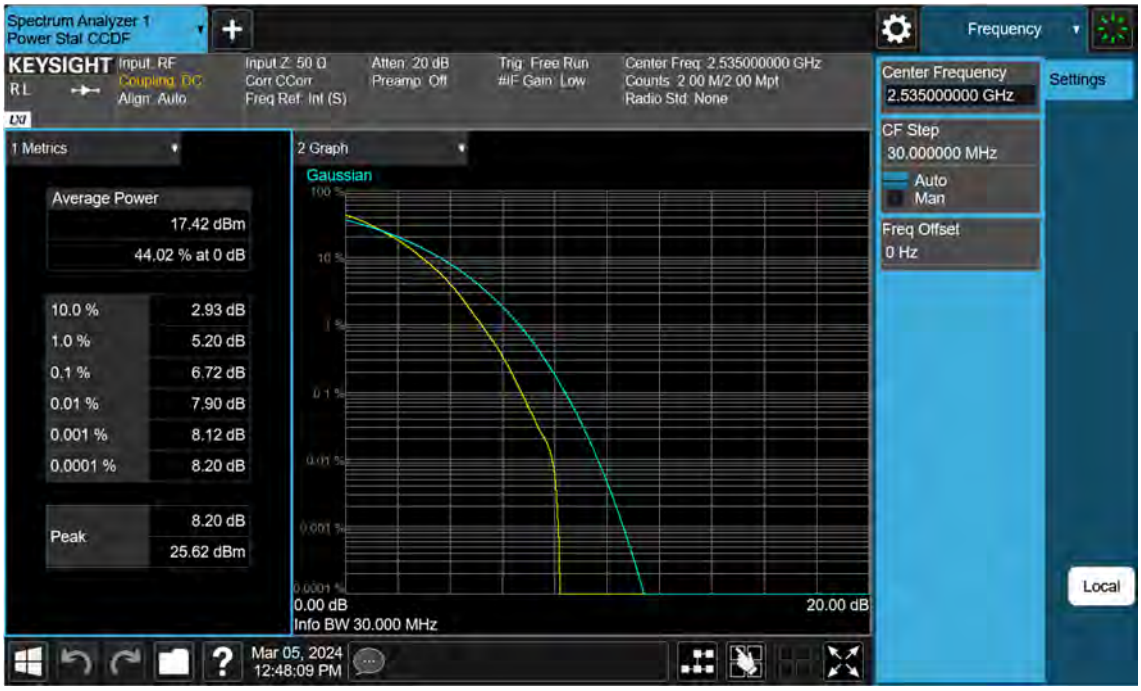
Sub6 n7. PAR Plot (30 M BW_Ch.507000_16QAM)



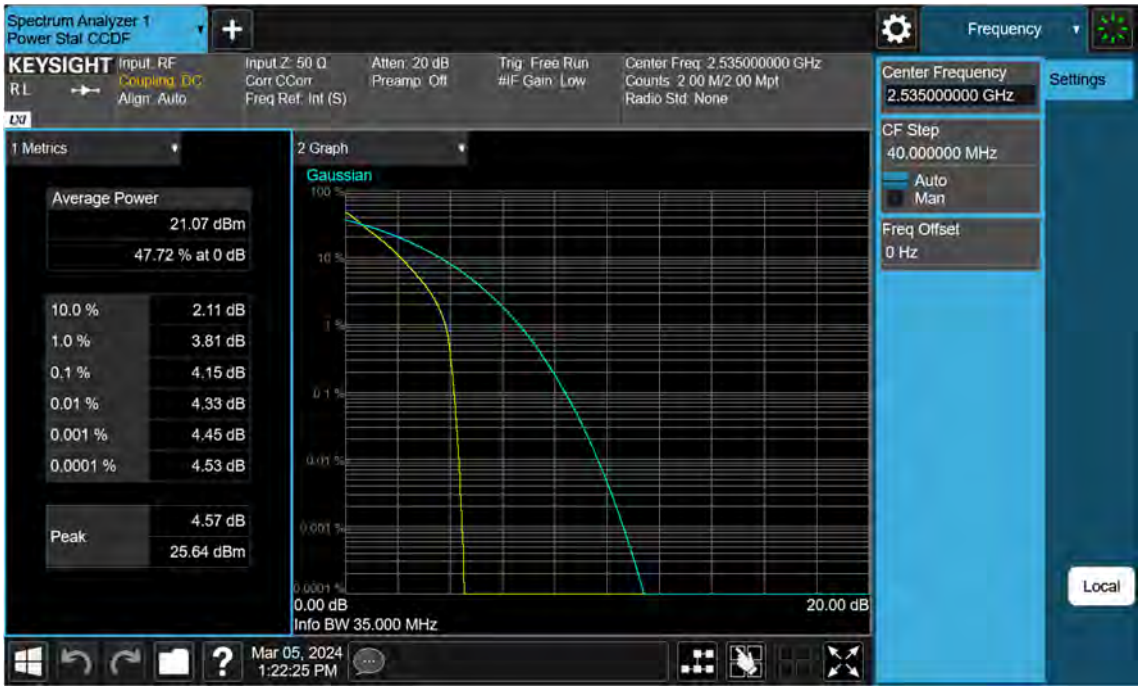
Sub6 n7. PAR Plot (30 M BW_Ch.507000_64QAM)



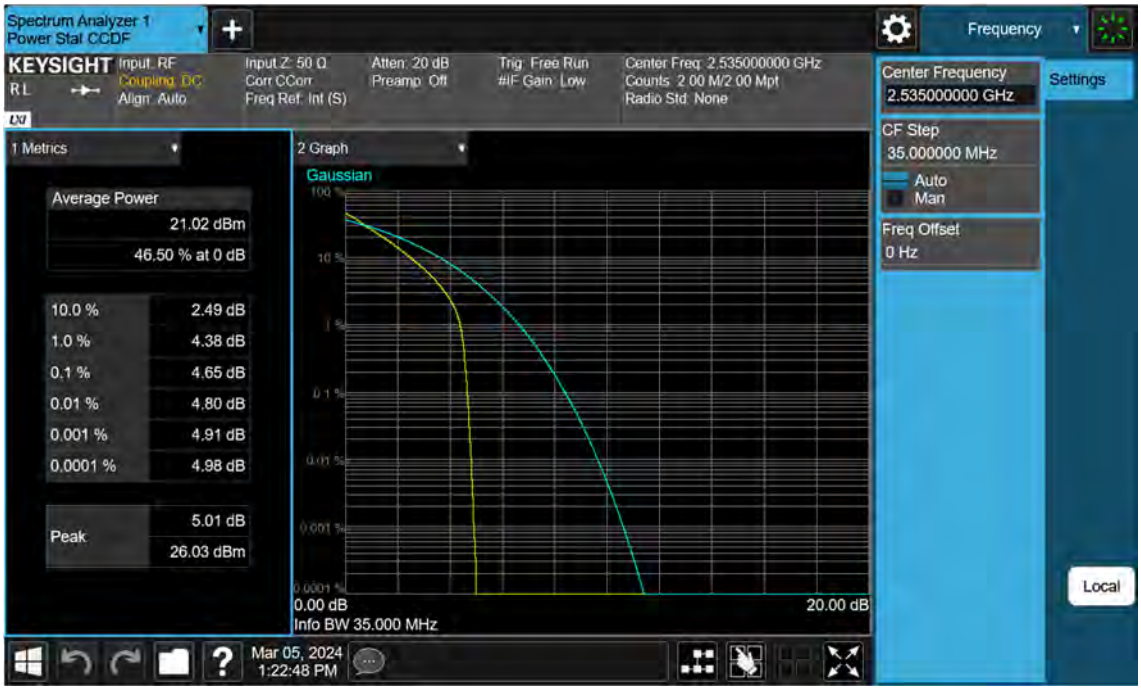
Sub6 n7. PAR Plot (30 M BW_Ch.507000_256QAM)



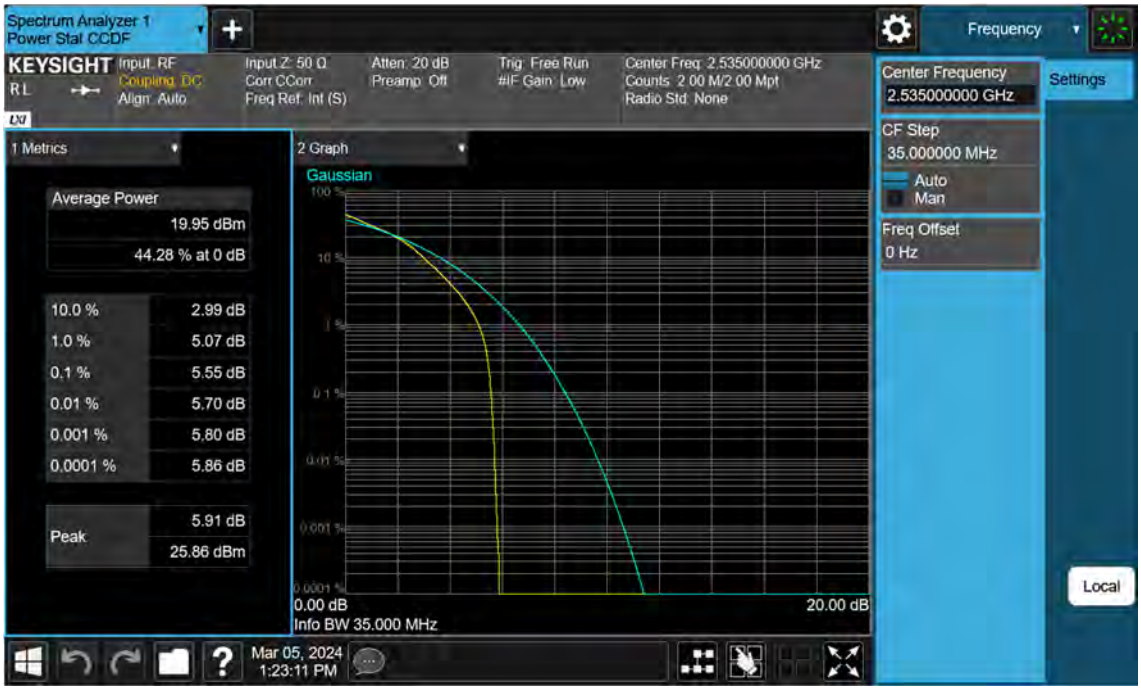
Sub6 n7. PAR Plot (35 M BW_Ch.507000_ BPSK)



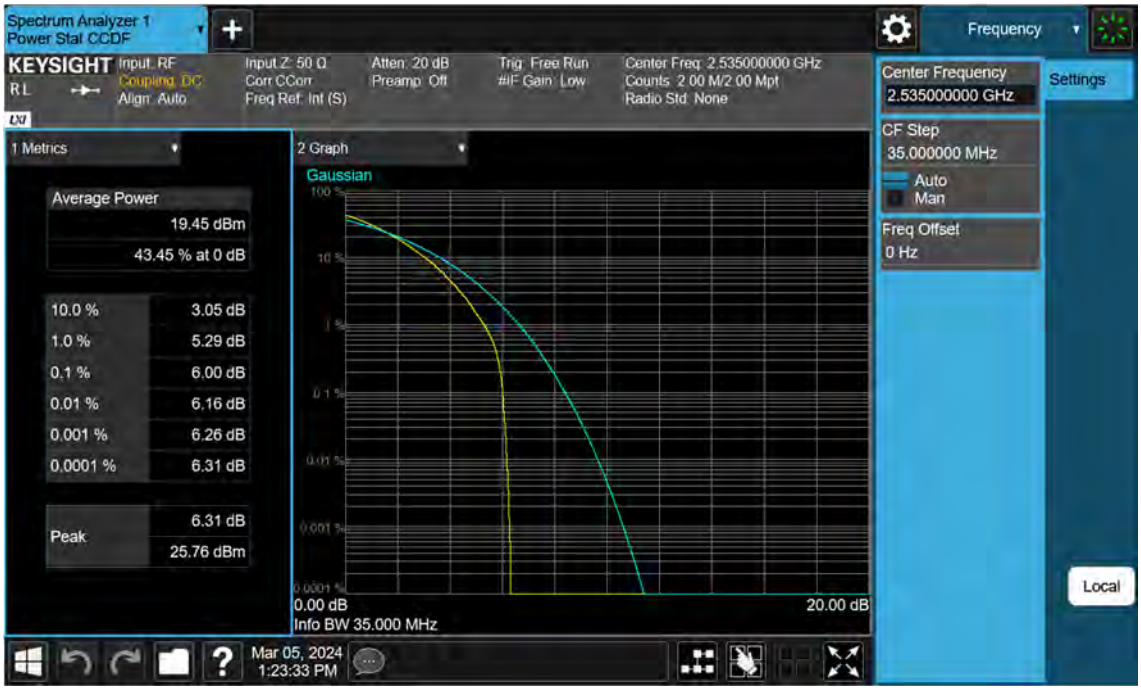
Sub6 n7. PAR Plot (35 M BW_Ch.507000_QPSK)



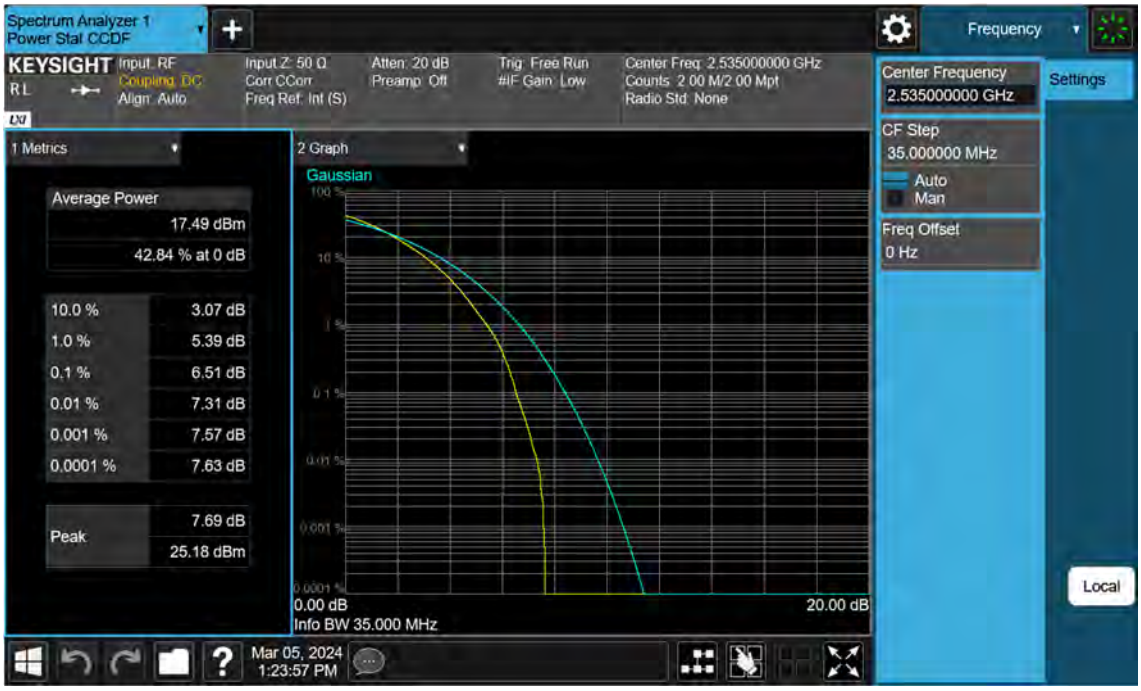
Sub6 n7. PAR Plot (35 M BW_Ch.507000_16QAM)



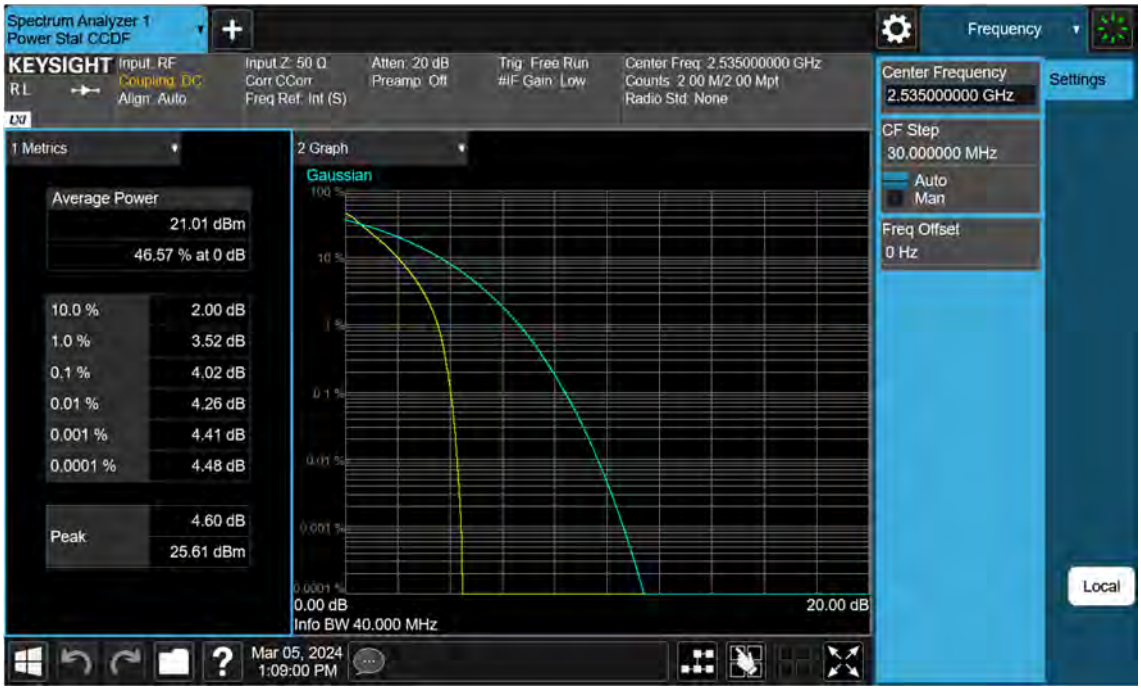
Sub6 n7. PAR Plot (35 M BW_Ch.507000_64QAM)



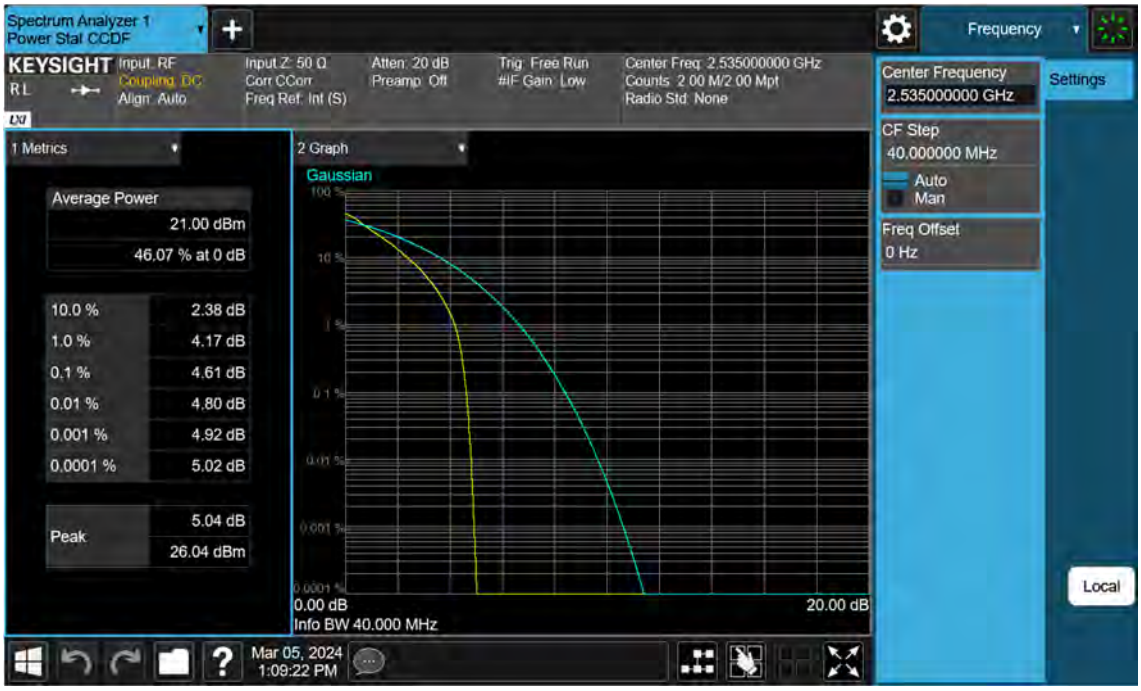
Sub6 n7. PAR Plot (35 M BW_Ch.507000_256QAM)



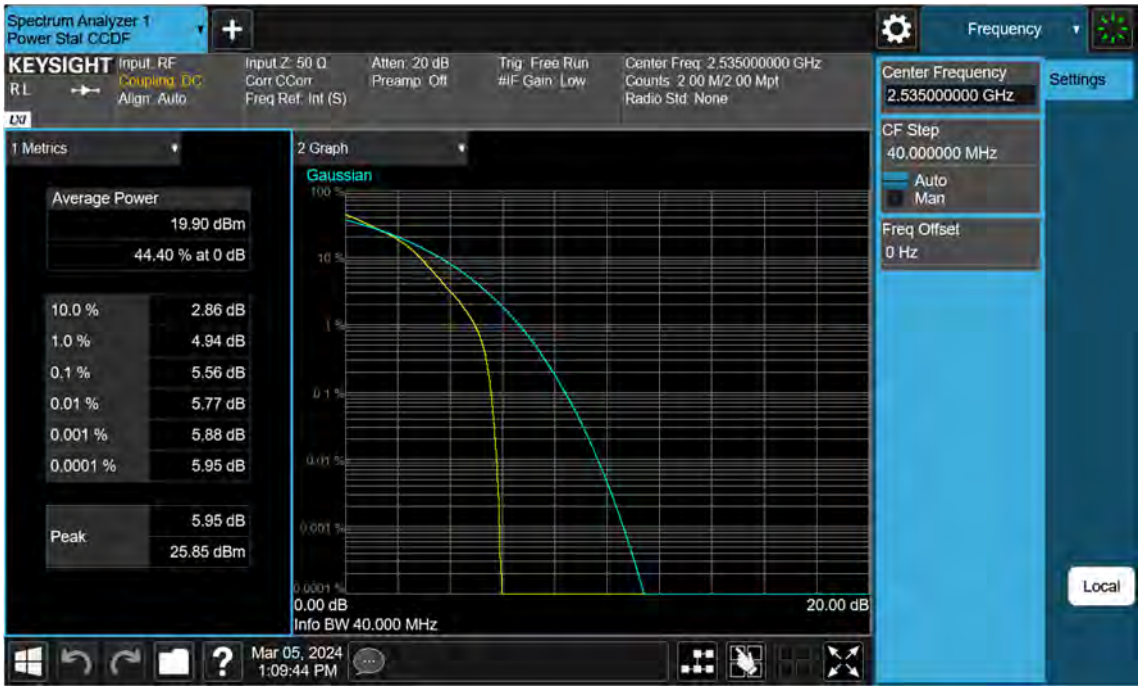
Sub6 n7. PAR Plot (40 M BW_Ch.507000_ BPSK)



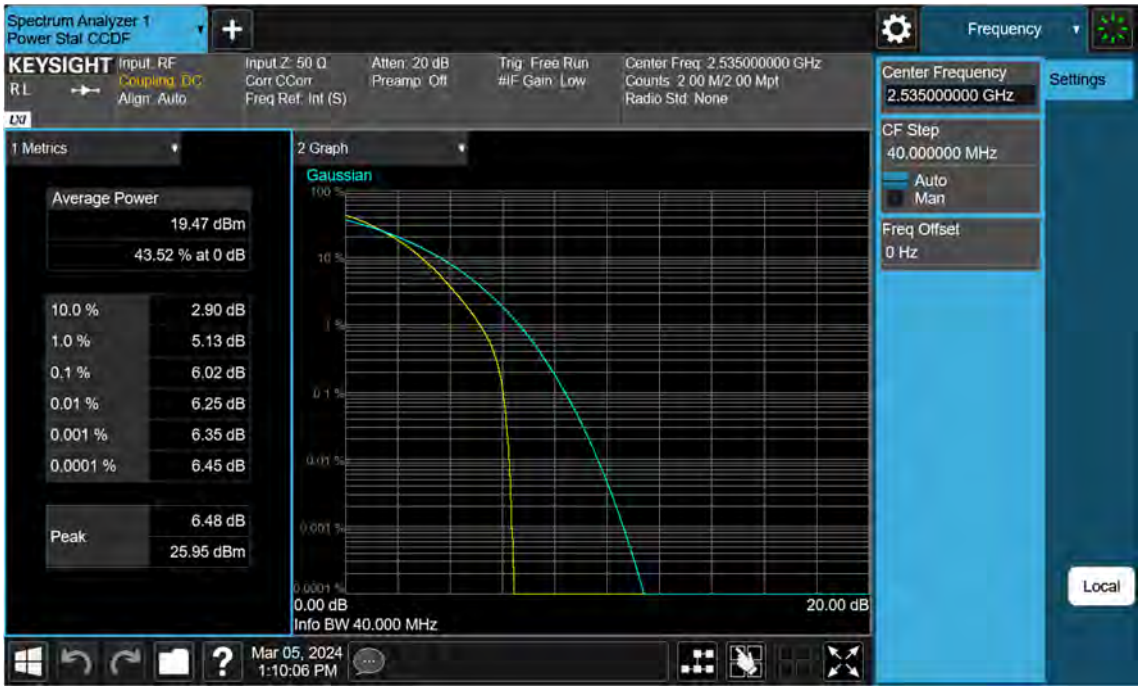
Sub6 n7. PAR Plot (40 M BW_Ch.507000_QPSK)



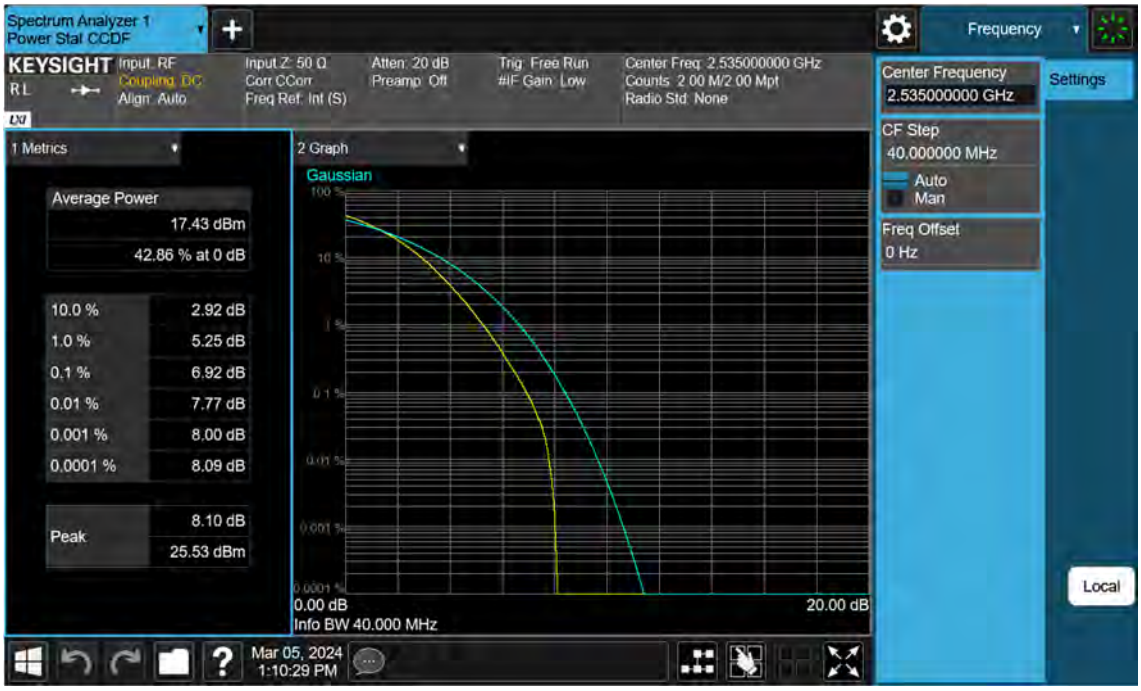
Sub6 n7. PAR Plot (40 M BW_Ch.507000_16QAM)



Sub6 n7. PAR Plot (40 M BW_Ch.507000_64QAM)



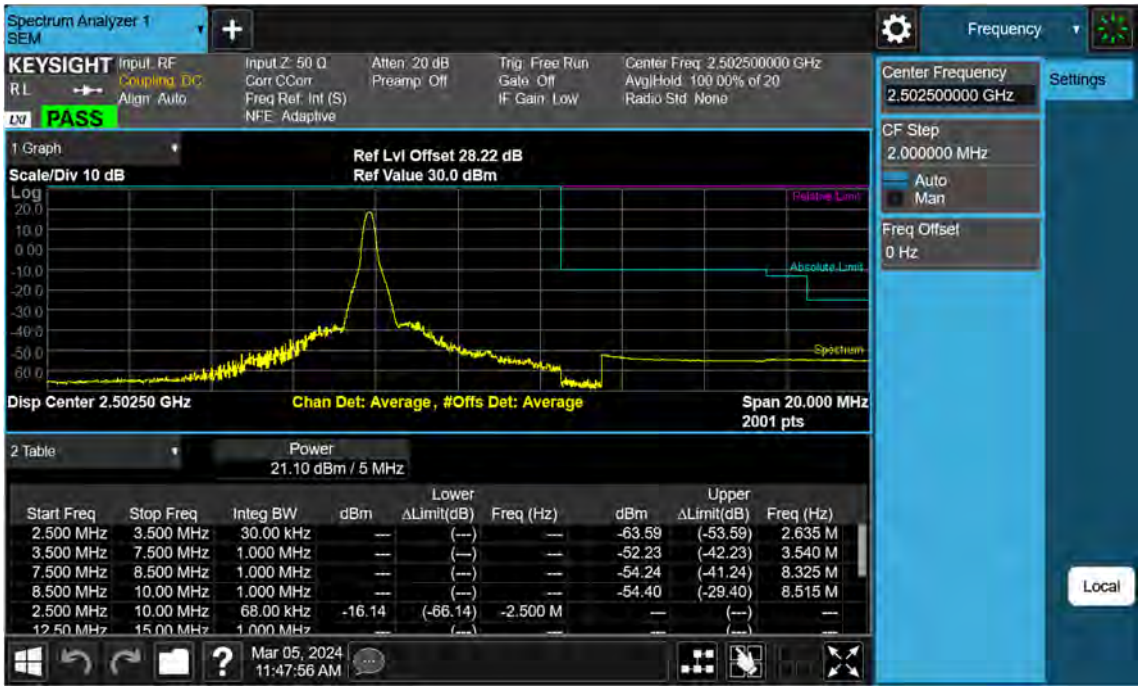
Sub6 n7. PAR Plot (40 M BW_Ch.507000_256QAM)



Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK)-1

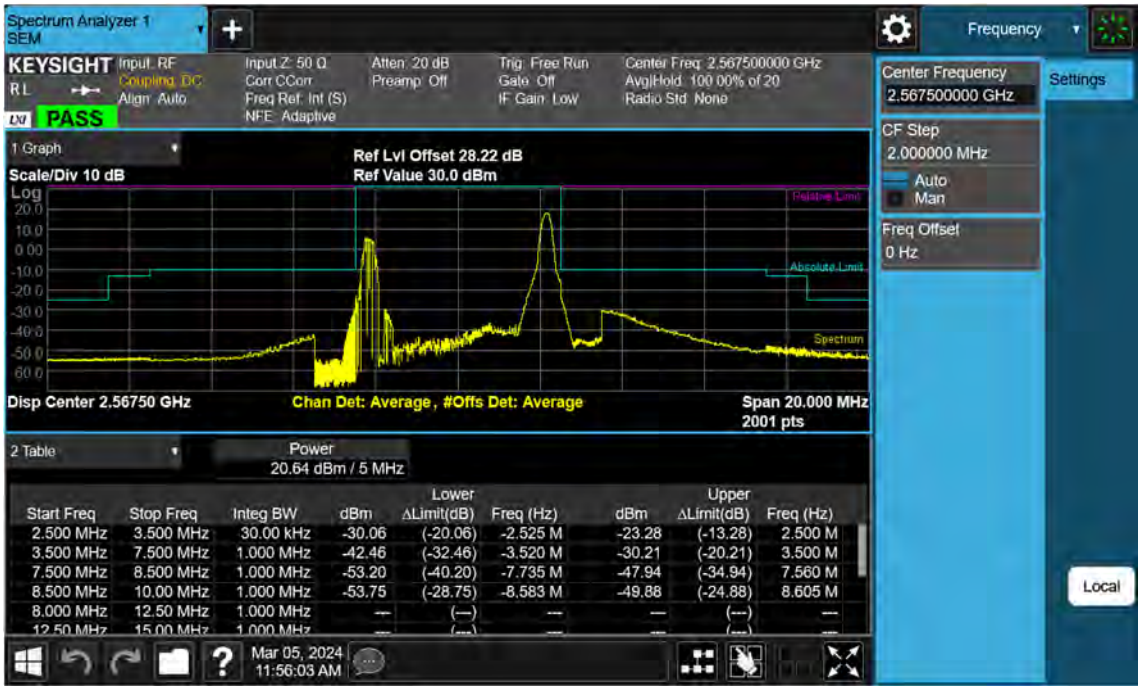
Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK_RB 1)-2



Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (5 MHz Ch.507000 BPSK)

Sub6 n7. High Channel Edge Plot (5 MHz Ch.513500 BPSK RB 1)

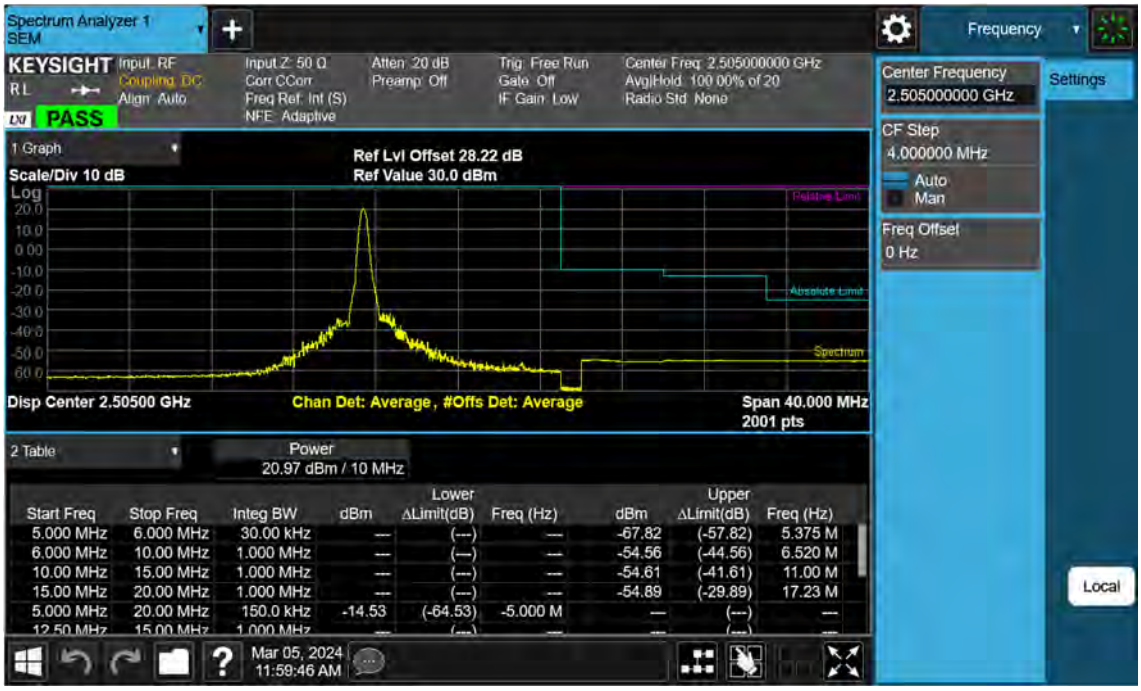


Sub6 n7. High Channel Edge Plot (5 MHz Ch.513500 BPSK)

Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK)-1

Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK RB 1)-2



Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK)-2

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
5.000 MHz	6.000 MHz	200.0 kHz	---	(---)	---	-33.77	(-23.77)	5.000 M
6.000 MHz	10.00 MHz	1.000 MHz	---	(---)	---	-30.15	(-20.15)	6.000 M
10.00 MHz	15.00 MHz	1.000 MHz	---	(---)	---	-38.54	(-25.54)	12.63 M
15.00 MHz	20.00 MHz	1.000 MHz	---	(---)	---	-36.97	(-11.97)	19.43 M
5.000 MHz	20.00 MHz	150.0 kHz	-28.54	(-78.54)	-5.000 M	---	(---)	---

Sub6 n7. Mid Channel Edge Plot (10 MHz Ch.507000 BPSK)

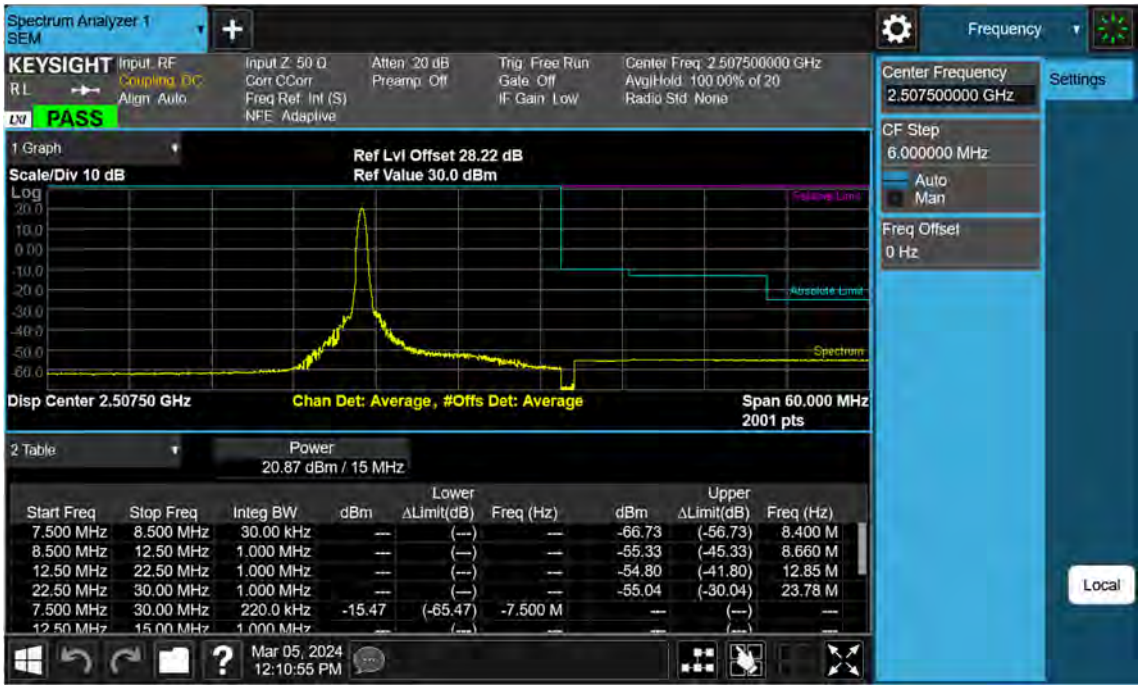
Sub6 n7. High Channel Edge Plot (10 MHz Ch.513000 BPSK RB 1)

Sub6 n7. High Channel Edge Plot (10 MHz Ch.513000 BPSK)

Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK)-1

Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK_RB1)-2



Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (15 MHz Ch.507000 BPSK)

Sub6 n7. High Channel Edge Plot (15 MHz Ch.512500 BPSK RB 1)

Sub6 n7. High Channel Edge Plot (15 MHz Ch.512500 BPSK)

Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK)-1

Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK_RB1)-2

Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (20 MHz Ch.507000 BPSK)

Sub6 n7. High Channel Edge Plot (20 MHz Ch.512000 BPSK RB 1)

Sub6 n7. High Channel Edge Plot (20 MHz Ch.512000 BPSK)

Sub6 n7. Low Channel Edge Plot (25 MHz Ch.502500 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (25 MHz Ch.502500 BPSK)-1

Sub6 n7. Low Channel Edge Plot (25 MHz Ch.502500 BPSK_RB1)-2

Sub6 n7. Low Channel Edge Plot (25 MHz Ch.502500 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (25 MHz Ch.507000 BPSK)

Sub6 n7. High Channel Edge Plot (25 MHz Ch.511500 BPSK RB 1)

Sub6 n7. High Channel Edge Plot (25 MHz Ch.511500 BPSK)

Sub6 n7. Low Channel Edge Plot (30 MHz Ch.503000 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (30 MHz Ch.503000 BPSK)-1

Sub6 n7. Low Channel Edge Plot (30 MHz Ch.503000 BPSK_RB1)-2

Sub6 n7. Low Channel Edge Plot (30 MHz Ch.503000 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (30 MHz Ch.507000 BPSK)

Start Freq	Stop Freq	Integ BW	Lower dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	620.0 kHz	-28.40	(-18.40)	-15.00 M	-28.53	(-18.53)	15.00 M
16.00 MHz	20.00 MHz	1.000 MHz	-36.47	(-26.47)	-16.02 M	-33.75	(-23.75)	16.00 M
20.00 MHz	45.00 MHz	1.000 MHz	-36.90	(-23.90)	-20.00 M	-32.46	(-19.46)	29.25 M
45.00 MHz	60.00 MHz	1.000 MHz	-48.62	(-23.62)	-45.30 M	-44.26	(-19.26)	52.05 M
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n7. High Channel Edge Plot (30 MHz Ch.511000 BPSK RB 1)

Sub6 n7. High Channel Edge Plot (30 MHz Ch.511000 BPSK)

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLimit(dB)	Lower Freq (Hz)	Upper dBm	Upper ΔLimit(dB)	Upper Freq (Hz)
15.00 MHz	16.00 MHz	620.0 kHz	-29.01	(-19.01)	-15.00 M	-31.70	(-21.70)	15.00 M
16.00 MHz	20.00 MHz	1.000 MHz	-32.88	(-22.88)	-16.00 M	-35.36	(-25.36)	17.12 M
20.00 MHz	45.00 MHz	1.000 MHz	-35.44	(-22.44)	-20.75 M	-36.19	(-23.19)	21.75 M
45.00 MHz	60.00 MHz	1.000 MHz	-46.28	(-21.28)	-45.00 M	-54.76	(-29.76)	45.23 M
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

Sub6 n7. Low Channel Edge Plot (35 MHz Ch.503500 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (35 MHz Ch.503500 BPSK)-1

Sub6 n7. Low Channel Edge Plot (35 MHz Ch.503500 BPSK_RB1)-2

Sub6 n7. Low Channel Edge Plot (35 MHz Ch.503500 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (35 MHz Ch.507000 BPSK)

Sub6 n7. High Channel Edge Plot (35 MHz Ch.510500 BPSK RB 1)

Sub6 n7. High Channel Edge Plot (35 MHz Ch.510500 BPSK)

Sub6 n7. Low Channel Edge Plot (40 MHz Ch.504000 BPSK RB 1)-1

Sub6 n7. Low Channel Edge Plot (40 MHz Ch.504000 BPSK)-1

Sub6 n7. Low Channel Edge Plot (40 MHz Ch.504000 BPSK_RB1)-2

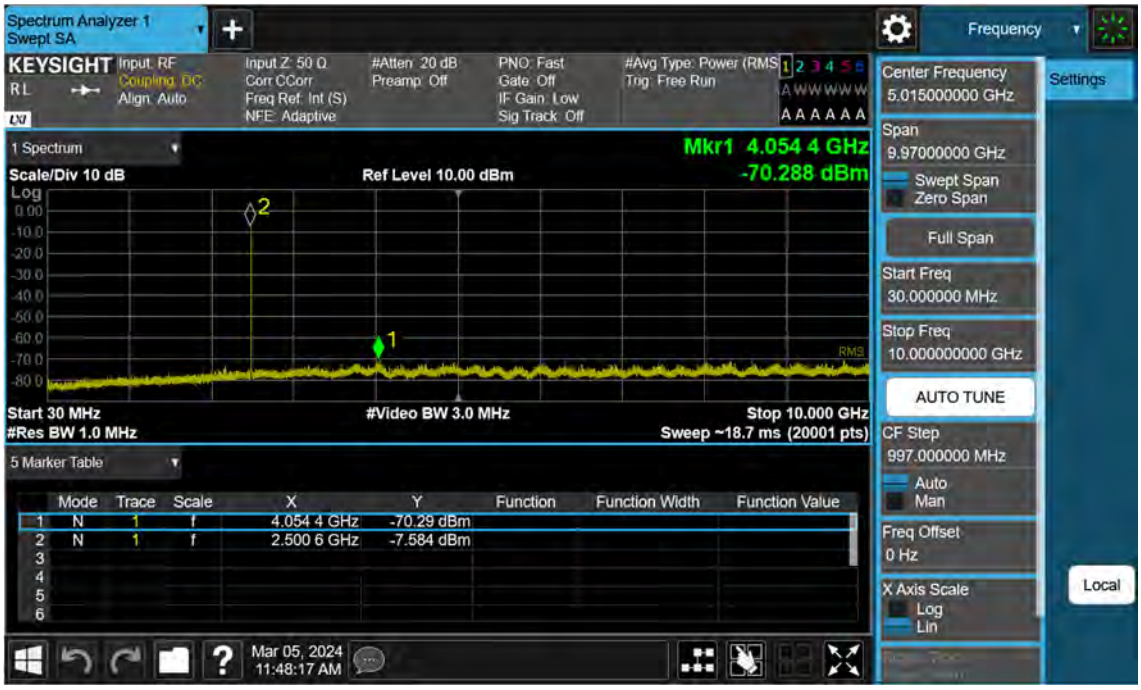
Sub6 n7. Low Channel Edge Plot (40 MHz Ch.504000 BPSK)-2

Sub6 n7. Mid Channel Edge Plot (40 MHz Ch.507000 BPSK)

Sub6 n7. High Channel Edge Plot (40 MHz Ch.510000 BPSK RB 1)

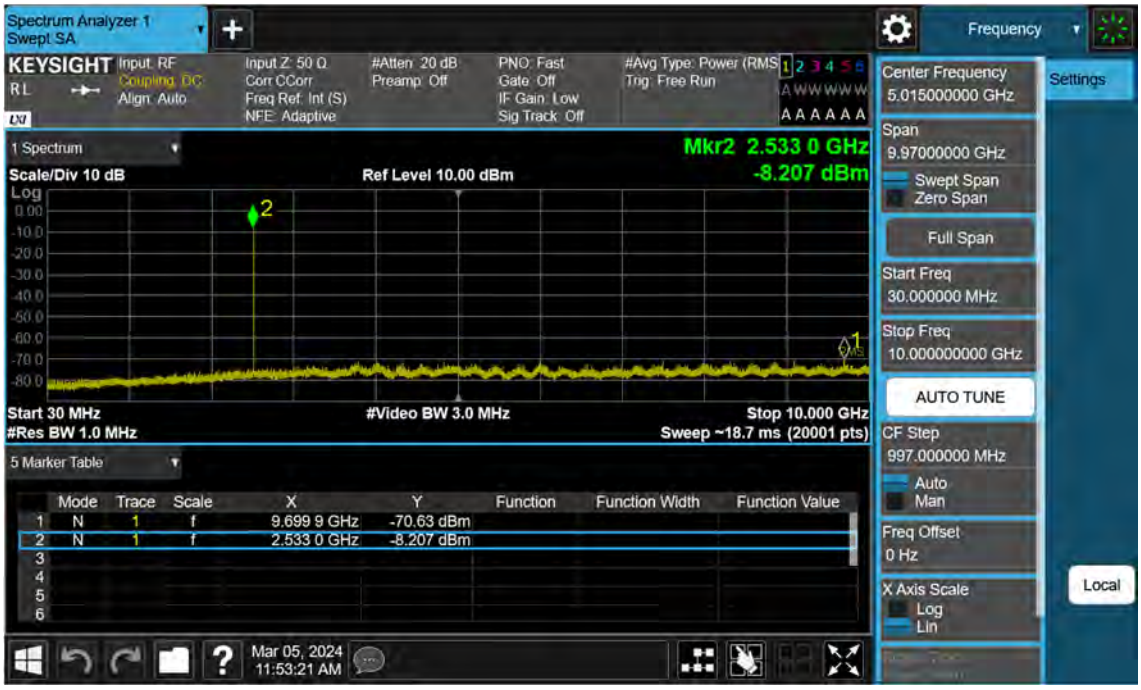
Sub6 n7. High Channel Edge Plot (40 MHz Ch.510000 BPSK)

Sub6 n7. Conducted Spurious_1 (500500ch_5 MHz_BPSK_RB 1)



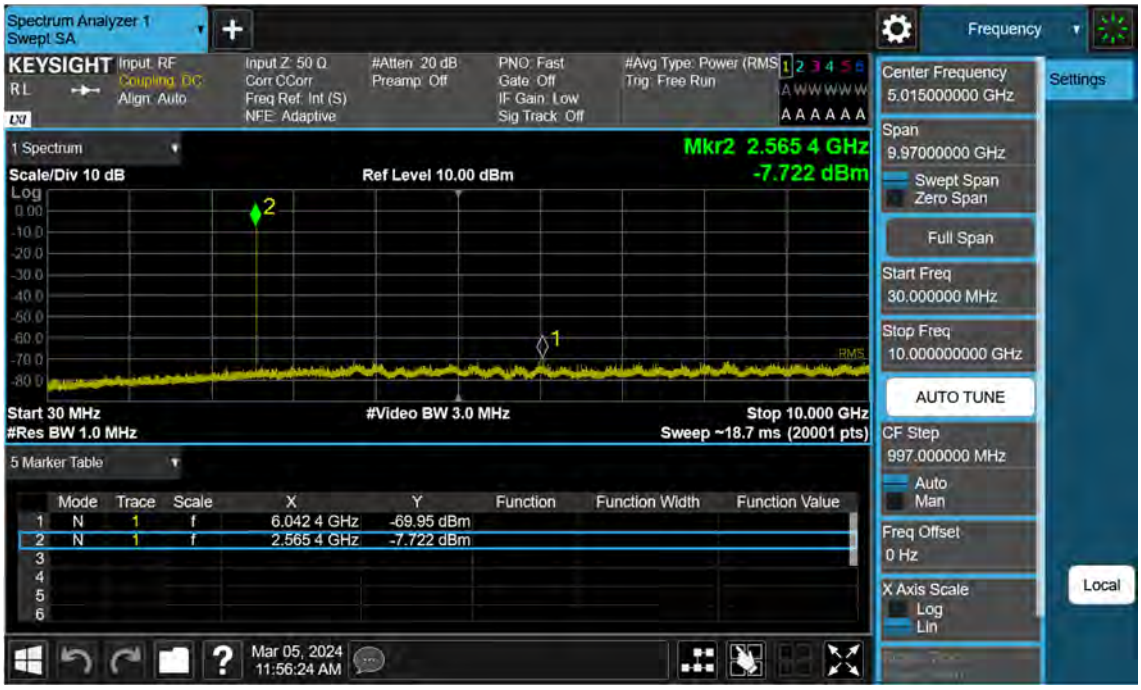
Sub6 n7. Conducted Spurious_2 (500500ch_5 MHz_BPSK_RB 1)

Sub6 n7. Conducted Spurious_1 (507000ch_5 MHz_BPSK_RB 1)



Sub6 n7. Conducted Spurious_2 (507000ch_5 MHz_BPSK_RB 1)

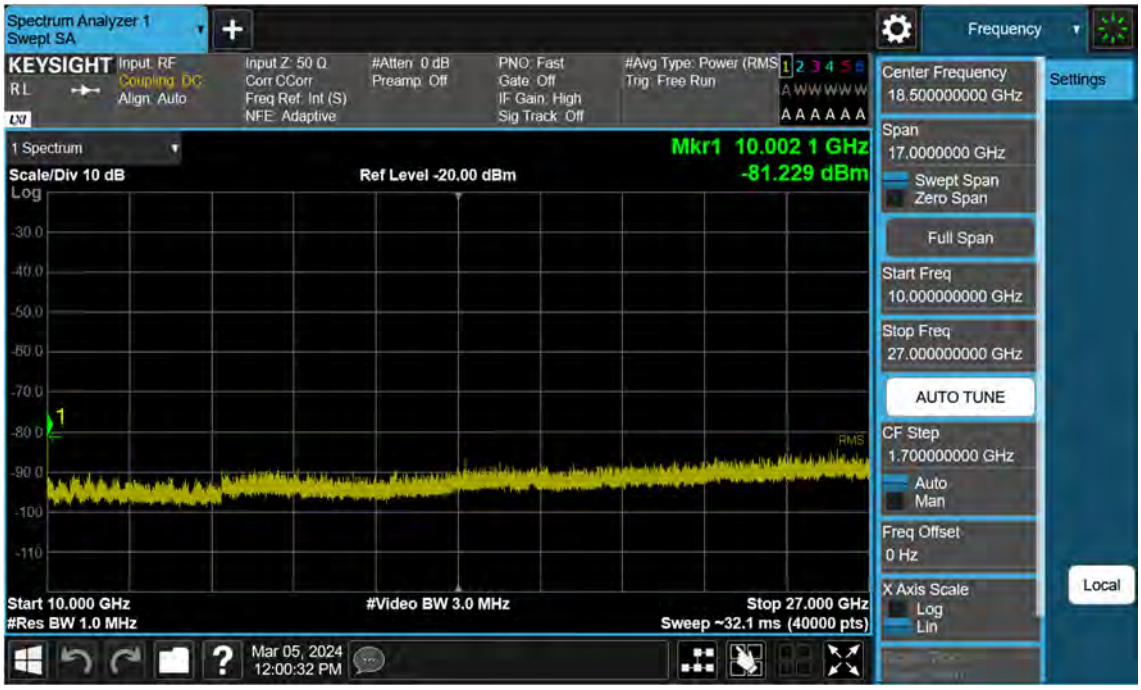
Sub6 n7. Conducted Spurious_1 (513500ch_5 MHz_BPSK_RB 1)



Sub6 n7. Conducted Spurious_2 (513500ch_5 MHz_BPSK_RB 1)

Sub6 n7. Conducted Spurious_1 (501000ch_10 MHz_BPSK_RB 1)

Sub6 n7. Conducted Spurious_2 (501000ch_10 MHz_BPSK_RB 1)



Sub6 n7. Conducted Spurious_1 (507000ch_10 MHz_BPSK_RB 1)