HCT CO.,LTD.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA
TEL: +82-31-645-6300 FAX: +82-31-645-6401

FCC Sub6 REPORT

Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

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

Date of Issue:
November 02, 2020

Location:
HCT CO., LTD.,
74, Seoicheon-ro 578beon-gil, Majang-myeon,
Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-2011-FC006

FCC ID:	**A3LSMG991U**
APPLICANT:	**SAMSUNG Electronics Co., Ltd.**

Model(s): SM-G991U
Additional Model(s): SM-G991U1
EUT Type: Mobile Phone
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §27, §2

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n66 (5)	1712.5 – 1777.5	4M49G7D	PI/2 BPSK	0.272	24.35
		4M50G7D	QPSK	0.274	24.38
		4M48W7D	16QAM	0.220	23.43
		4M51W7D	64QAM	0.146	21.63
		4M48W7D	256QAM	0.100	20.00
Sub6 n66 (10)	1715.0 – 1775.0	8M97G7D	PI/2 BPSK	0.271	24.33
		8M98G7D	QPSK	0.271	24.33
		9M01W7D	16QAM	0.211	23.24
		8M94W7D	64QAM	0.142	21.52
		8M97W7D	256QAM	0.096	19.84
Sub6 n66 (15)	1717.5 – 1772.5	13M4G7D	PI/2 BPSK	0.270	24.31
		13M5G7D	QPSK	0.269	24.29
		13M5W7D	16QAM	0.214	23.30
		13M5W7D	64QAM	0.145	21.62
		13M4W7D	256QAM	0.099	19.97
Sub6 n66 (20)	1720.0 – 1770.0	17M9G7D	PI/2 BPSK	0.287	24.57
		17M9G7D	QPSK	0.288	24.59
		17M9W7D	16QAM	0.224	23.51
		17M9W7D	64QAM	0.154	21.87
		18M0W7D	256QAM	0.104	20.17
Sub6 n66 (30)	1725.0 – 1765.0	28M7G7D	PI/2 BPSK	0.282	24.50
		28M7G7D	QPSK	0.283	24.51
		28M6W7D	16QAM	0.223	23.48
		28M7W7D	64QAM	0.151	21.80
		28M7W7D	256QAM	0.105	20.21
Sub6 n66 (40)	1730.0 – 1760.0	38M6G7D	PI/2 BPSK	0.283	24.52
		38M6G7D	QPSK	0.290	24.62
		38M7W7D	16QAM	0.227	23.55
		38M6W7D	64QAM	0.153	21.84
		37M6W7D	256QAM	0.109	20.37

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)

REVIEWED BY

Report prepared by : Se Wook Park
Engineer of Telecommunication Testing Center

Report approved by : Jong Seok Lee
Manager of Telecommunication Testing Center

This test results were applied only to the test methods required by the standard.

This laboratory is not accredited for the test results marked *.
The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2011-FC006	November 02, 2020	- First Approval Report

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

Table of Contents

MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMG991U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§27, §2
EUT Type:	Mobile Phone
Model(s):	SM-G991U
Additional Model(s):	SM-G991U1
SCS(kHz):	15
Bandwidth(MHz):	5, 10, 15, 20, 30, 40
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency:	1712.5 MHz – 1777.5 MHz (Sub6 n66(5 MHz)) 1715.0 MHz – 1775.0 MHz (Sub6 n66(10 MHz)) 1717.5 MHz – 1772.5 MHz (Sub6 n66(15 MHz)) 1720.0 MHz – 1770.0 MHz (Sub6 n66(20 MHz)) 1725.0 MHz – 1765.0 MHz (Sub6 n66(30 MHz)) 1730.0 MHz – 1760.0 MHz (Sub6 n66(40 MHz))
Date(s) of Tests:	September 30, 2020 ~ November 02, 2020

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS, CDMA(BC0, 1, 10) and LTE, Sub6.

It also supports IEEE 802.11 a/b/g/n/ac/ax (HT20/40/80), Bluetooth, BT LE, NFC, WPT, mmWave(n260/261).

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
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- 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 1MHz
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 1GHz, 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 = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
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 1GHz, 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;

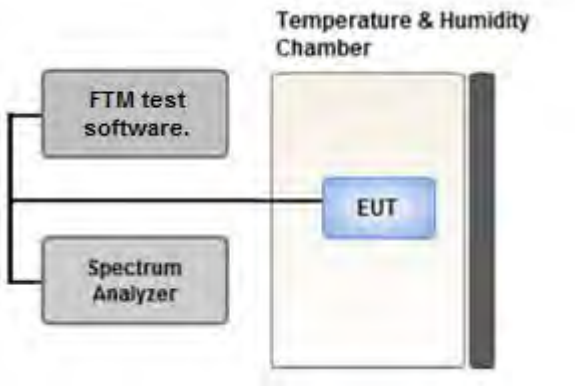
$$Result_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   Where: $P_g$is the generator output power into the substitution antenna.

   If the fundalmatal frequency is below 1GHz, 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)

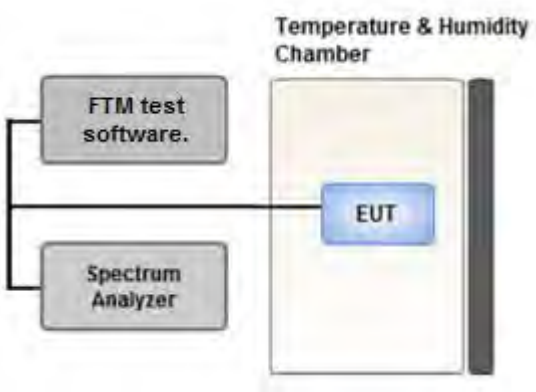
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

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.

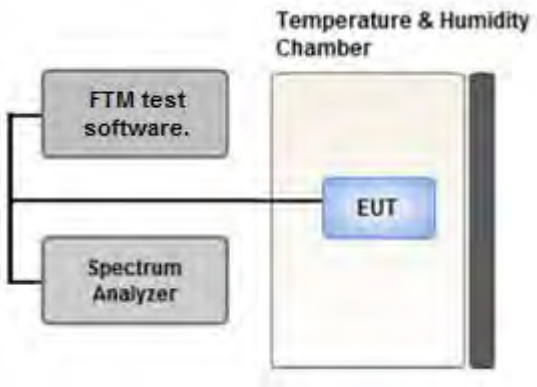
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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 26dB 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.

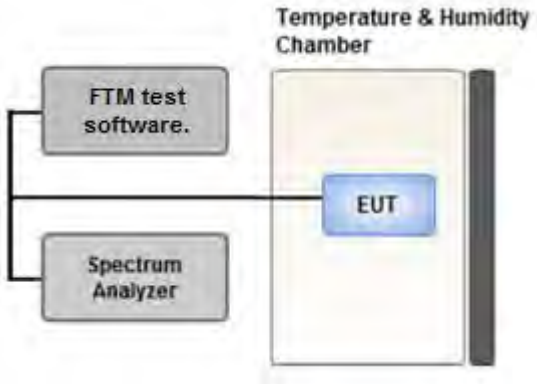
All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

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 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

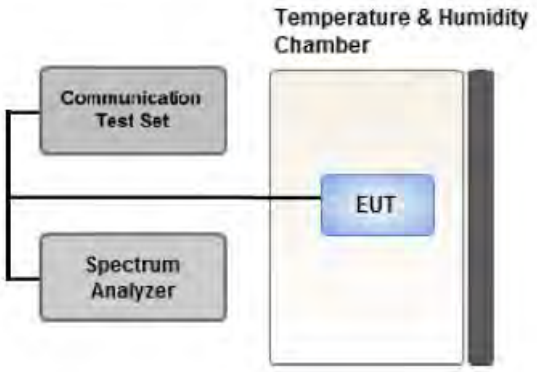
Test Notes

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

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

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

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

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

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
  All EN-DC mode of operation were investigated and the worst case configuration results are reported.
  (Worst case: 5A-n66A)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.
- SM-G991U & additional models were tested and the worst case results are reported.
  (Worst case : SM-G991U)

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1	1	Z
Radiated Spurious and Harmonic Emissions	QPSK	1	1	Y

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
  (Worst case: PI/2 BPSK)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.
- SM-G991U & additional models were tested and the worst case results are reported.
  (Worst case : SM-G991U)

[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, 30, 40	Mid	Full RB	0
Band Edge	PI/2 BPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	51
		15	Low	1	0
			High	1	78
		20	Low	1	0
			High	1	105
		30	Low	1	0
			High	1	159
		40	Low	1	0
			High	1	215
		5, 10, 15, 20, 30, 40	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	5, 10, 15, 20, 30, 40	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Date	Calibration Interval	Calibration Due
T&M SYSTEM	FBSR-02B(WHK1.2/15G-10EF)/H.P.F	-	03/09/2020	Annual	03/09/2021
T&M SYSTEM	FBSR-02B(WHK3.3/18G-10EF)/H.P.F	-	03/09/2020	Annual	03/09/2021
Hewlett Packard	11667B / Power Splitter(DC~26.5 GHz)	11275	04/27/2020	Annual	04/27/2021
Hewlett Packard	E3632A/DC Power Supply	MY40004427	09/16/2020	Annual	09/16/2021
Schwarzbeck	UHAP/ Dipole Antenna	557	03/29/2019	Biennial	03/29/2021
Schwarzbeck	UHAP/ Dipole Antenna	558	03/29/2019	Biennial	03/29/2021
ESPEC	SU-642 / Chamber	93008124	03/18/2020	Annual	03/18/2021
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	147	08/29/2019	Biennial	08/29/2021
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	9120D-1298	09/25/2019	Biennial	09/25/2021
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	04/29/2019	Biennial	04/29/2021
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170124	02/11/2020	Biennial	02/11/2022
Agilent	N9020A/Signal Analyzer(10Hz~26.5GHz)	MY51110063	04/27/2020	Annual	04/27/2021
Hewlett Packard	8493C/ATTENUATOR(20dB)	17280	06/04/2020	Annual	06/04/2021
REOHDE & SCHWARZ	FSV40/Spectrum Analyzer(10Hz~40GHz)	101055	05/13/2020	Annual	05/13/2021
Agilent	8960 (E5515C)/ Base Station	MY48360800	08/26/2020	Annual	08/26/2021
Schwarzbeck	FMZB1513/ Loop Antenna(9kHz~30MHz)	1513-175	04/26/2019	Biennial	04/26/2021
Schwarzbeck	VULB9160/ Bilog Antenna	3150	03/12/2019	Biennial	03/12/2021
Schwarzbeck	VULB9160/ Hybrid Antenna	760	03/22/2019	Biennial	03/22/2021
Anritsu Corp.	MT8821C/Wideband Radio Communication Tester	6262116770	07/22/2020	Annual	07/22/2021
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6201026545	01/22/2020	Annual	01/22/2021
REOHDE & SCHWARZ	SMB100A/ SIGNAL GENERATOR (100kHz~40GHz)	177633	07/13/2020	Annual	07/13/2021
KEYSIGHT	N9030B / Signal Analyzer(5Hz~40.0GHz)	MY55480167	06/04/2020	Annual	06/04/2021
KEYSIGHT	E7515B / 5G Wireless Tester	MY58300756	01/07/2020	Annual	01/07/2021
Mini-Circuits	ZC4PD-K1844+ / 4-Way Divider	942907	09/14/2020	Annual	09/14/2021
HCT CO., LTD.,	FCC LTE Mobile Conducted RF Automation Test Software	-	-	-	-

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).
3. Model : FSV40/Spectrum

- Use date of equipment : September 23, 2020 ~ October 12, 2020, October 14, 2020 ~

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)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05

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(h)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§2.1046	N/A	**See Note1**
Peak- to- Average Ratio	27.50(d)(5)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. See SAR Report
2. The same samples were used for SAR and EMC
3. All conducted tests except frequency stability were tested using FTM test software.
   (Frequency stability was 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(d)(4)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§2.1053, §27.53(h)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

Note:

1. Radiateded tests were tested using FTM test software.

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
349000	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)

PSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1712.5	Sub6 n66/ 5 MHz [15 kHz]	PI/2 BPSK	-15.69	16.23	9.76	1.87	V	< 1.00	0.258	24.12
		QPSK	-15.62	16.30	9.76	1.87	H		0.262	24.19
		16-QAM	-16.58	15.34	9.76	1.87	H		0.210	23.23
		64-QAM	-18.35	13.57	9.76	1.87	H		0.140	21.46
		256-QAM	-20.01	11.91	9.76	1.87	H		0.095	19.80
1745.0		PI/2 BPSK	-15.66	16.26	9.97	1.88	V		0.272	24.35
		QPSK	-15.63	16.29	9.97	1.88	H		0.274	24.38
		16-QAM	-16.58	15.34	9.97	1.88	H		0.220	23.43
		64-QAM	-18.38	13.54	9.97	1.88	H		0.146	21.63
		256-QAM	-20.01	11.91	9.97	1.88	H		0.100	20.00
1777.5		PI/2 BPSK	-16.29	15.42	10.12	1.92	V		0.230	23.62
		QPSK	-16.27	15.44	10.12	1.92	H		0.231	23.64
		16-QAM	-17.24	14.47	10.12	1.92	H		0.185	22.67
		64-QAM	-18.97	12.74	10.12	1.92	H		0.124	20.94
		256-QAM	-20.49	11.22	10.12	1.92	H		0.087	19.42

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1715.0	Sub6 n66/ 10 MHz [15 kHz]	PI/2 BPSK	-15.70	16.18	9.79	1.87	V	< 1.00	0.257	24.10
		QPSK	-15.65	16.23	9.79	1.87	H		0.260	24.15
		16-QAM	-16.73	15.15	9.79	1.87	H		0.203	23.07
		64-QAM	-18.45	13.43	9.79	1.87	H		0.136	21.35
		256-QAM	-20.15	11.73	9.79	1.87	H		0.092	19.65
1745.0		PI/2 BPSK	-15.68	16.24	9.97	1.88	V		0.271	24.33
		QPSK	-15.68	16.24	9.97	1.88	H		0.271	24.33
		16-QAM	-16.77	15.15	9.97	1.88	H		0.211	23.24
		64-QAM	-18.49	13.43	9.97	1.88	H		0.142	21.52
		256-QAM	-20.17	11.75	9.97	1.88	H		0.096	19.84
1775.0		PI/2 BPSK	-16.29	15.50	10.10	1.92	V		0.233	23.68
		QPSK	-16.21	15.58	10.10	1.92	H		0.238	23.76
		16-QAM	-17.33	14.46	10.10	1.92	H		0.184	22.64
		64-QAM	-19.11	12.68	10.10	1.92	H		0.122	20.86
		256-QAM	-20.63	11.16	10.10	1.92	H		0.086	19.34

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1717.5	Sub6 n66/ 15 MHz [15 kHz]	PI/2 BPSK	-15.68	16.16	9.82	1.87	V	< 1.00	0.257	24.11
		QPSK	-15.68	16.16	9.82	1.87	H		0.257	24.11
		16-QAM	-16.62	15.22	9.82	1.87	H		0.207	23.17
		64-QAM	-18.32	13.52	9.82	1.87	H		0.140	21.47
		256-QAM	-20.02	11.82	9.82	1.87	H		0.095	19.77
1745.0		PI/2 BPSK	-15.70	16.22	9.97	1.88	V		0.270	24.31
		QPSK	-15.72	16.20	9.97	1.88	H		0.269	24.29
		16-QAM	-16.71	15.21	9.97	1.88	H		0.214	23.30
		64-QAM	-18.39	13.53	9.97	1.88	H		0.145	21.62
		256-QAM	-20.04	11.88	9.97	1.88	H		0.099	19.97
1772.5		PI/2 BPSK	-15.78	16.08	10.08	1.91	V		0.266	24.25
		QPSK	-15.77	16.09	10.08	1.91	H		0.267	24.26
		16-QAM	-16.83	15.03	10.08	1.91	H		0.209	23.20
		64-QAM	-18.48	13.38	10.08	1.91	H		0.143	21.55
		256-QAM	-20.14	11.72	10.08	1.91	H		0.098	19.89

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1720.0	Sub6 n66/ 20 MHz [15 kHz]	PI/2 BPSK	-15.62	16.22	9.82	1.87	V	< 1.00	0.261	24.17
		QPSK	-15.79	16.05	9.82	1.87	H		0.251	24.00
		16-QAM	-16.61	15.23	9.82	1.87	H		0.208	23.18
		64-QAM	-18.24	13.60	9.82	1.87	H		0.143	21.55
		256-QAM	-19.99	11.85	9.82	1.87	H		0.095	19.80
1745.0		PI/2 BPSK	-15.44	16.48	9.97	1.88	V		0.287	24.57
		QPSK	-15.42	16.50	9.97	1.88	H		0.288	24.59
		16-QAM	-16.50	15.42	9.97	1.88	H		0.224	23.51
		64-QAM	-18.14	13.78	9.97	1.88	H		0.154	21.87
		256-QAM	-19.84	12.08	9.97	1.88	H		0.104	20.17
1770.0		PI/2 BPSK	-15.78	16.08	10.08	1.91	V		0.266	24.25
		QPSK	-15.79	16.07	10.08	1.91	H		0.266	24.24
		16-QAM	-16.91	14.95	10.08	1.91	H		0.205	23.12
		64-QAM	-18.57	13.29	10.08	1.91	H		0.140	21.46
		256-QAM	-20.22	11.64	10.08	1.91	H		0.096	19.81

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1725.0	Sub6 n66/ 30 MHz [15 kHz]	PI/2 BPSK	-15.48	16.42	9.88	1.87	V	< 1.00	0.277	24.43
		QPSK	-15.64	16.26	9.88	1.87	H		0.267	24.27
		16-QAM	-16.51	15.39	9.88	1.87	H		0.219	23.40
		64-QAM	-18.17	13.73	9.88	1.87	H		0.149	21.74
		256-QAM	-19.80	12.10	9.88	1.87	H		0.102	20.11
1745.0		PI/2 BPSK	-15.59	16.33	9.97	1.88	V		0.277	24.42
		QPSK	-15.62	16.30	9.97	1.88	H		0.275	24.39
		16-QAM	-16.59	15.33	9.97	1.88	H		0.220	23.42
		64-QAM	-18.29	13.63	9.97	1.88	H		0.149	21.72
		256-QAM	-19.91	12.01	9.97	1.88	H		0.102	20.10
1765.0		PI/2 BPSK	-15.45	16.35	10.04	1.89	V		0.282	24.50
		QPSK	-15.44	16.36	10.04	1.89	H		0.283	24.51
		16-QAM	-16.47	15.33	10.04	1.89	H		0.223	23.48
		64-QAM	-18.15	13.65	10.04	1.89	H		0.151	21.80
		256-QAM	-19.74	12.06	10.04	1.89	H		0.105	20.21

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1730.0	Sub6 n66/ 40 MHz [15 kHz]	PI/2 BPSK	-15.73	16.17	9.88	1.87	V	< 1.00	0.262	24.18
		QPSK	-15.63	16.27	9.88	1.87	H		0.268	24.28
		16-QAM	-16.60	15.30	9.88	1.87	H		0.214	23.31
		64-QAM	-18.32	13.58	9.88	1.87	H		0.144	21.59
		256-QAM	-19.88	12.02	9.88	1.87	H		0.101	20.03
1745.0		PI/2 BPSK	-15.49	16.43	9.97	1.88	V		0.283	24.52
		QPSK	-15.39	16.53	9.97	1.88	H		0.290	24.62
		16-QAM	-16.46	15.46	9.97	1.88	H		0.227	23.55
		64-QAM	-18.17	13.75	9.97	1.88	H		0.153	21.84
		256-QAM	-19.64	12.28	9.97	1.88	H		0.109	20.37
1760.0		PI/2 BPSK	-15.47	16.33	10.04	1.89	V		0.281	24.48
		QPSK	-15.42	16.38	10.04	1.89	H		0.284	24.53
		16-QAM	-16.47	15.33	10.04	1.89	H		0.223	23.48
		64-QAM	-18.22	13.58	10.04	1.89	H		0.149	21.73
		256-QAM	-19.82	11.98	10.04	1.89	H		0.103	20.13

8.2 RADIATED SPURIOUS EMISSIONS

▣ NR Band: N66

▣ LTE Band(Anchor): B5

▣ Bandwidth: 5 MHz

▣ Modulation: QPSK

▣ Distance: 3 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
342500 (1712.5)	3 425.00	-59.54	11.30	-64.07	2.71	H	-55.47	-13.00
	5 137.50	-59.41	11.36	-55.91	3.36	H	-47.91	-13.00
	6 850.00	-61.34	11.20	-52.06	3.94	H	-44.80	-13.00
349000 (1745.0)	3 490.00	-58.59	11.46	-62.57	2.74	V	-53.85	-13.00
	5 235.00	-57.25	11.57	-54.74	3.39	H	-46.56	-13.00
	6 980.00	-60.97	11.16	-50.68	3.96	V	-43.48	-13.00
355500 (1777.5)	3 555.00	-57.35	11.72	-61.09	2.77	H	-52.14	-13.00
	5 332.50	-60.67	11.76	-58.15	3.42	H	-49.81	-13.00
	7 110.00	-61.19	10.96	-49.23	4.00	H	-42.27	-13.00

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
20525 (836.5)	1,673.00	-56.82	9.52	-66.51	1.84	H	-58.83	-13.00
	2,509.50	-57.22	10.28	-63.64	2.30	H	-55.66	-13.00
	3,346.00	-59.88	11.28	-64.47	2.67	V	-55.86	-13.00

▣ NR Band: N66

▣ LTE Band(Anchor): B5

▣ Bandwidth: 10 MHz

▣ Modulation: QPSK

▣ Distance: 3 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
343000 (1715.0)	3 430.00	-59.86	11.30	-64.25	2.71	H	-55.66	-13.00
	5 145.00	-59.71	11.38	-56.40	3.36	V	-48.38	-13.00
	6 860.00	-62.47	11.18	-53.04	3.93	V	-45.79	-13.00
349000 (1745.0)	3 490.00	-59.50	11.46	-63.48	2.74	H	-54.76	-13.00
	5 235.00	-61.04	11.57	-58.53	3.39	V	-50.35	-13.00
	6 980.00	-61.68	11.16	-51.39	3.96	H	-44.19	-13.00
355000 (1775.0)	3 550.00	-59.37	11.70	-63.21	2.77	H	-54.28	-13.00
	5 325.00	-61.35	11.75	-58.83	3.42	H	-50.49	-13.00
	7 100.00	-61.34	11.00	-49.39	4.00	H	-42.39	-13.00

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
20525 (836.5)	1,673.00	-57.31	9.52	-67.00	1.84	H	-59.32	-13.00
	2,509.50	-57.30	10.28	-63.72	2.30	H	-55.74	-13.00
	3,346.00	-59.52	11.28	-64.11	2.67	V	-55.50	-13.00

▣ NR Band: N66

▣ LTE Band(Anchor): B5

▣ Bandwidth: 15 MHz

▣ Modulation: QPSK

▣ Distance: 3 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
343500 (1717.5)	3 435.00	-60.17	11.30	-64.55	2.71	H	-55.96	-13.00
	5 152.50	-59.83	11.40	-56.70	3.36	V	-48.66	-13.00
	6 870.00	-62.54	11.16	-52.99	3.93	H	-45.76	-13.00
349000 (1745.0)	3 490.00	-59.86	11.46	-63.84	2.74	H	-55.12	-13.00
	5 235.00	-61.45	11.57	-58.94	3.39	V	-50.76	-13.00
	6 980.00	-61.98	11.16	-51.69	3.96	H	-44.49	-13.00
354500 (1772.5)	3 545.00	-59.44	11.68	-63.32	2.77	H	-54.40	-13.00
	5 317.50	-61.83	11.74	-59.31	3.41	H	-50.98	-13.00
	7 090.00	-61.64	11.04	-49.59	4.00	H	-42.55	-13.00

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
20525 (836.5)	1,673.00	-56.67	9.52	-66.36	1.84	H	-58.68	-13.00
	2,509.50	-57.80	10.28	-64.22	2.30	H	-56.24	-13.00
	3,346.00	-59.92	11.28	-64.51	2.67	V	-55.90	-13.00

▣ NR Band: N66

▣ LTE Band(Anchor): B5

▣ Bandwidth: 20 MHz

▣ Modulation: QPSK

▣ Distance: 3 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
344000 (1720.0)	3 440.00	-59.66	11.30	-64.04	2.71	V	-55.45	-13.00
	5 160.00	-59.66	11.42	-56.74	3.36	V	-48.68	-13.00
	6 880.00	-62.17	11.14	-52.49	3.93	H	-45.28	-13.00
349000 (1745.0)	3 490.00	-59.44	11.46	-63.42	2.74	H	-54.70	-13.00
	5 235.00	-61.10	11.57	-58.59	3.39	V	-50.41	-13.00
	6 980.00	-61.62	11.16	-51.33	3.96	H	-44.13	-13.00
354000 (1770.0)	3 540.00	-59.13	11.66	-63.05	2.76	H	-54.15	-13.00
	5 310.00	-61.05	11.72	-58.39	3.42	H	-50.09	-13.00
	7 080.00	-61.22	11.08	-49.06	4.00	H	-41.98	-13.00

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
20525 (836.5)	1,673.00	-56.74	9.52	-66.43	1.84	H	-58.75	-13.00
	2,509.50	-57.30	10.28	-63.72	2.30	H	-55.74	-13.00
	3,346.00	-60.02	11.28	-64.61	2.67	H	-56.00	-13.00

▣ NR Band: N66

▣ LTE Band(Anchor): B5

▣ Bandwidth: 30 MHz

▣ Modulation: QPSK

▣ Distance: 3 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
345000 (1725.0)	3 450.00	-58.65	11.34	-62.98	2.72	H	-54.36	-13.00
	5 175.00	-59.29	11.48	-56.39	3.38	V	-48.29	-13.00
	6 900.00	-61.45	11.10	-51.52	3.96	V	-44.38	-13.00
349000 (1745.0)	3 490.00	-59.24	11.46	-63.22	2.74	V	-54.50	-13.00
	5 235.00	-60.50	11.57	-57.99	3.39	V	-49.81	-13.00
	6 980.00	-61.04	11.16	-50.75	3.96	H	-43.55	-13.00
353000 (1765.0)	3 530.00	-58.95	11.58	-62.85	2.75	H	-54.02	-13.00
	5 295.00	-60.70	11.66	-58.13	3.41	H	-49.88	-13.00
	7 060.00	-60.57	11.20	-49.30	4.00	H	-42.10	-13.00

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
20525 (836.5)	1,673.00	-57.26	9.52	-66.95	1.84	H	-59.27	-13.00
	2,509.50	-57.67	10.28	-64.09	2.30	H	-56.11	-13.00
	3,346.00	-59.42	11.28	-64.01	2.67	V	-55.40	-13.00

▣ NR Band: N66

▣ LTE Band(Anchor): B5

▣ Bandwidth: 40 MHz

▣ Modulation: QPSK

▣ Distance: 3 meters

▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
346000 (1730.0)	3 460.00	-59.78	11.34	-64.11	2.72	V	-55.49	-13.00
	5 190.00	-60.09	11.48	-57.19	3.38	V	-49.09	-13.00
	6 920.00	-62.67	11.10	-52.74	3.96	H	-45.60	-13.00
349000 (1745.0)	3 490.00	-59.54	11.46	-63.52	2.74	H	-54.80	-13.00
	5 235.00	-61.53	11.57	-59.02	3.39	V	-50.84	-13.00
	6 980.00	-61.76	11.16	-51.47	3.96	H	-44.27	-13.00
352000 (1760.0)	3 520.00	-59.16	11.58	-63.06	2.75	H	-54.23	-13.00
	5 280.00	-61.42	11.66	-58.85	3.41	H	-50.60	-13.00
	7 040.00	-61.42	11.20	-50.15	4.00	H	-42.95	-13.00

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)
20525 (836.5)	1,673.00	-57.26	9.52	-66.95	1.84	H	-59.27	-13.00
	2,509.50	-57.25	10.28	-63.67	2.30	H	-55.69	-13.00
	3,346.00	-59.53	11.28	-64.12	2.67	V	-55.51	-13.00

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	3.79
			QPSK			4.41
			16-QAM			5.65
			64-QAM			6.01
			256-QAM			6.77
	10 MHz		BPSK	50		3.82
			QPSK			4.56
			16-QAM			5.59
			64-QAM			6.08
			256-QAM			6.51
	15 MHz		BPSK	75		3.94
			QPSK			4.54
			16-QAM			5.50
			64-QAM			6.00
			256-QAM			6.73
	20 MHz		BPSK	100		3.80
			QPSK			4.57
			16-QAM			5.53
			64-QAM			6.04
			256-QAM			6.75

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n66	30 MHz	1745.0	BPSK	160	0	3.89
			QPSK			4.55
			16-QAM			5.59
			64-QAM			6.16
			256-QAM			6.76
	40 MHz		BPSK	216		4.00
			QPSK			4.59
			16-QAM			5.61
			64-QAM			6.03
			256-QAM			6.58

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 78 ~ 107.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.4911
			QPSK			4.5013
			16-QAM			4.4758
			64-QAM			4.5058
			256-QAM			4.4793
	10 MHz		BPSK	50		8.9667
			QPSK			8.9775
			16-QAM			9.0100
			64-QAM			8.9437
			256-QAM			8.9646
	15 MHz		BPSK	75		13.392
			QPSK			13.466
			16-QAM			13.474
			64-QAM			13.487
			256-QAM			13.444
	20 MHz		BPSK	100		17.873
			QPSK			17.890
			16-QAM			17.944
			64-QAM			17.876
			256-QAM			17.979

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n66	30 MHz	1745.0	BPSK	160	0	28.710
			QPSK			28.704
			16-QAM			28.630
			64-QAM			28.731
			256-QAM			28.696
	40 MHz		BPSK	216		38.561
			QPSK			38.620
			16-QAM			38.668
			64-QAM			38.624
			256-QAM			38.567

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 48~ 77.

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 n66	5	1712.5	3.9014	21.976	-55.329	-33.353	-13.00
		1745.0	3.8680	21.976	-55.390	-33.414	
		1777.5	3.8675	21.976	-55.474	-33.498	
	10	1715.0	3.8560	21.976	-55.614	-33.638	
		1745.0	3.8176	21.976	-55.395	-33.419	
		1775.0	3.8380	21.976	-55.536	-33.560	
	15	1717.5	3.8884	21.976	-55.476	-33.500	
		1745.0	3.8824	21.976	-55.488	-33.512	
		1772.5	3.8490	21.976	-55.407	-33.431	
	20	1720.0	3.8380	21.976	-55.381	-33.405	
		1745.0	3.8704	21.976	-55.665	-33.689	
		1770.0	3.8191	21.976	-55.550	-33.574	
	30	1725.0	3.8575	21.976	-55.252	-33.276	
		1745.0	3.8969	21.976	-55.615	-33.639	
		1765.0	3.8510	21.976	-55.484	-33.508	
	40	1730.0	3.8650	21.976	-65.722	-43.746	
		1745.0	3.8530	21.976	-65.464	-43.488	
		1760.0	3.8799	21.976	-65.244	-43.268	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 144 ~ 179.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Attenuator

Frequency Range (GHz)	Factor [dB]
0.03 – 1	19.270
1 – 5	21.976
5 – 10	22.591
10 – 15	23.116
15 – 20	23.489
Above 20(26.5)	24.131

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 108 ~ 143.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ BandWidth: 5 MHz

▣ Voltage(100%): 3.880 VDC

▣ Batt. Endpoint: 3.650 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
1712.5	100%	+20(Ref)	1712 500 005	0.0	0.000 000	0.000
	100%	-30	1712 500 015	9.3	0.000 001	0.005
	100%	-20	1712 500 014	9.0	0.000 001	0.005
	100%	-10	1712 500 020	14.4	0.000 001	0.008
	100%	0	1712 500 017	11.6	0.000 001	0.007
	100%	+10	1712 500 022	16.9	0.000 001	0.010
	100%	+30	1712 500 011	6.0	0.000 000	0.004
	100%	+40	1712 500 022	17.0	0.000 001	0.010
	100%	+50	1712 500 010	4.9	0.000 000	0.003
	Batt. Endpoint	+20	1712 500 010	5.1	0.000 000	0.003
1777.5	100%	+20(Ref)	1777 500 013	0.0	0.000 000	0.000
	100%	-30	1777 500 018	5.4	0.000 000	0.003
	100%	-20	1777 500 021	8.3	0.000 000	0.005
	100%	-10	1777 500 024	11.2	0.000 001	0.006
	100%	0	1777 500 025	12.4	0.000 001	0.007
	100%	+10	1777 500 017	3.9	0.000 000	0.002
	100%	+30	1777 500 016	3.3	0.000 000	0.002
	100%	+40	1777 500 016	3.3	0.000 000	0.002
	100%	+50	1777 500 017	4.8	0.000 000	0.003
	Batt. Endpoint	+20	1777 500 028	15.6	0.000 001	0.009

▣ BandWidth: 10 MHz

▣ Voltage(100%): 3.880 VDC

▣ Batt. Endpoint: 3.650 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
1715.0	100%	+20(Ref)	1715 000 012	0.0	0.000 000	0.000
	100%	-30	1715 000 024	11.4	0.000 001	0.007
	100%	-20	1715 000 021	9.4	0.000 001	0.005
	100%	-10	1715 000 020	7.7	0.000 000	0.005
	100%	0	1715 000 017	5.0	0.000 000	0.003
	100%	+10	1715 000 022	9.9	0.000 001	0.006
	100%	+30	1715 000 018	5.7	0.000 000	0.003
	100%	+40	1715 000 019	7.0	0.000 000	0.004
	100%	+50	1715 000 025	13.3	0.000 001	0.008
	Batt. Endpoint	+20	1715 000 025	12.6	0.000 001	0.007
1775.0	100%	+20(Ref)	1775 000 014	0.0	0.000 000	0.000
	100%	-30	1775 000 022	7.7	0.000 000	0.004
	100%	-20	1775 000 018	3.3	0.000 000	0.002
	100%	-10	1775 000 028	13.9	0.000 001	0.008
	100%	0	1775 000 030	15.8	0.000 001	0.009
	100%	+10	1775 000 020	5.9	0.000 000	0.003
	100%	+30	1775 000 018	3.3	0.000 000	0.002
	100%	+40	1775 000 027	12.6	0.000 001	0.007
	100%	+50	1775 000 022	7.8	0.000 000	0.004
	Batt. Endpoint	+20	1775 000 018	3.4	0.000 000	0.002

▣ BandWidth: 15 MHz

▣ Voltage(100%): 3.880 VDC

▣ Batt. Endpoint: 3.650 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
1717.5	100%	+20(Ref)	1717 500 013	0.0	0.000 000	0.000
	100%	-30	1717 500 029	16.1	0.000 001	0.009
	100%	-20	1717 500 026	13.0	0.000 001	0.008
	100%	-10	1717 500 027	14.4	0.000 001	0.008
	100%	0	1717 500 029	16.0	0.000 001	0.009
	100%	+10	1717 500 025	12.1	0.000 001	0.007
	100%	+30	1717 500 028	15.1	0.000 001	0.009
	100%	+40	1717 500 029	16.3	0.000 001	0.009
	100%	+50	1717 500 021	8.4	0.000 000	0.005
	Batt. Endpoint	+20	1717 500 027	13.9	0.000 001	0.008
1772.5	100%	+20(Ref)	1772 500 010	0.0	0.000 000	0.000
	100%	-30	1772 500 014	4.1	0.000 000	0.002
	100%	-20	1772 500 017	7.4	0.000 000	0.004
	100%	-10	1772 500 023	12.9	0.000 001	0.007
	100%	0	1772 500 025	14.7	0.000 001	0.008
	100%	+10	1772 500 015	5.3	0.000 000	0.003
	100%	+30	1772 500 021	11.3	0.000 001	0.006
	100%	+40	1772 500 024	13.6	0.000 001	0.008
	100%	+50	1772 500 017	6.8	0.000 000	0.004
	Batt. Endpoint	+20	1772 500 016	5.7	0.000 000	0.003

▣ BandWidth: 20 MHz

▣ Voltage(100%): 3.880 VDC

▣ Batt. Endpoint: 3.650 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
1720.0	100%	+20(Ref)	1720 000 006	0.0	0.000 000	0.000
	100%	-30	1720 000 021	14.8	0.000 001	0.009
	100%	-20	1720 000 010	3.6	0.000 000	0.002
	100%	-10	1720 000 011	5.1	0.000 000	0.003
	100%	0	1720 000 016	9.9	0.000 001	0.006
	100%	+10	1720 000 018	11.7	0.000 001	0.007
	100%	+30	1720 000 022	16.0	0.000 001	0.009
	100%	+40	1720 000 021	15.4	0.000 001	0.009
	100%	+50	1720 000 023	16.7	0.000 001	0.010
	Batt. Endpoint	+20	1720 000 016	10.3	0.000 001	0.006
1770.0	100%	+20(Ref)	1770 000 013	0.0	0.000 000	0.000
	100%	-30	1770 000 022	9.7	0.000 001	0.006
	100%	-20	1770 000 026	13.4	0.000 001	0.008
	100%	-10	1770 000 030	16.9	0.000 001	0.010
	100%	0	1770 000 024	11.8	0.000 001	0.007
	100%	+10	1770 000 024	11.1	0.000 001	0.006
	100%	+30	1770 000 026	13.0	0.000 001	0.007
	100%	+40	1770 000 019	6.1	0.000 000	0.003
	100%	+50	1770 000 027	14.7	0.000 001	0.008
	Batt. Endpoint	+20	1770 000 022	9.9	0.000 001	0.006

▣ BandWidth: 30 MHz

▣ Voltage(100%): 3.880 VDC

▣ Batt. Endpoint: 3.650 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
1725.0	100%	+20(Ref)	1725 000 014	0.0	0.000 000	0.000
	100%	-30	1725 000 020	6.1	0.000 000	0.004
	100%	-20	1725 000 030	16.8	0.000 001	0.010
	100%	-10	1725 000 030	16.5	0.000 001	0.010
	100%	0	1725 000 023	9.8	0.000 001	0.006
	100%	+10	1725 000 020	5.9	0.000 000	0.003
	100%	+30	1725 000 024	10.8	0.000 001	0.006
	100%	+40	1725 000 021	7.1	0.000 000	0.004
	100%	+50	1725 000 021	7.4	0.000 000	0.004
	Batt. Endpoint	+20	1725 000 022	8.8	0.000 001	0.005
1765.0	100%	+20(Ref)	1765 000 011	0.0	0.000 000	0.000
	100%	-30	1765 000 017	5.5	0.000 000	0.003
	100%	-20	1765 000 015	3.8	0.000 000	0.002
	100%	-10	1765 000 014	3.2	0.000 000	0.002
	100%	0	1765 000 015	4.2	0.000 000	0.002
	100%	+10	1765 000 020	8.3	0.000 000	0.005
	100%	+30	1765 000 021	9.8	0.000 001	0.006
	100%	+40	1765 000 017	5.8	0.000 000	0.003
	100%	+50	1765 000 022	10.5	0.000 001	0.006
	Batt. Endpoint	+20	1765 000 026	14.8	0.000 001	0.008

▣ BandWidth: 40 MHz

▣ Voltage(100%): 3.880 VDC

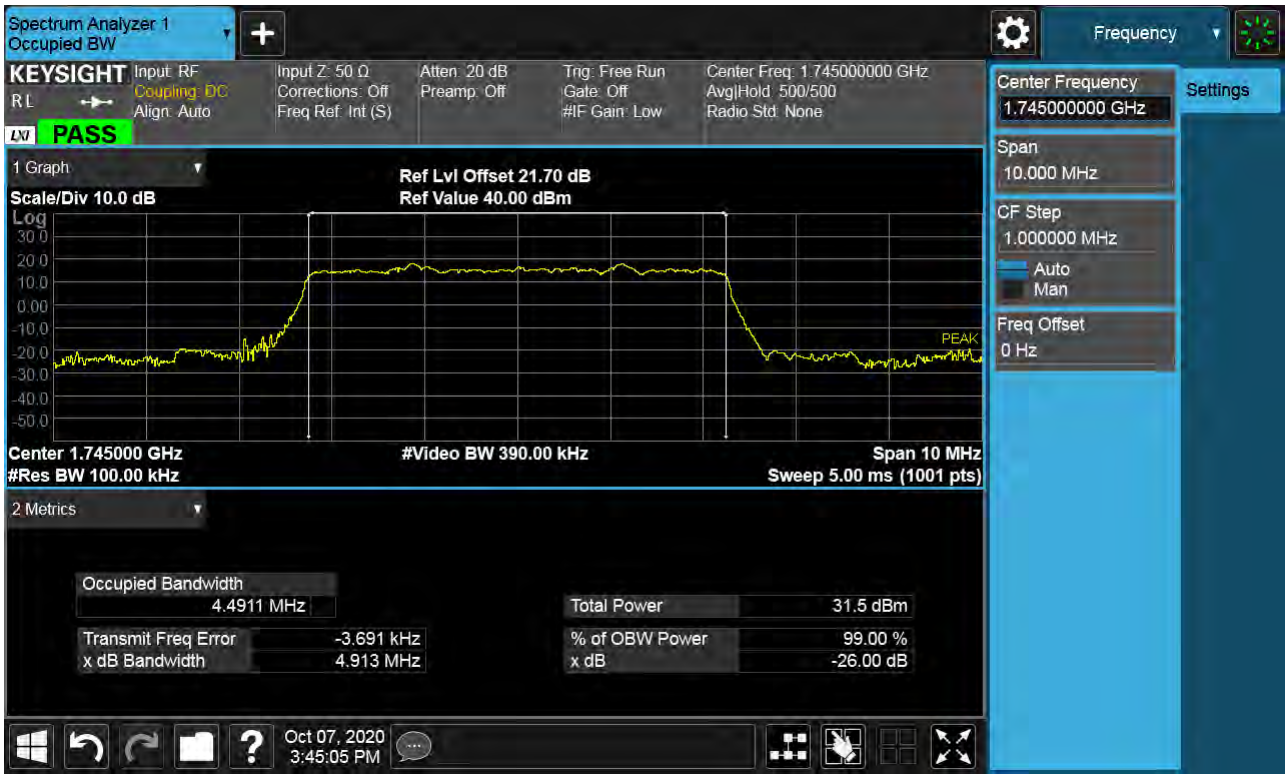
▣ Batt. Endpoint: 3.650 VDC

▣ LIMIT: Emission must remain in band

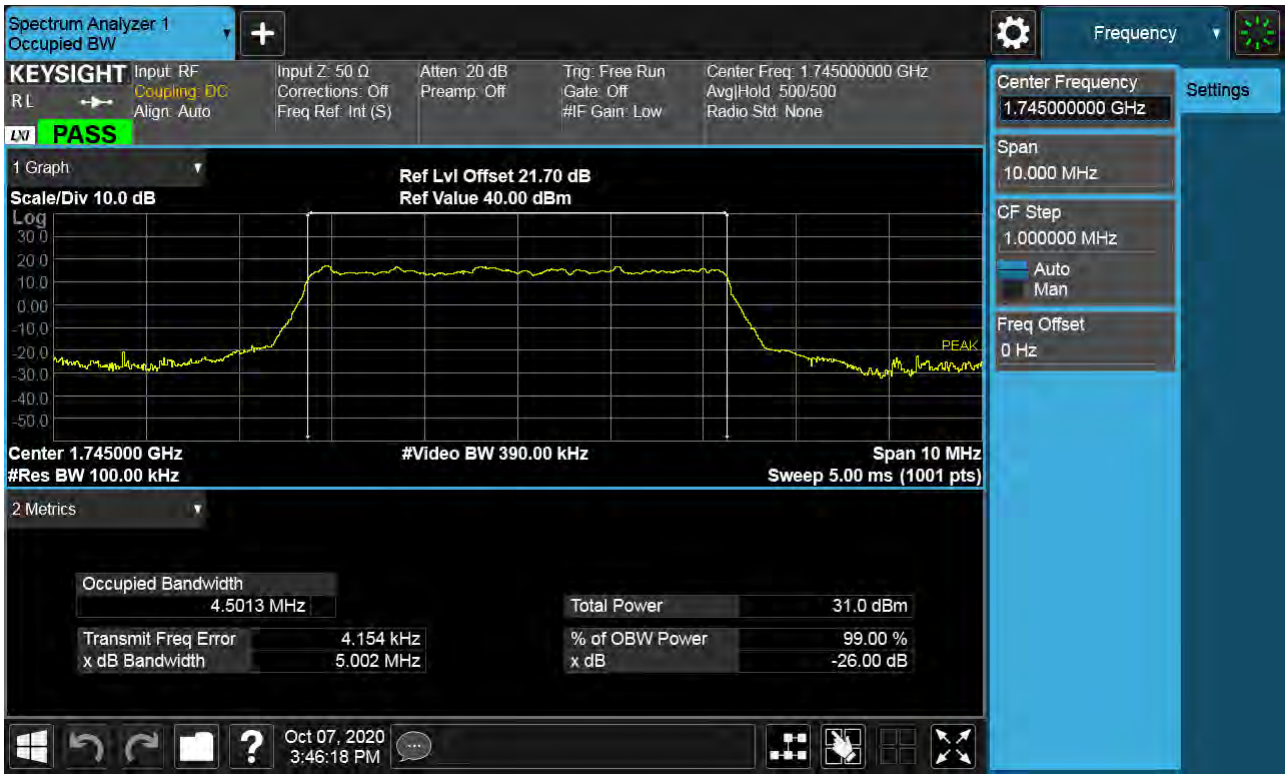
Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
1730.0	100%	+20(Ref)	1730 000 011	0.0	0.000 000	0.000
	100%	-30	1730 000 025	14.3	0.000 001	0.008
	100%	-20	1730 000 028	16.8	0.000 001	0.010
	100%	-10	1730 000 016	5.6	0.000 000	0.003
	100%	0	1730 000 016	4.8	0.000 000	0.003
	100%	+10	1730 000 026	15.6	0.000 001	0.009
	100%	+30	1730 000 022	11.7	0.000 001	0.007
	100%	+40	1730 000 017	6.3	0.000 000	0.004
	100%	+50	1730 000 027	16.2	0.000 001	0.009
	Batt. Endpoint	+20	1730 000 027	16.7	0.000 001	0.010
1760.0	100%	+20(Ref)	1760 000 010	0.0	0.000 000	0.000
	100%	-30	1760 000 018	7.8	0.000 000	0.004
	100%	-20	1760 000 016	6.5	0.000 000	0.004
	100%	-10	1760 000 023	13.3	0.000 001	0.008
	100%	0	1760 000 021	10.5	0.000 001	0.006
	100%	+10	1760 000 015	5.4	0.000 000	0.003
	100%	+30	1760 000 016	5.7	0.000 000	0.003
	100%	+40	1760 000 024	13.5	0.000 001	0.008
	100%	+50	1760 000 021	10.9	0.000 001	0.006
	Batt. Endpoint	+20	1760 000 015	5.1	0.000 000	0.003

9. TEST PLOTS

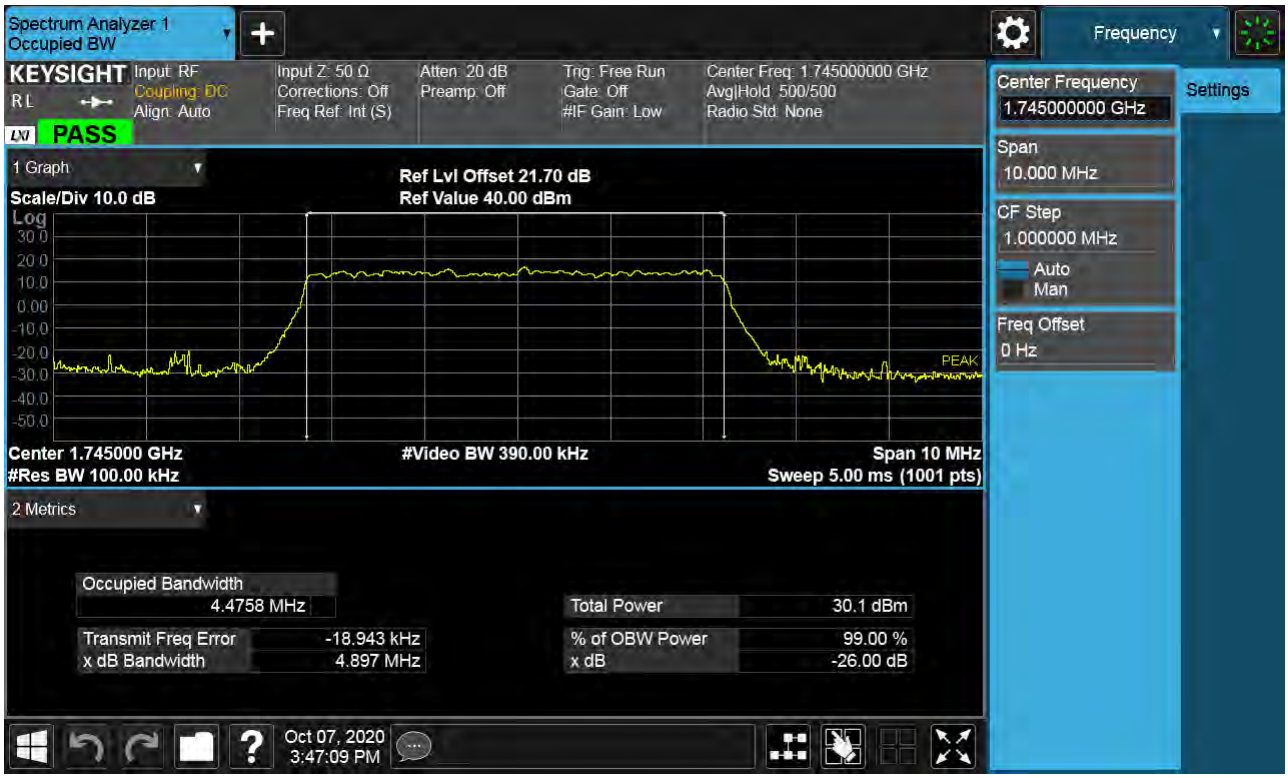
Sub6 n66. Occupied Bandwidth Plot (5M BW Ch.349000 BPSK RB 25)



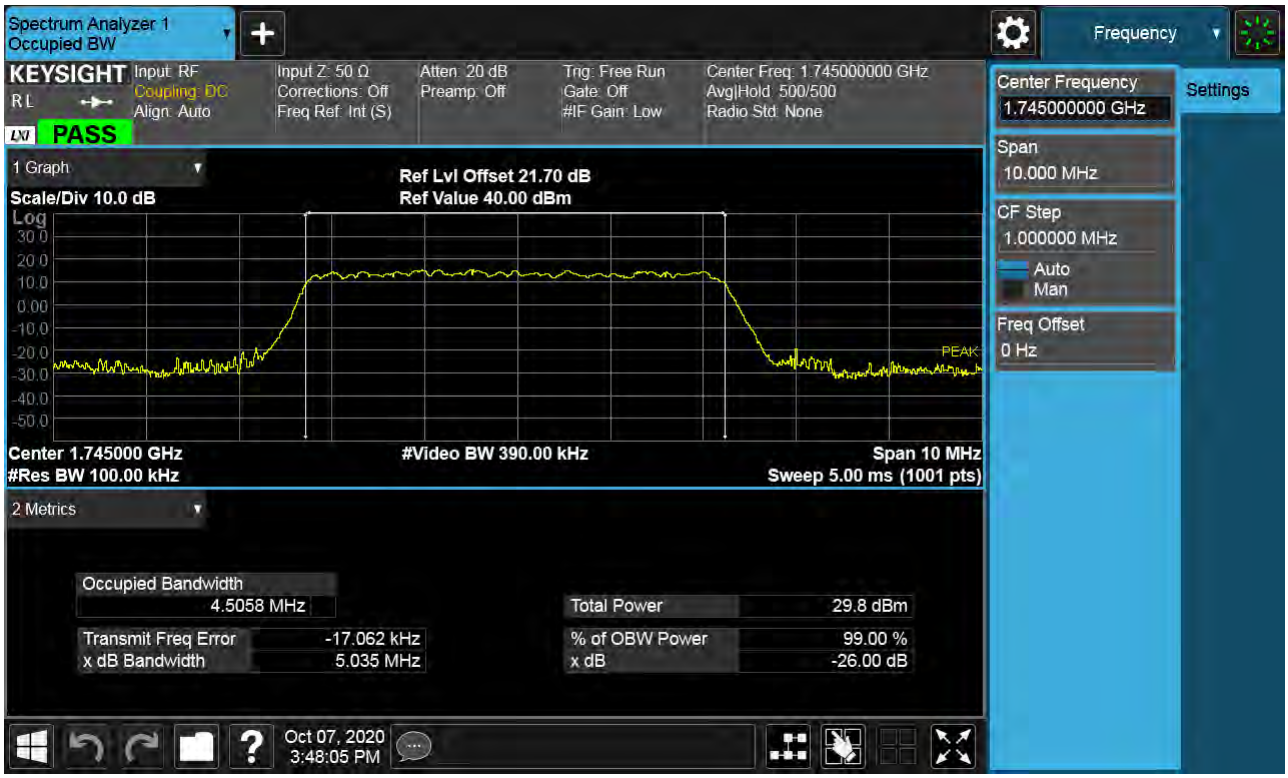
Sub6 n66. Occupied Bandwidth Plot (5M BW Ch.349000 QPSK RB 25)



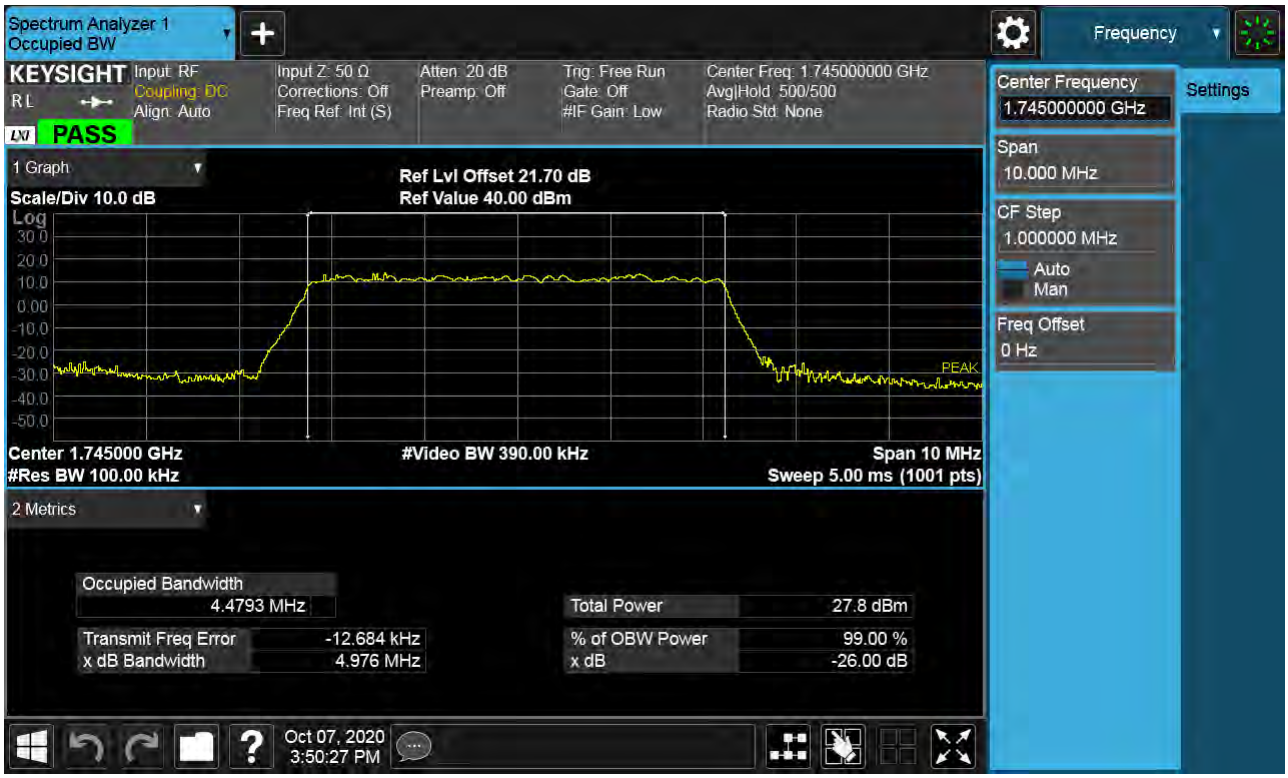
Sub6 n66. Occupied Bandwidth Plot (5M BW Ch.349000 16QAM RB 25)



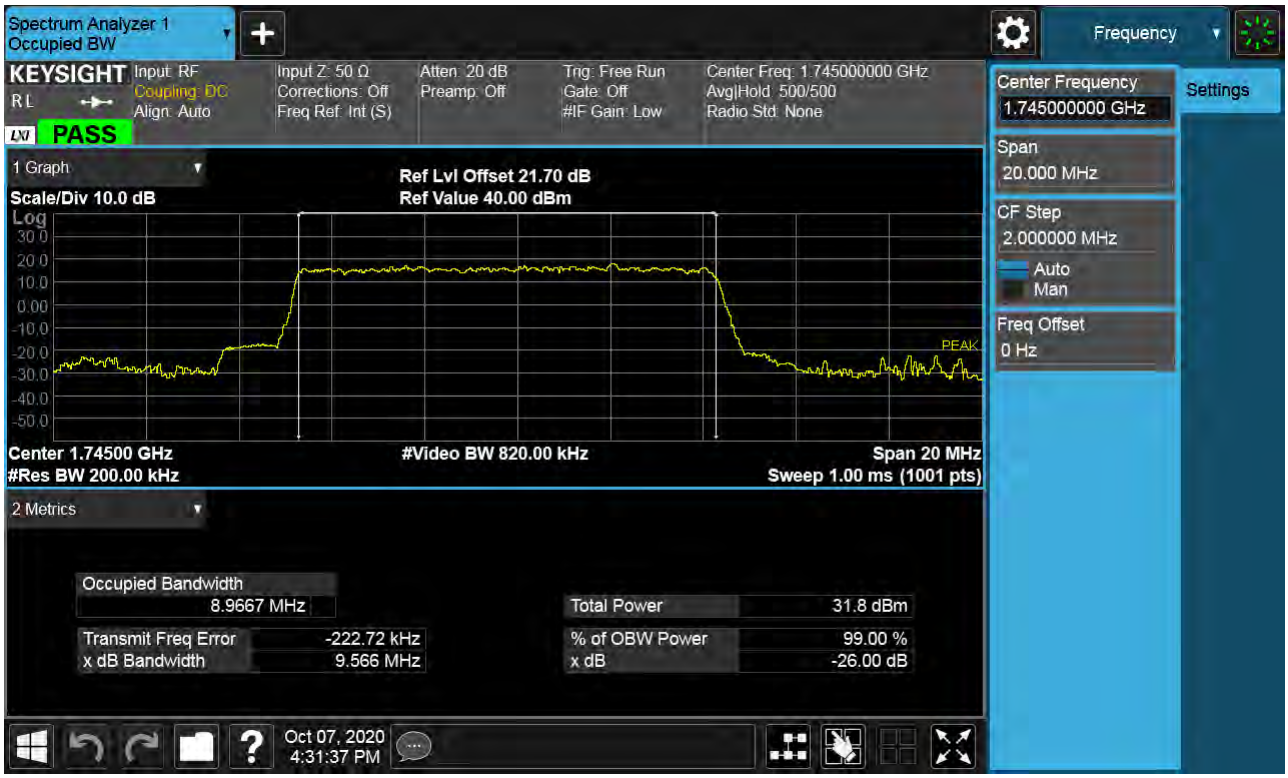
Sub6 n66. Occupied Bandwidth Plot (5M BW Ch.349000 64QAM RB 25)



Sub6 n66. Occupied Bandwidth Plot (5M BW Ch.349000 256QAM RB 25)

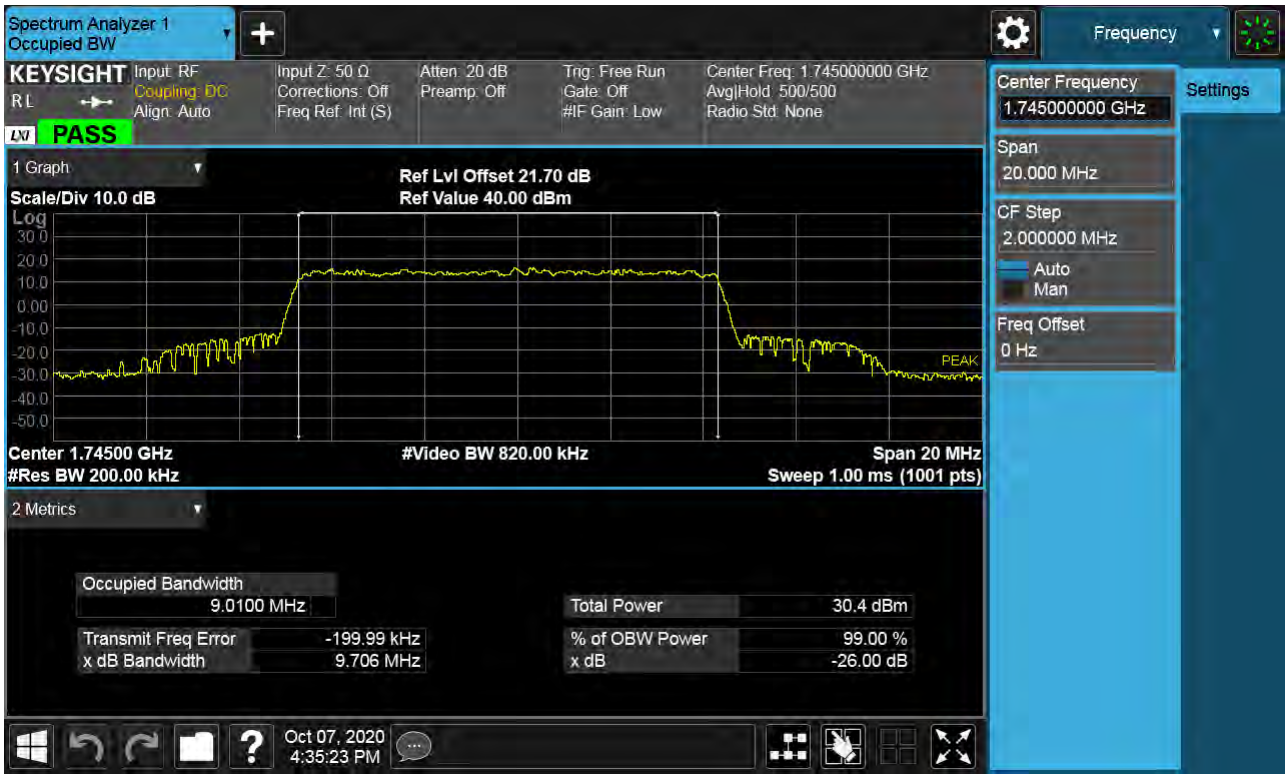


Sub6 n66. Occupied Bandwidth Plot (10M BW Ch.349000 BPSK RB 50)



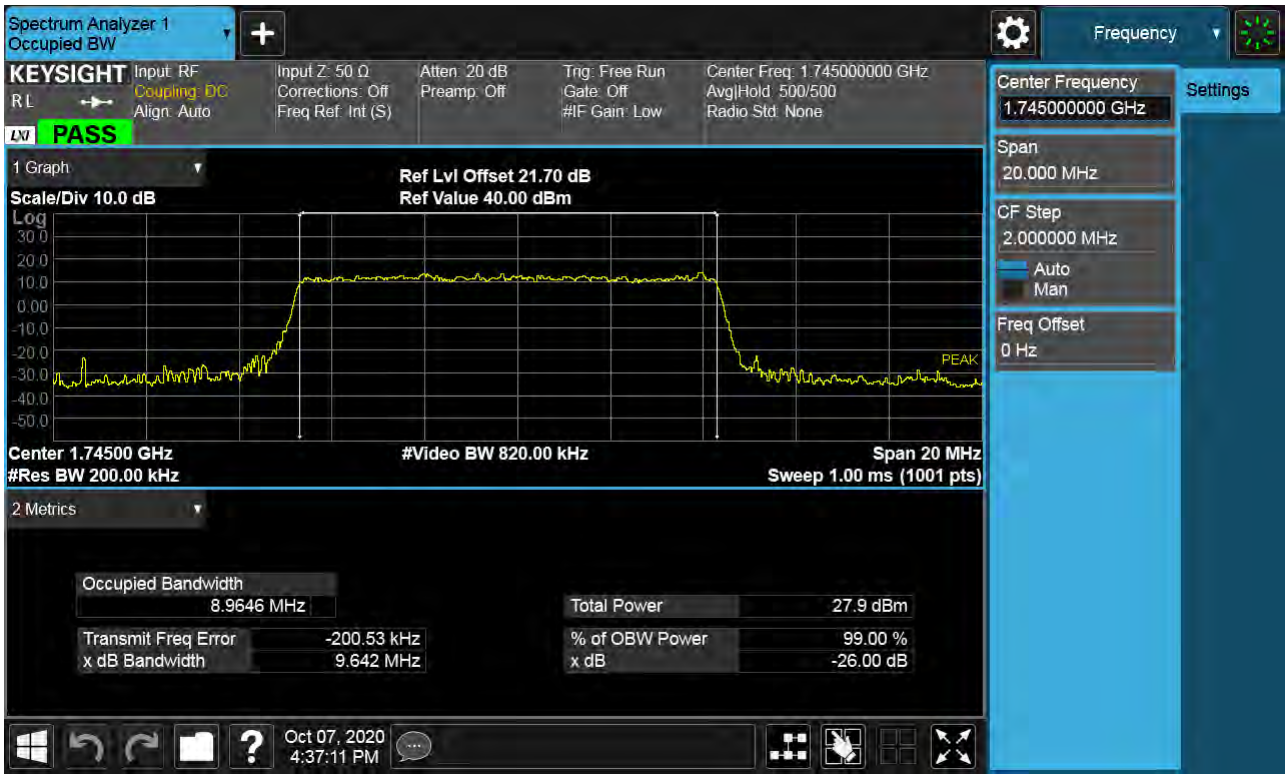
Sub6 n66. Occupied Bandwidth Plot (10M BW Ch.349000 QPSK RB 50)

Sub6 n66. Occupied Bandwidth Plot (10M BW Ch.349000 16QAM RB 50)



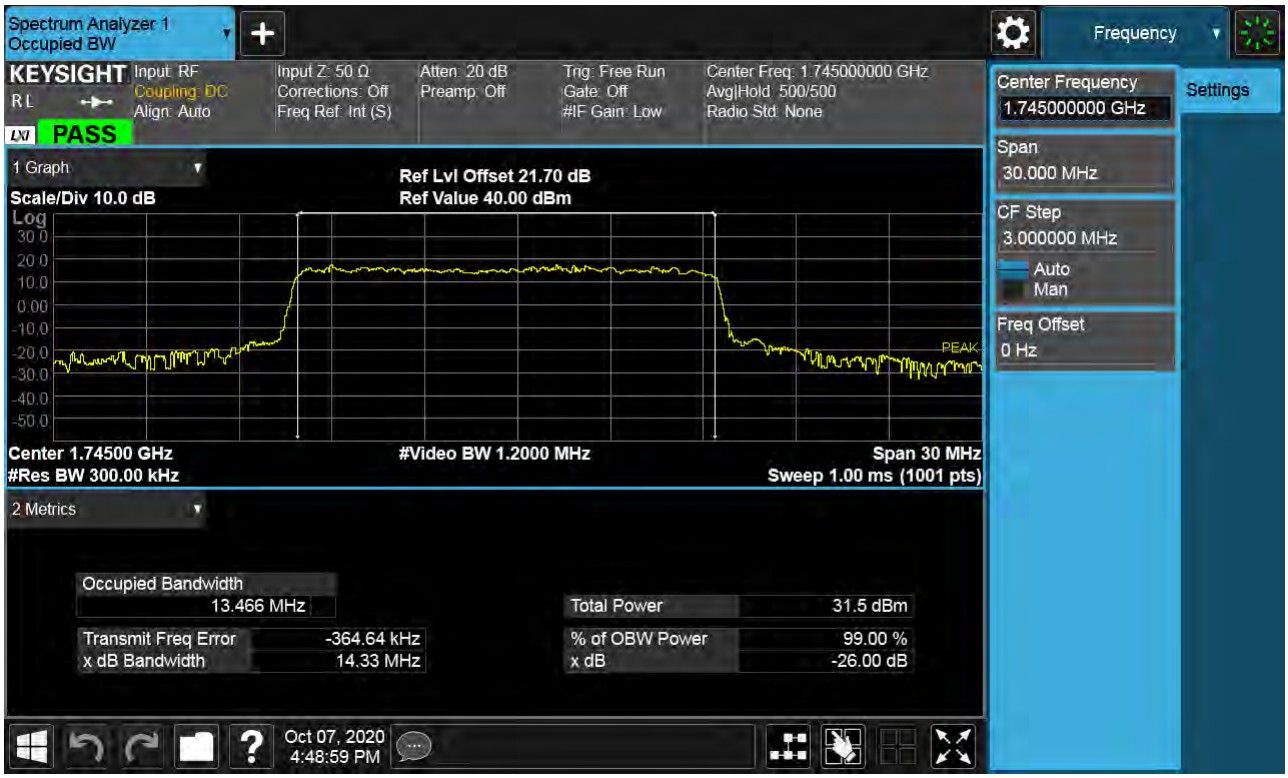
Sub6 n66. Occupied Bandwidth Plot (10M BW Ch.349000 64QAM RB 50)

Sub6 n66. Occupied Bandwidth Plot (10M BW Ch.349000 256QAM RB 50)



Sub6 n66. Occupied Bandwidth Plot (15M BW Ch.349000 BPSK RB 75)

Sub6 n66. Occupied Bandwidth Plot (15M BW Ch.349000 QPSK RB 75)



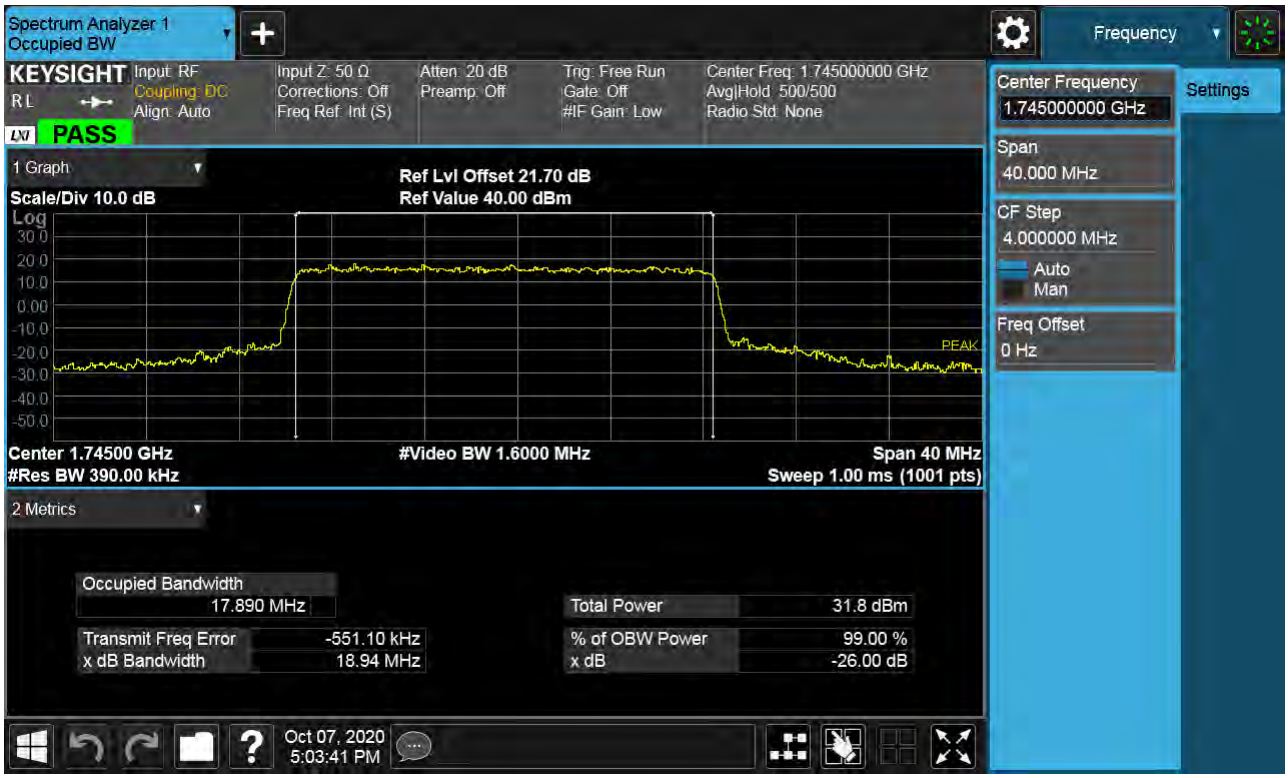
Sub6 n66. Occupied Bandwidth Plot (15M BW Ch.349000 16QAM RB 75)

Sub6 n66. Occupied Bandwidth Plot (15M BW Ch.349000 64QAM RB 75)

Sub6 n66. Occupied Bandwidth Plot (15M BW Ch.349000 256QAM RB 75)

Sub6 n66. Occupied Bandwidth Plot (20M BW Ch.349000 BPSK RB 100)

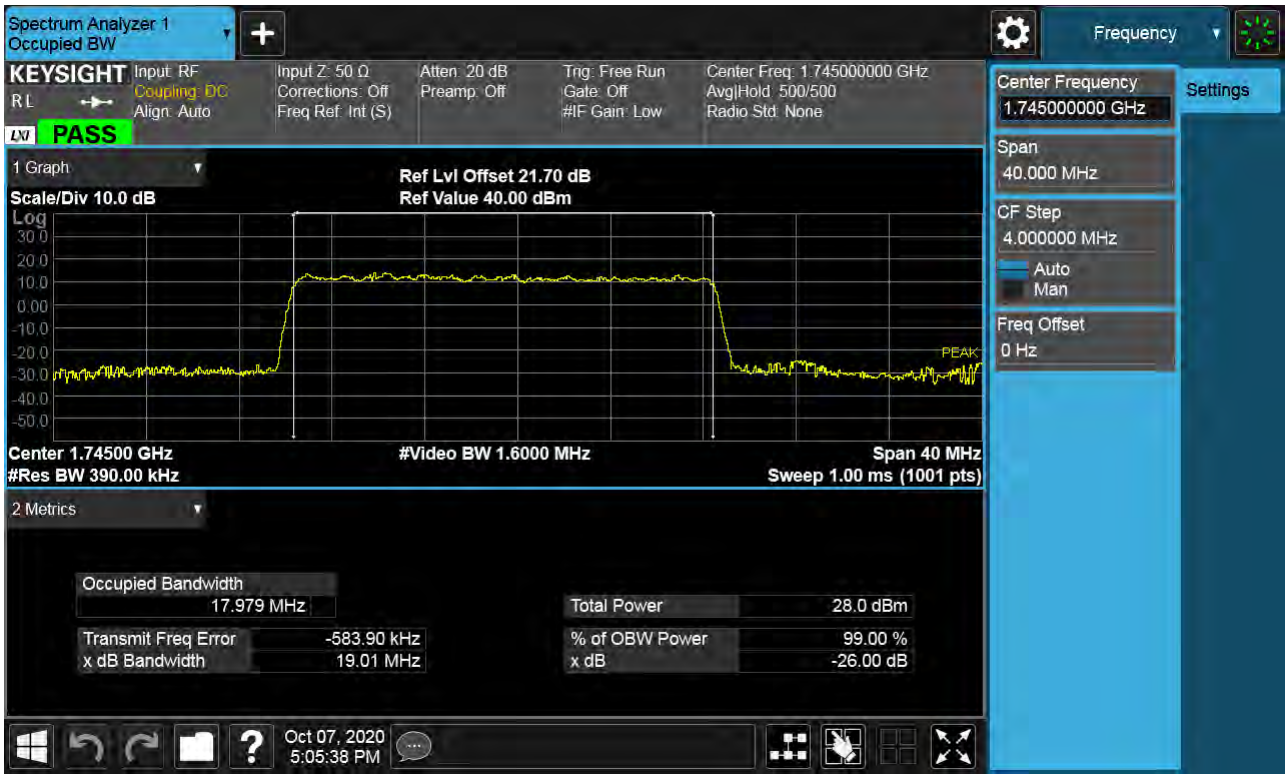
Sub6 n66. Occupied Bandw idth Plot (20M BW Ch.349000 QPSK RB 100)



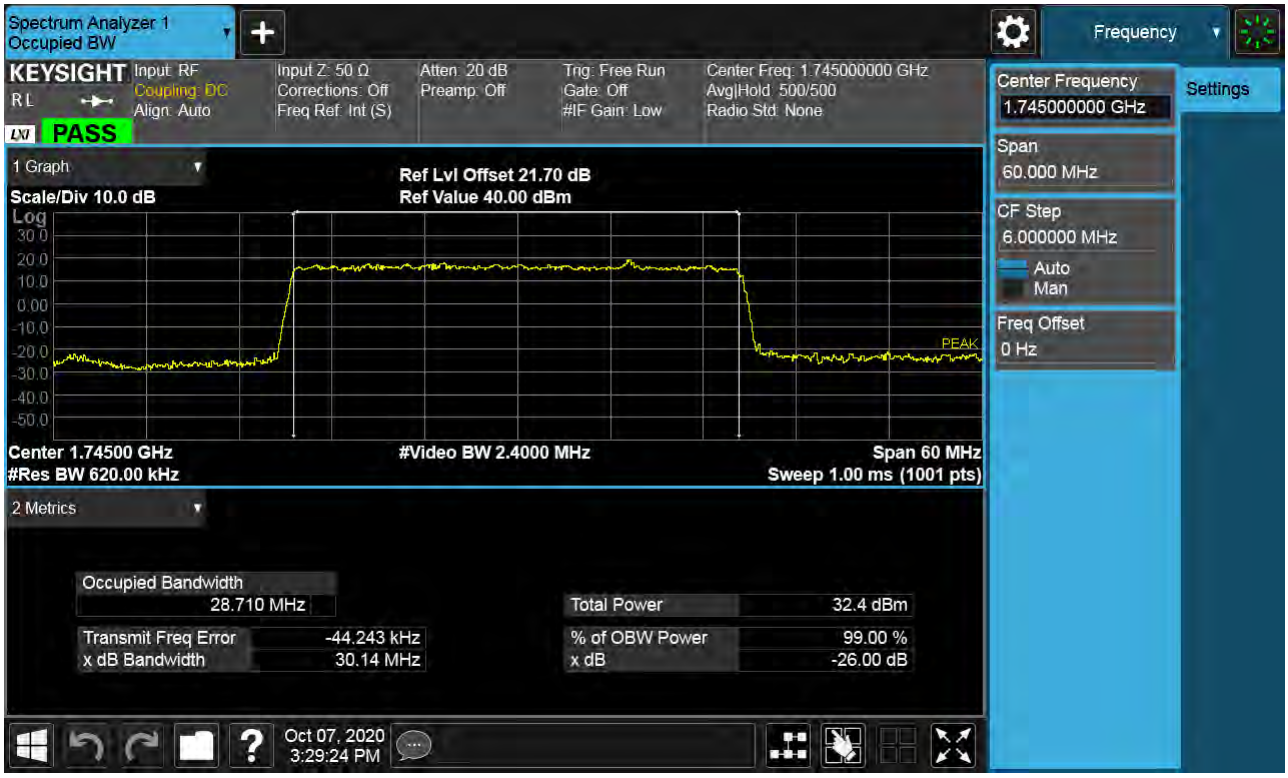
Sub6 n66. Occupied Bandwidth Plot (20M BW Ch.349000 16QAM RB 100)

Sub6 n66. Occupied Bandwidth Plot (20M BW Ch.349000 64QAM RB 100)

Sub6 n66. Occupied Bandwidth Plot (20M BW Ch.349000 256QAM RB 100)



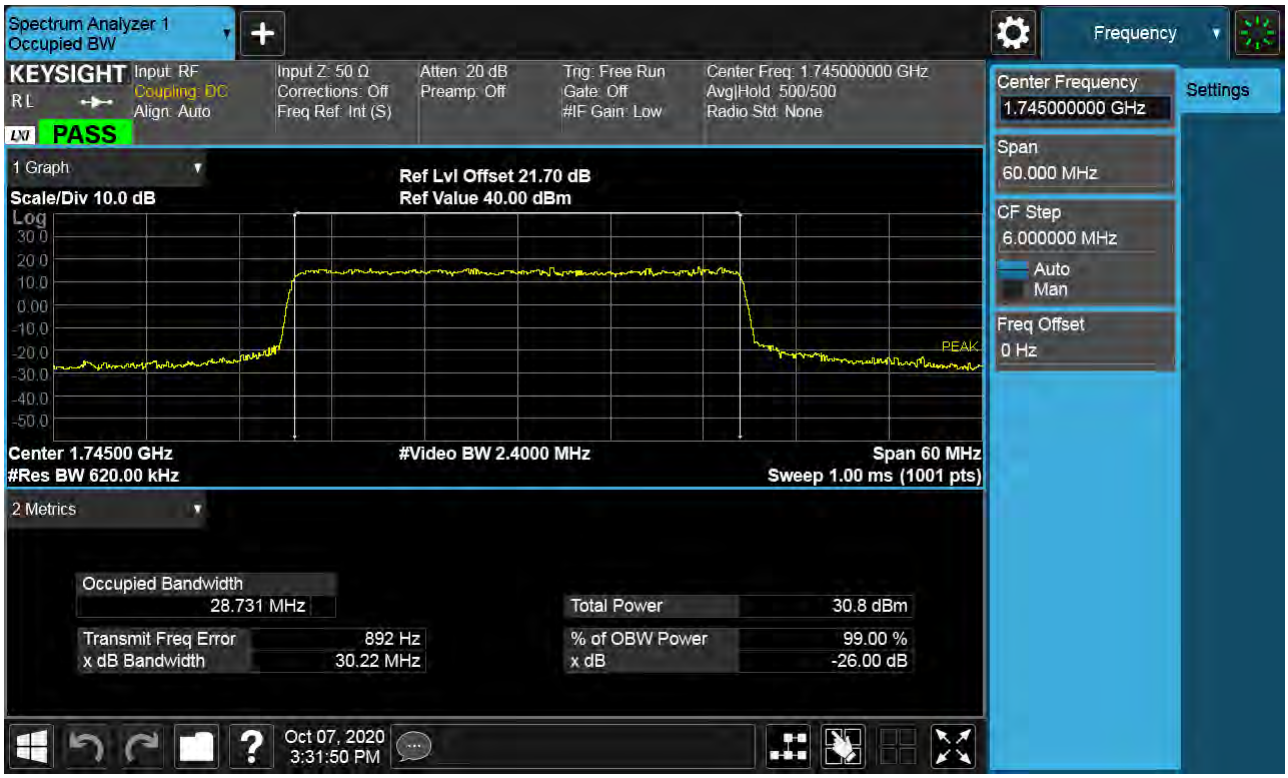
Sub6 n66. Occupied Bandwidth Plot (30M BW Ch.349000 BPSK RB 160)



Sub6 n66. Occupied Bandwidth Plot (30M BW Ch.349000 QPSK RB 160)

Sub6 n66. Occupied Bandwidth Plot (30M BW Ch.349000 16QAM RB 160)

Sub6 n66. Occupied Bandwidth Plot (30M BW Ch.349000 64QAM RB 160)



Sub6 n66. Occupied Bandwidth Plot (30M BW Ch.349000 256QAM RB 160)

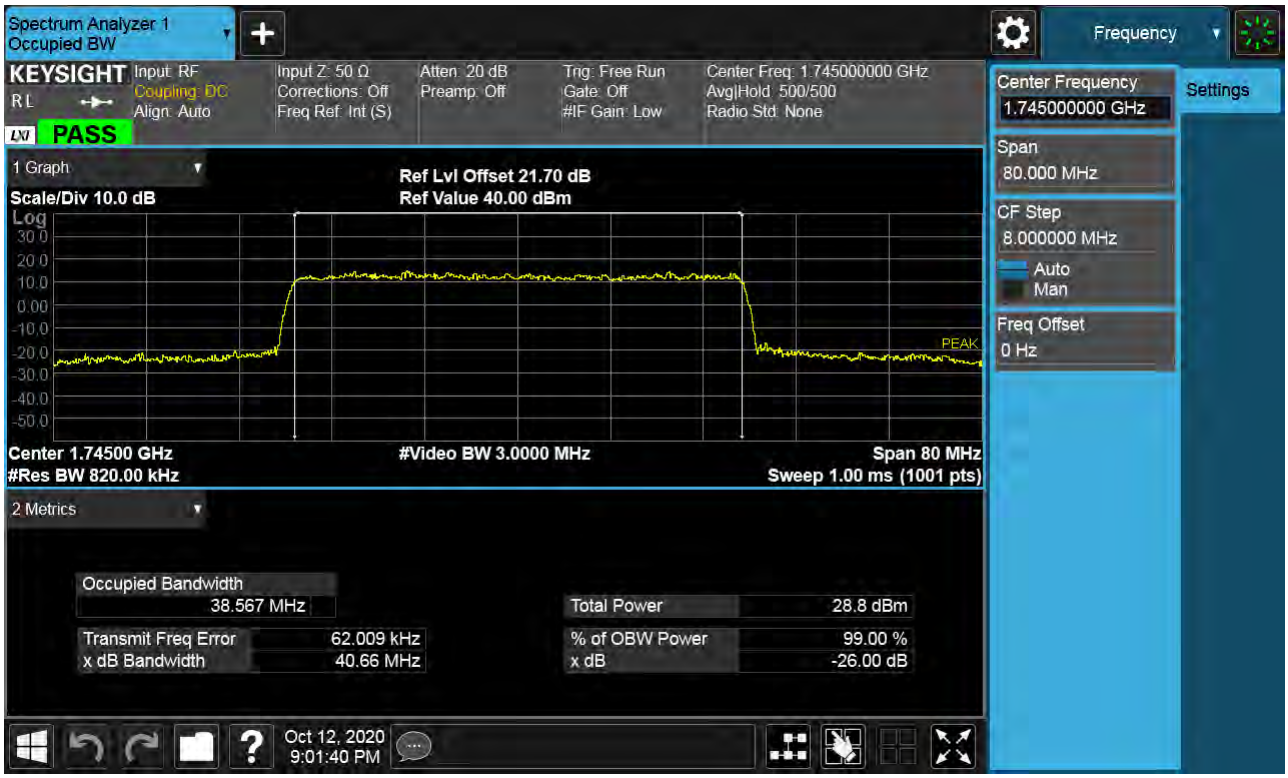
Sub6 n66. Occupied Bandwidth Plot (40M BW Ch.349000 BPSK RB 216)

Sub6 n66. Occupied Bandwidth Plot (40M BW Ch.349000 QPSK RB 216)

Sub6 n66. Occupied Bandwidth Plot (40M BW Ch.349000 16QAM RB 216)

Sub6 n66. Occupied Bandwidth Plot (40M BW Ch.349000 64QAM RB 216)

Sub6 n66. Occupied Bandwidth Plot (40M BW Ch.349000 256QAM RB 216)



Sub6 n66. PAR Plot (5M BW_Ch.349000_ BPSK_RB25_0)

Sub6 n66. PAR Plot (5M BW_Ch.349000_QPSK_RB25_0)

Sub6 n66. PAR Plot (5M BW_Ch.349000_16QAM_RB25_0)

Sub6 n66. PAR Plot (5M BW_Ch.349000_64QAM_RB25_0)

Sub6 n66. PAR Plot (5M BW_Ch.349000_256QAM_RB25_0)

Sub6 n66. PAR Plot (10M BW_Ch.349000_ BPSK_RB50_0)

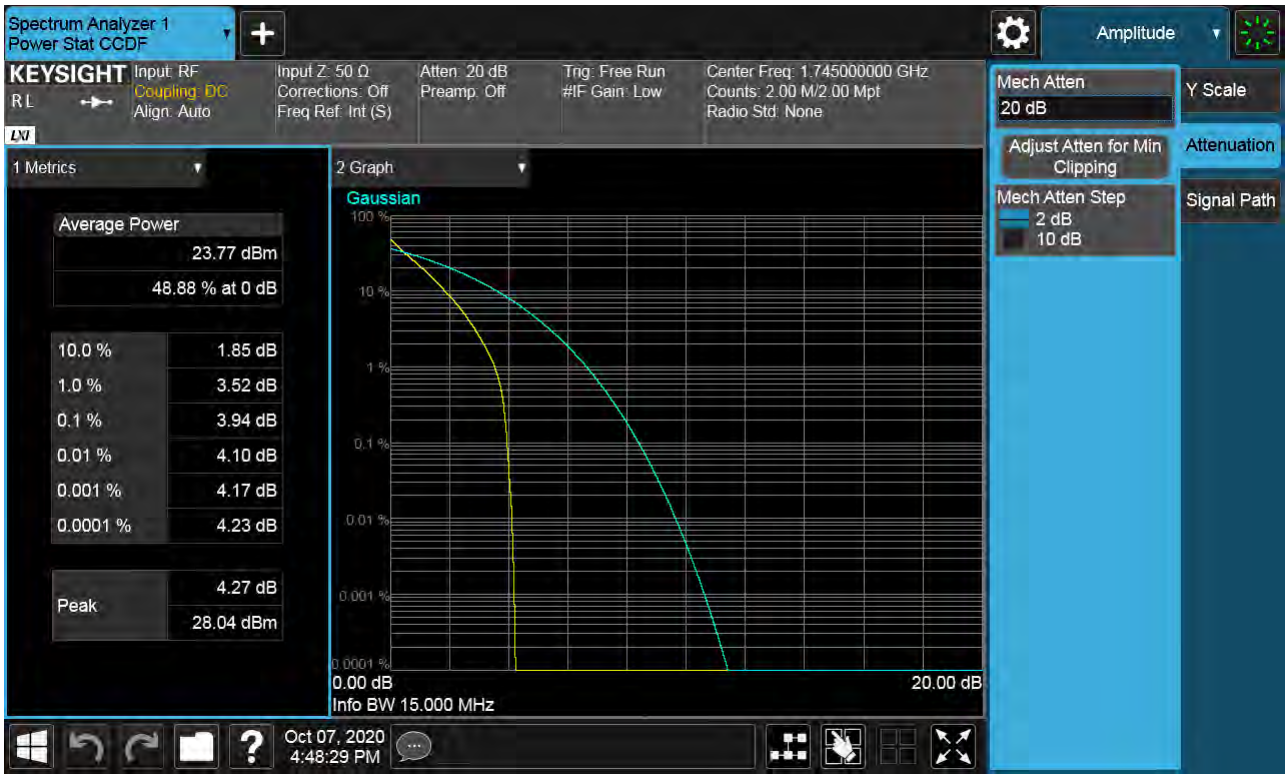
Sub6 n66. PAR Plot (10M BW_Ch.349000_QPSK_RB50_0)

Sub6 n66. PAR Plot (10M BW_Ch.349000_16QAM_RB50_0)

Sub6 n66. PAR Plot (10M BW_Ch.349000_64QAM_RB50_0)

Sub6 n66. PAR Plot (10M BW_Ch.349000_256QAM_RB50_0)

Sub6 n66. PAR Plot (15M BW_Ch.349000_ BPSK_RB75_0)



Sub6 n66. PAR Plot (15M BW_Ch.349000_QPSK_RB75_0)

Sub6 n66. PAR Plot (15M BW_Ch.349000_16QAM_RB75_0)

Sub6 n66. PAR Plot (15M BW_Ch.349000_64QAM_RB75_0)

Sub6 n66. PAR Plot (15M BW_Ch.349000_256QAM_RB75_0)

Sub6 n66. PAR Plot (20M BW_Ch.349000_ BPSK_RB100_0)

Sub6 n66. PAR Plot (20M BW_Ch.349000_QPSK_RB100_0)

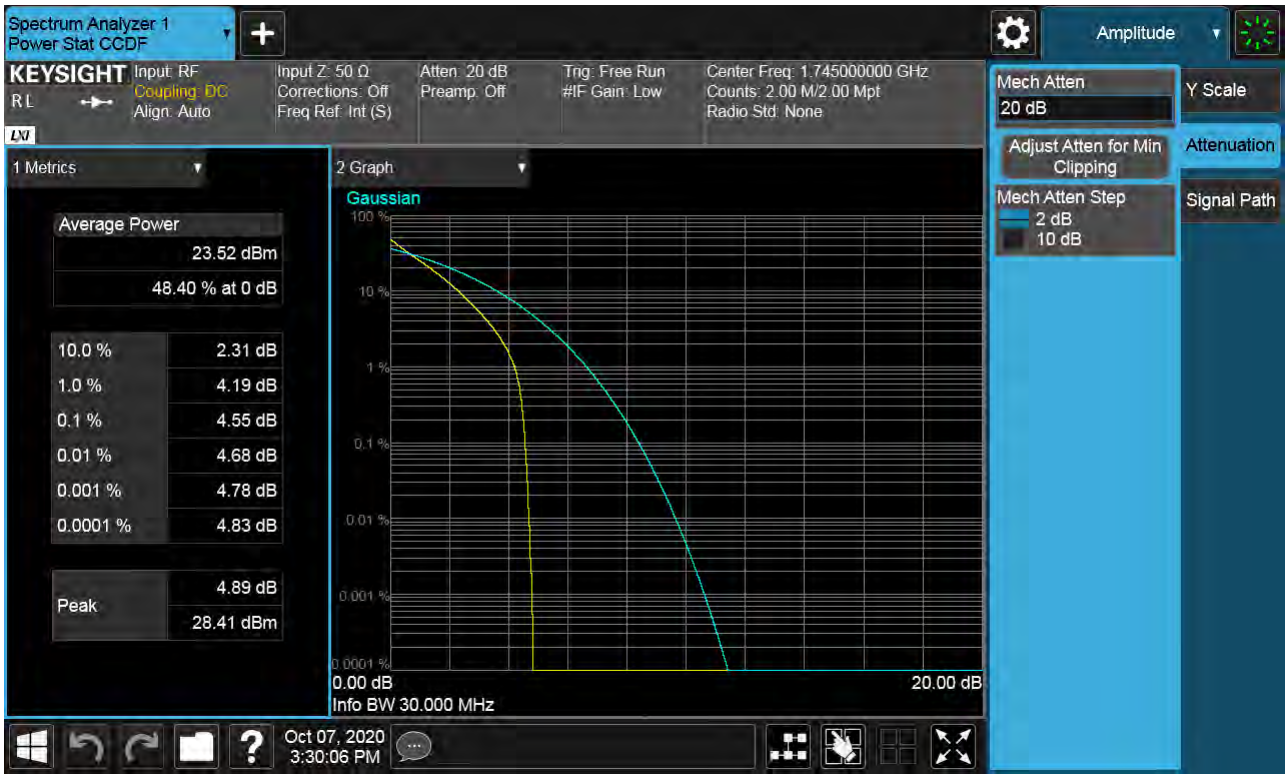
Sub6 n66. PAR Plot (20M BW_Ch.349000_16QAM_RB100_0)

Sub6 n66. PAR Plot (20M BW_Ch.349000_64QAM_RB100_0)

Sub6 n66. PAR Plot (20M BW_Ch.349000_256QAM_RB100_0)

Sub6 n66. PAR Plot (30M BW_Ch.349000_ BPSK_RB160_0)

Sub6 n66. PAR Plot (30M BW_Ch.349000_QPSK_RB160_0)

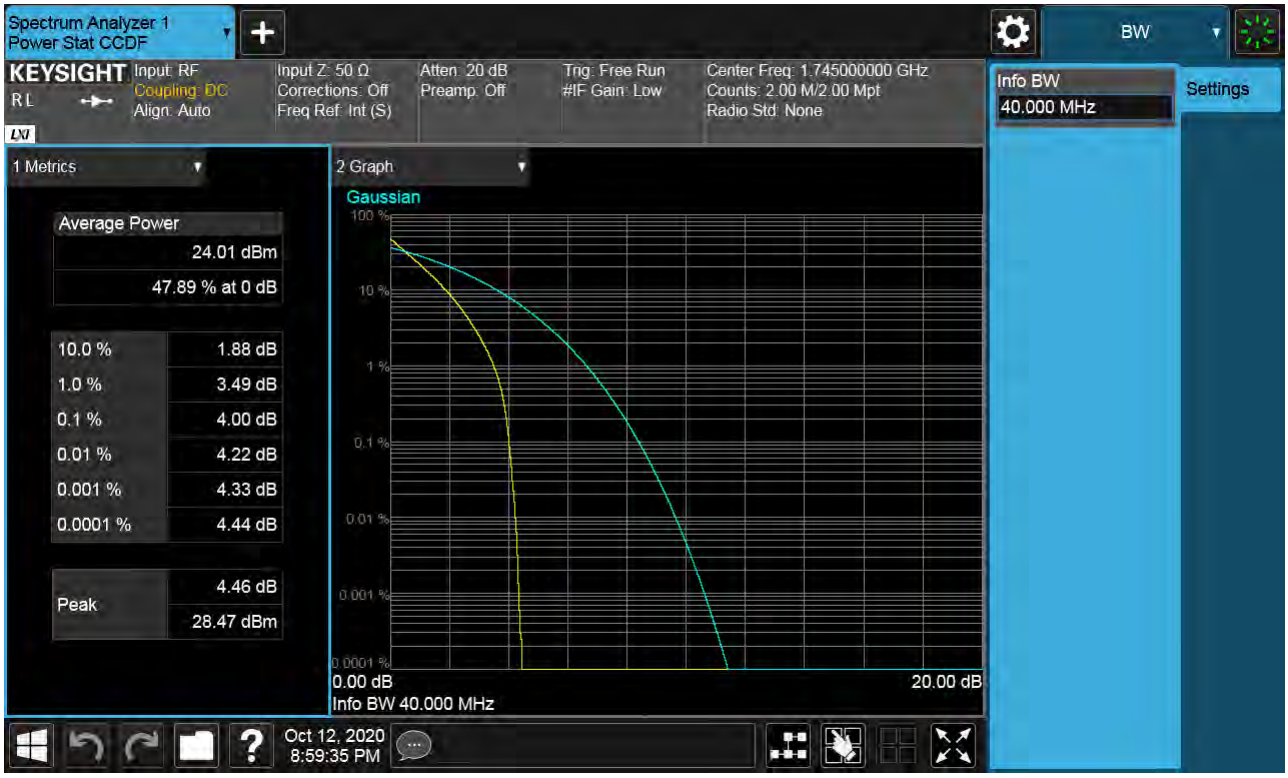


Sub6 n66. PAR Plot (30M BW_Ch.349000_16QAM_RB160_0)

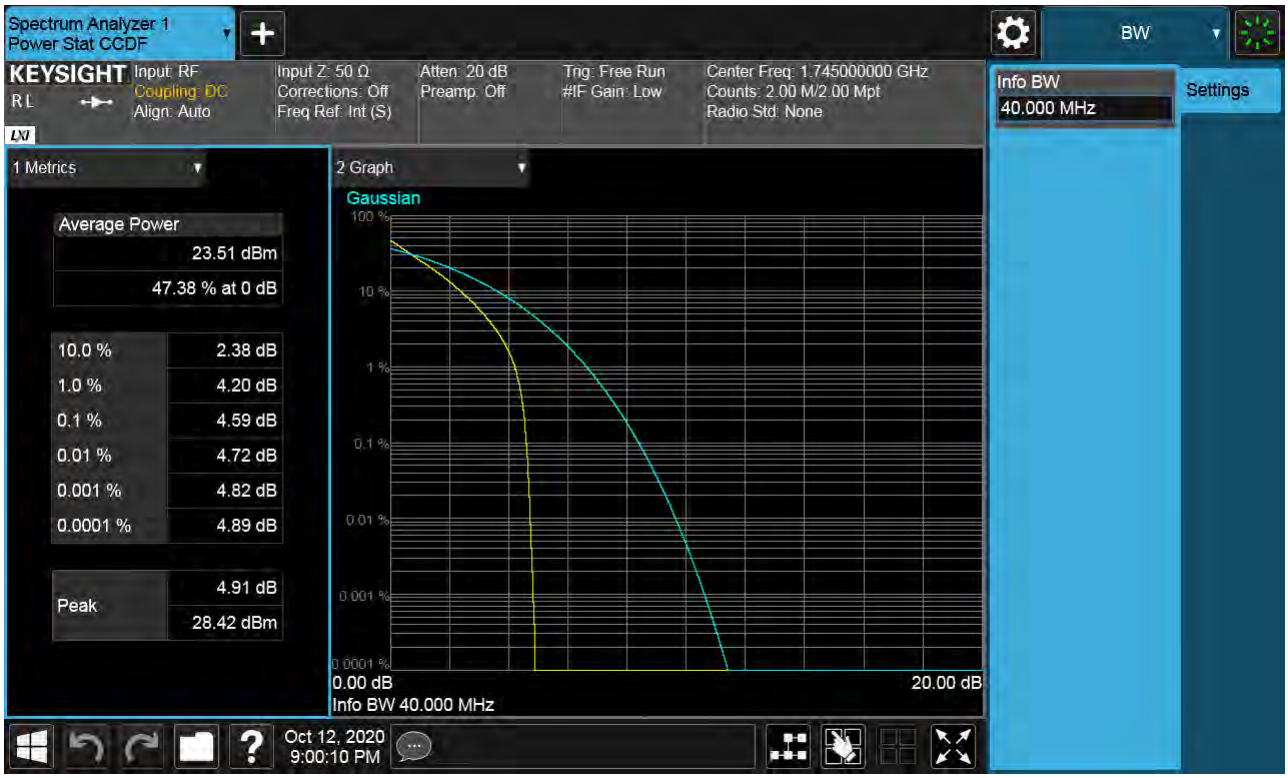
Sub6 n66. PAR Plot (30M BW_Ch.349000_64QAM_RB160_0)

Sub6 n66. PAR Plot (30M BW_Ch.349000_256QAM_RB160_0)

Sub6 n66. PAR Plot (40M BW_Ch.349000_ BPSK_RB216_0)



Sub6 n66. PAR Plot (40M BW_Ch.349000_QPSK_RB216_0)

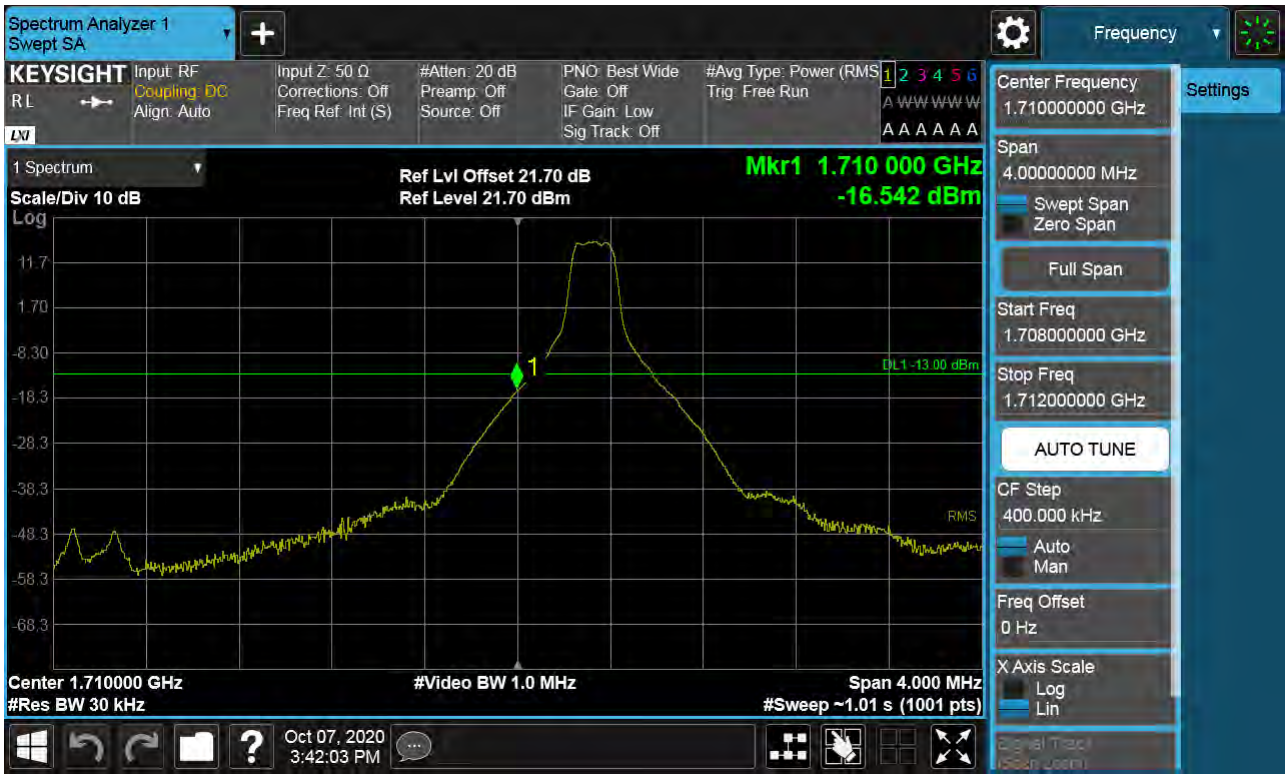


Sub6 n66. PAR Plot (40M BW_Ch.349000_16QAM_RB216_0)

Sub6 n66. PAR Plot (40M BW_Ch.349000_64QAM_RB216_0)

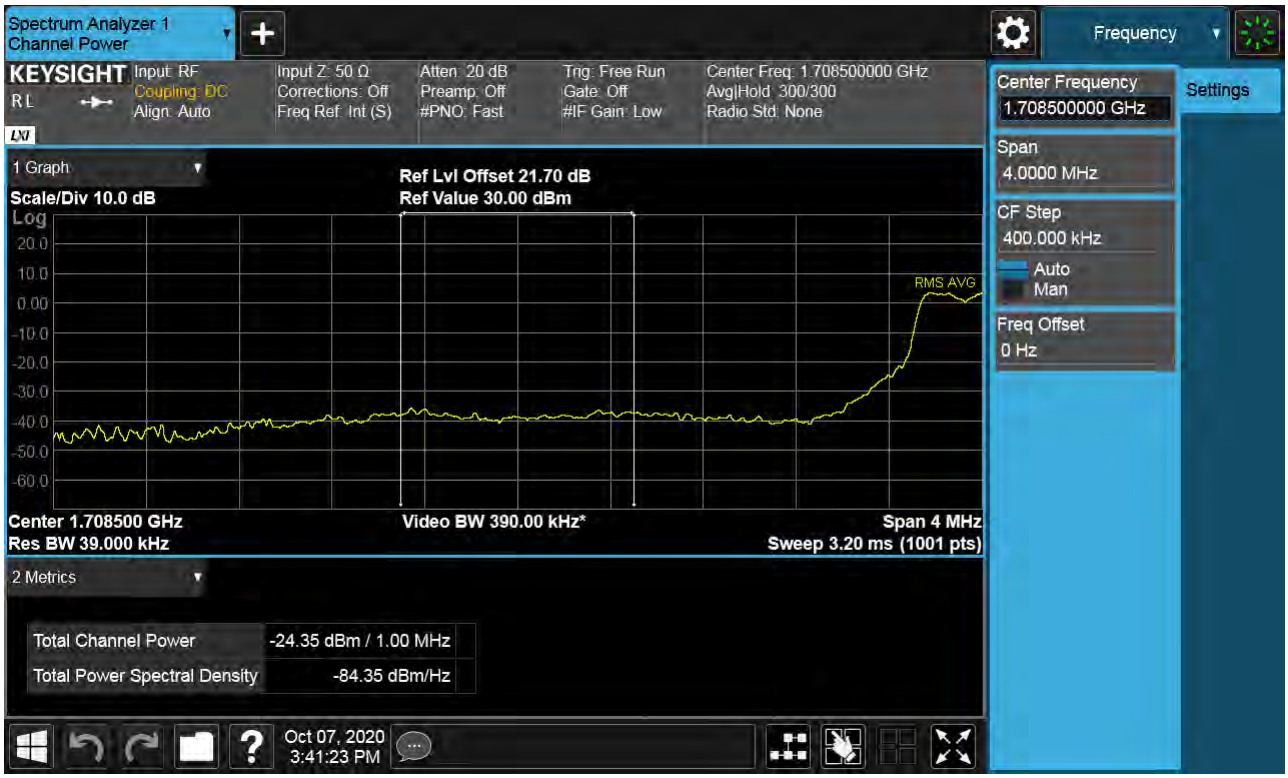
Sub6 n66. PAR Plot (40M BW_Ch.349000_256QAM_RB216_0)

Sub6 n66. Lower Band Edge Plot (5M BW Ch.342500 BPSK RB 1, Offset 0) -1



Sub6 n66. Lower Band Edge Plot (5M BW Ch.342500 BPSK RB 25_0) -2

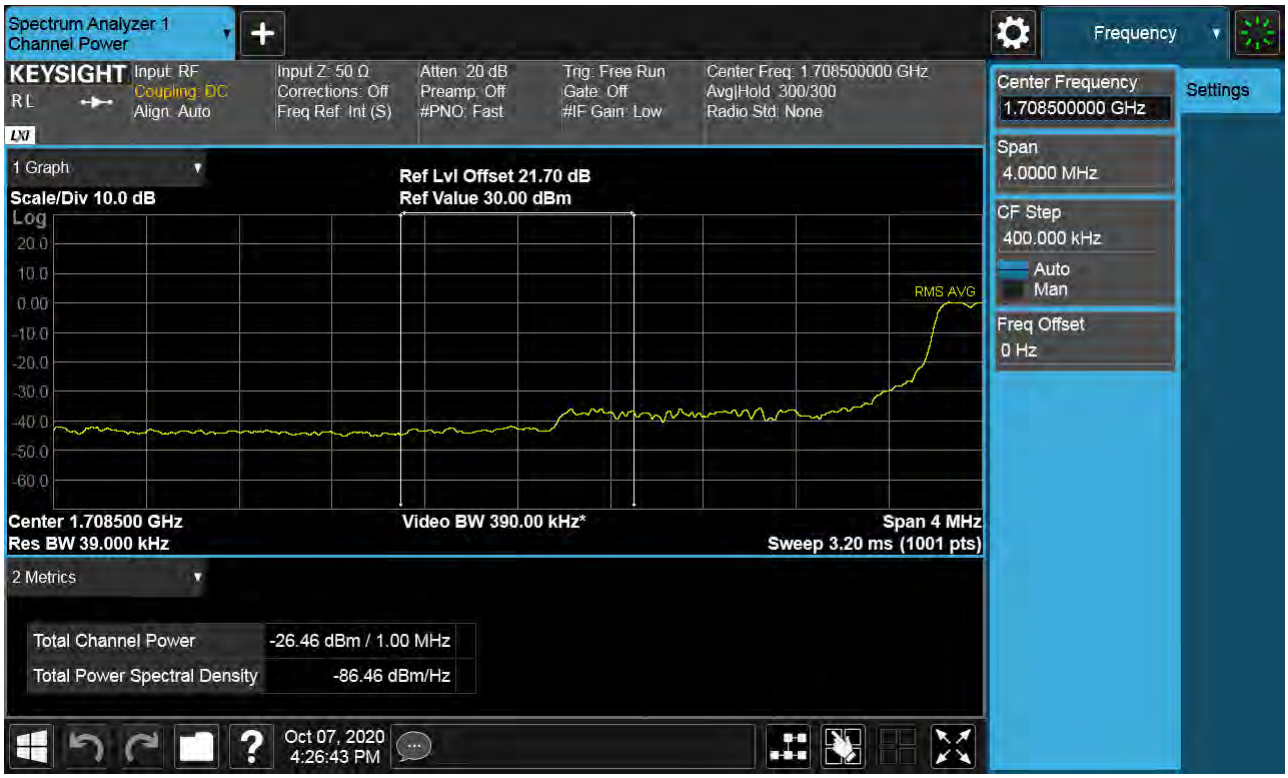
Sub6 n66. Lower Extended Band Edge Plot (5M BW Ch.342500 BPSK_RB25_0) -3



Sub6 n66. Lower Band Edge Plot (10M BW Ch.343000 BPSK RB 1, Offset 0) -1

Sub6 n66. Lower Band Edge Plot (10M BW Ch.343000 BPSK RB 50_0) -2

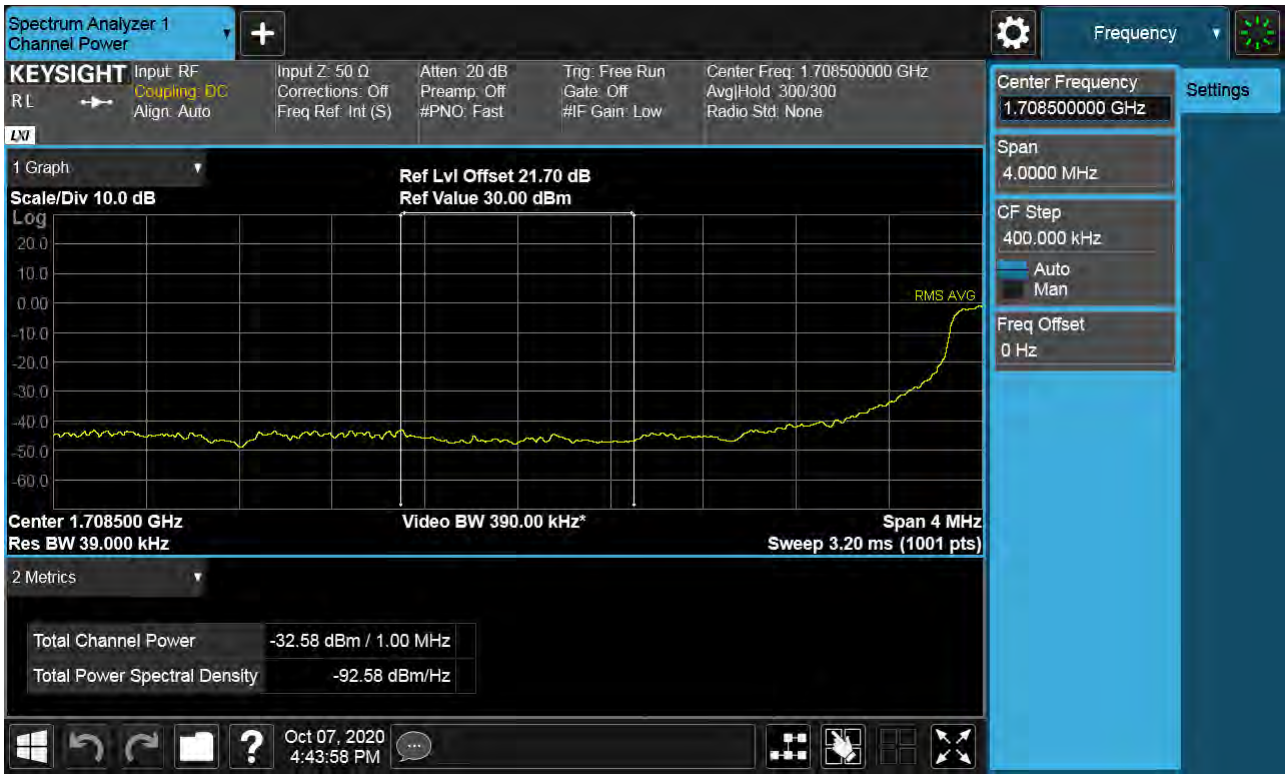
Sub6 n66. Lower Extended Band Edge Plot (10M BW Ch.343000 BPSK_RB50_0) -3



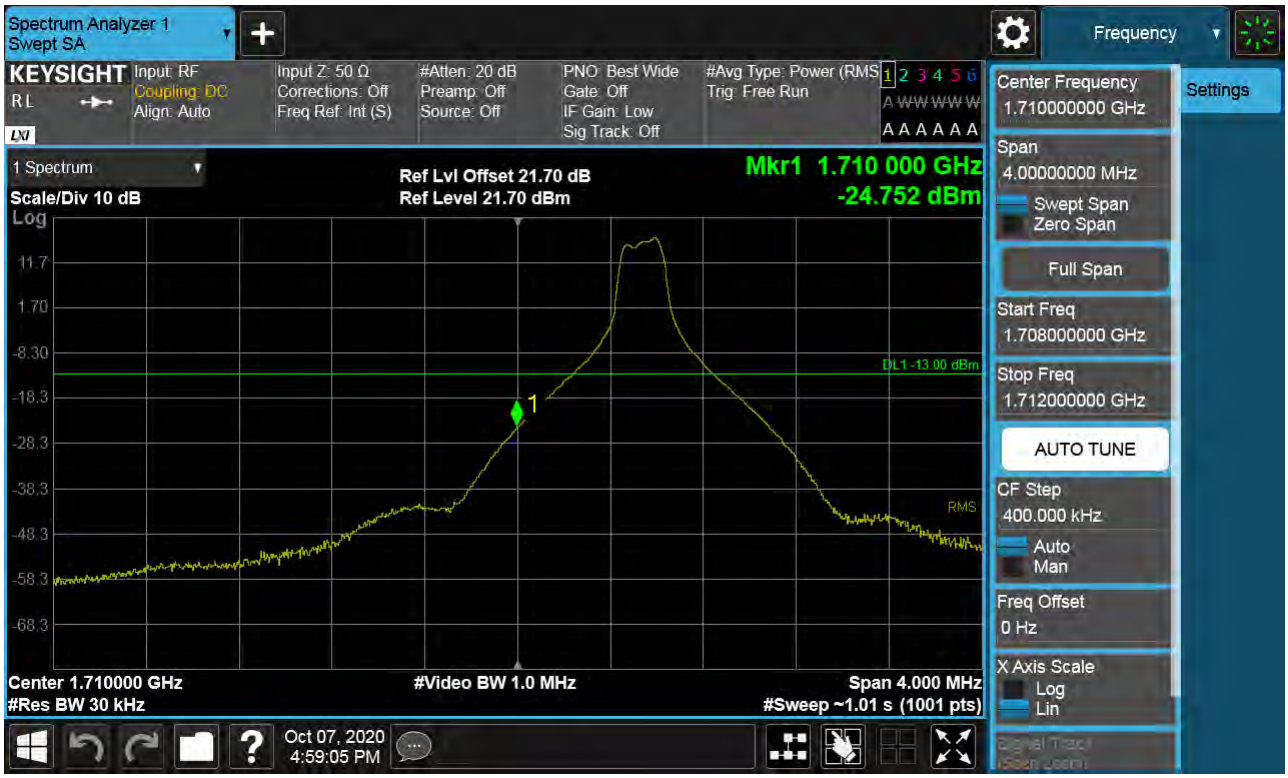
Sub6 n66. Lower Band Edge Plot (15M BW Ch.343500 BPSK RB 1, Offset 0) -1

Sub6 n66. Lower Band Edge Plot (15M BW Ch.343500 BPSK RB 75_0) -2

Sub6 n66. Lower Extended Band Edge Plot (15M BW Ch.343500 BPSK_RB75_0) -3

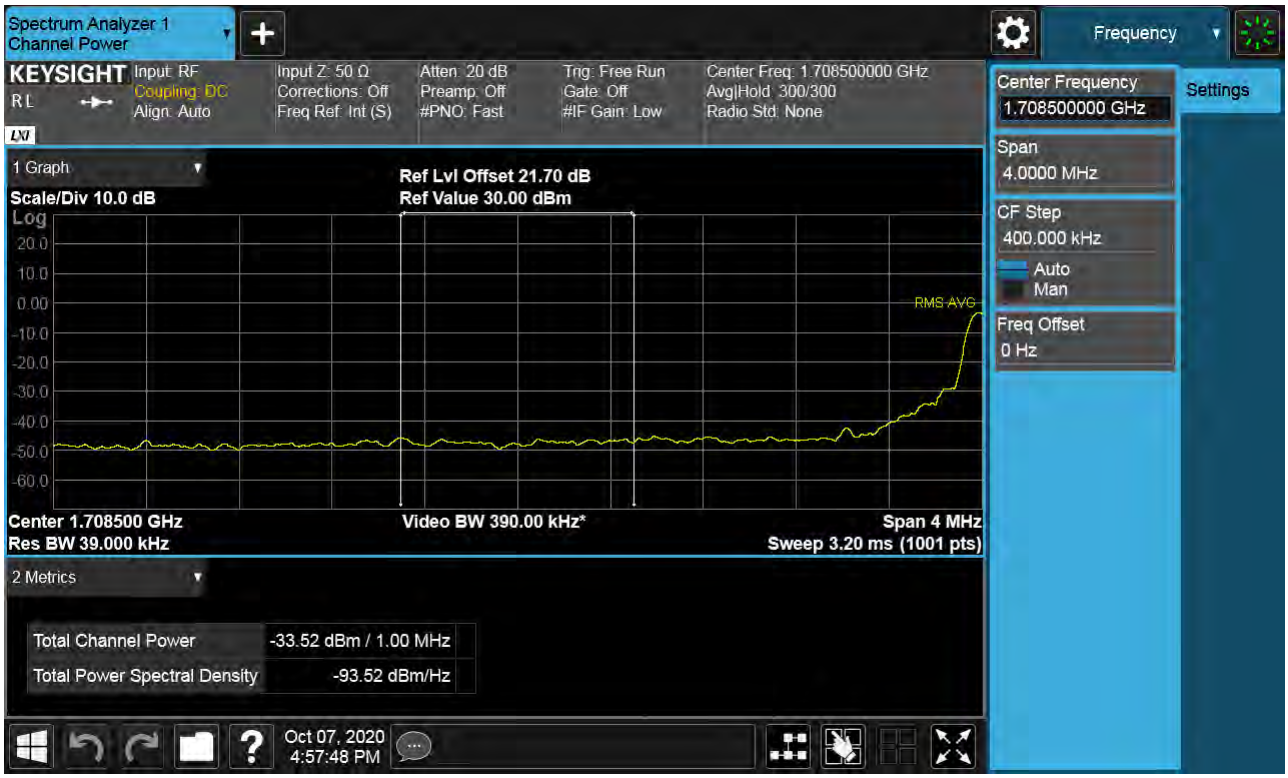


Sub6 n66. Lower Band Edge Plot (20M BW Ch.344000 BPSK RB 1, Offset 0) -1



Sub6 n66. Lower Band Edge Plot (20M BW Ch.344000 BPSK RB 100_0) -2

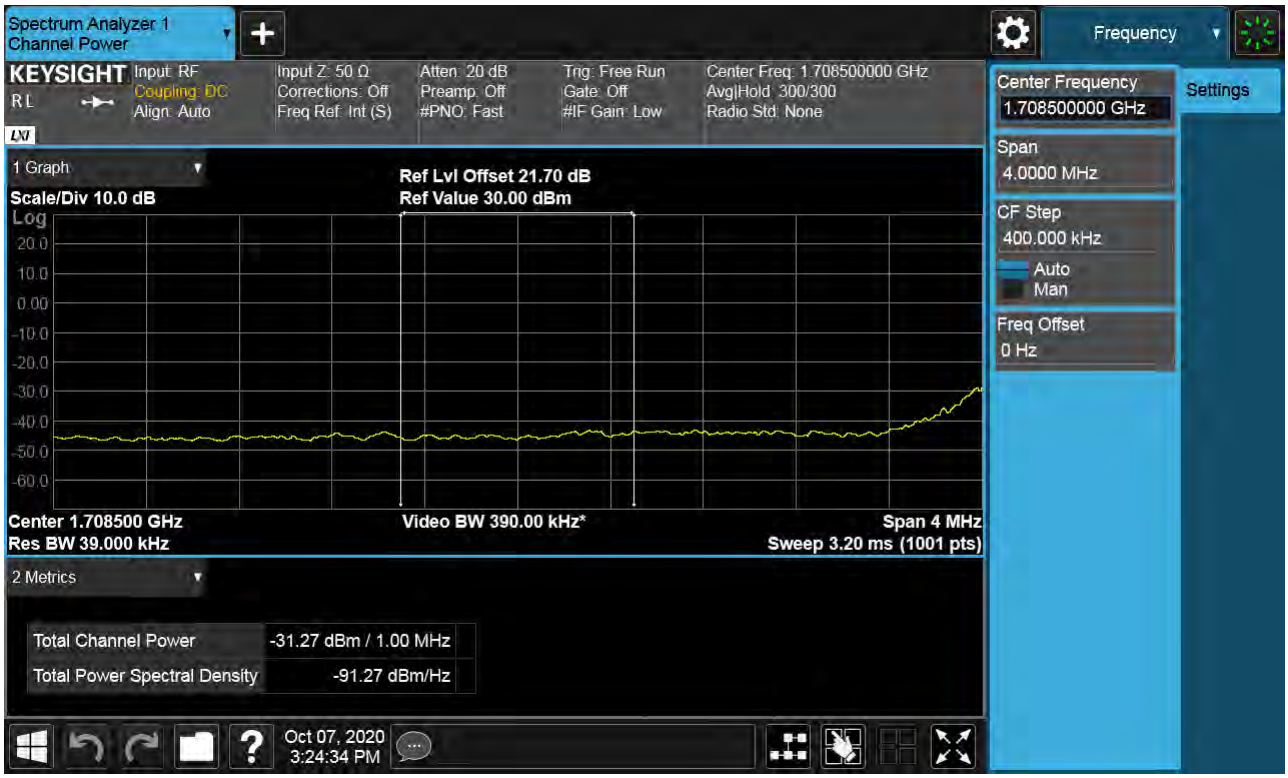
Sub6 n66. Lower Extended Band Edge Plot (20M BW Ch.344000 BPSK_RB100_0) -3



Sub6 n66. Lower Band Edge Plot (30M BW Ch.345000 BPSK RB 1, Offset 0) -1

Sub6 n66. Lower Band Edge Plot (30M BW Ch.345000 BPSK RB 160_0) -2

Sub6 n66. Lower Extended Band Edge Plot (30M BW Ch.345000 BPSK_RB160_0) -3

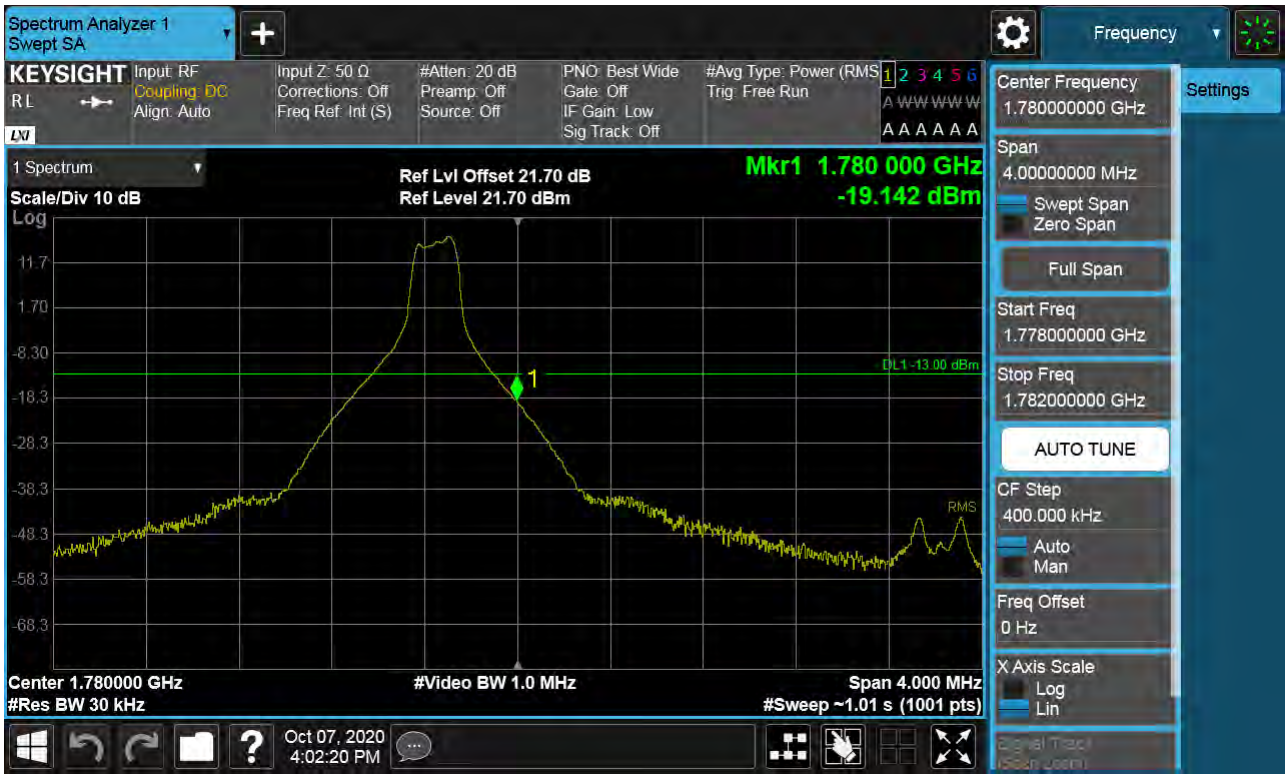


Sub6 n66. Lower Band Edge Plot (40M BW Ch.346000 BPSK RB 1, Offset 0) -1

Sub6 n66. Lower Band Edge Plot (40M BW Ch.346000 BPSK RB 216_0) -2

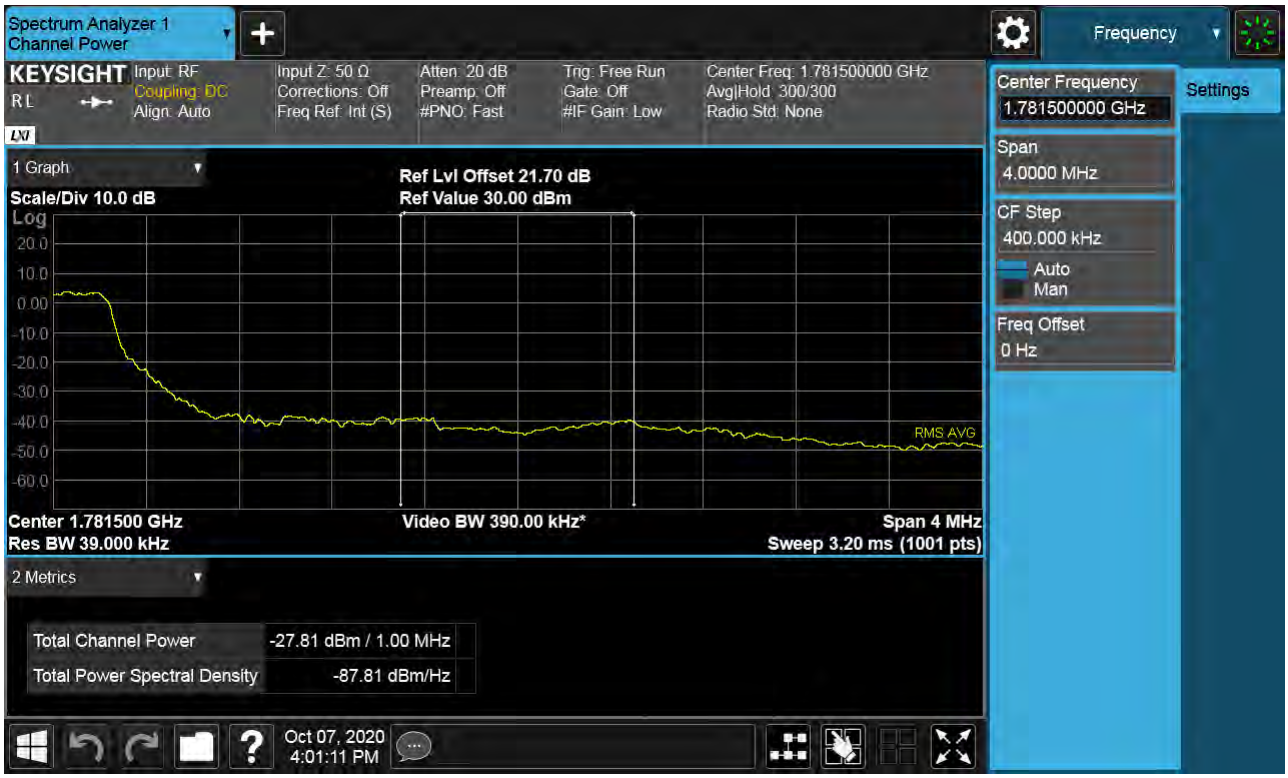
Sub6 n66. Lower Extended Band Edge Plot (40M BW Ch.346000 BPSK_RB216_0) -3

Sub6 n66. Upper Band Edge Plot (5M BW Ch.355500 BPSK_RB1_Offset 24) -1



Sub6 n66. Upper Band Edge Plot (5M BW Ch.355500 BPSK_RB25_0) -2

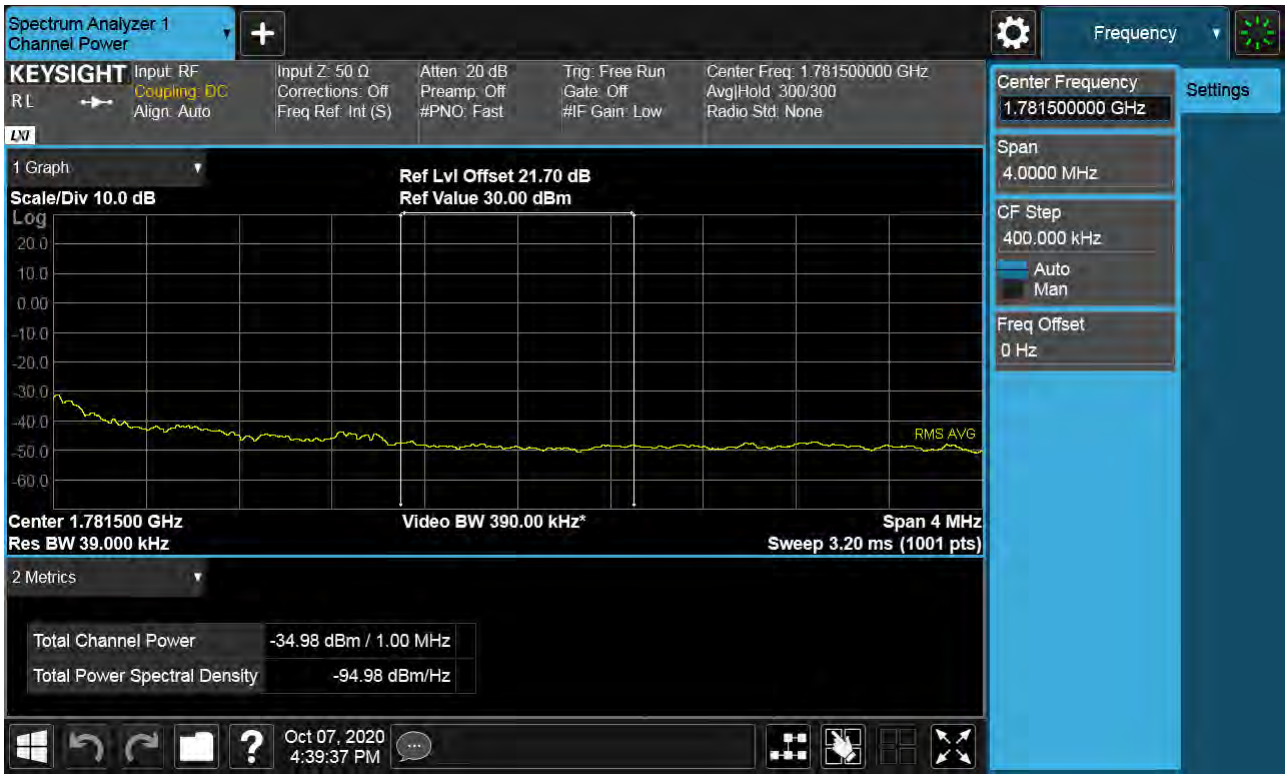
Sub6 n66. Upper Extended Band Edge Plot (5M BW Ch.355500 BPSK_RB25_0) -3



Sub6 n66. Upper Band Edge Plot (10M BW Ch.355000 BPSK_RB1_Offset 49) -1

Sub6 n66. Upper Band Edge Plot (10M BW Ch.355000 BPSK_RB50_0) -2

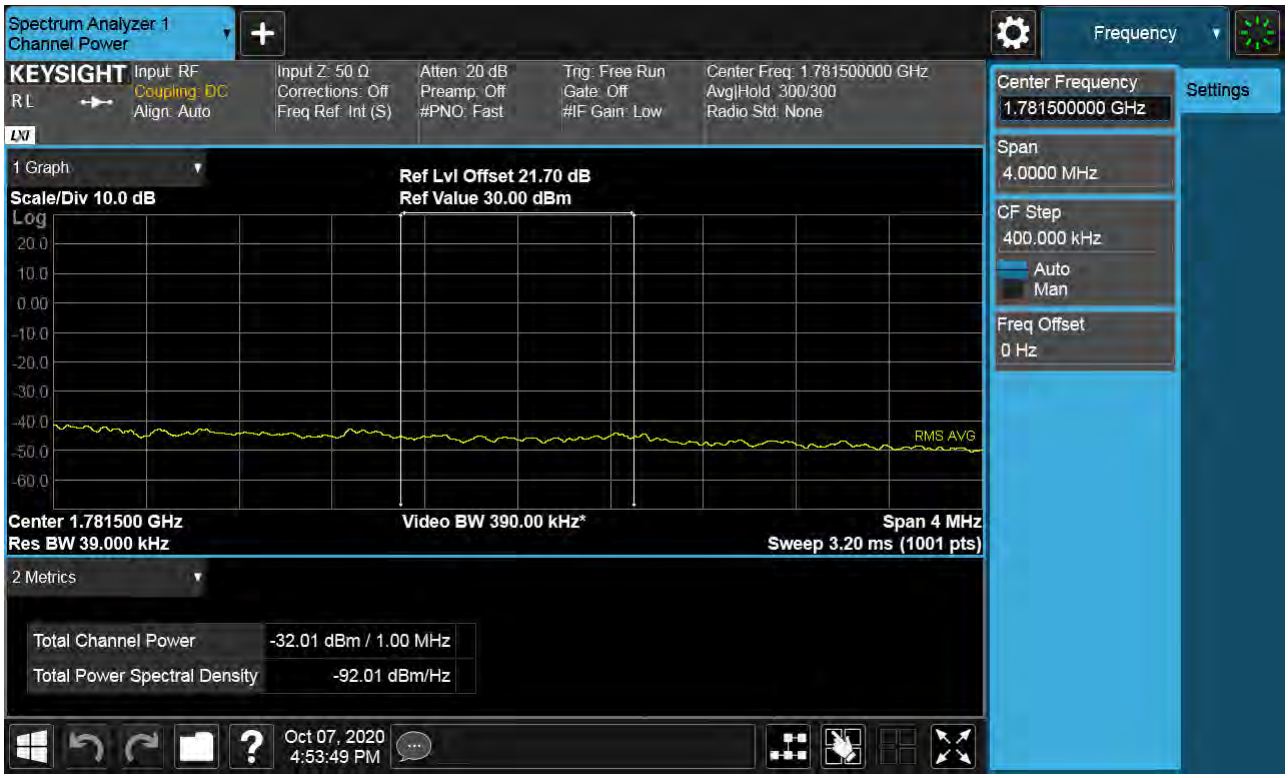
Sub6 n66. Upper Extended Band Edge Plot (10M BW Ch.355000 BPSK_RB50_0) -3



Sub6 n66. Upper Band Edge Plot (15M BW Ch.354500 BPSK_RB1_Offset 74) -1

Sub6 n66. Upper Band Edge Plot (15M BW Ch.354500 BPSK_RB75_0) -2

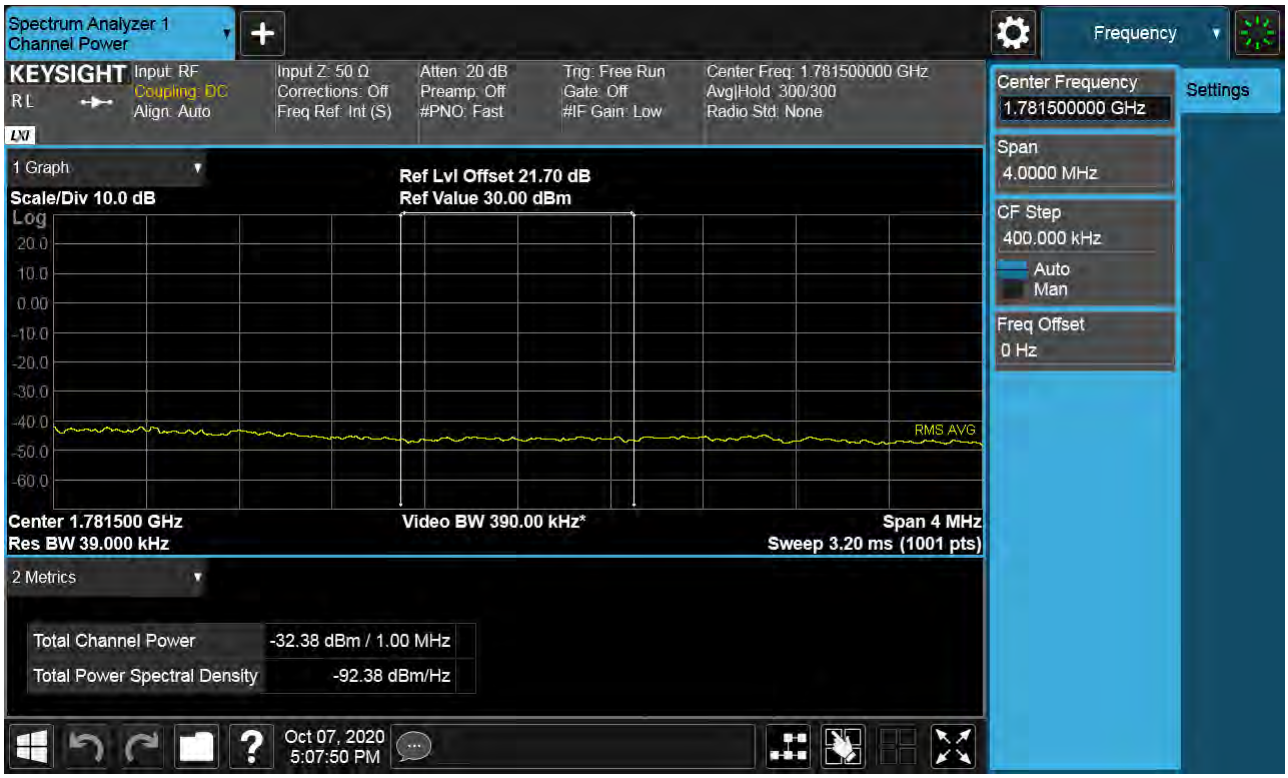
Sub6 n66. Upper Extended Band Edge Plot (15M BW Ch.354500 BPSK_RB75_0) -3



Sub6 n66. Upper Band Edge Plot (20M BW Ch.354000 BPSK_RB1_Offset 99) -1

Sub6 n66. Upper Band Edge Plot (20M BW Ch.354000 BPSK_RB100_0) -2

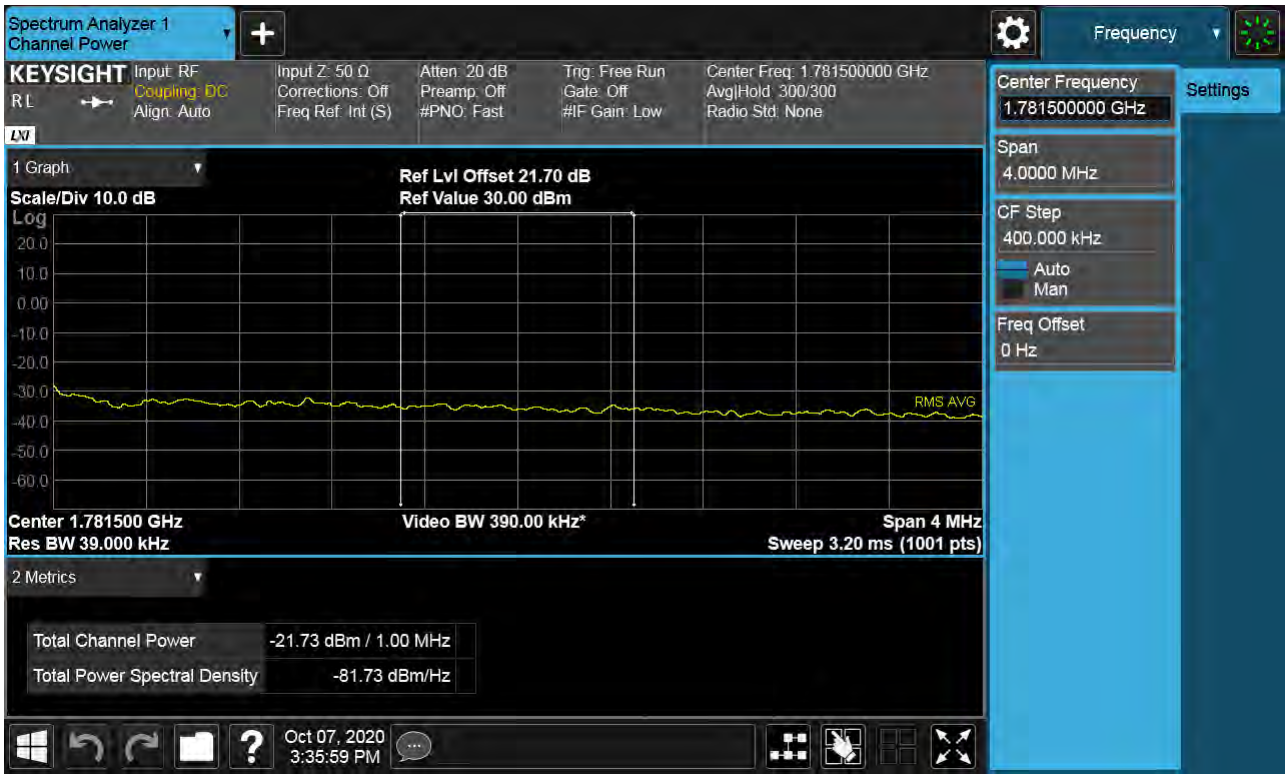
Sub6 n66. Upper Extended Band Edge Plot (20M BW Ch.354000 BPSK_RB100_0) -3



Sub6 n66. Upper Band Edge Plot (30M BW Ch.353000 BPSK_RB1_Offset 159) -1

Sub6 n66. Upper Band Edge Plot (30M BW Ch.353000 BPSK_RB160_0) -2

Sub6 n66. Upper Extended Band Edge Plot (30M BW Ch.353000 BPSK_RB160_0) -3

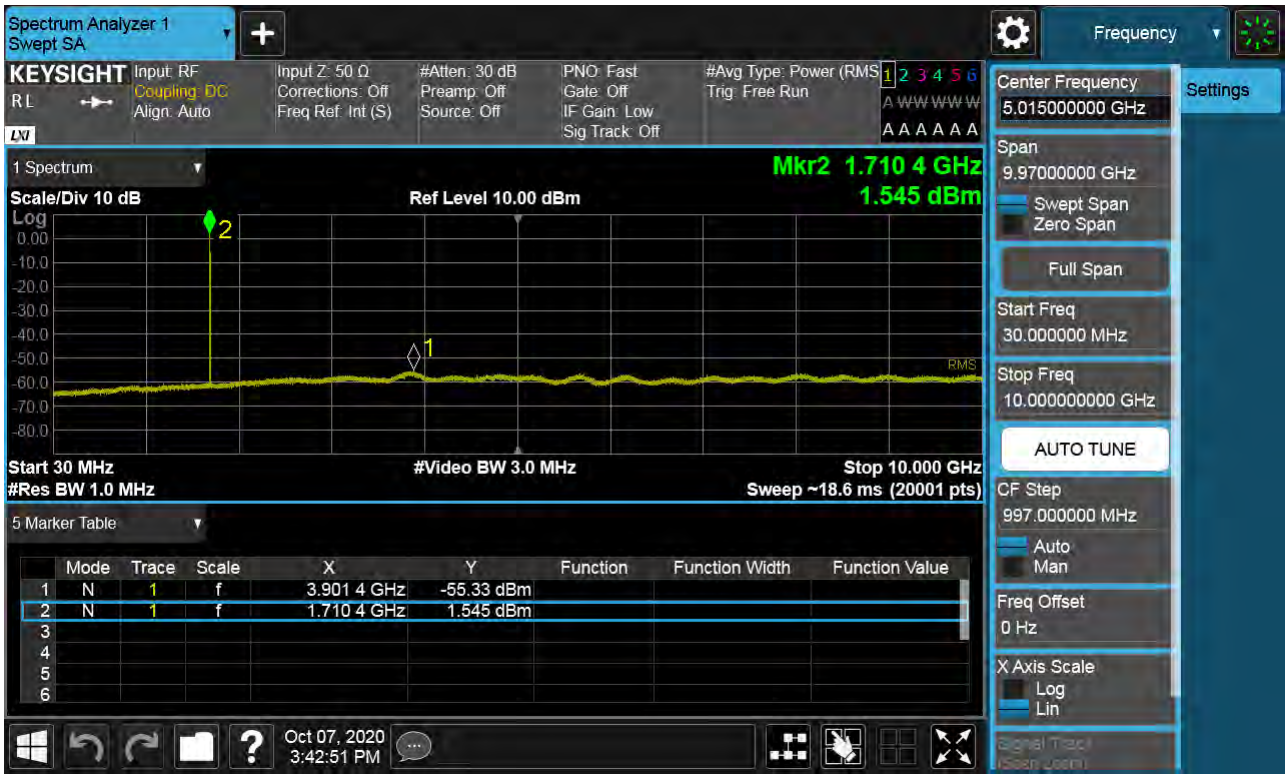


Sub6 n66. Upper Band Edge Plot (40M BW Ch.352000 BPSK_RB1_Offset 215) -1

Sub6 n66. Upper Band Edge Plot (40M BW Ch.352000 BPSK_RB216_0) -2

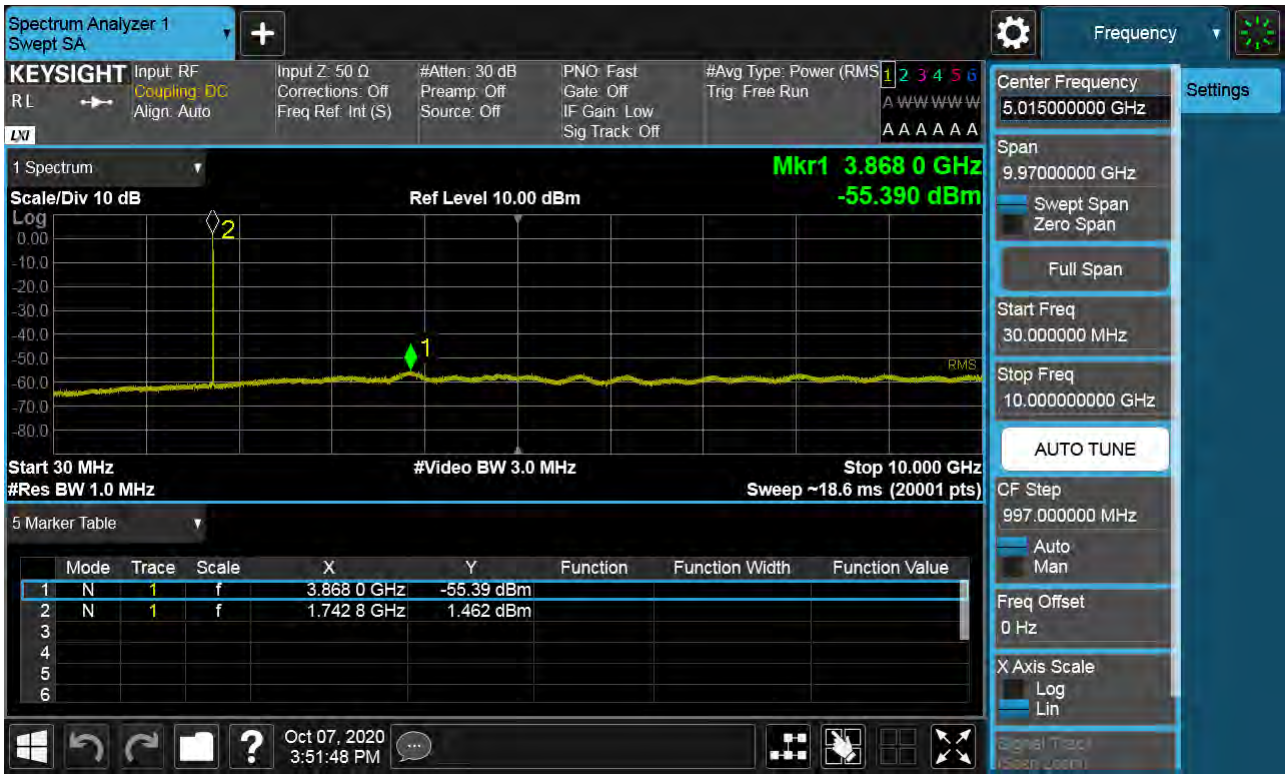
Sub6 n66. Upper Extended Band Edge Plot (40M BW Ch.352000 BPSK_RB216_0) -3

Sub6 n66. Conducted Spurious Plot_1 (342500ch_5MHz_BPSK_ RB 1_1)



Sub6 n66. Conducted Spurious Plot_2 (342500ch_5MHz_BPSK_ RB 1_1)

Sub6 n66. Conducted Spurious Plot_1 (349000ch_5MHz_BPSK_ RB 1_1)



Sub6 n66. Conducted Spurious Plot_2 (349000ch_5MHz_BPSK_ RB 1_1)