

# FCC LTE REPORT

## Certification

**Applicant Name:**

SAMSUNG Electronics Co., Ltd.

**Date of Issue:**

January 26, 2022

**Location:**

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**Address:**

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

**Report No.:** HCT-RF-2201-FC093

**FCC ID:** A3LSMM236B

**APPLICANT:** SAMSUNG Electronics Co., Ltd.

Model(s): SM-M236B/DS  
 EUT Type: Mobile Phone  
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)  
 FCC Rule Part(s): §22, §2

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band26 (1.4)	824.7 – 848.3	1M09G7D	QPSK	0.094	19.71
		1M09W7D	16QAM	0.080	19.01
		1M09W7D	64QAM	0.062	17.90
LTE – Band26 (3)	825.5 – 847.5	2M71G7D	QPSK	0.093	19.67
		2M71W7D	16QAM	0.080	19.01
		2M70W7D	64QAM	0.062	17.89
LTE – Band26 (5)	826.5 – 846.5	4M51G7D	QPSK	0.090	19.52
		4M50W7D	16QAM	0.076	18.81
		4M51W7D	64QAM	0.060	17.79
LTE – Band26 (10)	829.0 – 844.0	8M99G7D	QPSK	0.085	19.27
		9M00W7D	16QAM	0.073	18.61
		8M99W7D	64QAM	0.057	17.56
LTE – Band26 (15)	831.5 – 841.5	13M5G7D	QPSK	0.086	19.35
		13M5W7D	16QAM	0.074	18.68
		13M5W7D	64QAM	0.058	17.61

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)

Report No.: HCT-RF-2201-FC093

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REVIEWED BY



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Report prepared by : Jae Mun Do  
Engineer of Telecommunication Testing Center

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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)

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# Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2201-FC093	January 26, 2022	- First Approval Report

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

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# MEASUREMENT REPORT

## 1. GENERAL INFORMATION

<b>Applicant Name:</b>	SAMSUNG Electronics Co., Ltd.
<b>Address:</b>	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
<b>FCC ID:</b>	A3LSMM236B
<b>Application Type:</b>	Certification
<b>FCC Classification:</b>	PCS Licensed Transmitter Held to Ear (PCE)
<b>FCC Rule Part(s):</b>	§22, §2
<b>EUT Type:</b>	Mobile Phone
<b>Model(s):</b>	SM-M236B/DS
<b>Tx Frequency:</b>	824.7 MHz – 848.3 MHz (LTE – Band 26 (1.4 MHz)) 825.5 MHz – 847.5 MHz (LTE – Band 26 (3 MHz)) 826.5 MHz – 846.5 MHz (LTE – Band 26 (5 MHz)) 829.0 MHz – 844.0 MHz (LTE – Band 26 (10 MHz)) 831.5 MHz – 841.5 MHz (LTE – Band 26 (15 MHz))
<b>Date(s) of Tests:</b>	December 23, 2021 ~ January 25, 2022
<b>Serial number:</b>	Radiated: R3CRB0JMDVJ Conducted: R3CRB0HM09R

## **2. INTRODUCTION**

### **2.1. DESCRIPTION OF EUT**

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub6.

It also supports IEEE 802.11 a/b/g/n/ac (20/40/80), Bluetooth, BT LE, NFC.

### **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)
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  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $>$  2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

### Test Note

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

The power is calculated by the following formula;

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

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

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.

These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference

between the gain of the horn and an isotropic antenna are taken into consideration

4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.



### 3.3 RADIATED SPURIOUS EMISSIONS

#### Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA-603-E-2016.

#### Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1MHz for emissions above 1 GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $> 2 \times$  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<sup>th</sup> 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;

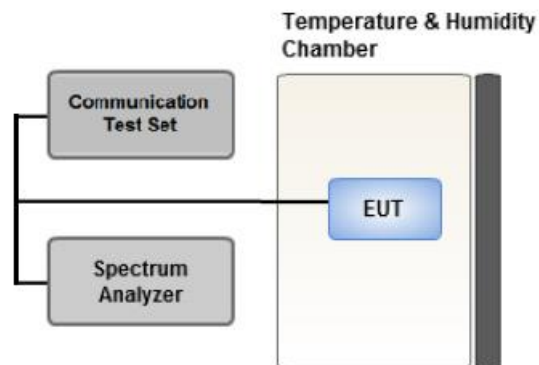
$$\text{Result}_{(dBm)} = P_g_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

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

If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

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

### 3.4 OCCUPIED BANDWIDTH.



**Test setup**

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

The EUT makes a call to the communication simulator.

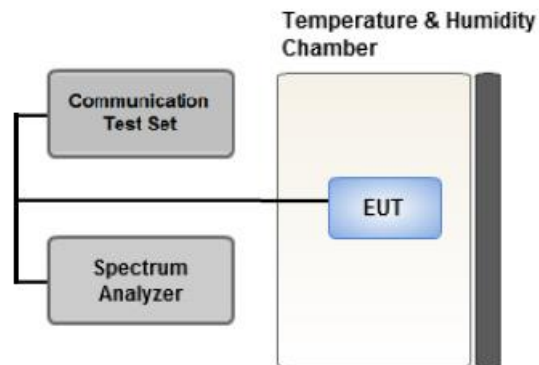
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

#### **Test Settings**

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW  $\geq 3 \times$  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

### 3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



**Test setup**

#### **Test Overview**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

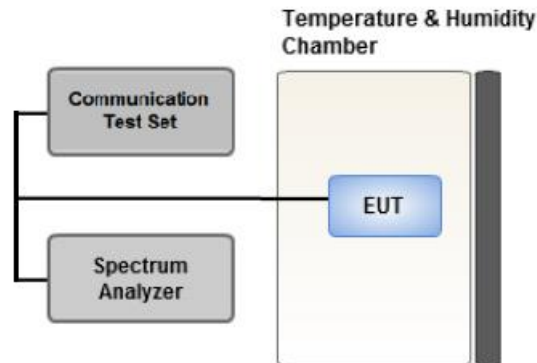
All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### **Test Settings**

1. RBW = 1 MHz
2. VBW  $\geq$  3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep  $\geq$  2 x Span / RBW

### 3.6 BAND EDGE



**Test setup**

#### **Test Overview**

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

#### **Test Settings**

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

#### **Test Notes**

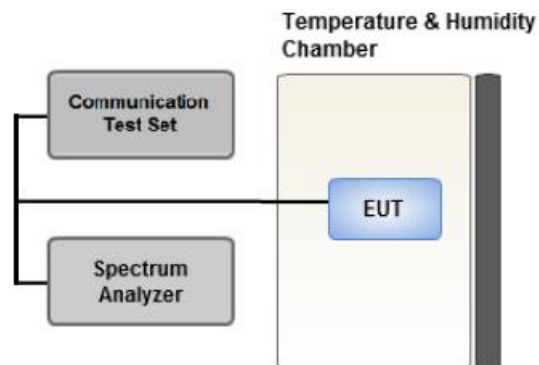
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

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.

### 3.7 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.

**3.8 WORST CASE(RADIATED TEST)**

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.  
 Mode : 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. There has no significant emission raised.
- WWAN + WLAN 5 GHz + BT (Worst case : Stand alone)
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 1.4 MHz)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data

[ Worst case ]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	QPSK, 16QAM, 64QAM	1	0	X
Radiated Spurious and Harmonic Emissions	QPSK	1	0	Z

**3.9 WORST CASE(CONDUCTED TEST)**

- All modes of operation were investigated and the worst case configuration results are reported.

[ Worst case ]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
<b>Occupied Bandwidth</b>	QPSK, 16QAM, 64QAM	1.4, 3, 5, 10, 15	Mid	Full RB	0
<b>Band Edge</b>	QPSK	1.4	Low	1	0
			High	1	5
		3	Low	1	0
			High	1	14
		5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	49
		15	Low	1	0
			High	1	74
		1.4, 3, 5, 10, 15	Low, High	Full RB	0
<b>Spurious and Harmonic Emissions at Antenna Terminal</b>	QPSK	1.4, 3, 5, 10, 15	Low, Mid, High	1	0

#### 4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
H.P.F	FBSR-02B(WHK1.2/15 G-10EF)	T&M SYSTEM	-	03/02/2022	Annual
H.P.F	FBSR-02B(WHK3.3/18 G-10EF)	T&M SYSTEM	-	03/02/2022	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	11275	04/07/2022	Annual
DC Power Supply	E3632A	Agilent	MY40010147	06/28/2022	Annual
Dipole Antenna	UHAP	Schwarzbeck	557	04/05/2023	Biennial
Dipole Antenna	UHAP	Schwarzbeck	558	04/05/2023	Biennial
Chamber	SU-642	ESPEC	93008124	03/15/2022	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	147	08/30/2022	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1298	09/15/2023	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	10/13/2022	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	05/18/2022	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	06/01/2022	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	100931	09/29/2022	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/18/2022	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/19/2022	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/03/2023	Biennial
Hybrid Antenna	VULB9168	Schwarzbeck	760	02/22/2023	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262116770	07/12/2022	Annual
Wideband Radio Communication Tester	MT8820C	Anritsu Corp.	6200863156	12/29/2022	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/05/2022	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	06/02/2022	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  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ( $\pm$ dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05 (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, §22.917(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§2.1046	N/A	<u>See Note1</u>
Frequency stability / variation of ambient temperature	§2.1055, §22.355	< 2.5 ppm	PASS

Note:

1. See SAR Report

### 6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§22.913(a)(5)	< 7 Watts max. ERP	PASS
Radiated Spurious and Harmonic Emissions	§2.1053, §22.917(a)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

## 7. SAMPLE CALCULATION

### 7.1 ERP Sample Calculation

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

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

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

### 7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

## 8. TEST DATA

### 8.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.7	LTE 26 (1.4 MHz)	QPSK	-31.70	31.35	-10.24	1.40	H	< 7.00	0.094	19.71
		16-QAM	-32.40	30.65	-10.24	1.40	H		0.080	19.01
		64-QAM	-33.51	29.54	-10.24	1.40	H		0.062	17.90
836.5		QPSK	-32.08	30.96	-10.19	1.41	H		0.086	19.36
		16-QAM	-32.69	30.35	-10.19	1.41	H		0.075	18.75
		64-QAM	-33.80	29.24	-10.19	1.41	H		0.058	17.64
848.3		QPSK	-32.39	30.77	-10.14	1.42	H		0.083	19.21
		16-QAM	-32.98	30.18	-10.14	1.42	H		0.073	18.62
		64-QAM	-34.11	29.05	-10.14	1.42	H		0.056	17.49

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
825.5	LTE 26 (3 MHz)	QPSK	-31.71	31.31	-10.24	1.40	H	< 7.00	0.093	19.67
		16-QAM	-32.37	30.65	-10.24	1.40	H		0.080	19.01
		64-QAM	-33.49	29.53	-10.24	1.40	H		0.062	17.89
836.5		QPSK	-32.01	31.03	-10.19	1.41	H		0.088	19.43
		16-QAM	-32.62	30.42	-10.19	1.41	H		0.076	18.82
		64-QAM	-33.77	29.27	-10.19	1.41	H		0.059	17.67
847.5		QPSK	-32.21	30.98	-10.15	1.42	H		0.088	19.42
		16-QAM	-32.87	30.32	-10.15	1.42	H		0.075	18.76
		64-QAM	-33.90	29.29	-10.15	1.42	H		0.059	17.73

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
826.5	LTE 26 (5 MHz)	QPSK	-32.34	30.66	-10.24	1.40	H	< 7.00	0.080	19.03
		16-QAM	-33.01	29.99	-10.24	1.40	H		0.069	18.36
		64-QAM	-34.13	28.87	-10.24	1.40	H		0.053	17.24
836.5		QPSK	-32.08	30.96	-10.19	1.41	H		0.086	19.36
		16-QAM	-32.72	30.32	-10.19	1.41	H		0.075	18.72
		64-QAM	-33.78	29.26	-10.19	1.41	H		0.058	17.66
846.5		QPSK	-32.09	31.09	-10.15	1.42	H		0.090	19.52
		16-QAM	-32.80	30.38	-10.15	1.42	H		0.076	18.81
		64-QAM	-33.82	29.36	-10.15	1.42	H		0.060	17.79

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
829.0	LTE 26 (10 MHz)	QPSK	-32.59	30.53	-10.22	1.40	H	< 7.00	0.078	18.91
		16-QAM	-33.23	29.89	-10.22	1.40	H		0.067	18.27
		64-QAM	-34.34	28.78	-10.22	1.40	H		0.052	17.16
836.5		QPSK	-32.19	30.85	-10.19	1.41	H		0.084	19.25
		16-QAM	-32.89	30.15	-10.19	1.41	H		0.072	18.55
		64-QAM	-33.96	29.08	-10.19	1.41	H		0.056	17.48
844.0		QPSK	-32.24	30.82	-10.14	1.41	H		0.085	19.27
		16-QAM	-32.90	30.16	-10.14	1.41	H		0.073	18.61
		64-QAM	-33.95	29.11	-10.14	1.41	H		0.057	17.56

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit		ERP	
								W	W	dBm	dBm
831.5	LTE B26 (15 MHz)	QPSK	-32.64	30.31	-10.21	1.40	H	< 7.00	0.074	18.70	
		16-QAM	-33.28	29.67	-10.21	1.40	H		0.064	18.06	
		64-QAM	-34.42	28.53	-10.21	1.40	H		0.049	16.92	
836.5		QPSK	-32.36	30.68	-10.19	1.41	H		0.081	19.08	
		16-QAM	-33.03	30.01	-10.19	1.41	H		0.069	18.41	
		64-QAM	-34.18	28.86	-10.19	1.41	H		0.053	17.26	
841.5		QPSK	-32.19	30.93	-10.17	1.41	H		0.086	19.35	
		16-QAM	-32.86	30.26	-10.17	1.41	H		0.074	18.68	
		64-QAM	-33.93	29.19	-10.17	1.41	H		0.058	17.61	

**8.2 RADIATED SPURIOUS EMISSIONS**

- ▣ MODE: LTE B26
- ▣ MODULATION SIGNAL: 1.4 MHz QPSK
- ▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit
26797 (824.7)	1 649.40	-53.11	9.70	-63.43	1.99	H	-55.72	-13.00
	2 474.10	-47.90	10.50	-52.61	2.48	H	-44.59	-13.00
	3 298.80	-57.68	12.10	-59.24	2.89	V	-50.03	-13.00
26915 (836.5)	1 673.00	-52.89	9.82	-63.40	2.01	V	-55.59	-13.00
	2 509.50	-55.41	10.70	-59.71	2.50	V	-51.51	-13.00
	3 346.00	-58.02	12.37	-59.68	2.92	H	-50.23	-13.00
27033 (848.3)	1 696.60	-53.16	9.97	-63.42	2.04	V	-55.48	-13.00
	2 544.90	-54.38	10.70	-58.29	2.52	V	-50.11	-13.00
	3 393.20	-58.87	12.56	-60.28	2.94	V	-50.66	-13.00



**8.3 OCCUPIED BANDWIDTH**

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
26	1.4 MHz	836.5	QPSK	6	0	1.0944
			16-QAM			1.0924
			64-QAM			1.0913
	3 MHz		QPSK	15		2.7111
			16-QAM			2.7084
			64-QAM			2.7025
	5 MHz		QPSK	25		4.5111
			16-QAM			4.5027
			64-QAM			4.5105
	10 MHz		QPSK	50		8.9907
			16-QAM			8.9967
			64-QAM			8.9901
	15 MHz		QPSK	75		13.478
			16-QAM			13.478
			64-QAM			13.456

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 33 ~ 47.

**8.4 CONDUCTED SPURIOUS EMISSIONS**

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
26	1.4	824.7	3.6920	27.976	-67.260	-39.284	-13.00
		836.5	3.7084	27.976	-67.104	-39.128	
		848.3	3.7064	27.976	-66.923	-38.947	
	3	825.5	3.7074	27.976	-66.943	-38.967	
		836.5	3.6845	27.976	-66.930	-38.954	
		847.5	3.6835	27.976	-67.099	-39.123	
	5	826.5	3.7139	27.976	-66.985	-39.009	
		836.5	3.6965	27.976	-67.097	-39.121	
		846.5	3.7144	27.976	-67.008	-39.032	
	10	829.0	3.6915	27.976	-67.187	-39.211	
		836.5	3.6900	27.976	-67.207	-39.231	
		844.0	3.6960	27.976	-67.131	-39.155	
	15	831.5	3.6830	27.976	-66.558	-38.582	
		836.5	3.7124	27.976	-66.647	-38.671	
		841.5	3.7114	27.976	-67.028	-39.052	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 78 ~ 92.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor (dB) = Cable Loss + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

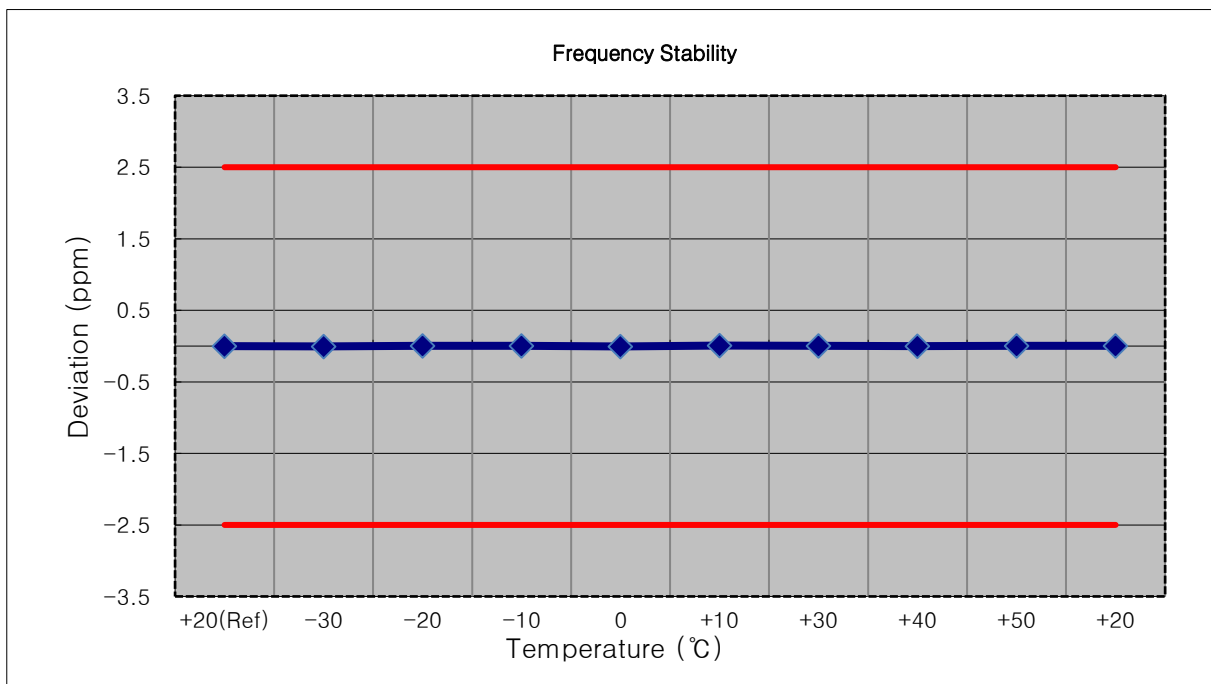
**8.5 BAND EDGE**

- Plots of the EUT's Band Edge are shown Page 48 ~ 77.

**8.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE**

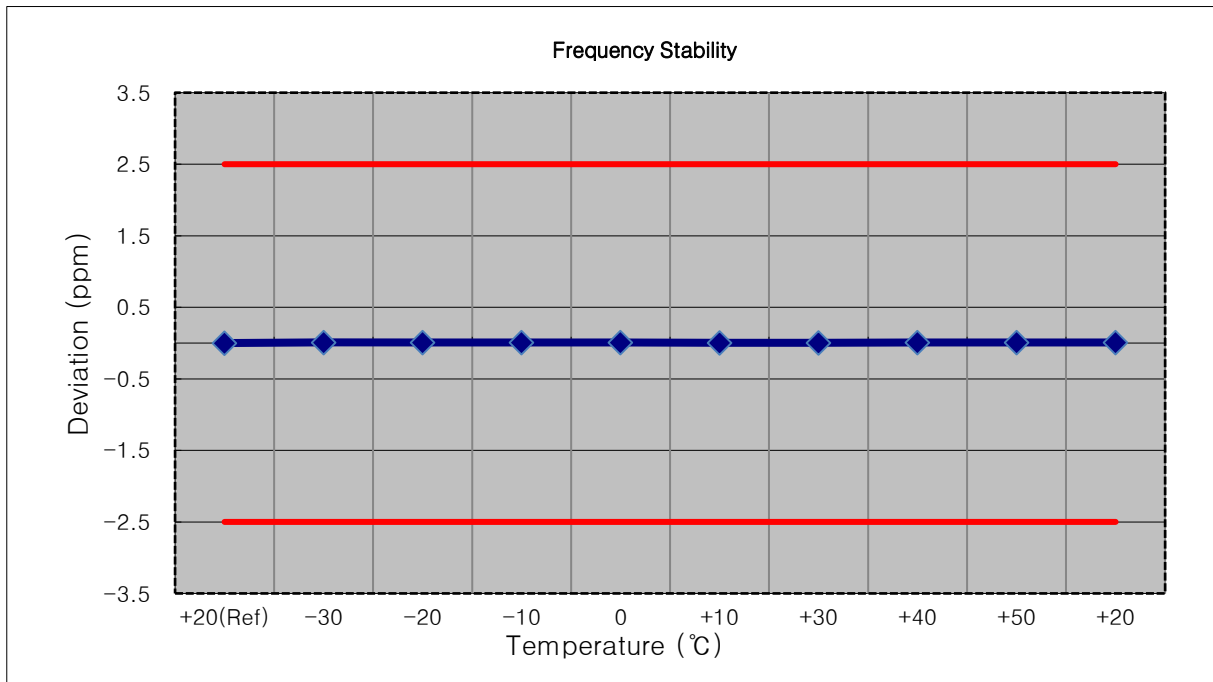
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 836,500,000 Hz
- ▣ CHANNEL: 26915 (1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.860 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	836 500 002	0.0	0.000 000	0.000
100%		-30	836 499 999	-3.8	0.000 000	-0.005
100%		-20	836 500 006	3.4	0.000 000	0.004
100%		-10	836 500 006	3.3	0.000 000	0.004
100%		0	836 499 999	-3.1	0.000 000	-0.004
100%		+10	836 500 008	6.0	0.000 001	0.007
100%		+30	836 500 004	1.5	0.000 000	0.002
100%		+40	836 500 000	-1.9	0.000 000	-0.002
100%		+50	836 500 006	3.5	0.000 000	0.004
Batt. Endpoint		3.650	+20	836 500 006	4.0	0.000 000



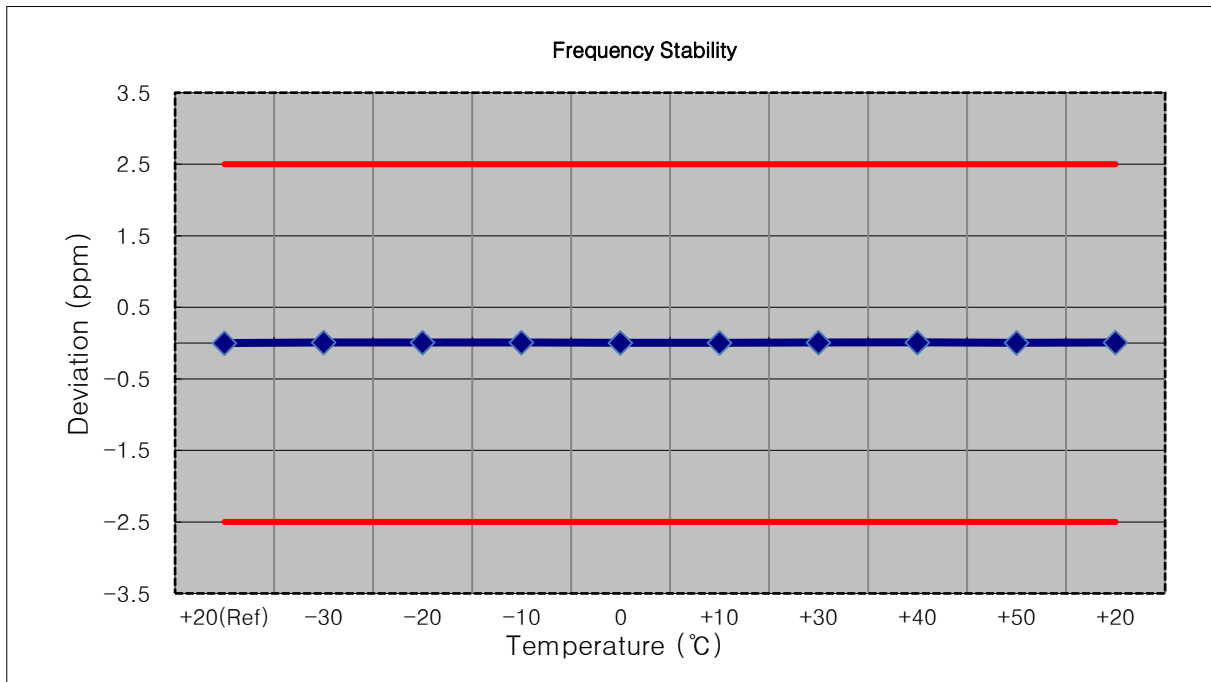
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 836,500,000 Hz
- ▣ CHANNEL: 26915 (3 MHz)
- ▣ REFERENCE VOLTAGE: 3.860 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	836 500 006	0.0	0.000 000	0.000
100%		-30	836 500 014	8.2	0.000 001	0.010
100%		-20	836 500 013	7.4	0.000 001	0.009
100%		-10	836 500 014	7.7	0.000 001	0.009
100%		0	836 500 013	6.9	0.000 001	0.008
100%		+10	836 500 011	4.8	0.000 001	0.006
100%		+30	836 500 011	4.8	0.000 001	0.006
100%		+40	836 500 012	5.6	0.000 001	0.007
100%		+50	836 500 012	6.3	0.000 001	0.008
Batt. Endpoint		3.650	+20	836 500 013	6.9	0.000 001



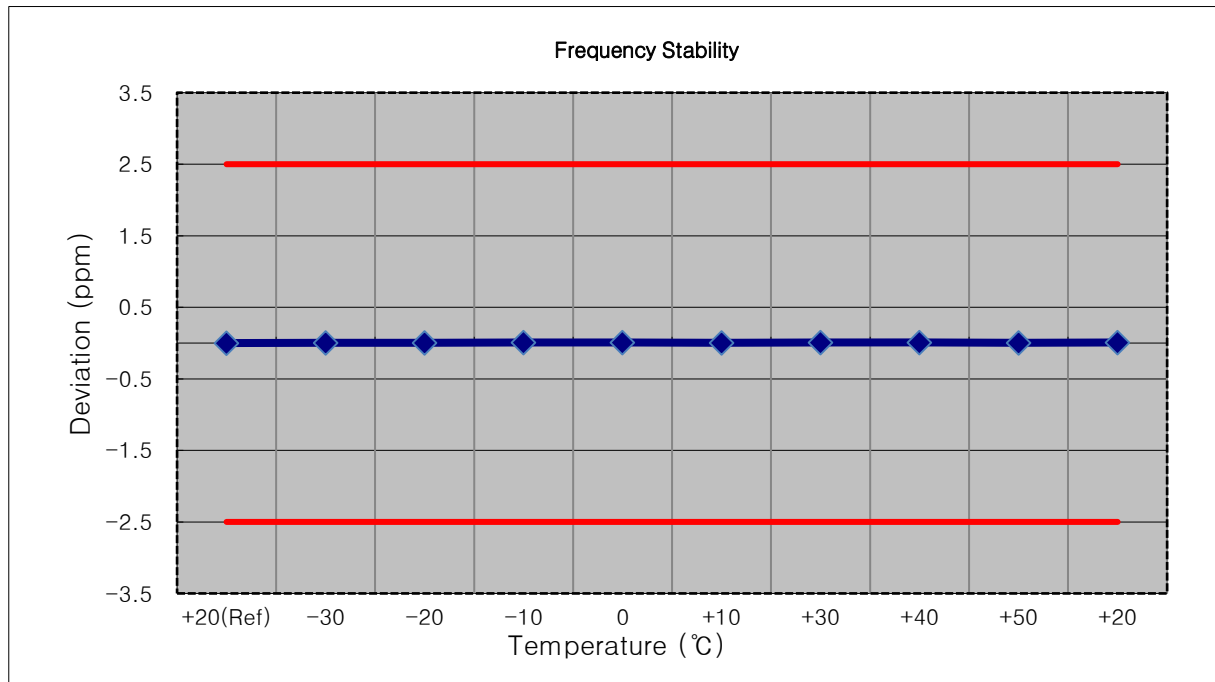
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 836,500,000 Hz
- ▣ CHANNEL: 26915 (5 MHz)
- ▣ REFERENCE VOLTAGE: 3.860 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	836 500 004	0.0	0.000 000	0.000
100%		-30	836 500 011	6.3	0.000 001	0.008
100%		-20	836 500 010	5.8	0.000 001	0.007
100%		-10	836 500 010	5.3	0.000 001	0.006
100%		0	836 500 008	3.9	0.000 000	0.005
100%		+10	836 500 009	4.9	0.000 001	0.006
100%		+30	836 500 011	6.4	0.000 001	0.008
100%		+40	836 500 013	8.5	0.000 001	0.010
100%		+50	836 500 009	4.9	0.000 001	0.006
Batt. Endpoint		3.650	+20	836 500 011	7.1	0.000 001



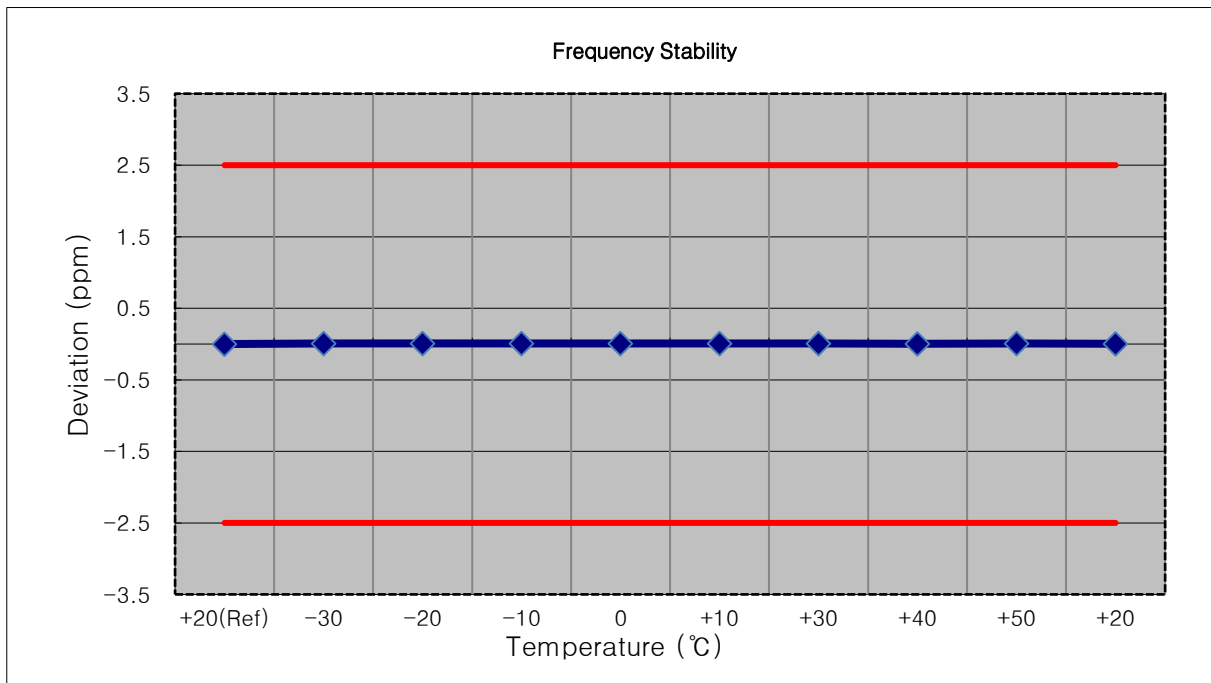
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 836,500,000 Hz
- ▣ CHANNEL: 26915 (10 MHz)
- ▣ REFERENCE VOLTAGE: 3.860 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	836 500 007	0.0	0.000 000	0.000
100%		-30	836 500 011	4.9	0.000 001	0.006
100%		-20	836 500 011	4.9	0.000 001	0.006
100%		-10	836 500 013	6.0	0.000 001	0.007
100%		0	836 500 012	5.3	0.000 001	0.006
100%		+10	836 500 011	4.0	0.000 000	0.005
100%		+30	836 500 013	6.5	0.000 001	0.008
100%		+40	836 500 014	7.4	0.000 001	0.009
100%		+50	836 500 010	3.9	0.000 000	0.005
Batt. Endpoint		3.650	+20	836 500 012	5.1	0.000 001



- ▣ MODE: LTE B26
- ▣ OPERATING FREQUENCY: 836,500,000 Hz
- ▣ CHANNEL: 26915 (15 MHz)
- ▣ REFERENCE VOLTAGE: 3.860 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

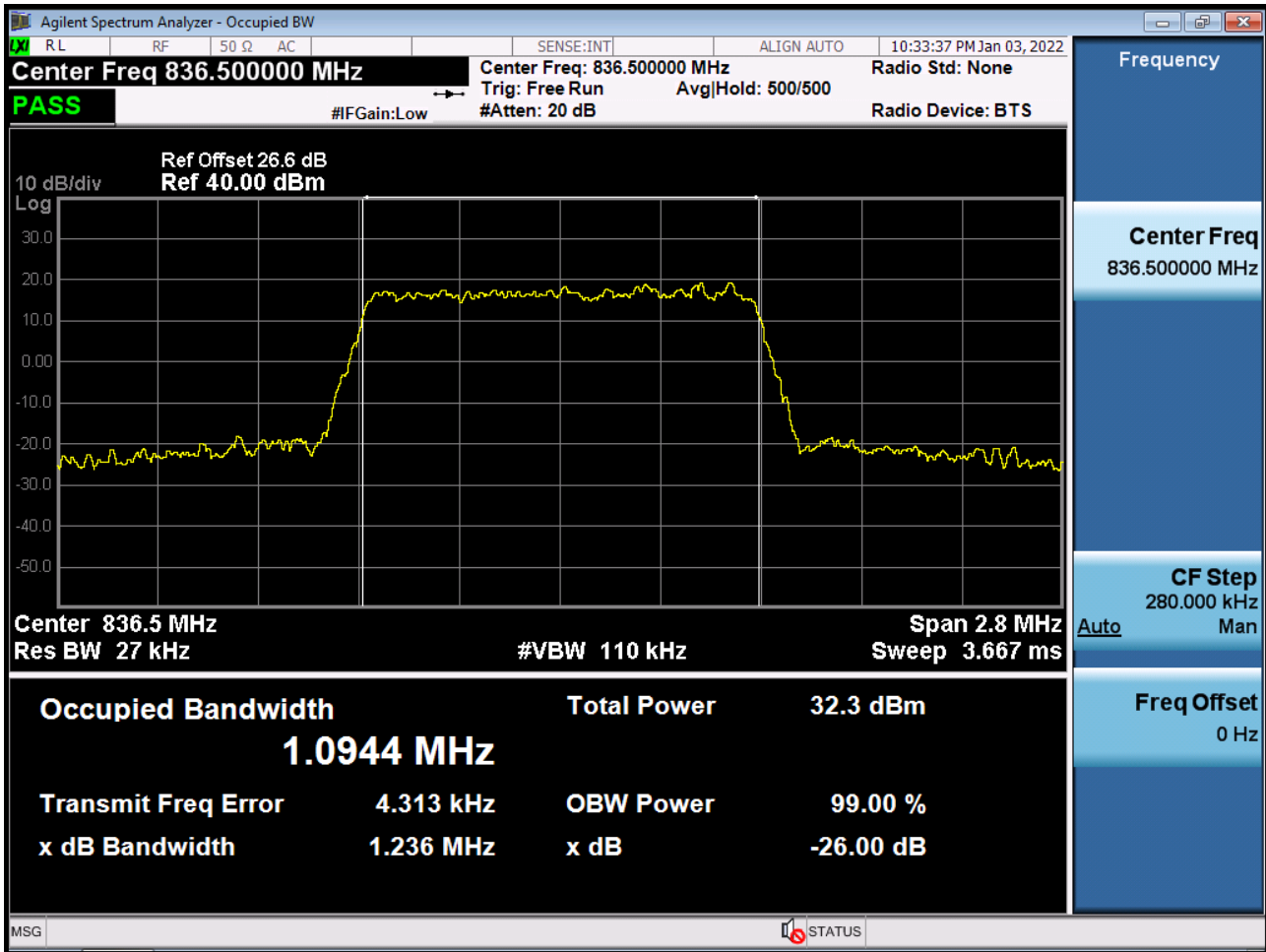
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	836 500 004	0.0	0.000 000	0.000
100%		-30	836 500 012	5.1	0.000 001	0.006
100%		-20	836 500 014	7.6	0.000 001	0.009
100%		-10	836 500 012	5.9	0.000 001	0.007
100%		0	836 500 013	6.8	0.000 001	0.008
100%		+10	836 500 013	6.7	0.000 001	0.008
100%		+30	836 500 014	7.4	0.000 001	0.009
100%		+40	836 500 011	4.8	0.000 001	0.006
100%		+50	836 500 012	5.8	0.000 001	0.007
Batt. Endpoint		3.650	+20	836 500 010	3.9	0.000 000



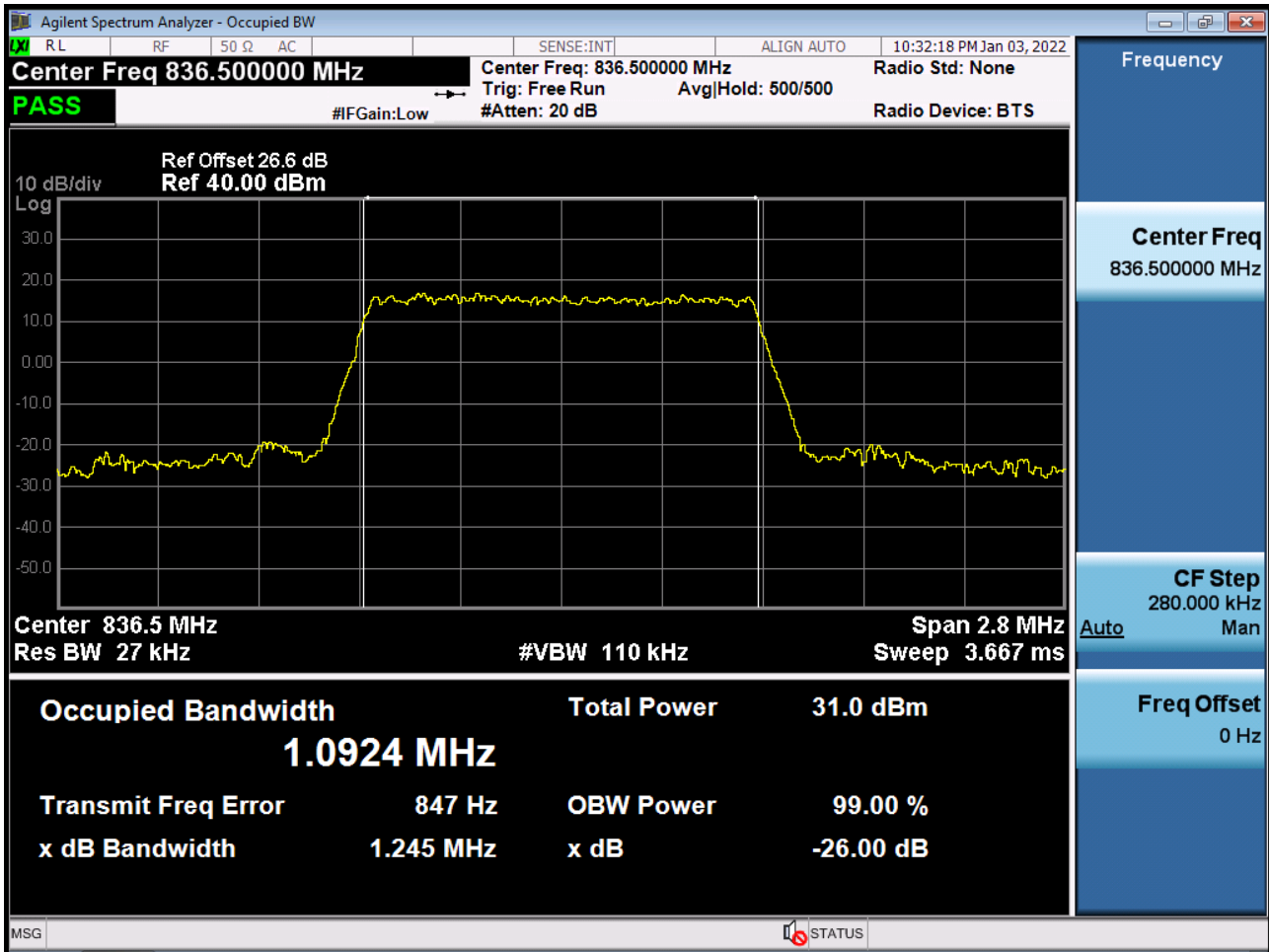
## 9. TEST PLOTS



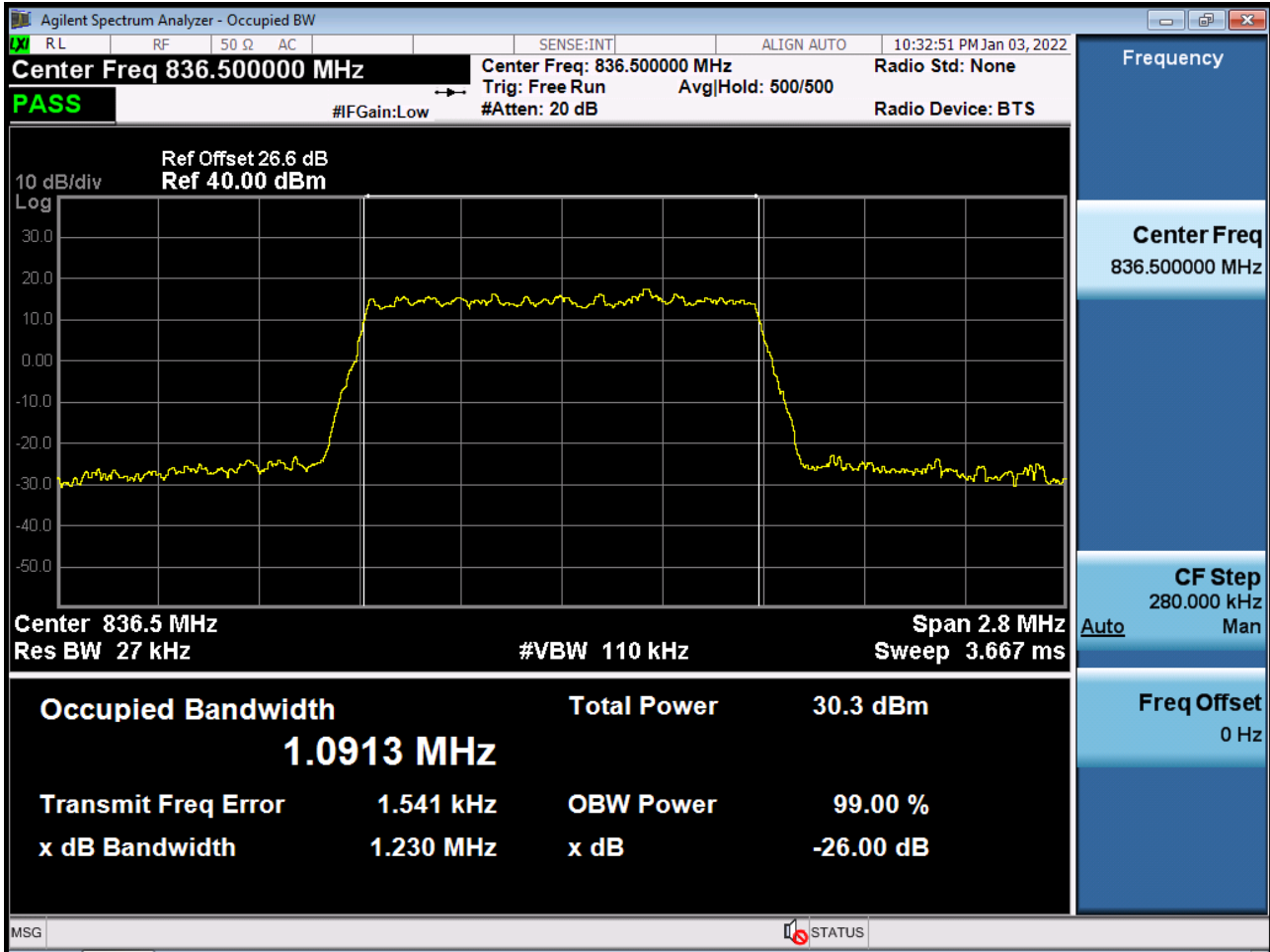
BAND26. Occupied Bandwidth Plot (1.4 M BW Ch.26915 QPSK\_RB6\_0)



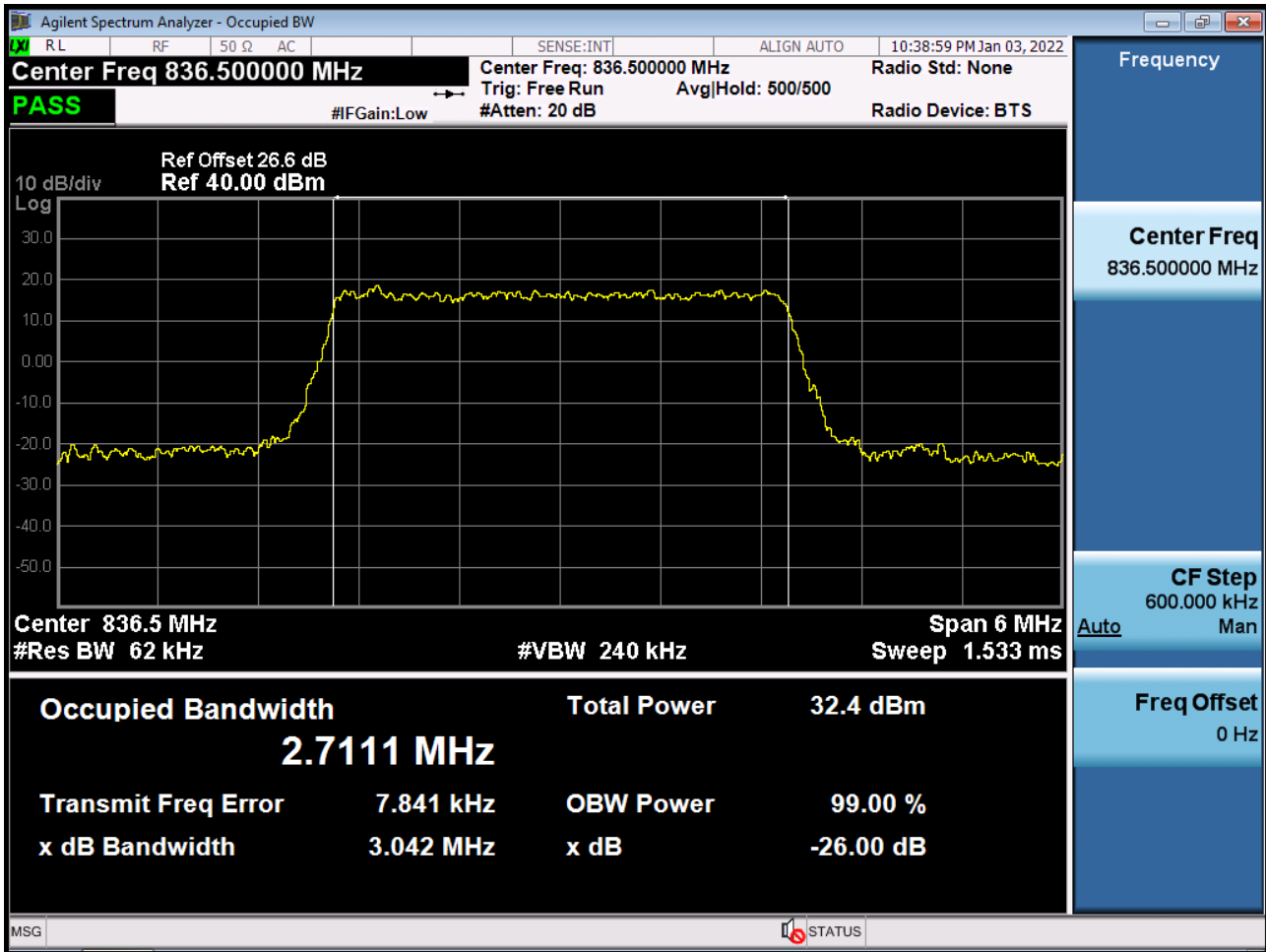
BAND26. Occupied Bandwidth Plot (1.4 M BW Ch.26915 16QAM\_RB6\_0)



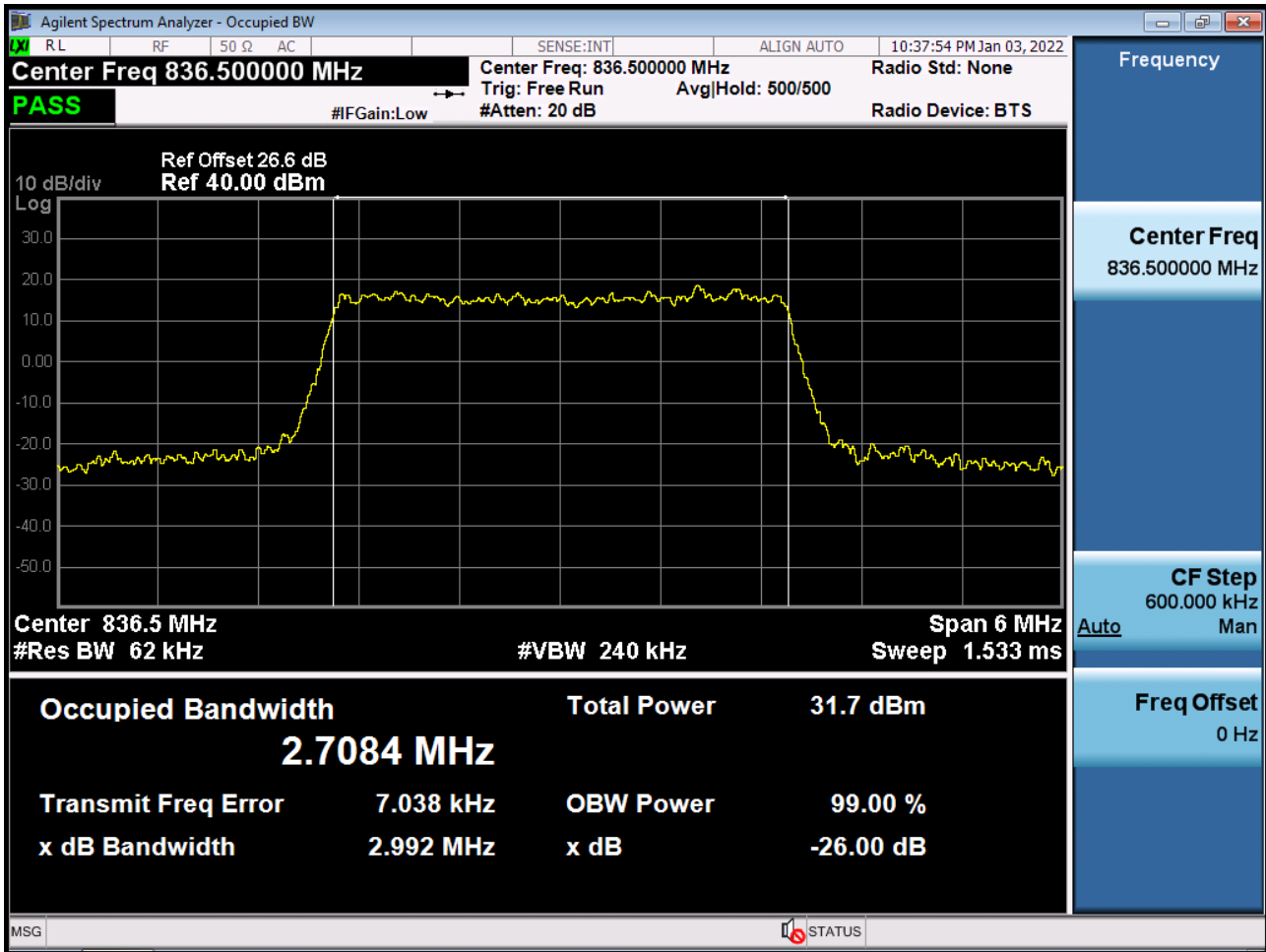
BAND26. Occupied Bandwidth Plot (1.4 M BW Ch.26915 64QAM\_RB6\_0)



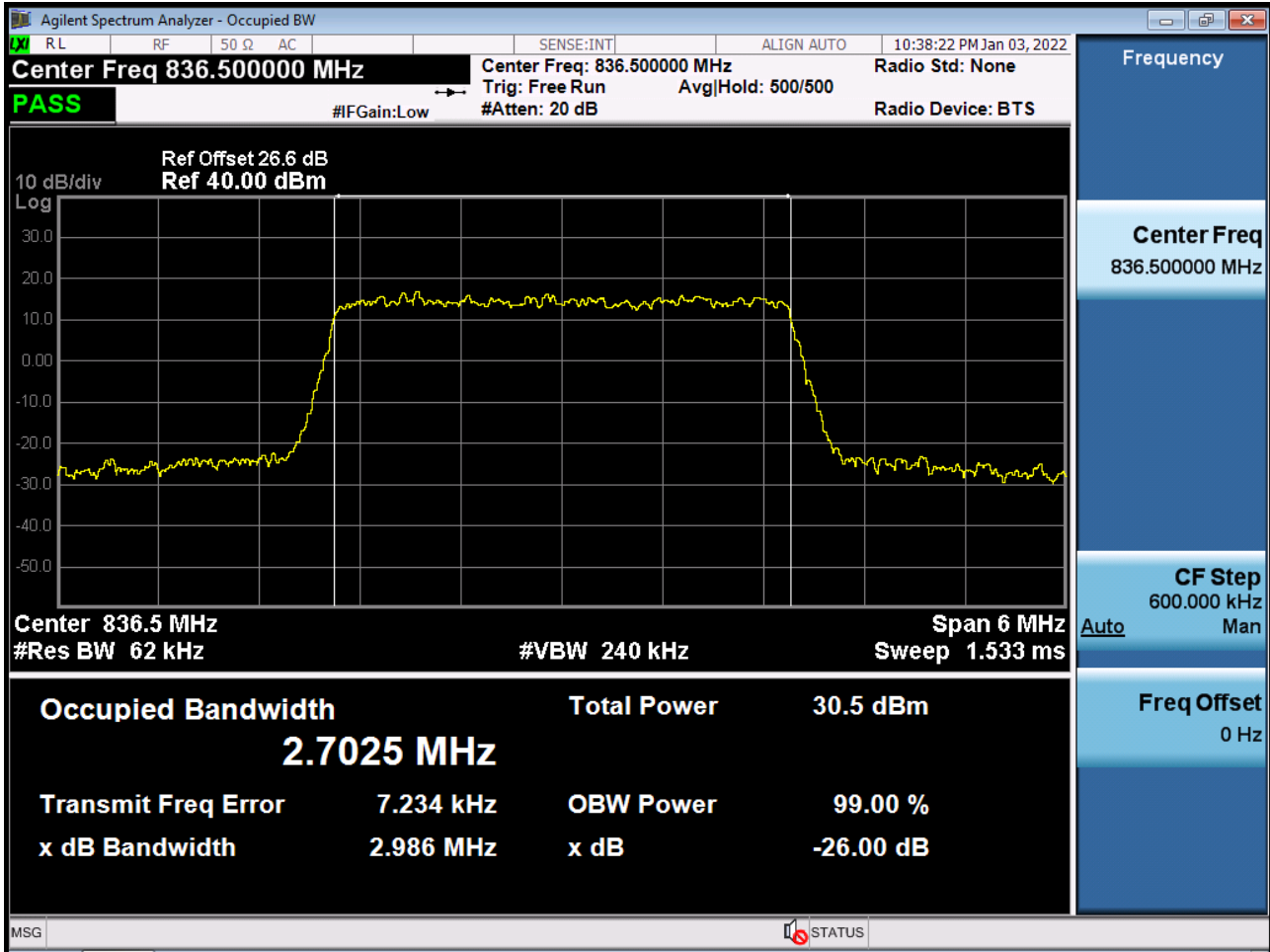
BAND26. Occupied Bandwidth Plot (3 M BW Ch.26915 QPSK\_RB15\_0)



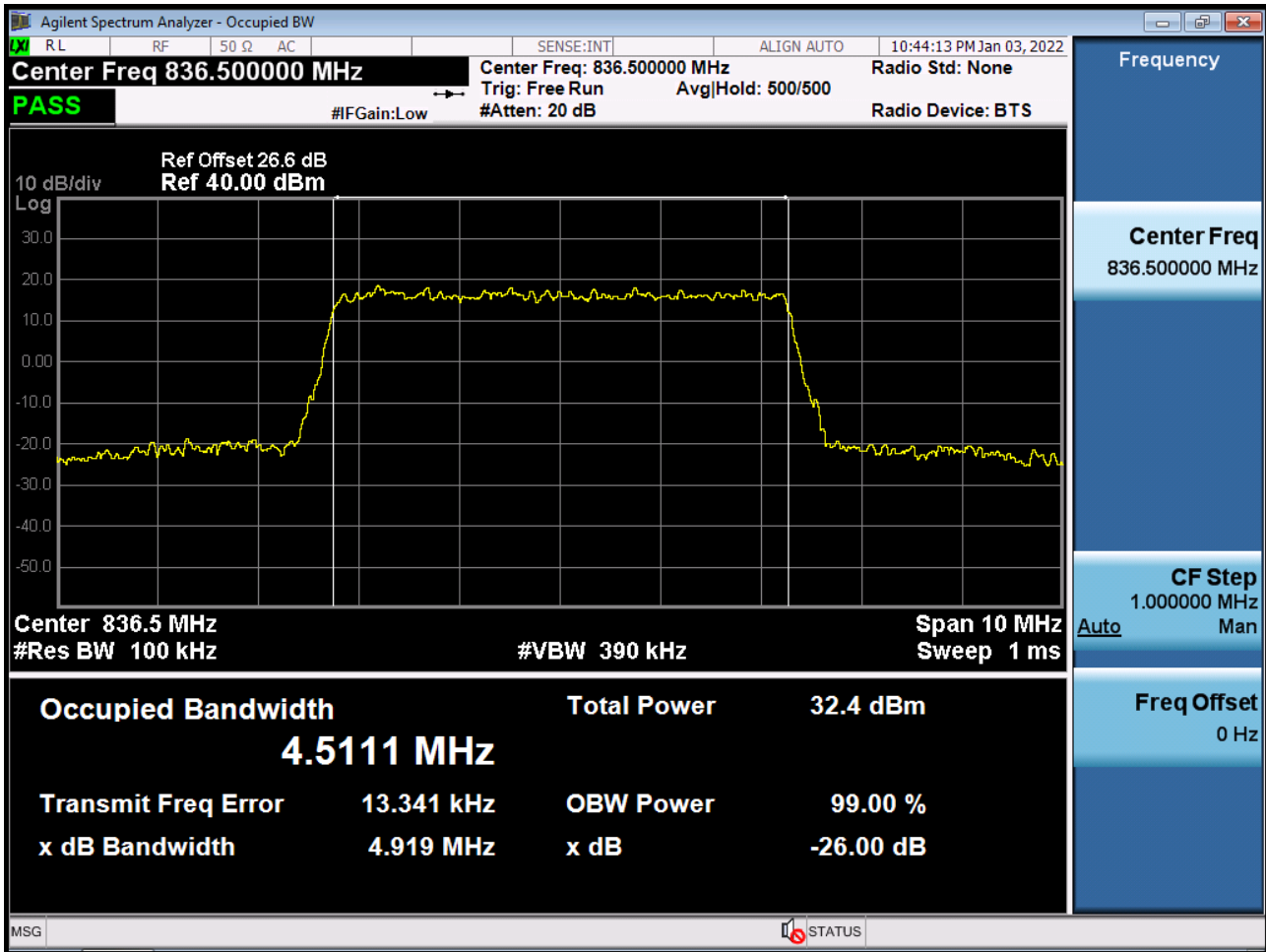
BAND26. Occupied Bandwidth Plot (3 M BW Ch.26915 16QAM\_RB15\_0)



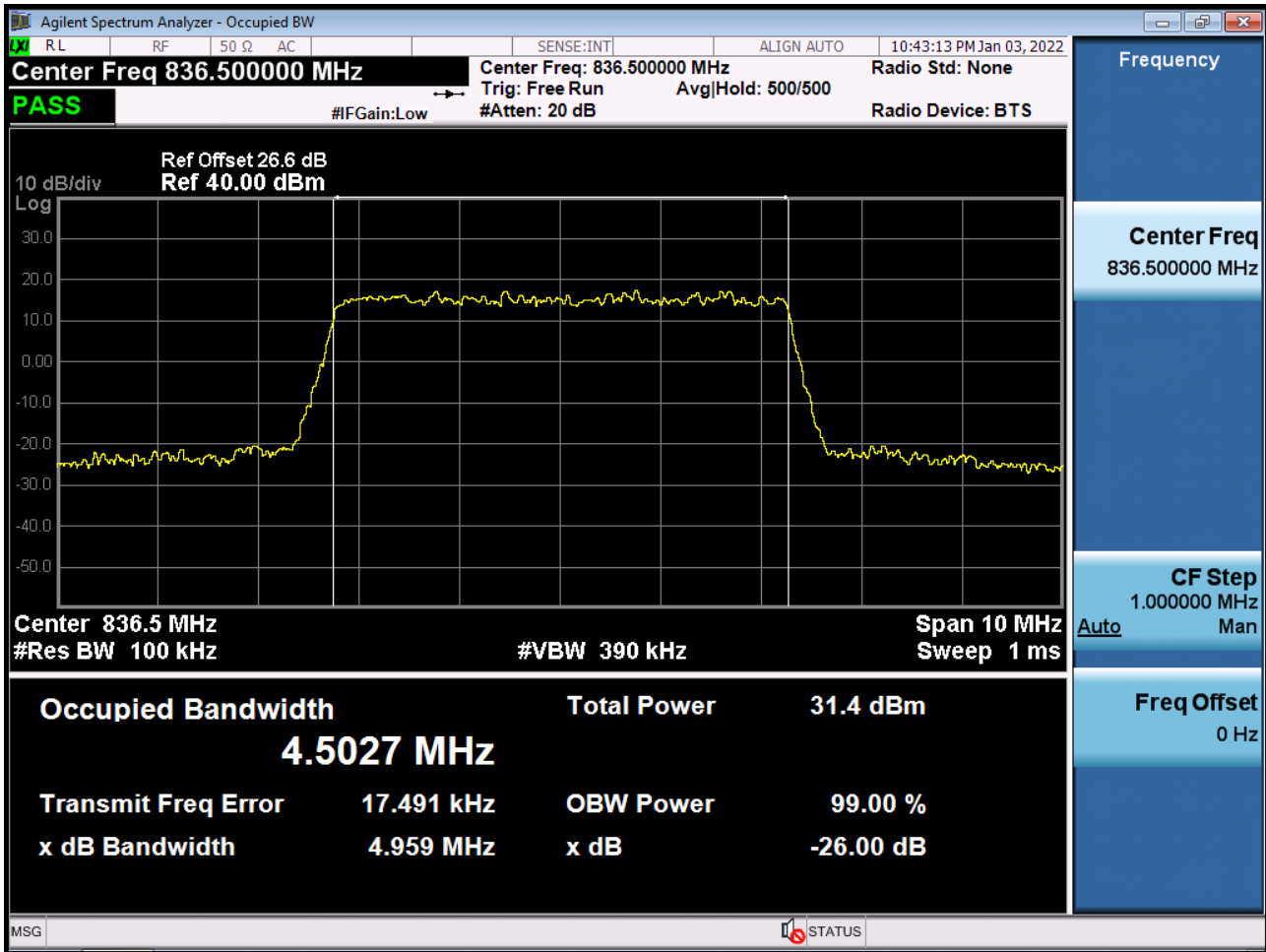
BAND26. Occupied Bandwidth Plot (3 M BW Ch.26915 64QAM\_RB15\_0)



BAND26. Occupied Bandwidth Plot (5 M BW Ch.26915 QPSK\_RB25\_0)

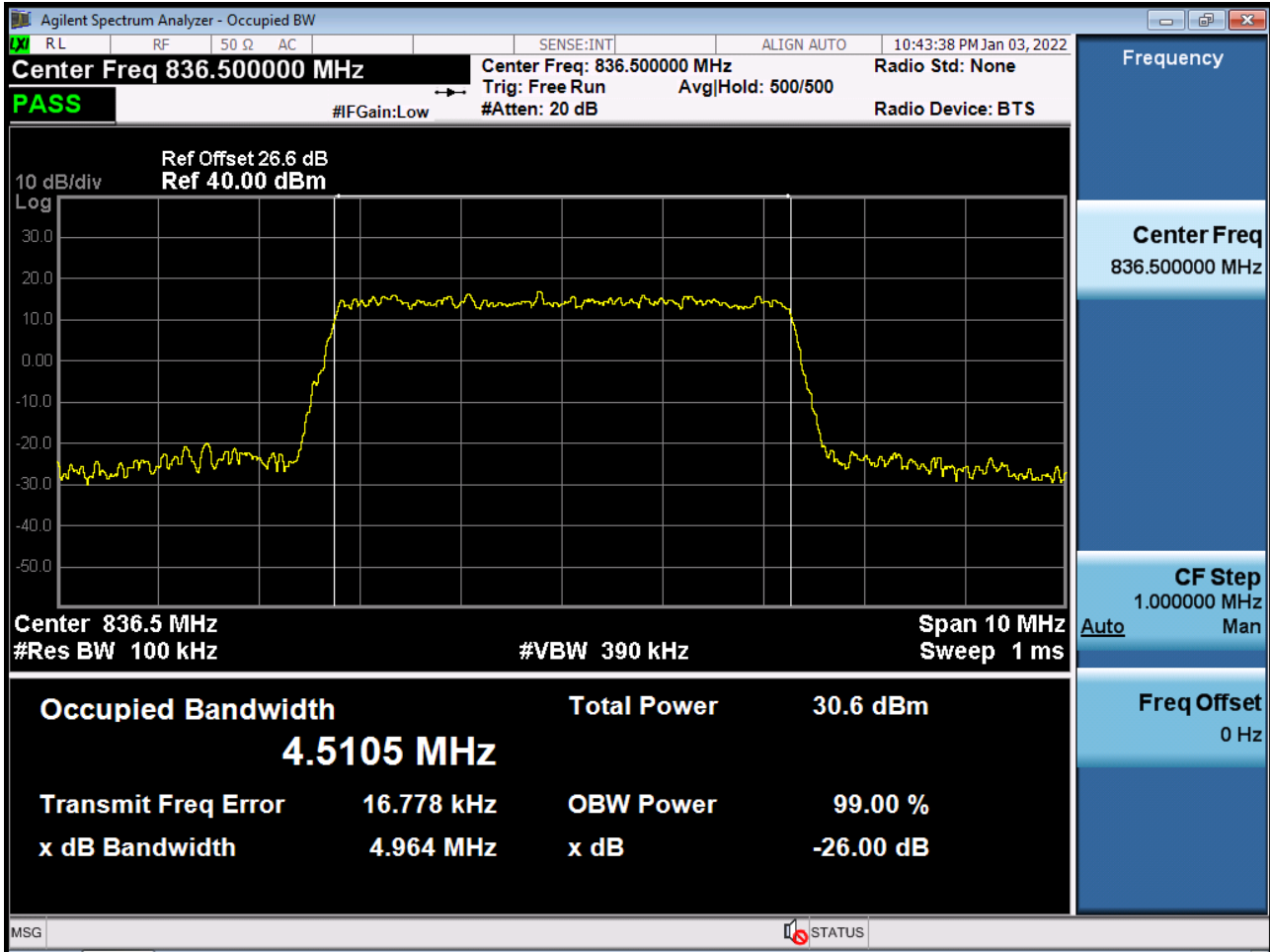


BAND26. Occupied Bandwidth Plot (5 M BW Ch.26915 16QAM\_RB25\_0)

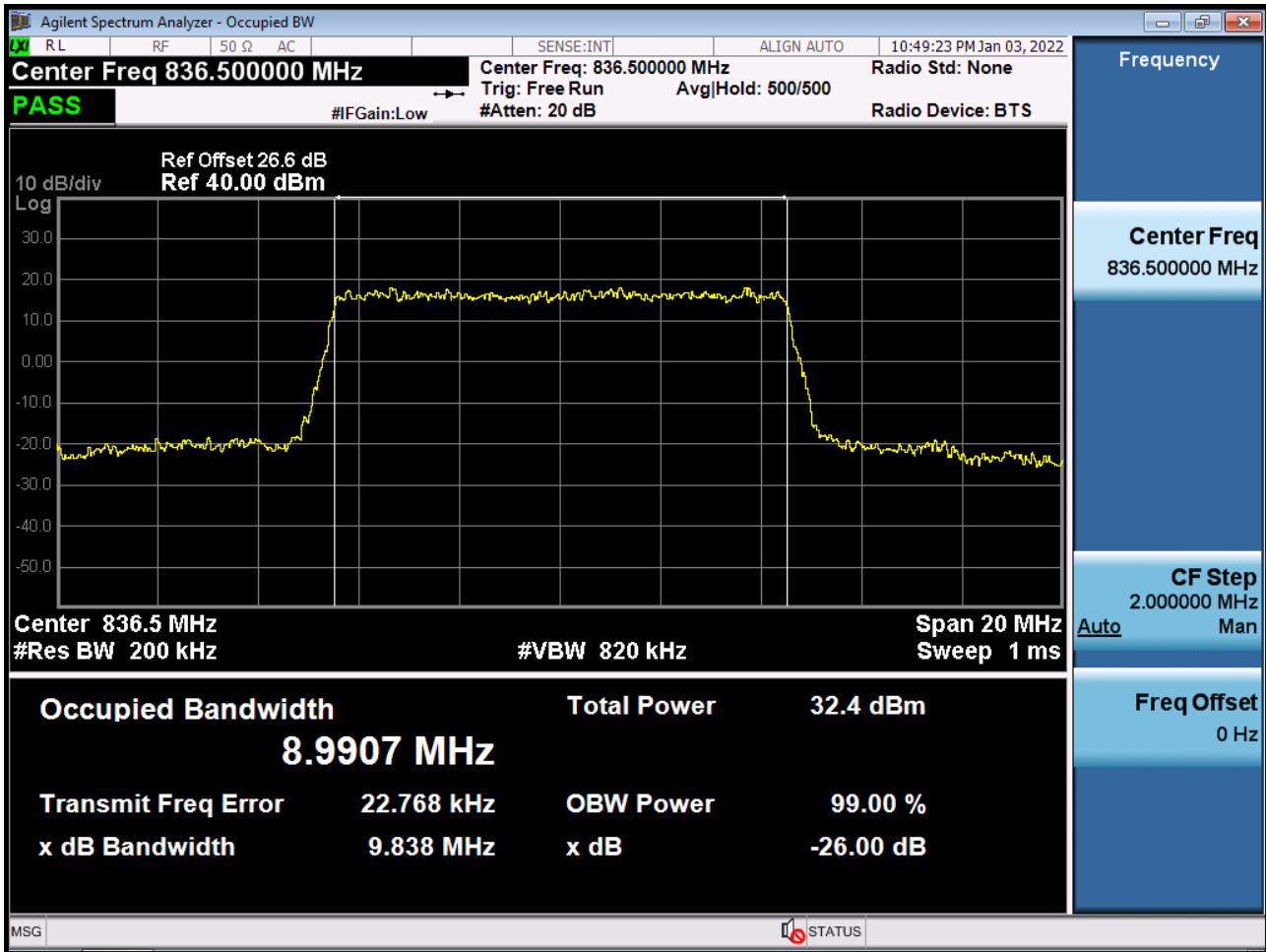




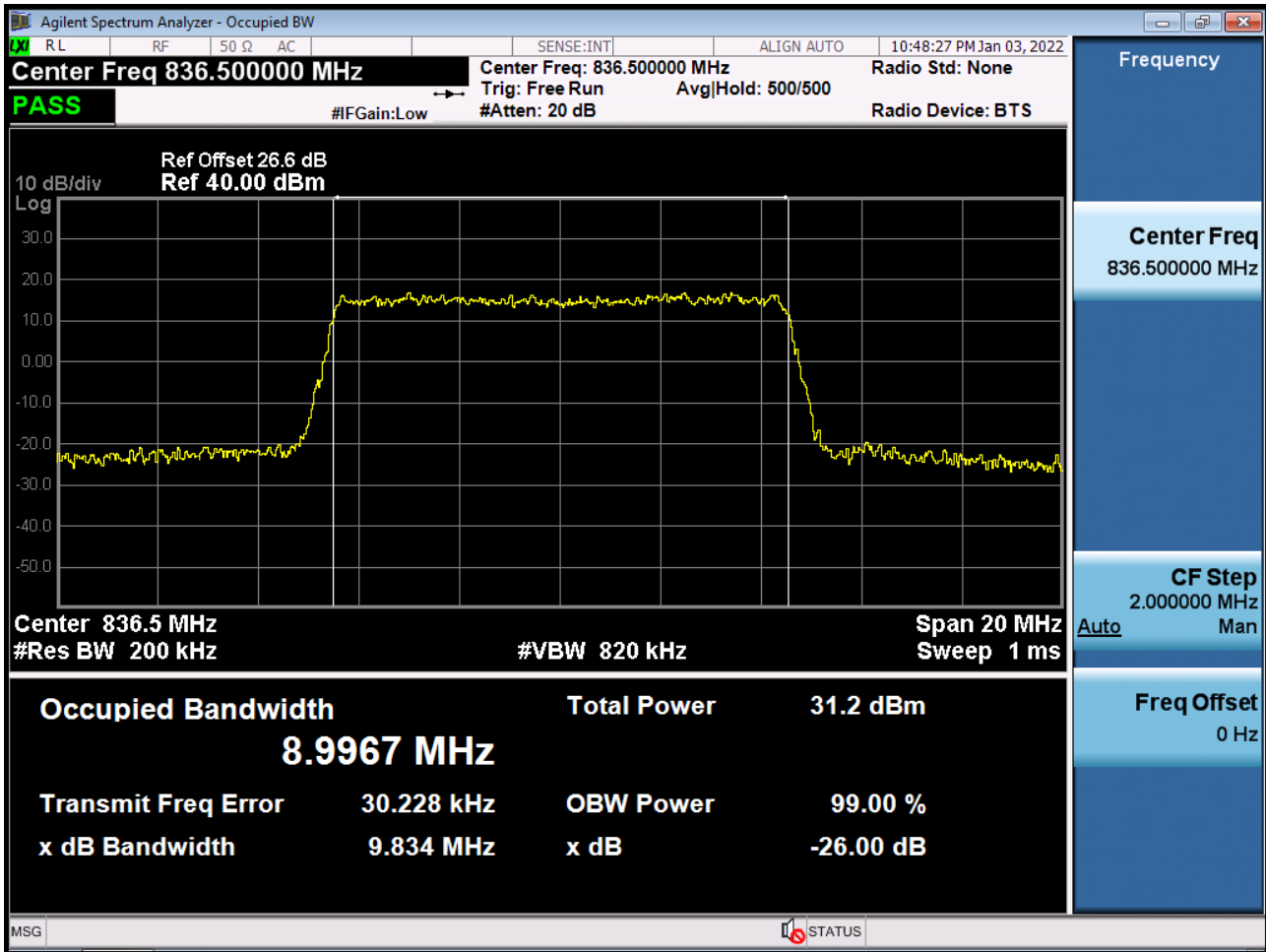
BAND26. Occupied Bandwidth Plot (5 M BW Ch.26915 64QAM\_RB25\_0)



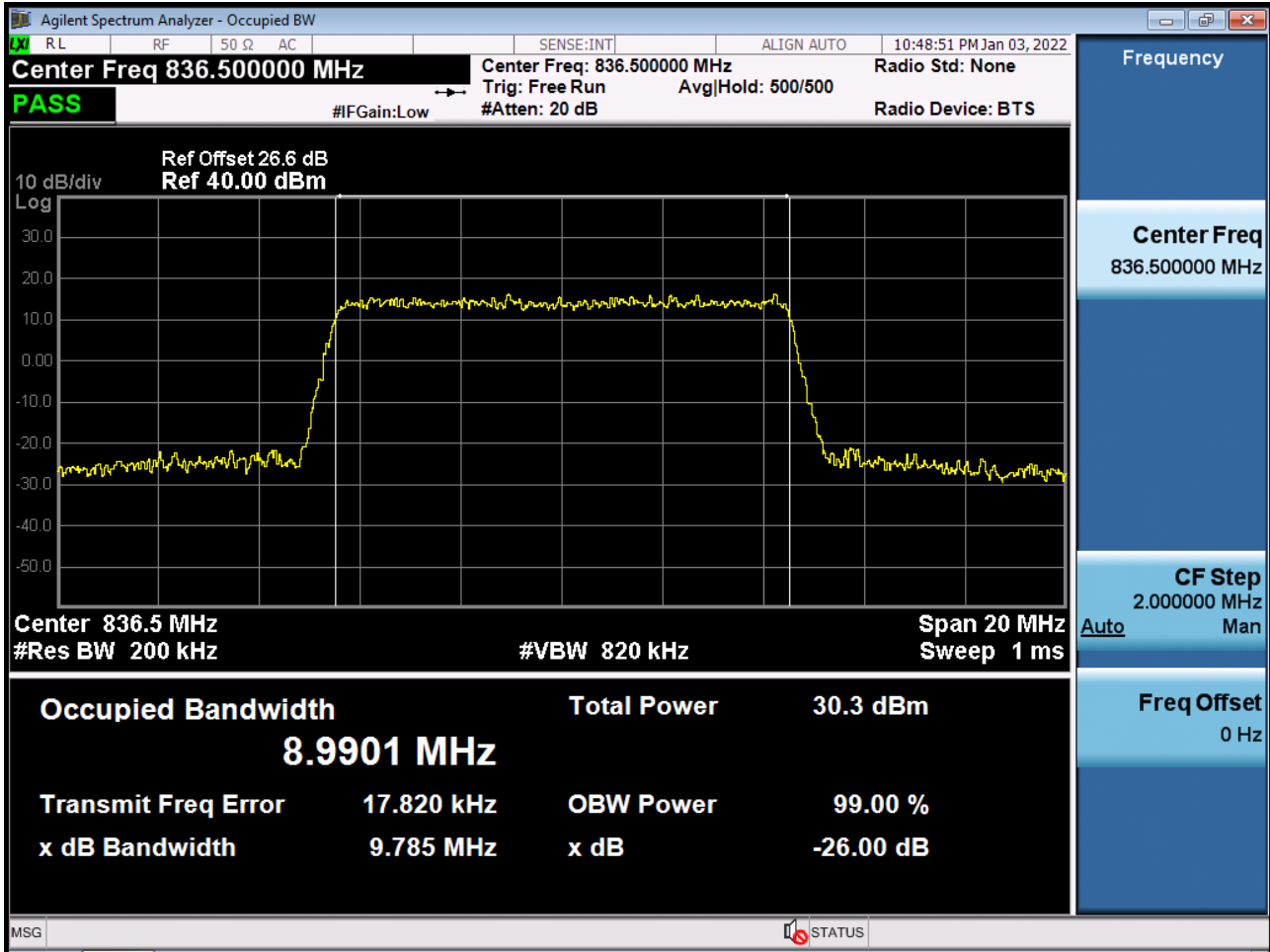
BAND26. Occupied Bandwidth Plot (10 M BW Ch.26915 QPSK\_RB50\_0)



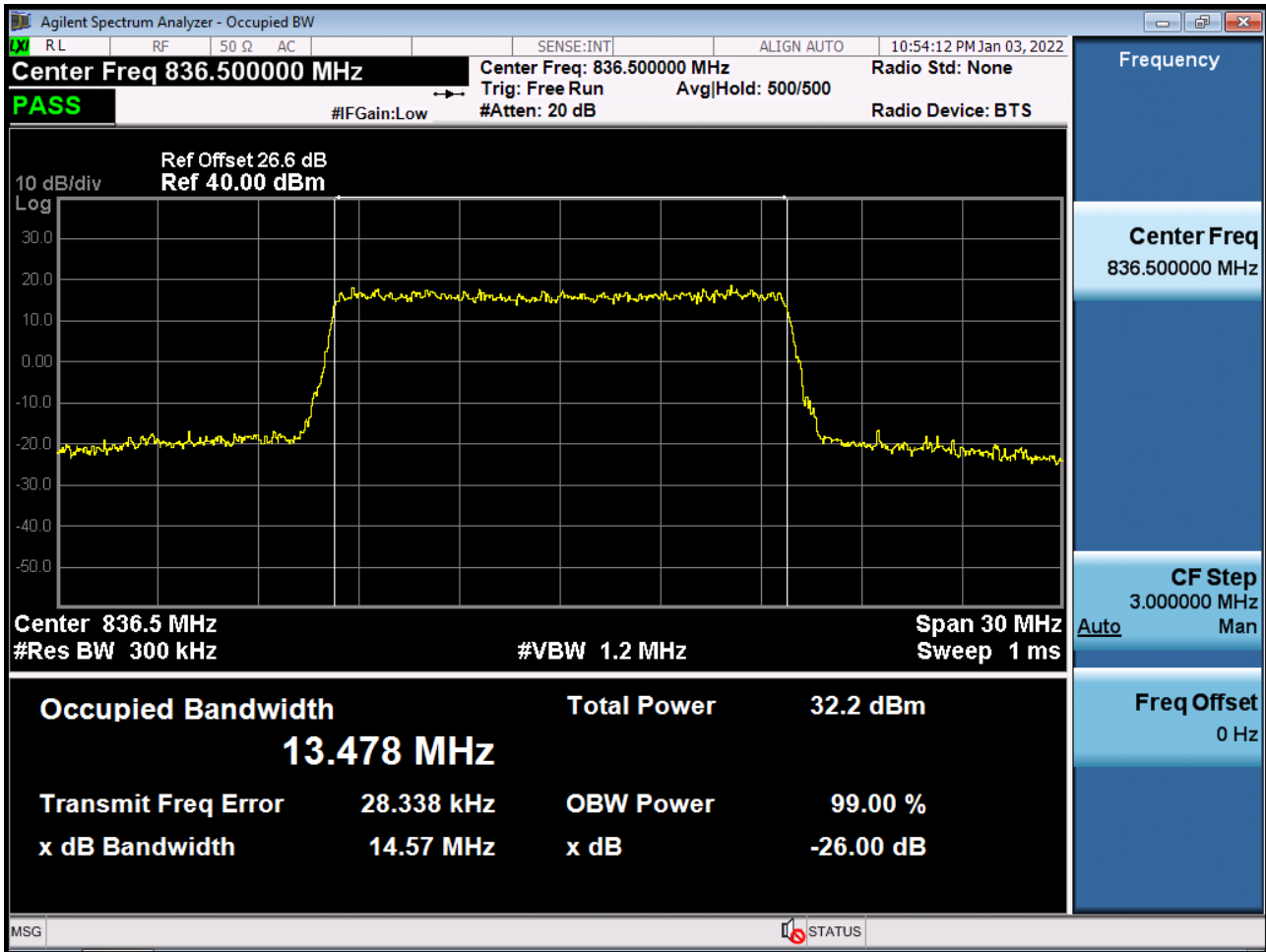
BAND26. Occupied Bandwidth Plot (10 M BW Ch.26915 16QAM\_RB50\_0)



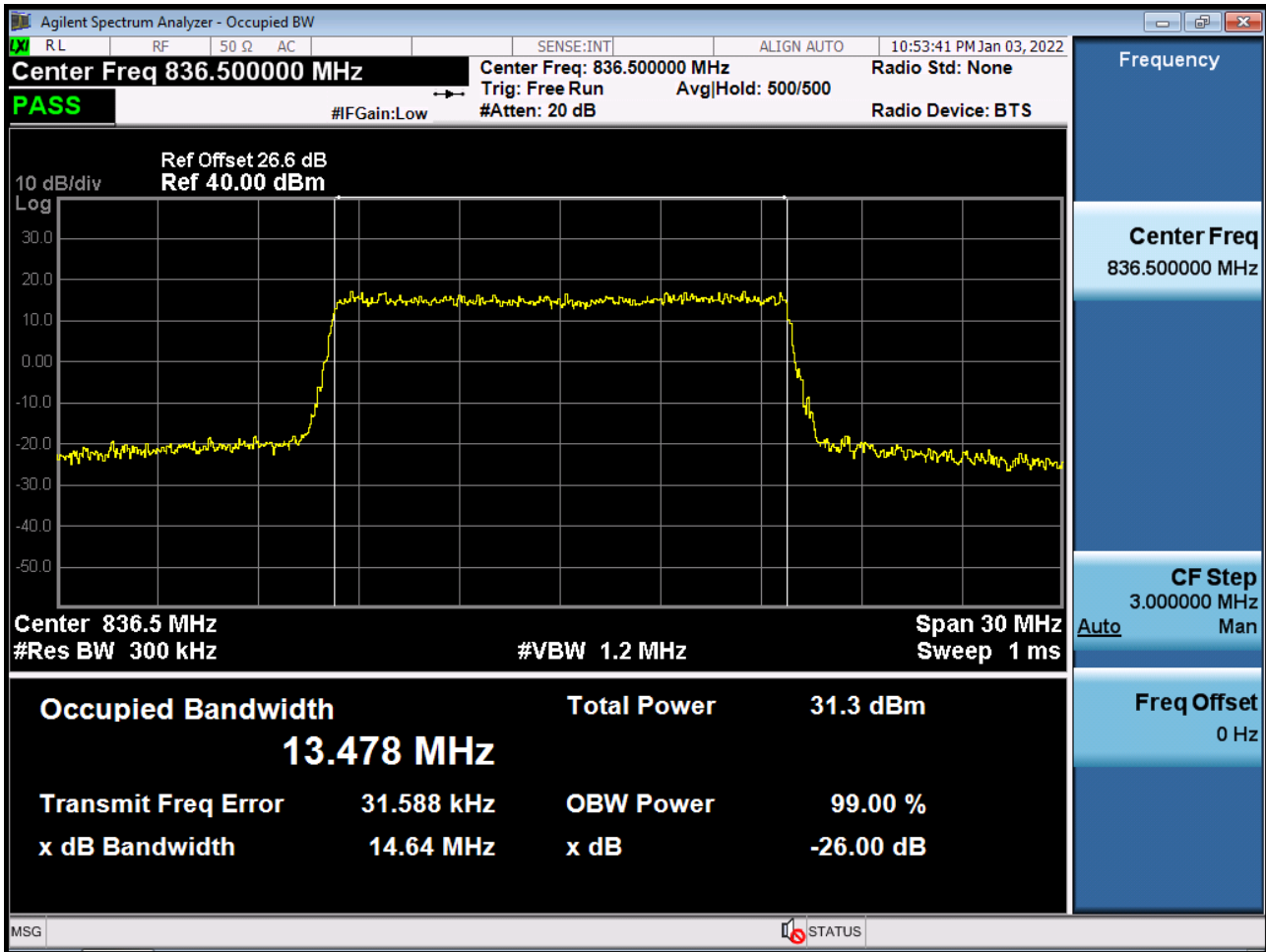
BAND26. Occupied Bandwidth Plot (10 M BW Ch.26915 64QAM\_RB50\_0)



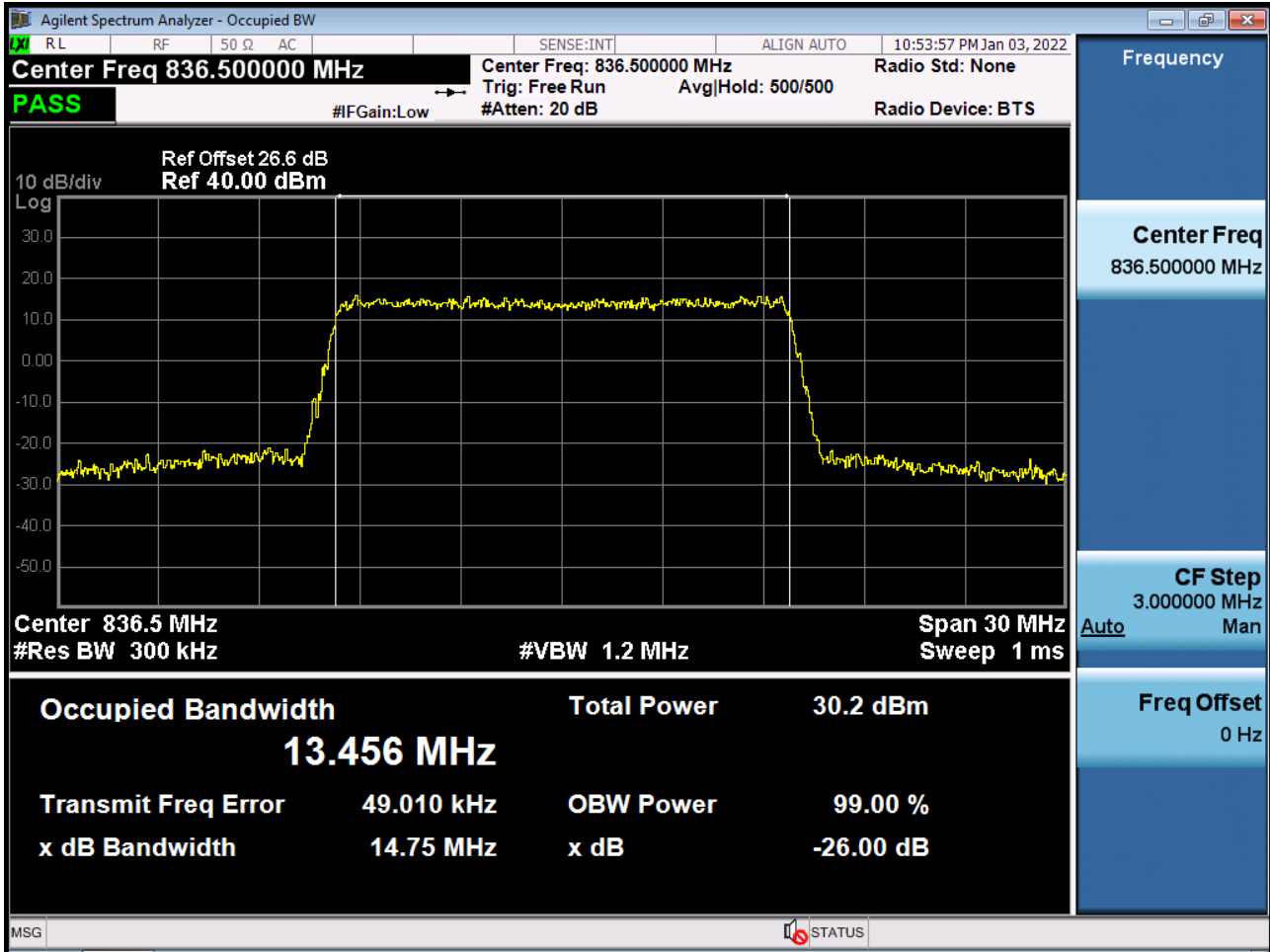
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26915 QPSK RB 75\_0)



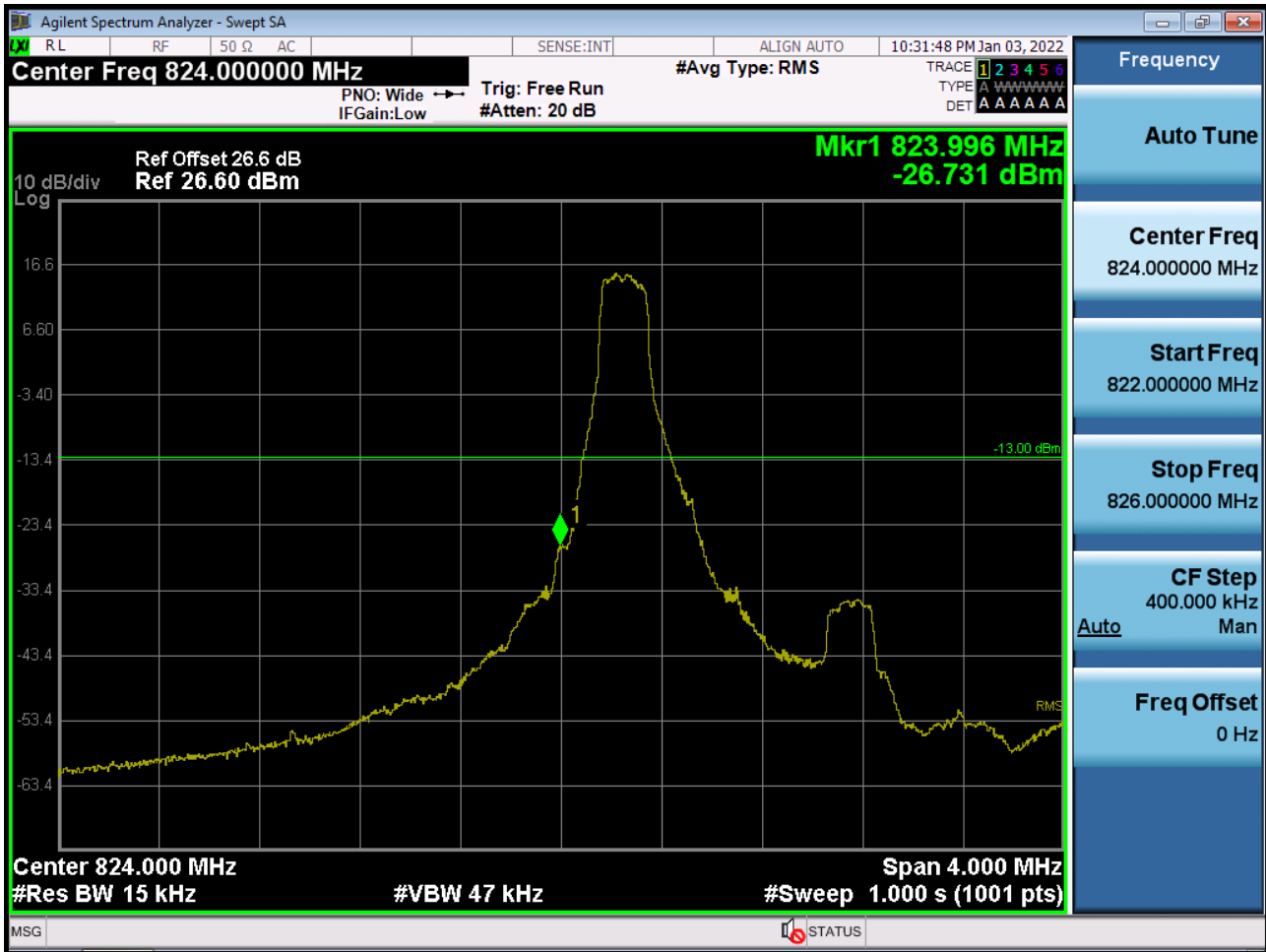
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26915 16QAM RB 75\_0)



BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26915 64QAM RB 75\_0)



BAND26. Lower Band Edge Plot (1.4 M BW Ch.26797 QPSK\_RB1\_Offset 0)





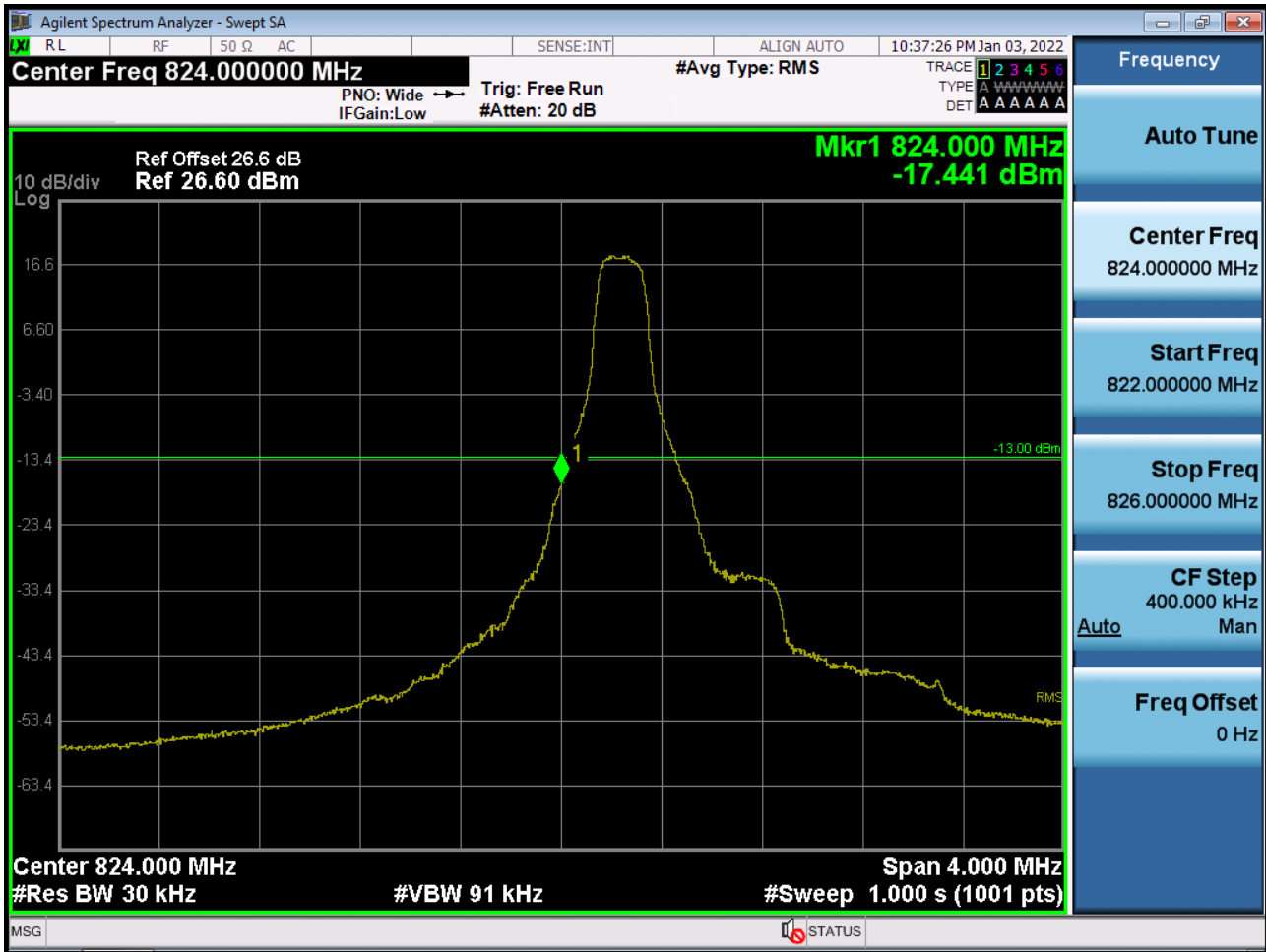
BAND26. Lower Band Edge Plot (1.4 M BW Ch.26797 QPSK\_RB6\_Offset 0)



BAND26. Lower Extended Band Edge Plot (1.4 M BW Ch.26797 QPSK\_RB6\_0)



BAND26. Lower Band Edge Plot (3 M BW Ch.26805 QPSK\_RB1\_Offset 0)



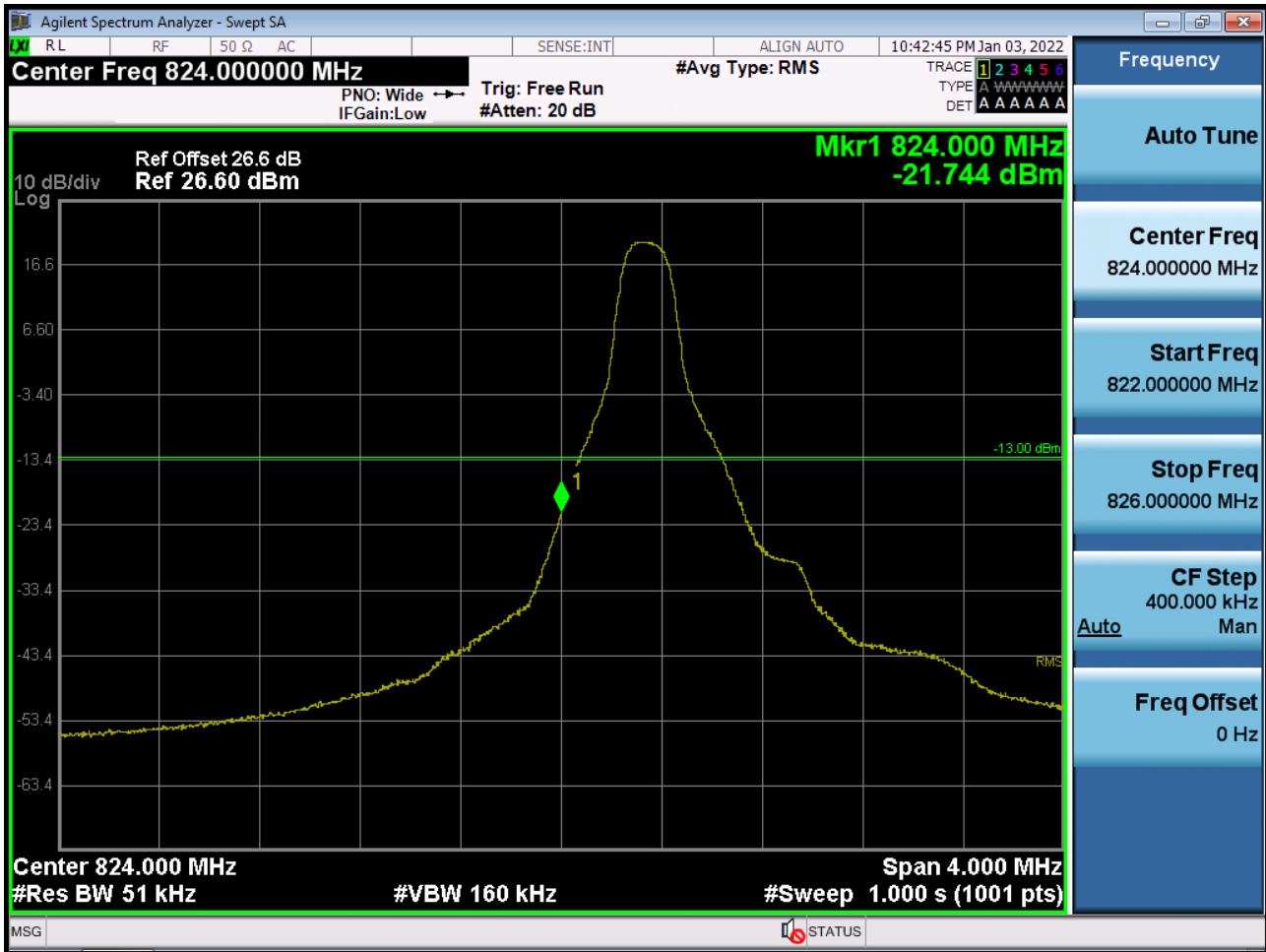
BAND26. Lower Band Edge Plot (3 M BW Ch.26805 QPSK\_RB15\_Offset 0)



BAND26. Lower Extended Band Edge Plot (3 M BW Ch.26805 QPSK\_RB15\_0)



BAND26. Lower Band Edge Plot (5 M BW Ch.26815 QPSK\_RB1\_Offset 0)



BAND26. Lower Band Edge Plot (5 M BW Ch.26815 QPSK\_RB25\_Offset 0)



BAND26. Lower Extended Band Edge Plot (5 M BW Ch.26815 QPSK\_RB25\_0)





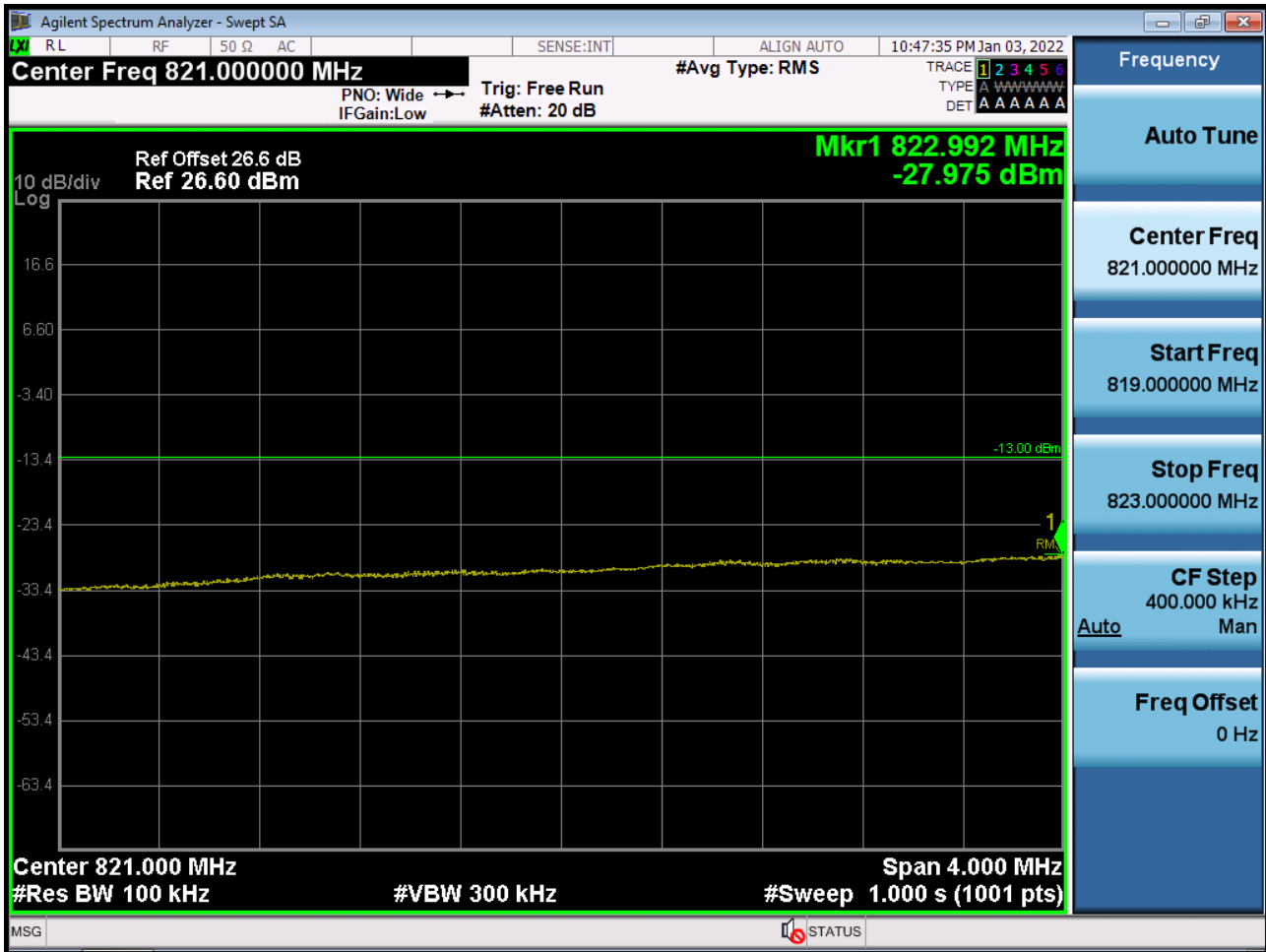
BAND26. Lower Band Edge Plot (10 M BW Ch.26840 QPSK\_RB1\_Offset 0)



BAND26. Lower Band Edge Plot (10 M BW Ch.26840 QPSK\_RB50\_Offset 0)



BAND26. Lower Extended Band Edge Plot (10 M BW Ch.26840 QPSK\_RB50\_0)



BAND 26. Lower Band Edge Plot (15 M BW Ch.26865 QPSK\_RB1\_Offset 0)



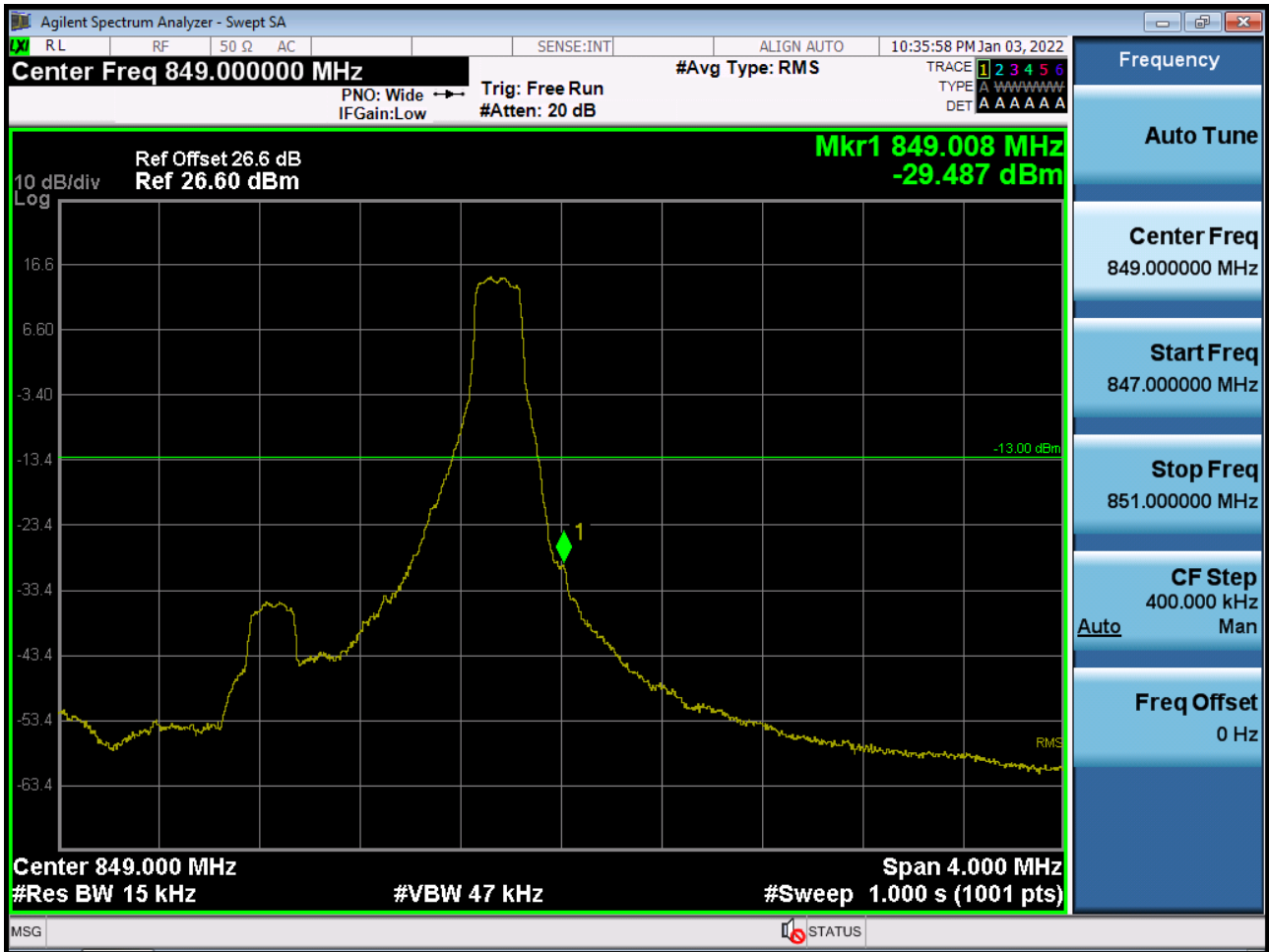
BAND 26. Lower Band Edge Plot (15 M BW Ch.26865 QPSK\_RB75\_Offset 0)



BAND 26. Lower Extended Band Edge Plot (15 M BW Ch.26865 QPSK\_RB75\_0)



BAND26. Upper Band Edge Plot (1.4 M BW Ch.27033 QPSK\_RB1\_Offset 5)



BAND26. Upper Band Edge Plot (1.4 M BW Ch.27033 QPSK\_RB6\_Offset 0)

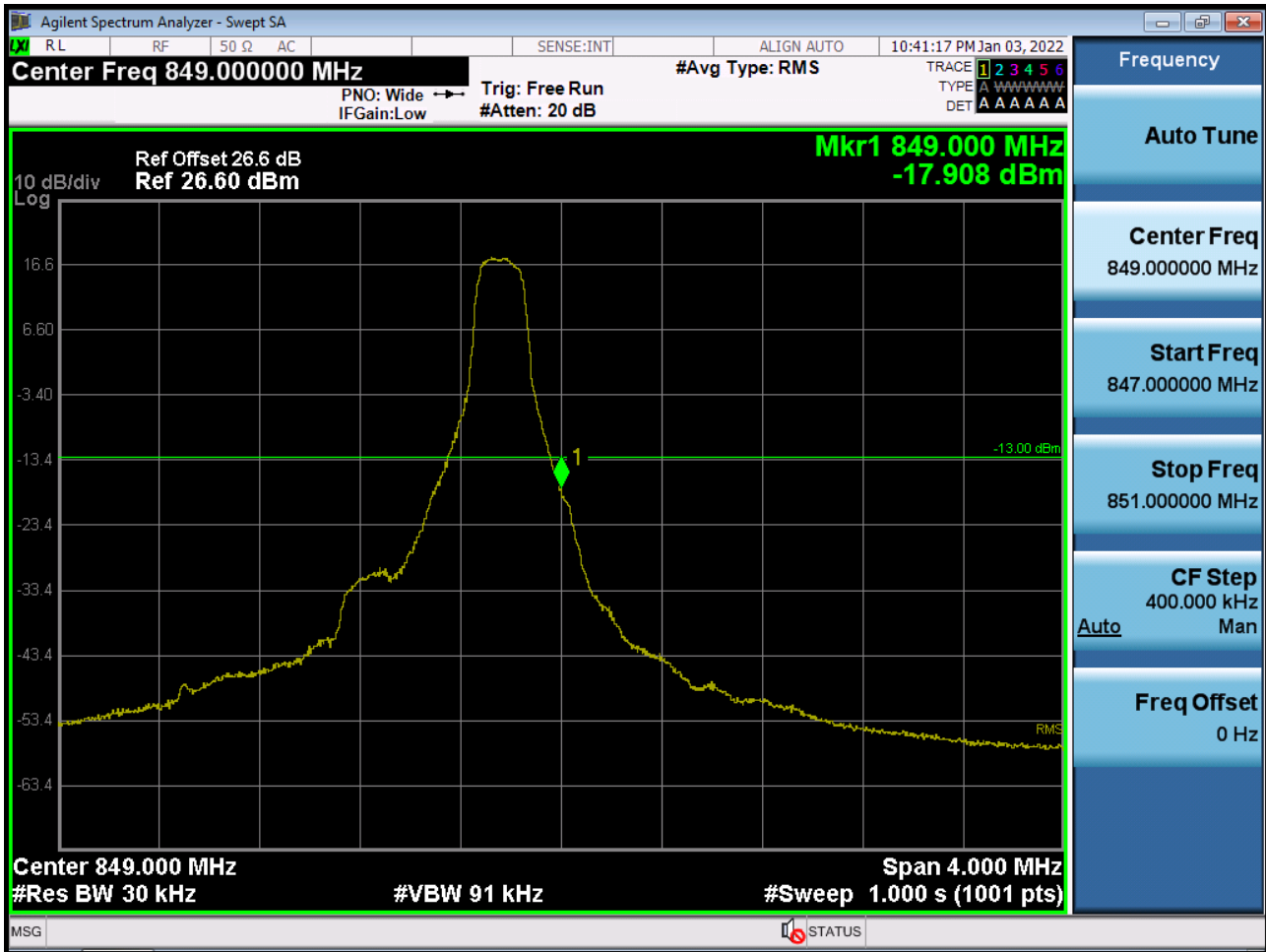




BAND26. Upper Extended Band Edge Plot (1.4 M BW Ch.27033 QPSK\_RB6\_0)



BAND26. Upper Band Edge Plot (3 M BW Ch.27025 QPSK\_RB1\_Offset 14)



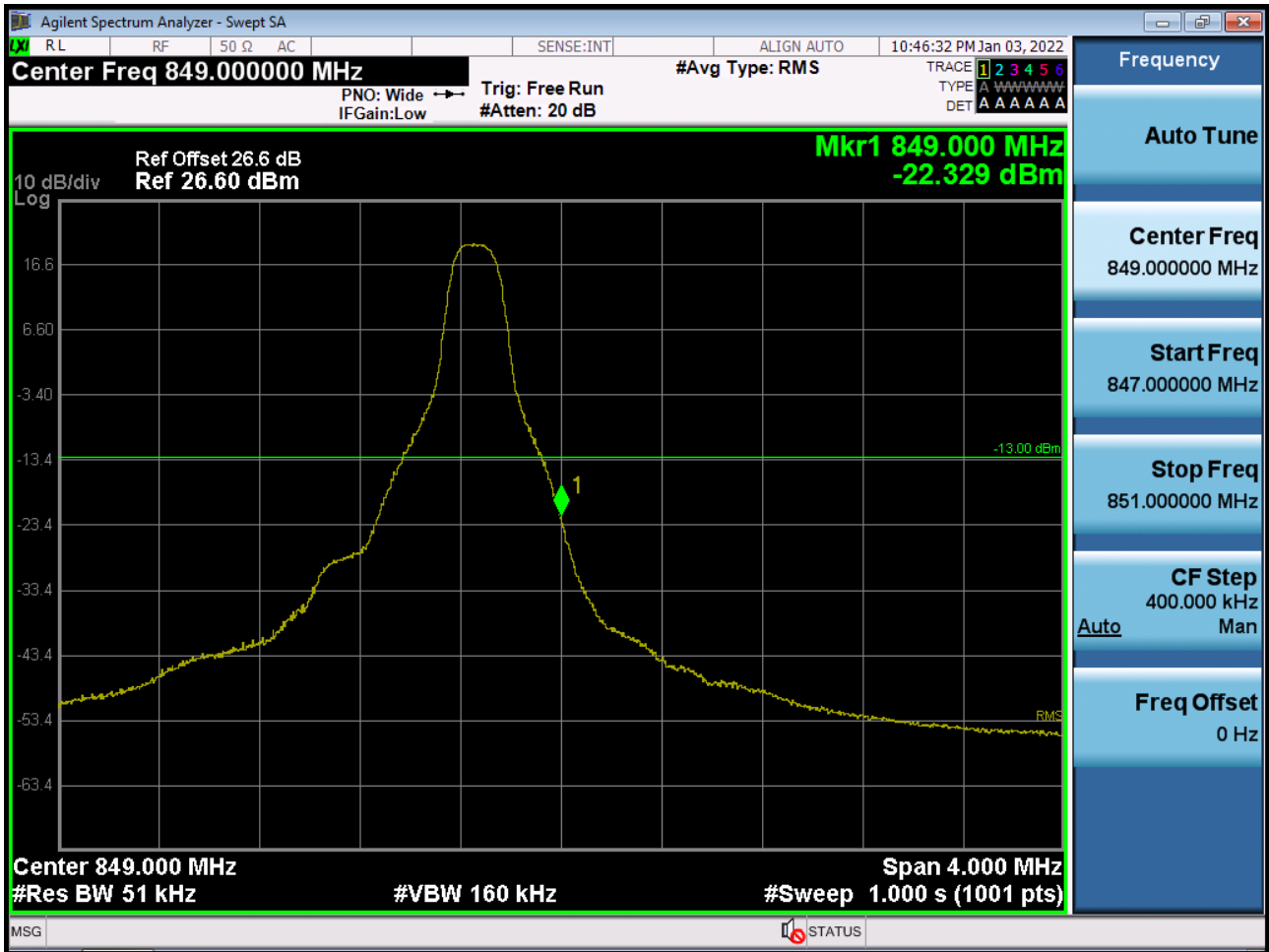
BAND26. Upper Band Edge Plot (3 M BW Ch.27025 QPSK\_RB15\_Offset 0)



BAND26. Upper Extended Band Edge Plot (3 M BW Ch.27025 QPSK\_RB15\_0)



BAND26. Upper Band Edge Plot (5 M BW Ch.27015 QPSK\_RB1\_Offset 24)



BAND26. Upper Band Edge Plot (5 M BW Ch.27015 QPSK\_RB25\_Offset 0)



BAND26. Upper Extended Band Edge Plot (5 M BW Ch.27015 QPSK\_RB25\_0)

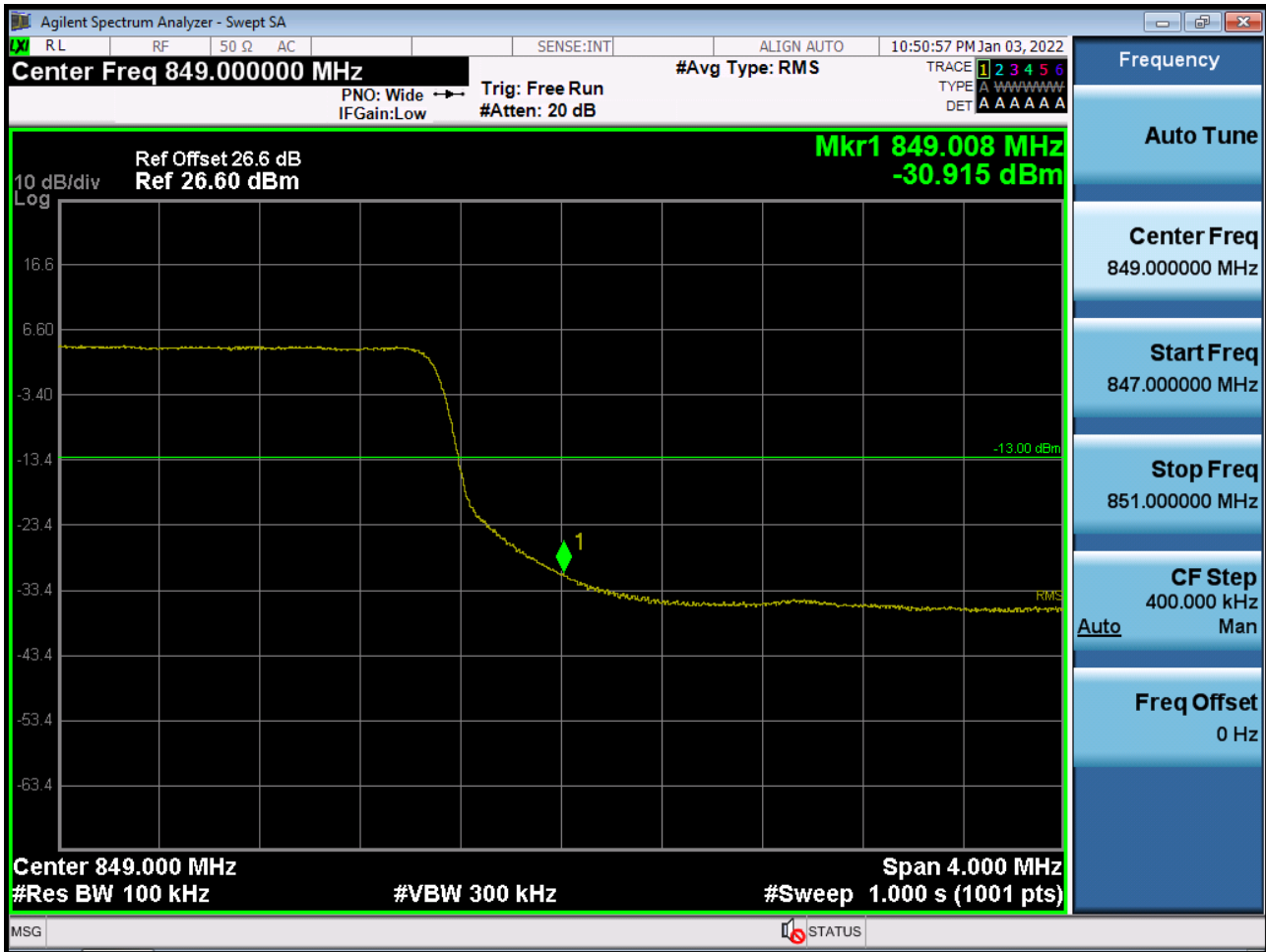


BAND26. Upper Band Edge Plot (10 M BW Ch.26990 QPSK\_RB1\_Offset 49)

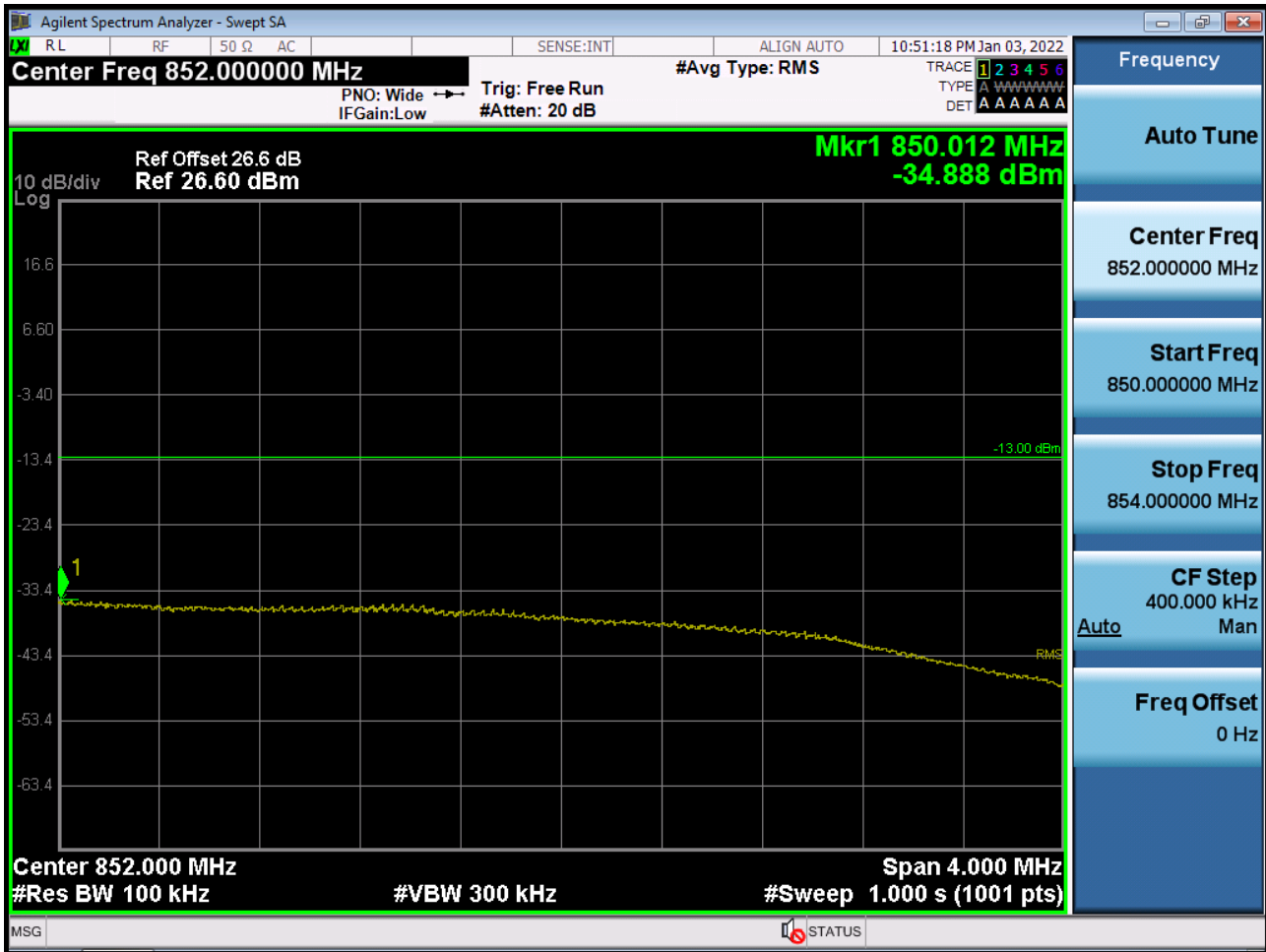




BAND26. Upper Band Edge Plot (10 M BW Ch.26990 QPSK\_RB50\_Offset 0)



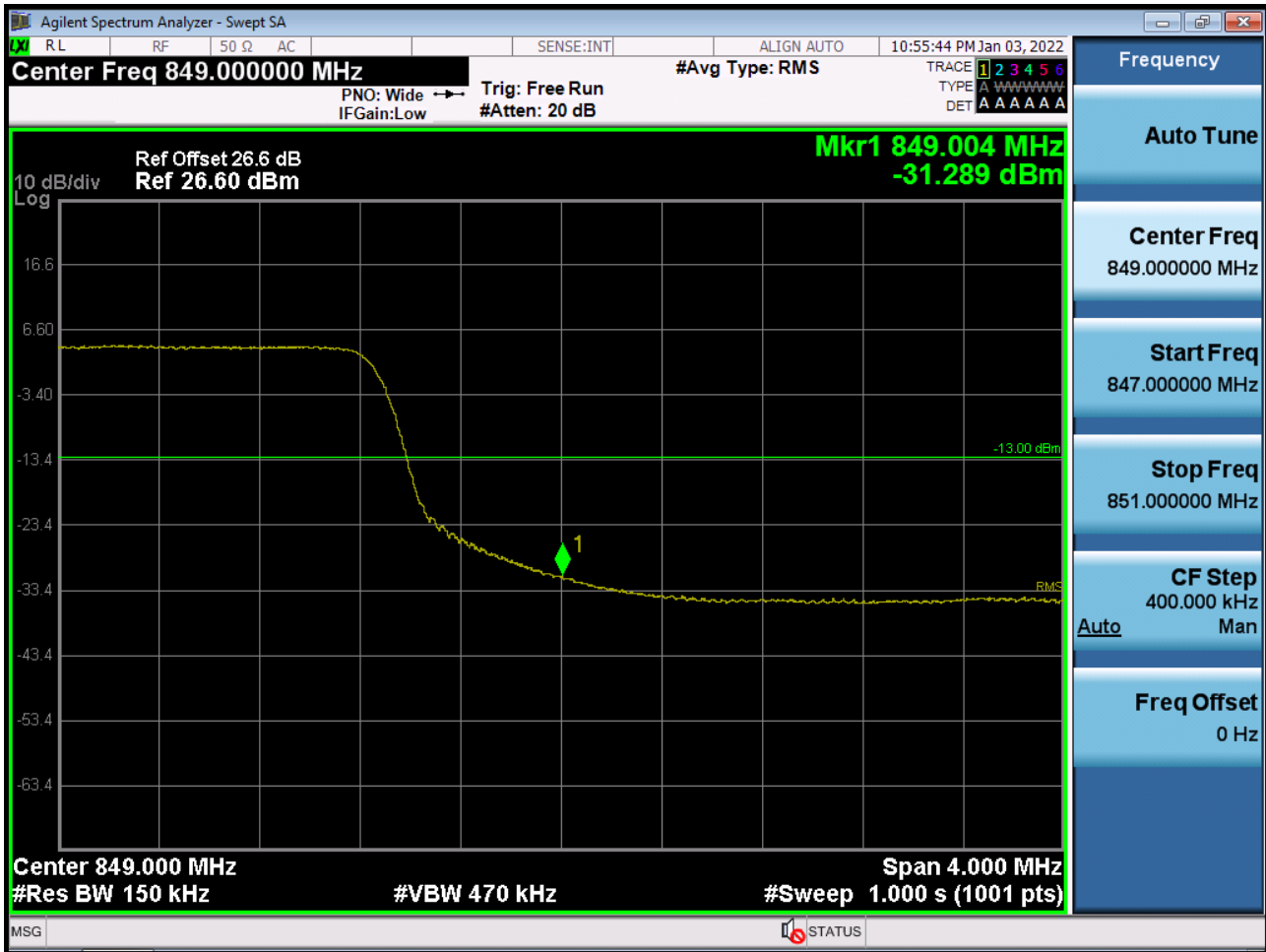
BAND26. Upper Extended Band Edge Plot (10 M BW Ch.26990 QPSK\_RB50\_0)



BAND 26. Upper Band Edge Plot (15 M BW Ch.26965 QPSK\_RB1\_Offset 74)



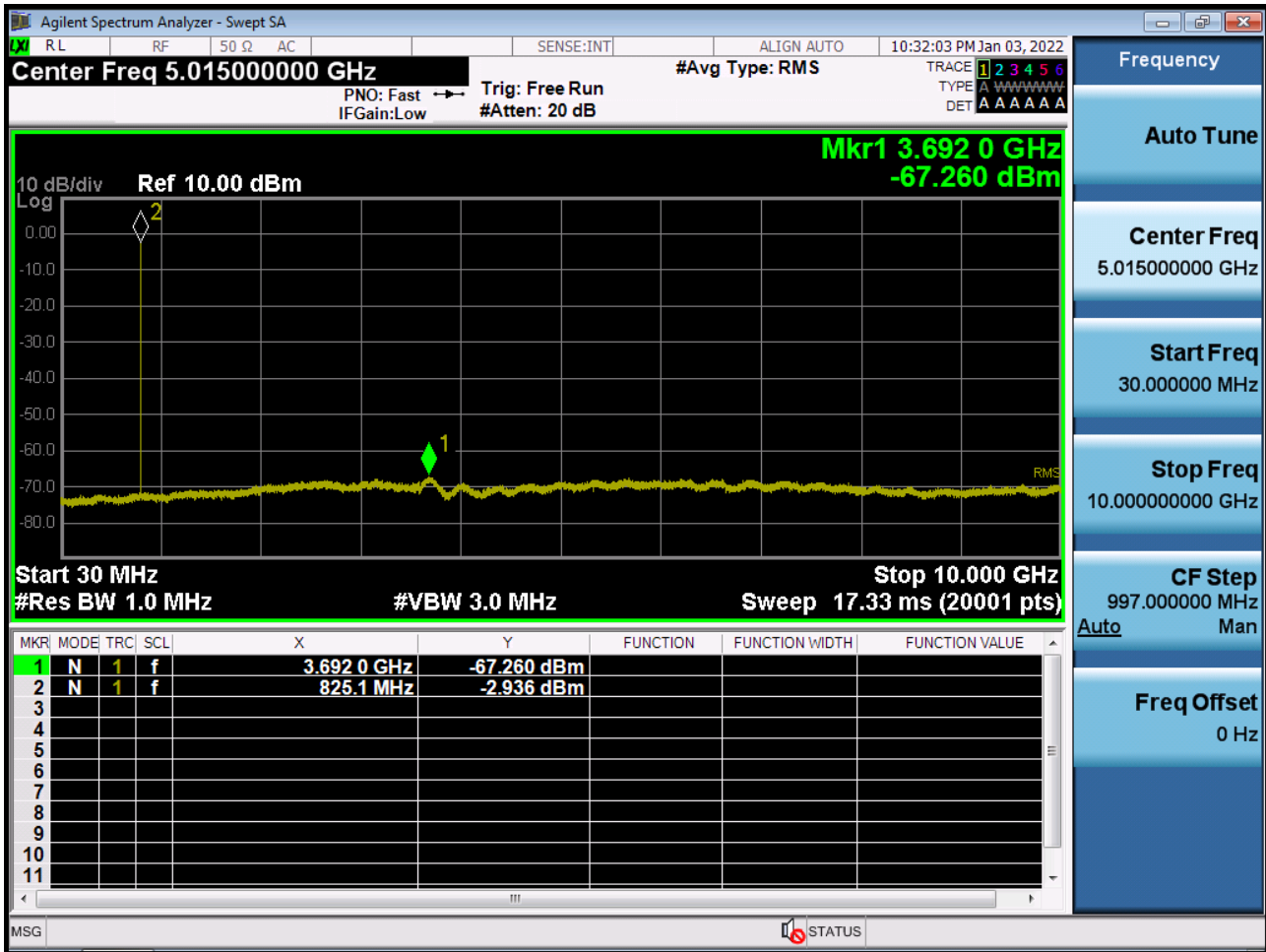
BAND 26. Upper Band Edge Plot (15 M BW Ch.26965 QPSK\_RB75\_Offset 0)



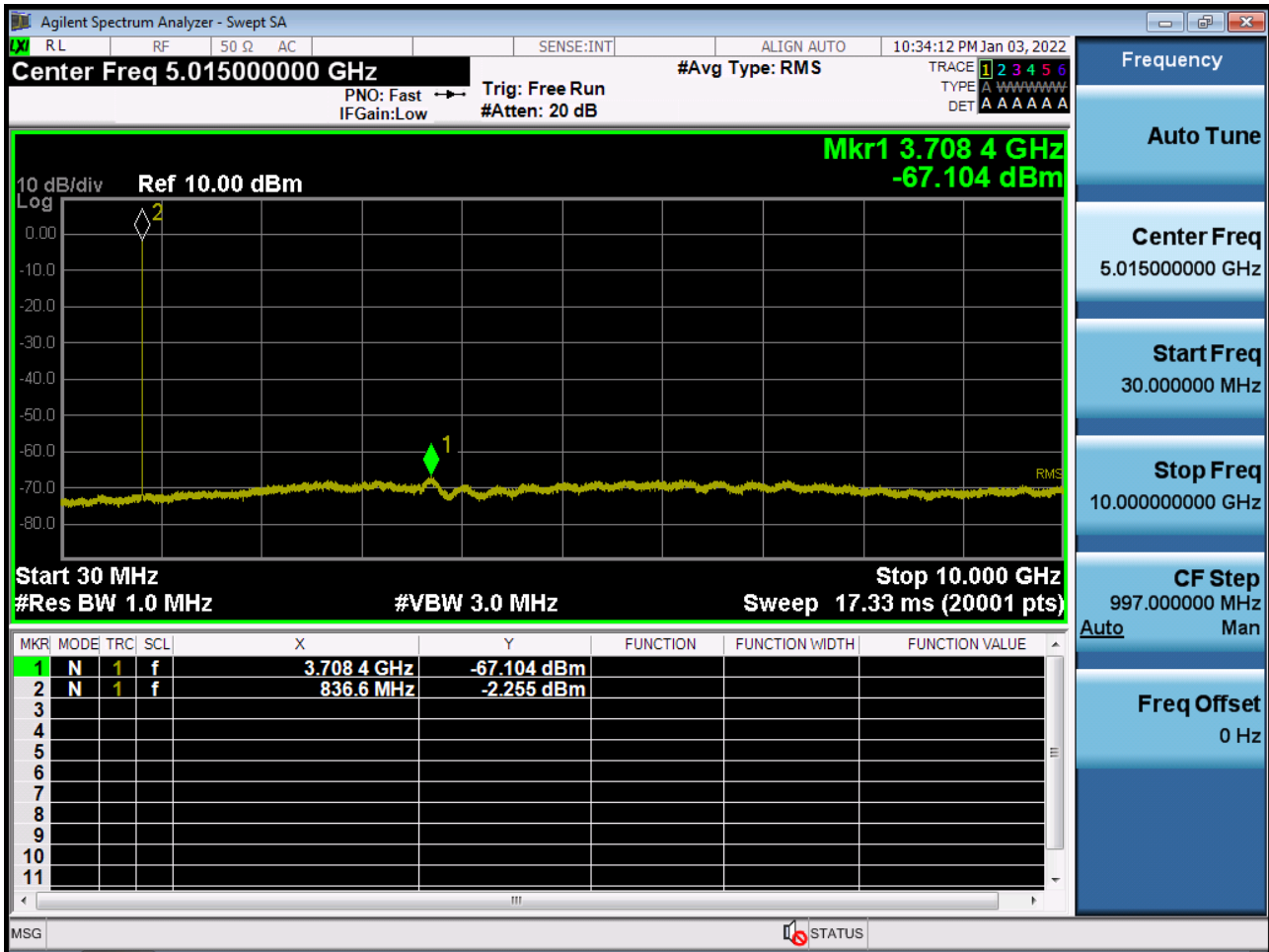
BAND 26. Upper Extended Band Edge Plot (15 M BW Ch.26965 QPSK\_RB75\_0)



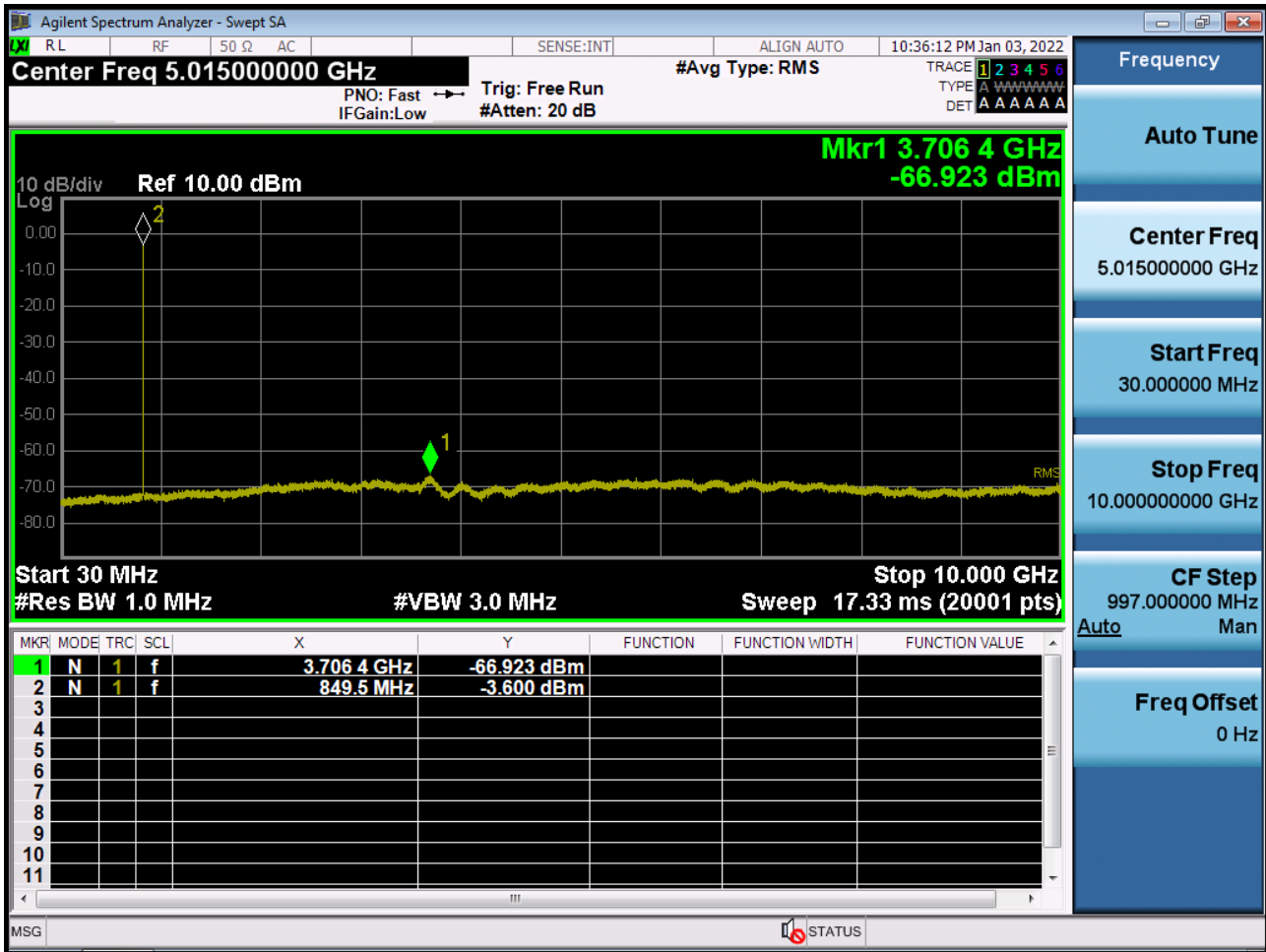
BAND26. Conducted Spurious Plot (26797ch\_1.4 MHz\_QPSK\_RB 1\_0)



BAND26. Conducted Spurious Plot (26915ch\_1.4 MHz\_QPSK\_RB 1\_0)

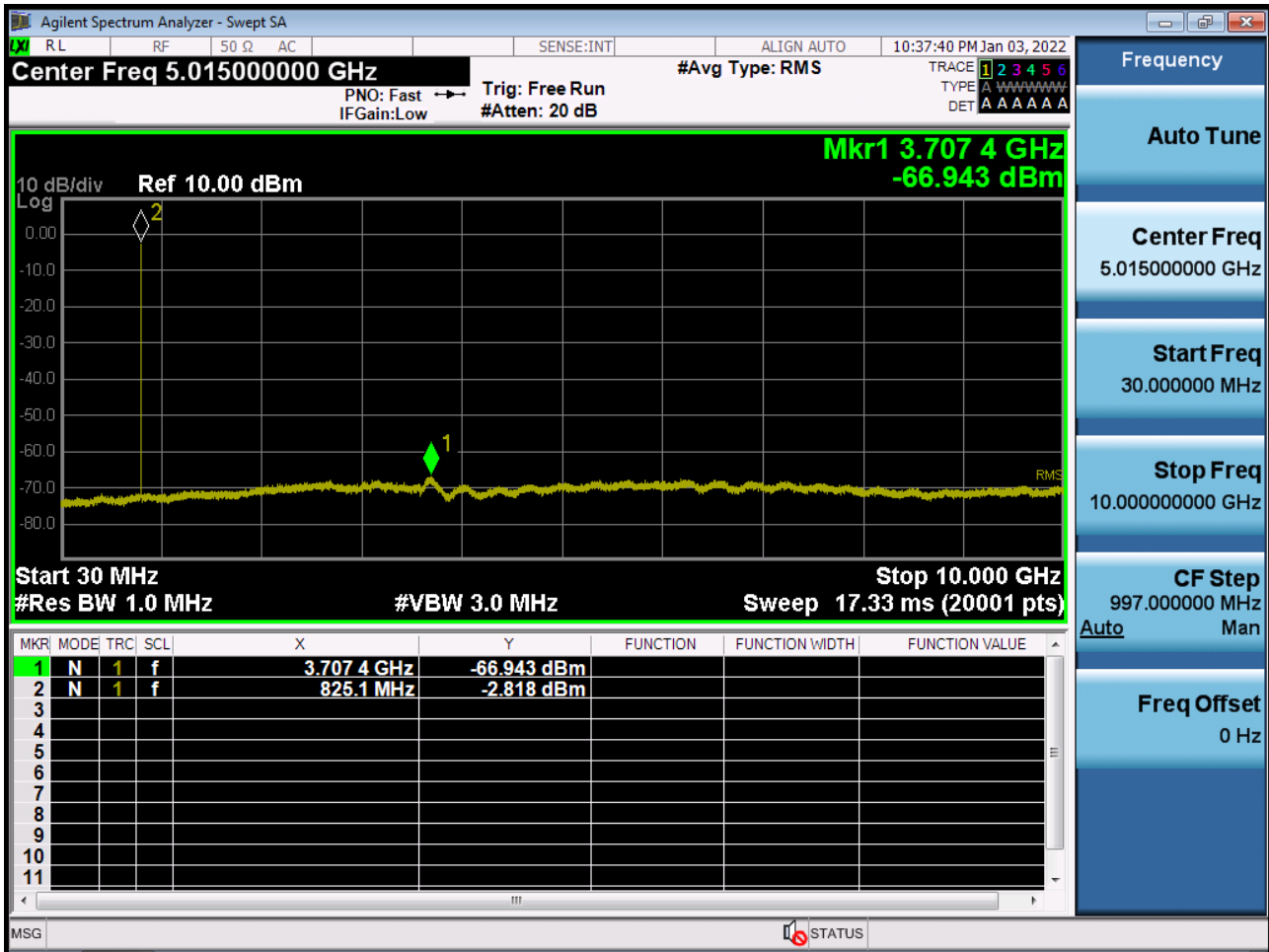


BAND26. Conducted Spurious Plot (27033ch\_1.4 MHz\_QPSK\_RB 1\_0)

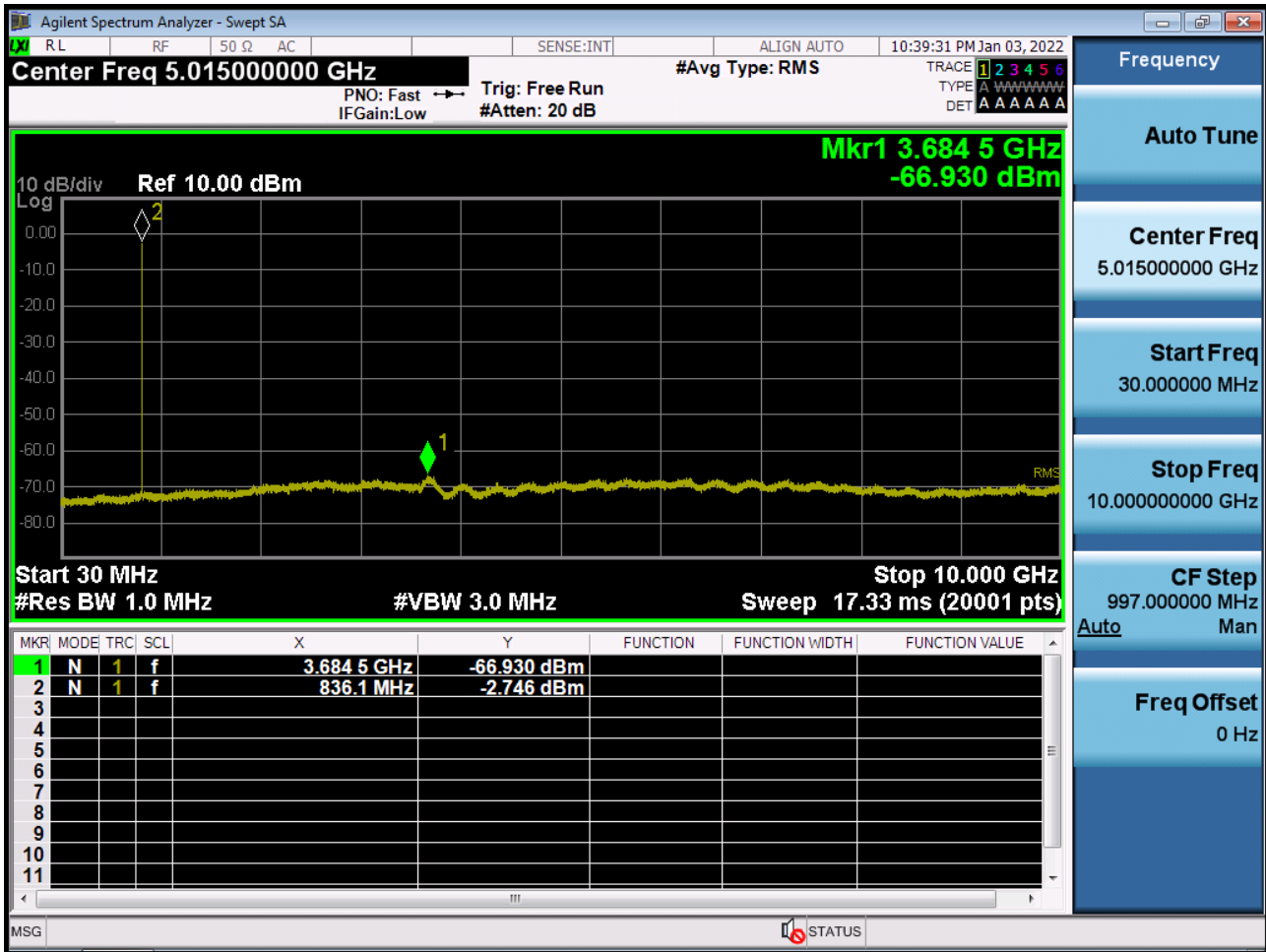




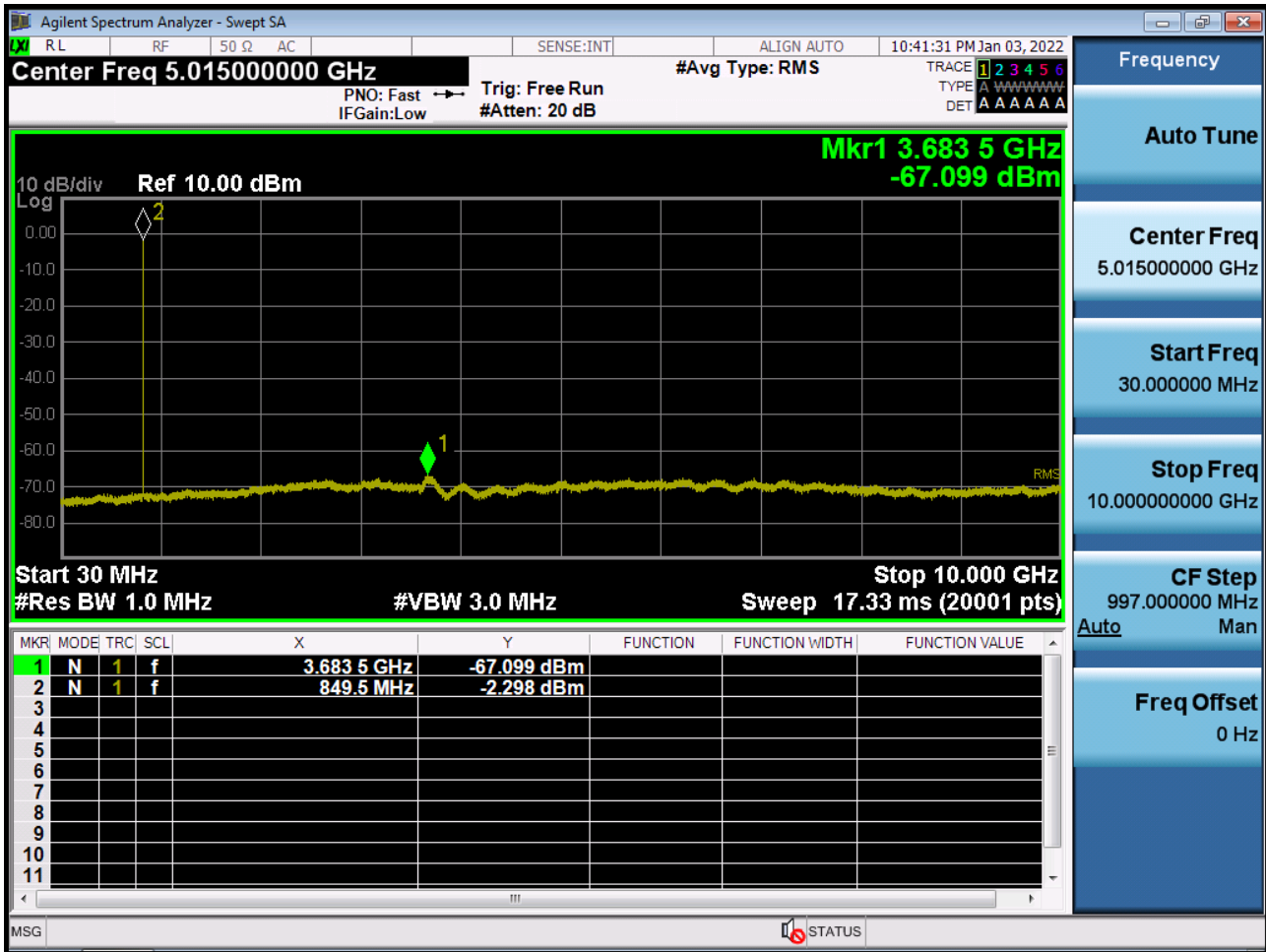
BAND26. Conducted Spurious Plot (26805ch\_3 MHz\_QPSK\_RB 1\_0)



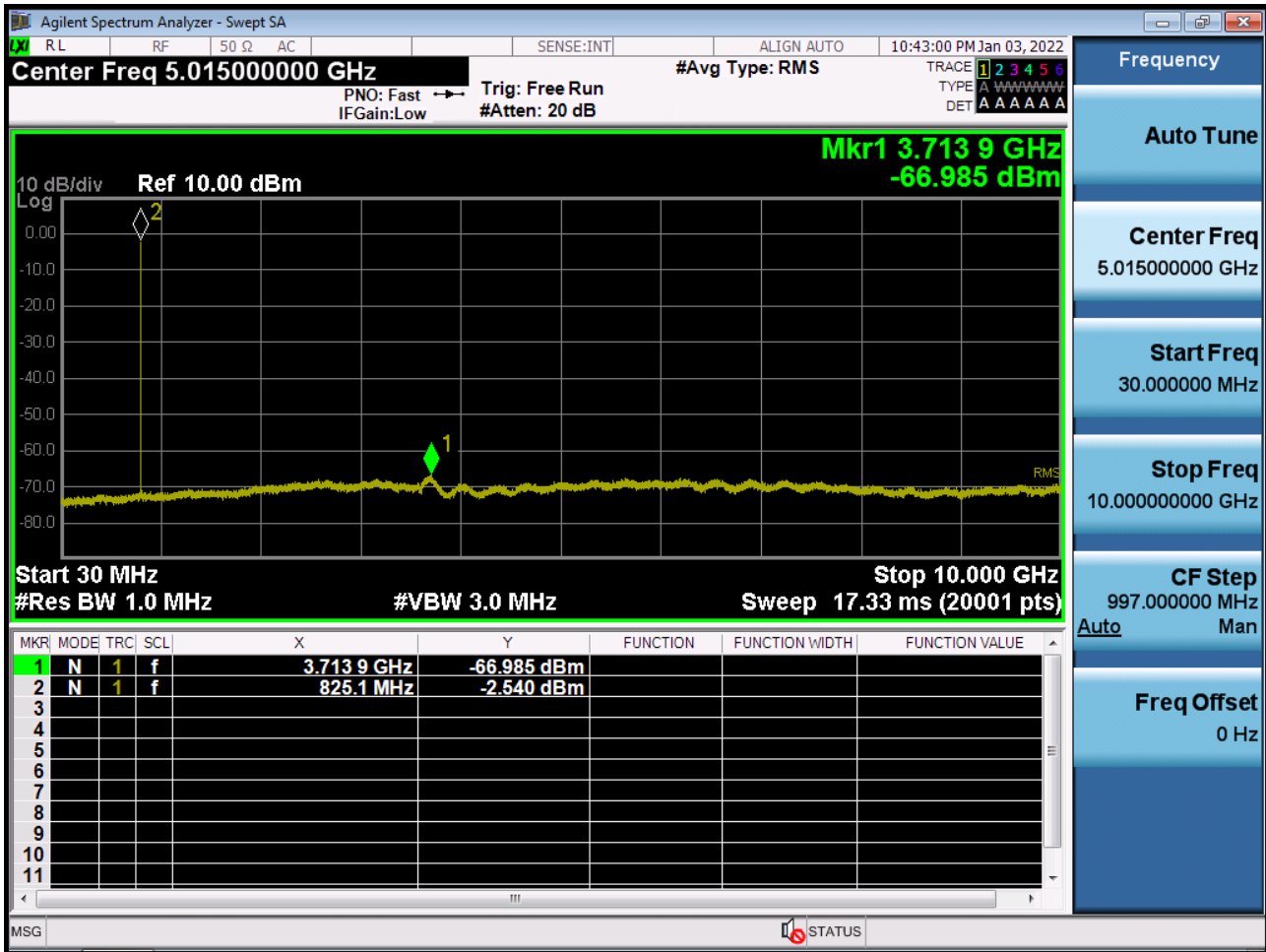
BAND26. Conducted Spurious Plot (26915ch\_3 MHz\_QPSK\_RB 1\_0)



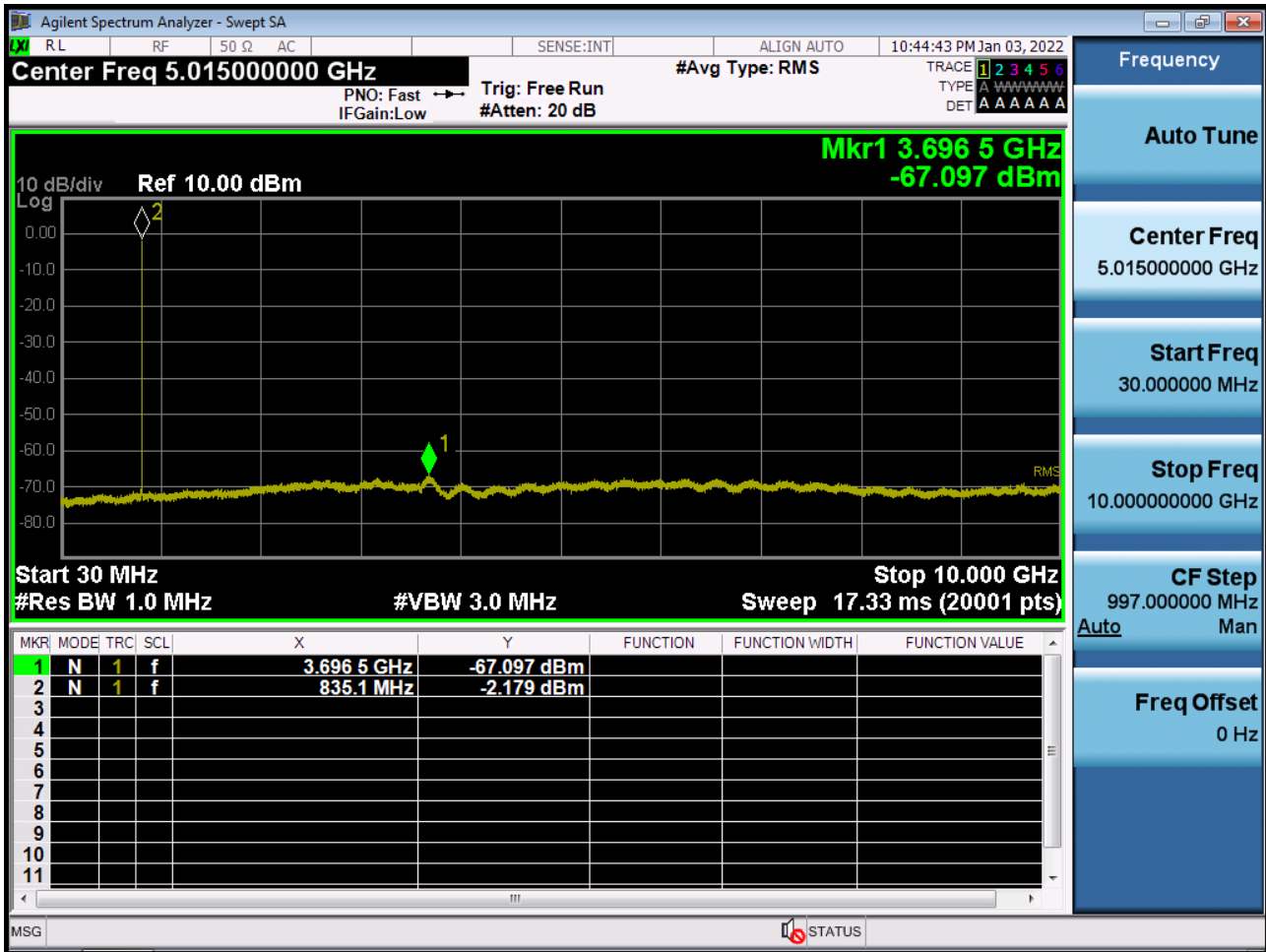
BAND26. Conducted Spurious Plot (27025ch\_3 MHz\_QPSK\_RB 1\_0)



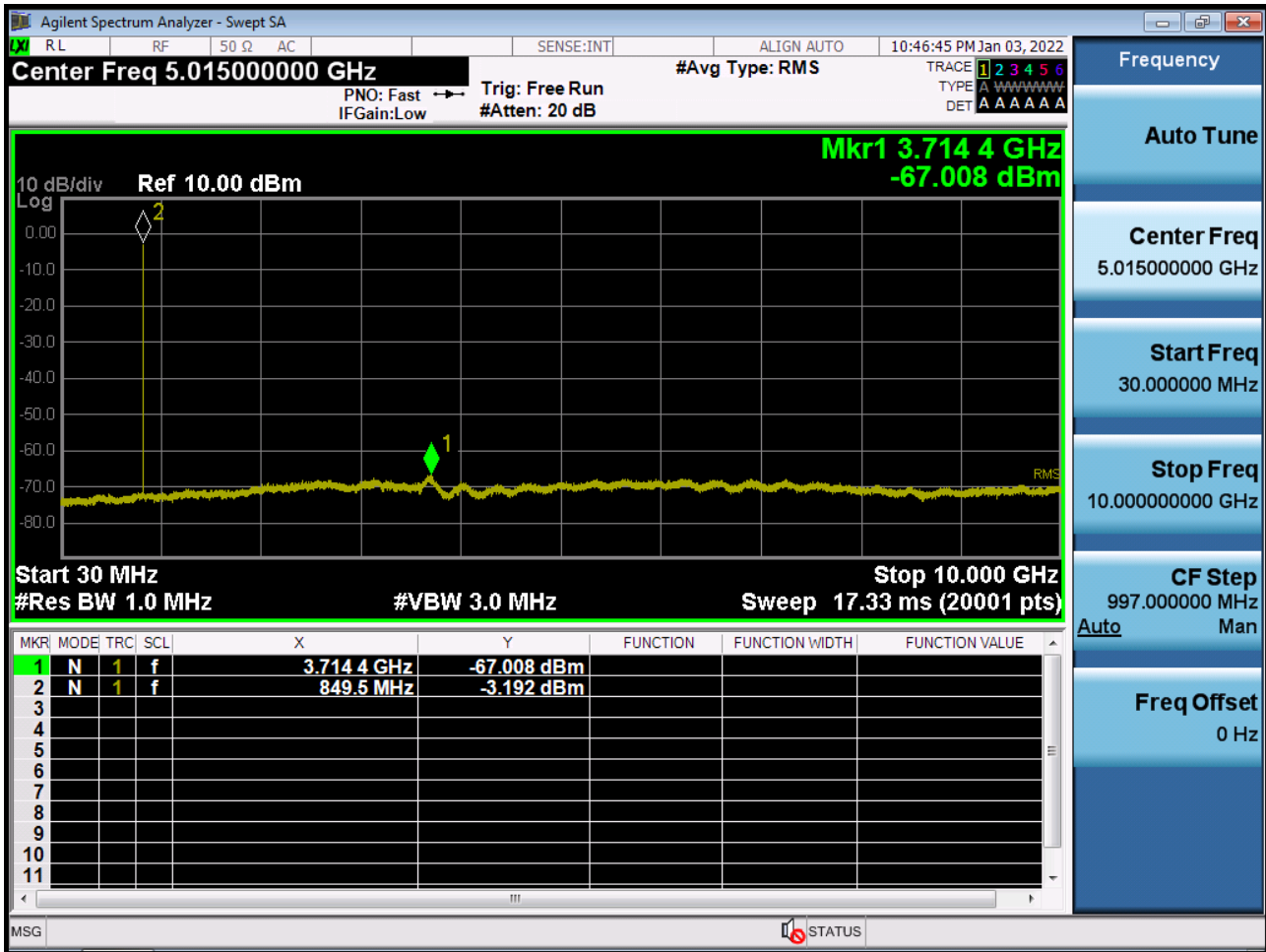
BAND26. Conducted Spurious Plot (26815ch\_5 MHz\_QPSK\_RB 1\_0)



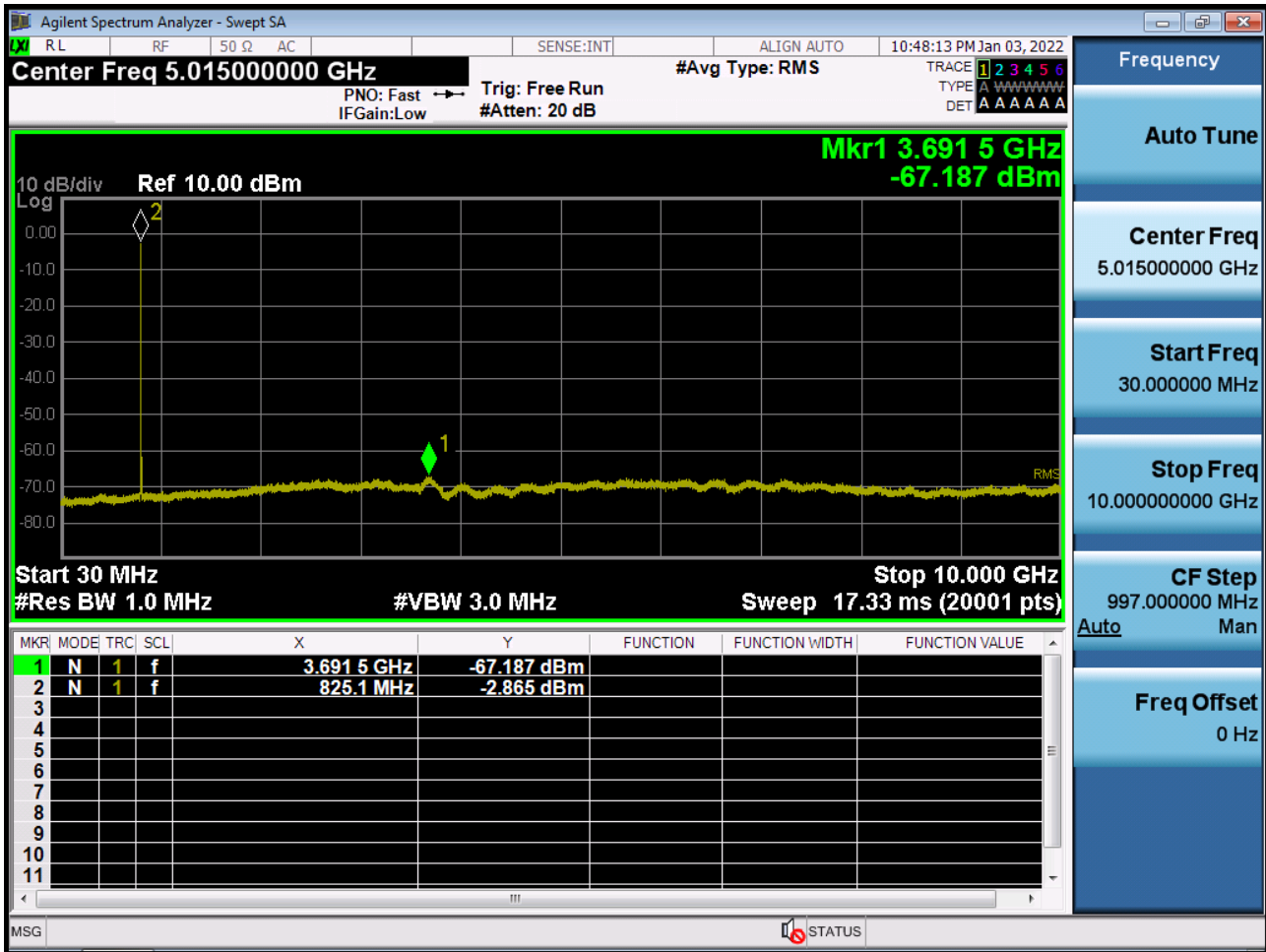
BAND26. Conducted Spurious Plot (26915ch\_5 MHz\_QPSK\_RB 1\_0)



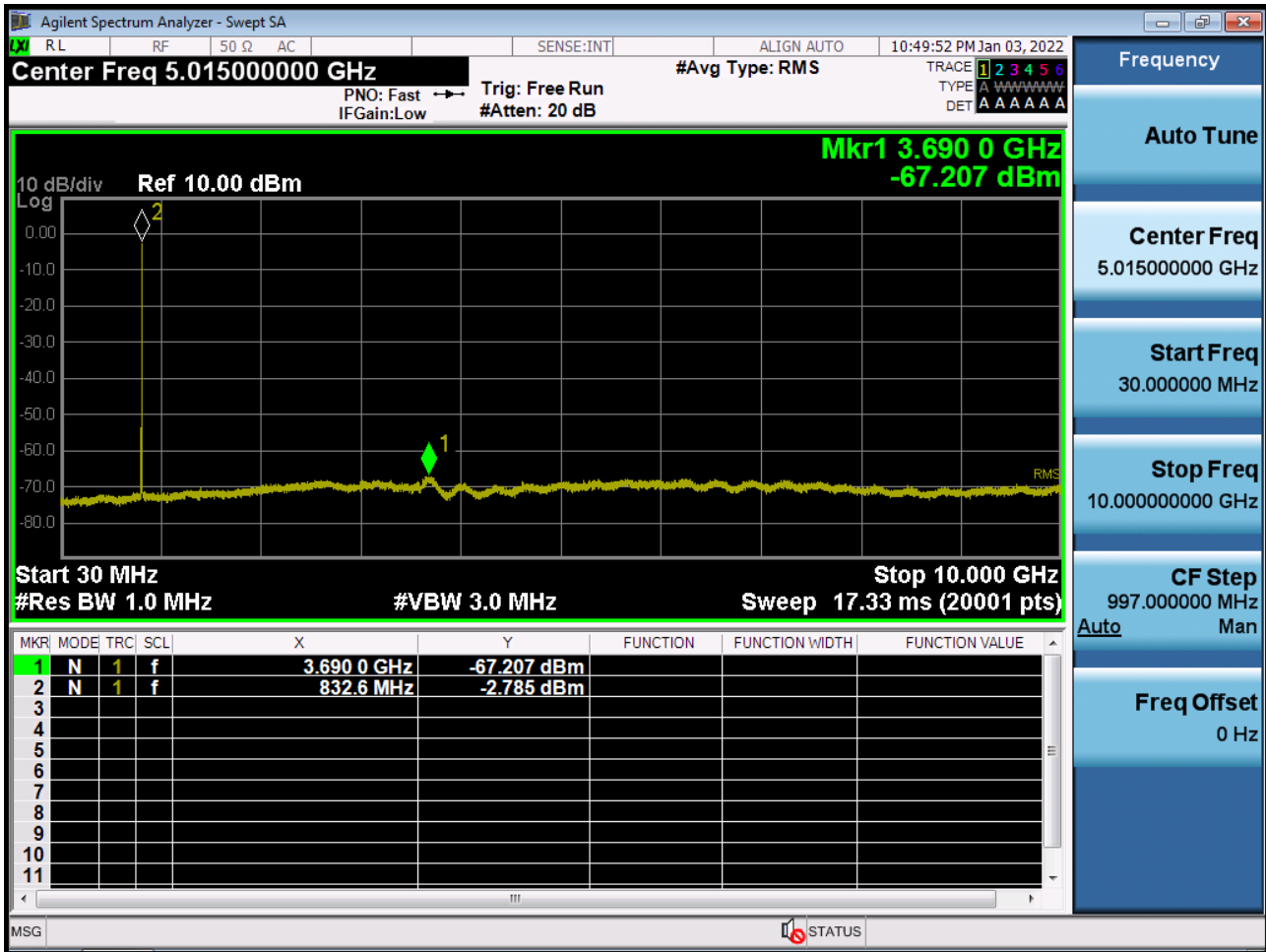
BAND26. Conducted Spurious Plot (27015ch\_5 MHz\_QPSK\_RB 1\_0)



BAND26. Conducted Spurious Plot (26840ch\_10 MHz\_QPSK\_RB 1\_0)

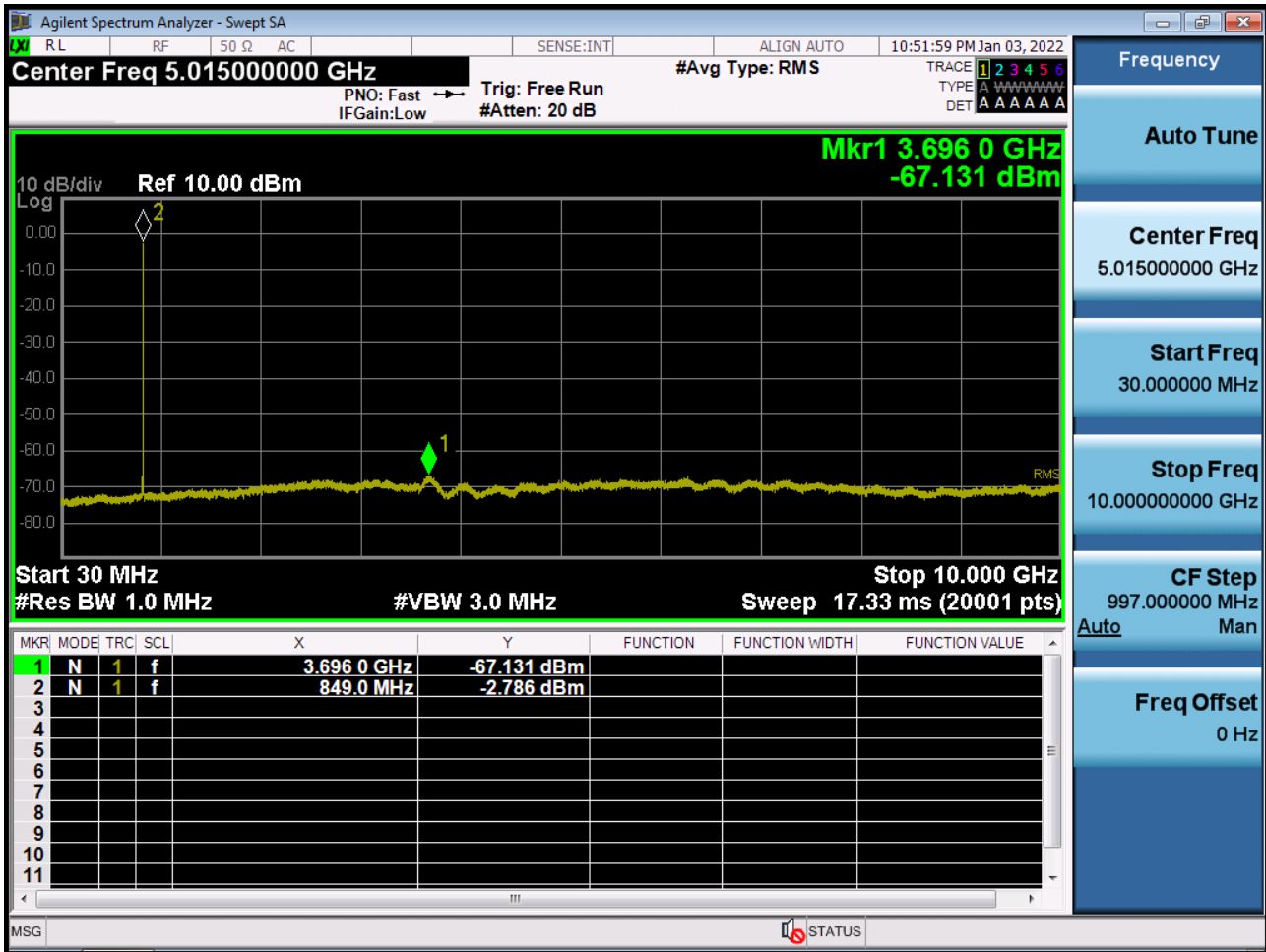


BAND26. Conducted Spurious Plot (26915ch\_10 MHz\_QPSK\_RB 1\_0)

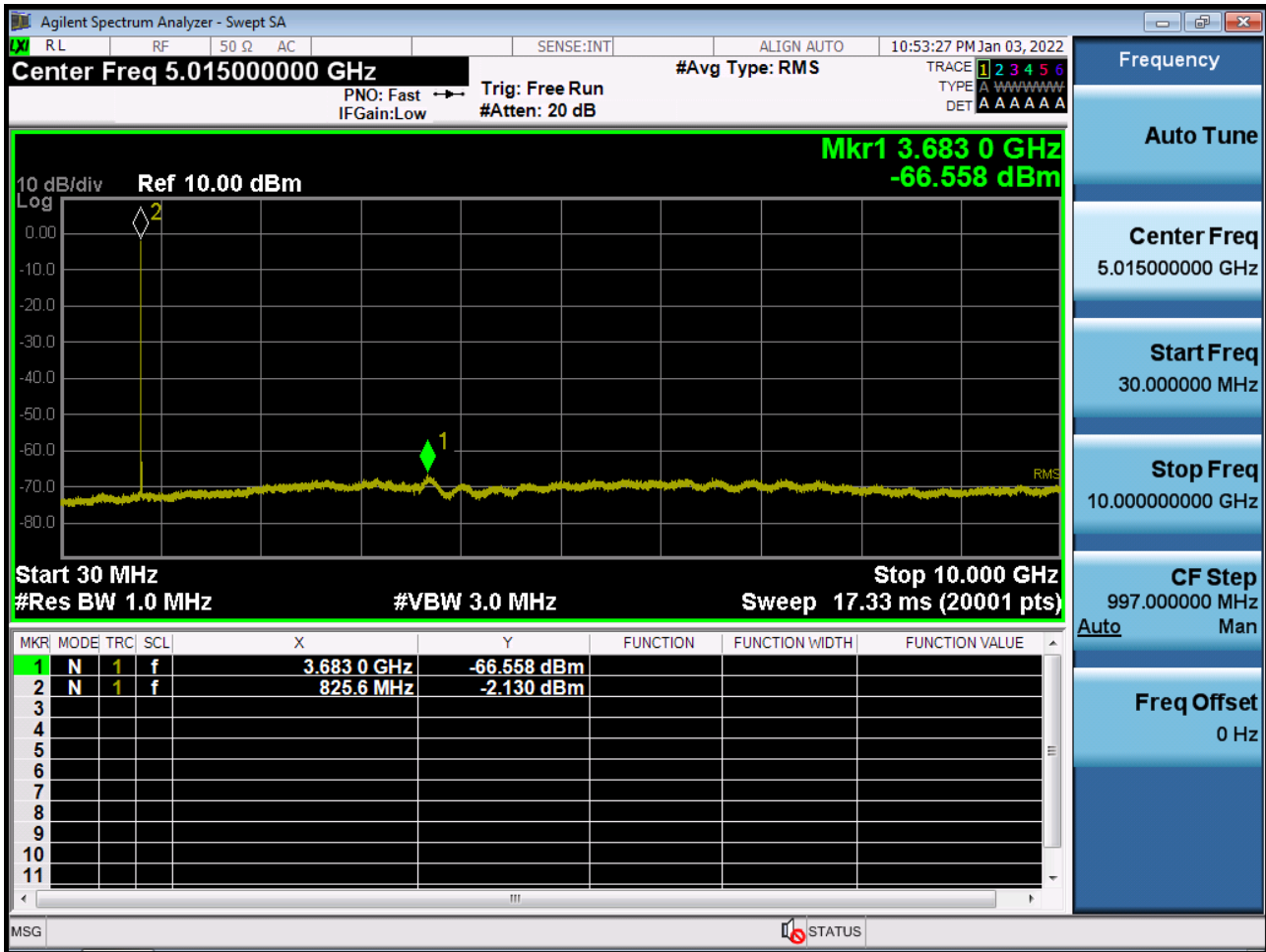




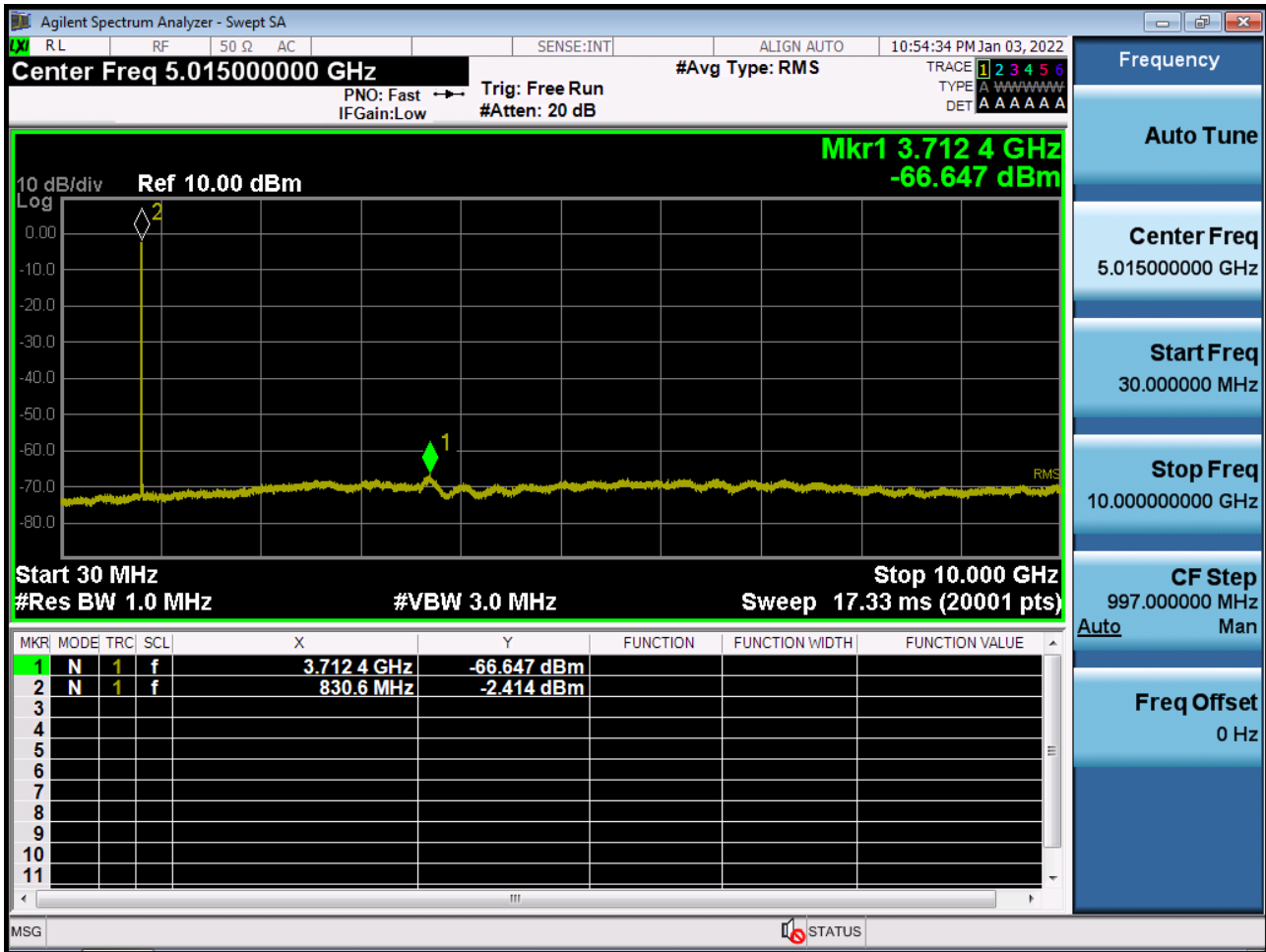
BAND26. Conducted Spurious Plot (26990ch\_10 MHz\_QPSK\_RB 1\_0)



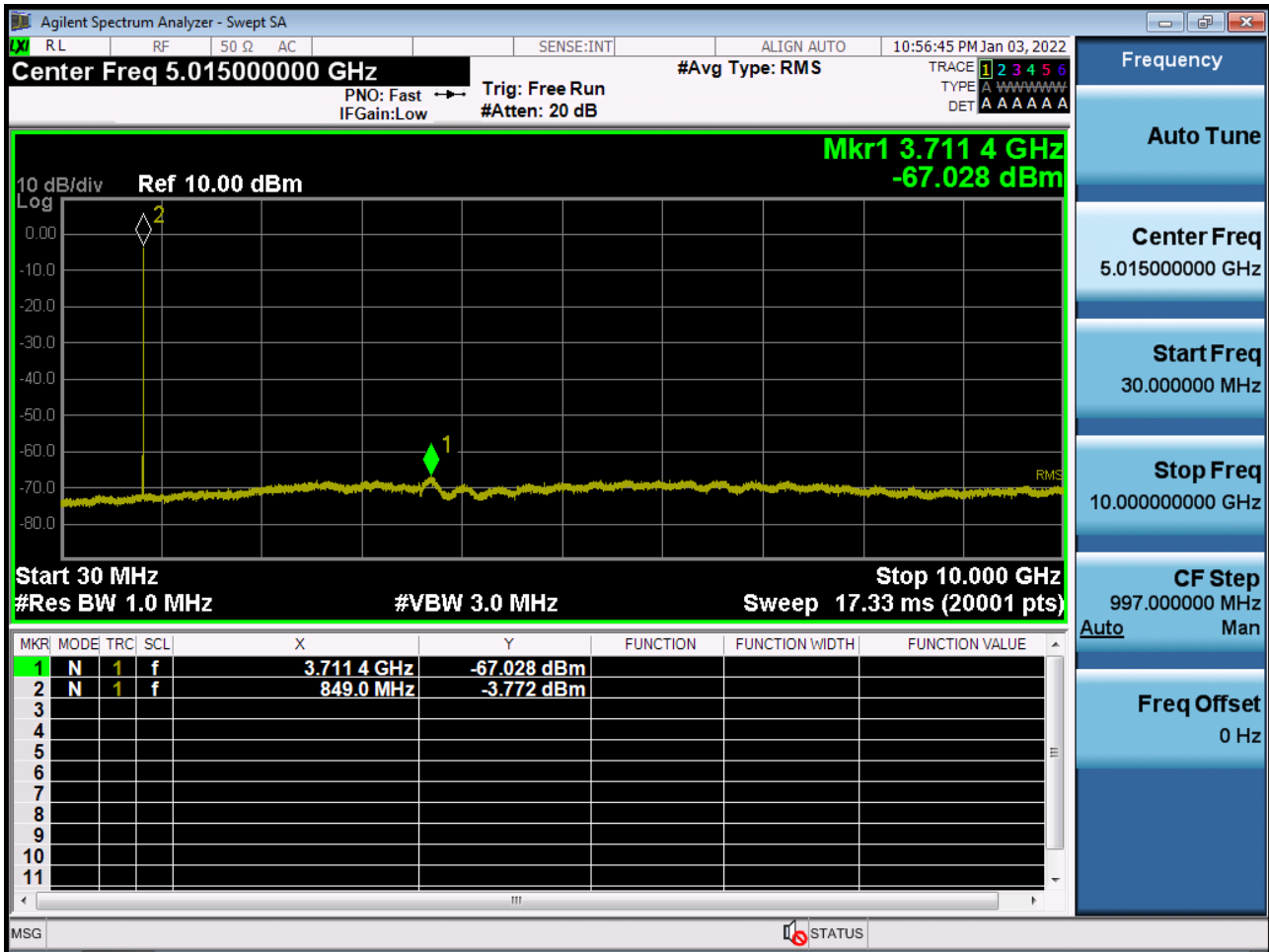
BAND 26. Conducted Spurious (26865ch\_15 MHz\_QPSK\_RB 1\_0)



BAND 26. Conducted Spurious (26915ch\_15 MHz\_QPSK\_RB 1\_0)



BAND 26. Conducted Spurious (26965ch\_15 MHz\_QPSK\_RB 1\_0)



## 10. ANNEX A\_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2201-FC093-P