

TEST REPORT

FCC LTE B30 Test for SM-A276U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2604-FC021

DATE OF ISSUE
April 23, 2026

Tested by
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TEST REPORT

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Additional Model

SM-A276U1, SM-S276V

Applicant**SAMSUNG Electronics Co., Ltd.**

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

Product Name

Mobile Phone

Model Name

SM-A276U

Date of Test

March 11, 2026 ~ April 22, 2026

FCC ID

A3LSMA276U

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 23, 2026	Initial Release

Notice

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	SM-A276U
Additional Model(s)	SM-A276U1, SM-S276V
Tx Frequency:	2307.5 MHz – 2312.5 MHz (LTE – Band30 (5 MHz)) 2310.0 MHz (LTE – Band30 (10 MHz))
Serial number:	Radiated : R37L300TJ6D Conducted : 9aece160ab127ece
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band 30 (5)	2307.5 – 2312.5	4M53G7D	QPSK	0.171	22.32
		4M54W7D	16QAM	0.140	21.46
		4M52W7D	64QAM	0.111	20.47
		4M54W7D	256QAM	0.055	17.43
LTE – Band 30 (10)	2310.0	9M00G7D	QPSK	0.170	22.31
		9M02W7D	16QAM	0.142	21.51
		9M00W7D	64QAM	0.110	20.43
		8M99W7D	256QAM	0.056	17.47

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

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, Republic of Korea.

Detailed description of test facility was submitted to the Commission and accepted dated February 26, 2026 (Registration Number: KR0032).

2.4. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, "American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz".

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	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

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.

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.

Test Settings (1)

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq$ 3 x RBW
3. No. of sweep points > 2 x span / RBW
4. Detector = Peak
5. Trace mode = Max Hold
6. The trace was allowed to stabilize
7. Test channel : Low/ Middle/ High
8. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated. The spurious emissions is calculated by the following formula;

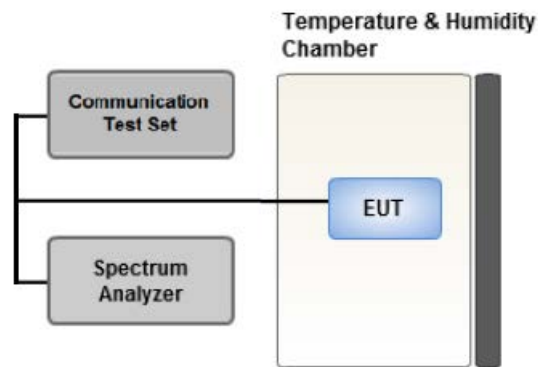
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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.

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

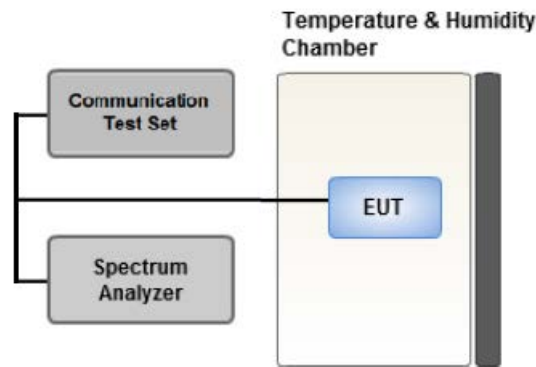
Test Settings

1. Set resolution/measurement bandwidth $\geq$ 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 %.

Test Notes

1. This test was performed using the spectrum analyzer's CCDF function.

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

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

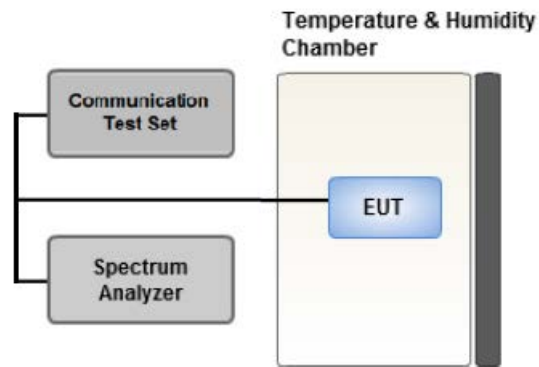
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

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

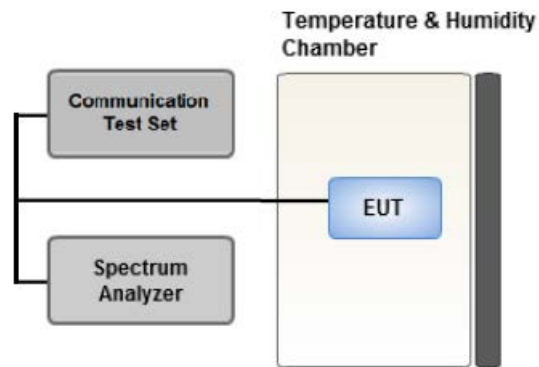
Test Overview

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 $\geq$ 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time > (number of points in sweep) $\times$ (symbol period)
6. Number of points in sweep $\geq$ 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 $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time > (Number of Points) $\times$ (Symbol Period)
9. The trace was allowed to stabilize

Test Limit

§ 27.53(a)

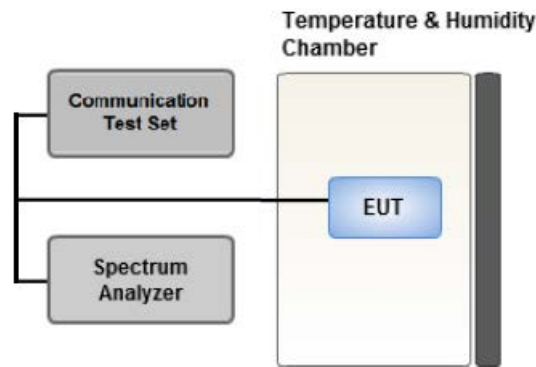
- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
 - (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz

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.

Where $\text{Margin} < 1$ dB the emission level is either corrected by $10 \log (1 \text{ MHz} / \text{RB})$ or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

- . - Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
- . - For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- 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
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- SM-A276U & additional models were tested and the worst case results are reported.
(Worst case : SM-A276U)

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		X
Radiated Spurious and Harmonic Emissions	QPSK	See Section 8.2		Y

3.10 WORST CASE(CONDUCTED TEST)

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

- SM-A276U & additional models were tested and the worst case results are reported.

(Worst case : SM-A276U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	5, 10	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	5, 10	Mid	Full RB	0
Band Edge	QPSK	5	Low, Mid, High	1	0, 24
		10	Mid	1	0, 49
		5	Low, Mid, High	Full RB	0
		10	Mid	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	5	Low, Mid, High	1	0
		10	Mid	1	0

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	input 1 + 1.2G HPF+LNA	HCT CO., LTD.	F1L1	12/17/2026	Annual
RF Switching System	input 1 + 3.3 G HPF+LNA	HCT CO., LTD.	F1L2	12/17/2026	Annual
RF Switching System	input 1 + LNA	HCT CO., LTD.	F1L4	12/17/2026	Annual
RF Switching System	Input 2 + 6G HPF + LNA	HCT CO., LTD.	F1L7	12/17/2026	Annual
Broadband LNA	CBL18265035	CERNEX	22966	10/21/2026	Annual
Broadband LNA	CBL26405040	CERNEX	25956	02/09/2027	Annual
Power Splitter	11667B	Hewlett Packard	5001	04/01/2027	Annual
DC Power Supply	E3632A	Agilent	MY40010147	07/29/2026	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/05/2028	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/04/2027	Annual
Horn Antenna	BBHA 9120D	Schwarzbeck	147	08/07/2027	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1298	08/27/2027	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
MXA SIGNAL ANALYZER	N9020A	Agilent	MY52090906	04/08/2027	Annual
20dB ATTENUATOR	8493C	HP	15233	12/10/2026	Annual
Spectrum Analyzer	FSV40	ROHDE & SCHWARZ	100931	07/28/2026	Annual
Wireless Communications Set	E5515C	Agilent	MY48360800	07/29/2026	Annual
Loop Antenna	FMZB1513	Schwarzbeck	1513-333	06/23/2027	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	00895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	SCHWARZBECK MESS-ELEKTRONIK	01135	08/19/2026	Biennial
Radio Communication Analyzer	MT8821C	Anritsu	6262094331	11/24/2026	Annual
Radio Communication Test Station	MT8000A	Anritsu	6272613402	08/18/2026	Annual
SIGNAL GENERATOR	SMB100A	ROHDE & SCHWARZ	177633	07/22/2026	Annual
Signal Analyzer	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
SIGNAL ANALYZER	FSW67	ROHDE & SCHWARZ	101736	05/27/2026	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

- Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update. All reported measurements were performed using equipment within valid calibration.
- Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

5. MEASUREMENT UNCERTAINTY

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

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

Parameter	Expanded Uncertainty ($\pm$ kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, $k=2$)
Frequency stability	28 (Confidence level about 95 %, $k=2$)

Parameter	Expanded Uncertainty ($\pm$ kHz)
Block Edge	0.70 (Confidence level about 95 %, $k=2$)
Conducted Spurious Emissions	1.11 (Confidence level about 95 %, $k=2$)
Peak- to- Average Ratio	0.73 (Confidence level about 95 %, $k=2$)
Radiated Power	4.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.54 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.80 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.86 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.44 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

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(a)	Section 3.7	PASS
Conducted Output Power	§ 2.1046	N/A	PASS <u>Note1</u>
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. Refer to SAR report.

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(a)(3)	< 0.25 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(a)	< 70 + 10log10 (P[Watts])	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

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 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

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

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

QPSK Modulation

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

QAM Modulation

Emission Designator = 4 M48W7D
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	Modulation	Measured	Substitute	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)				W	W	dBm	Size	Offset
2307.5	LTE B30/ 5 MHz	QPSK	-22.86	15.12	9.54	2.34	H	<0.25	0.171	22.32	1	13
		16-QAM	-23.74	14.24	9.54	2.34	H		0.139	21.44		
		64-QAM	-24.82	13.16	9.54	2.34	H		0.109	20.36		
		256-QAM	-27.90	10.08	9.54	2.34	H		0.053	17.28		
2310.0		QPSK	-22.94	15.04	9.54	2.34	H		0.167	22.24	1	13
		16-QAM	-23.72	14.26	9.54	2.34	H		0.140	21.46		
		64-QAM	-24.71	13.27	9.54	2.34	H		0.111	20.47		
		256-QAM	-27.75	10.23	9.54	2.34	H		0.055	17.43		
2312.5		QPSK	-22.97	15.00	9.61	2.33	H		0.169	22.28	1	13
		16-QAM	-23.80	14.17	9.61	2.33	H		0.140	21.45		
		64-QAM	-24.84	13.13	9.61	2.33	H		0.110	20.41		
		256-QAM	-27.95	10.02	9.61	2.33	H		0.054	17.30		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2310.0	LTE B30/ 10 MHz	QPSK	-22.87	15.11	9.54	2.34	H	< 0.25	0.170	22.31	1	25
		16-QAM	-23.67	14.31	9.54	2.34	H		0.142	21.51		
		64-QAM	-24.75	13.23	9.54	2.34	H		0.110	20.43		
		256-QAM	-27.71	10.27	9.54	2.34	H		0.056	17.47		

8.2 RADIATED SPURIOUS EMISSIONS

MODE: LTE B30
 MODULATION SIGNAL: 5 MHz QPSK
 DISTANCE: 1 meters
 LIMIT: -40 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
27685 (2307.5)	4 615.00	-40.01	12.76	-66.78	3.52	V	-57.54	1	13
		-40.31		-67.08		H	-57.84		
	6 922.50	-43.98	12.10	-60.60	4.40	V	-52.90		
		-43.34		-59.96		H	-52.26		
	9 230.00	-41.25	10.87	-52.52	5.16	V	-46.81		
		-38.79		-50.06		H	-44.35		
27710 (2310)	4 620.00	-39.45	12.76	-66.25	3.51	V	-57.00	1	13
		-40.00		-66.80		H	-57.55		
	6 930.00	-43.47	12.07	-60.03	4.40	V	-52.36		
		-42.79		-59.35		H	-51.68		
	9 240.00	-41.85	10.85	-52.55	5.16	V	-46.86		
		-40.30		-51.00		H	-45.31		
27735 (2312.5)	4 625.00	-38.86	12.76	-65.53	3.50	V	-56.27	1	13
		-37.69		-64.36		H	-55.10		
	6 937.50	-42.77	12.03	-59.44	4.41	V	-51.82		
		-43.23		-59.90		H	-52.28		
	9 250.00	-41.88	10.82	-52.20	5.17	V	-46.55		
		-39.90		-50.22		H	-44.57		

■ MODE: LTE B30
 ■ MODULATION SIGNAL: 10 MHz QPSK
 ■ DISTANCE: 1 meters
 ■ LIMIT: -40 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
27710 (2310)	4 620.00	-38.63	12.76	-65.43	3.51	V	-56.18	1	25
		-39.12		-65.92		H	-56.67		
	6 930.00	-43.51	12.07	-60.07	4.40	V	-52.40		
		-43.10		-59.66		H	-51.99		
	9 240.00	-42.37	10.85	-53.07	5.16	V	-47.38		
		-38.11		-48.81		H	-43.12		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
LTE B30	5 MHz	2310.0	QPSK	25	0	5.91	13.00
			16-QAM			6.82	
			64-QAM			7.11	
			256-QAM			7.06	
	10 MHz		QPSK	50		5.99	
			16-QAM			6.78	
			64-QAM			7.07	
			256-QAM			7.01	

Note:

1. P.A.P.R is not required. These values are reported for information only.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
LTE B30	5 MHz	2310.0	QPSK	25	0	4.5261
			16-QAM			4.5346
			64-QAM			4.5184
			256-QAM			4.5390
	10 MHz		QPSK	50		9.0030
			16-QAM			9.0191
			64-QAM			8.9962
			256-QAM			8.9845

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)
LTE B30	5	2307.50	26.1271	30.131	-77.417	-47.286	-40.00
		2310.00	26.1453	30.131	-77.425	-47.294	
		2312.50	26.1419	30.131	-77.406	-47.275	
	10	2310.00	26.1543	30.131	-77.511	-47.380	

Note:

1. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + 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

8.6 BAND EDGE

Band Width (MHz)	Frequency (MHz)	Modulation	RB (Size/ Offset)	Frequency Range (MHz)	Maximum Data (dBm)	Limit (dBm)
5	2307.5	QPSK	25/0	Below 2288	-53.006	-40
				2288 - 2292	-51.104	-37
				2292 - 2296	-41.680	-31
				2296 - 2300	-32.952	-25
				2300 - 2304	-19.763	-13
				2304 - 2305	-25.801	-13
				2315 - 2320	-34.184	-13
				2320 - 2324	-45.326	-25
				2324 - 2328	-49.550	-31
				2328 - 2337	-52.590	-37
				2337 - 2341	-52.850	-31
				2341 - 2345	-52.827	-25
				2345 - 2365	-52.621	-13
				Above 2365	-52.847	-40
	2310.0	QPSK	25/0	Below 2288	-53.059	-40
				2288 - 2292	-52.616	-37
				2292 - 2296	-47.789	-31
				2296 - 2300	-34.787	-25
				2300 - 2305	-24.450	-13
				2315 - 2320	-24.485	-13
				2320 - 2324	-37.981	-25
				2324 - 2328	-47.936	-31
				2328 - 2337	-52.269	-37
				2337 - 2341	-52.823	-31
				2341 - 2345	-52.834	-25
				2345 - 2365	-52.534	-13
				Above 2365	-52.837	-40
	2312.5	QPSK	25/0	Below 2288	-53.131	-40
				2288 - 2292	-52.865	-37
				2292 - 2296	-50.444	-31
				2296 - 2300	-42.821	-25

				2300 - 2305	-33.976	-13
				2315 - 2316	-26.316	-13
				2316 - 2320	-21.387	-13
				2320 - 2324	-36.677	-25
				2324 - 2328	-42.313	-31
				2328 - 2337	-51.040	-37
				2337 - 2341	-52.833	-31
				2341 - 2345	-52.832	-25
				2345 - 2365	-52.513	-13
				Above 2365	-52.802	-40
10	2310.0	QPSK	50/0	Below 2288	-50.229	-40
				2288 - 2292	-42.531	-37
				2292 - 2296	-35.733	-31
				2296 - 2300	-26.464	-25
				2300 - 2304	-22.105	-13
				2304 - 2305	-28.751	-13
				2315 - 2316	-28.790	-13
				2316 - 2320	-22.640	-13
				2320 - 2324	-29.419	-25
				2324 - 2328	-35.454	-31
				2328 - 2337	-41.936	-37
				2337 - 2341	-52.853	-31
				2341 - 2345	-52.849	-25
				2345 - 2365	-52.524	-13
				Above 2365	-52.878	-40

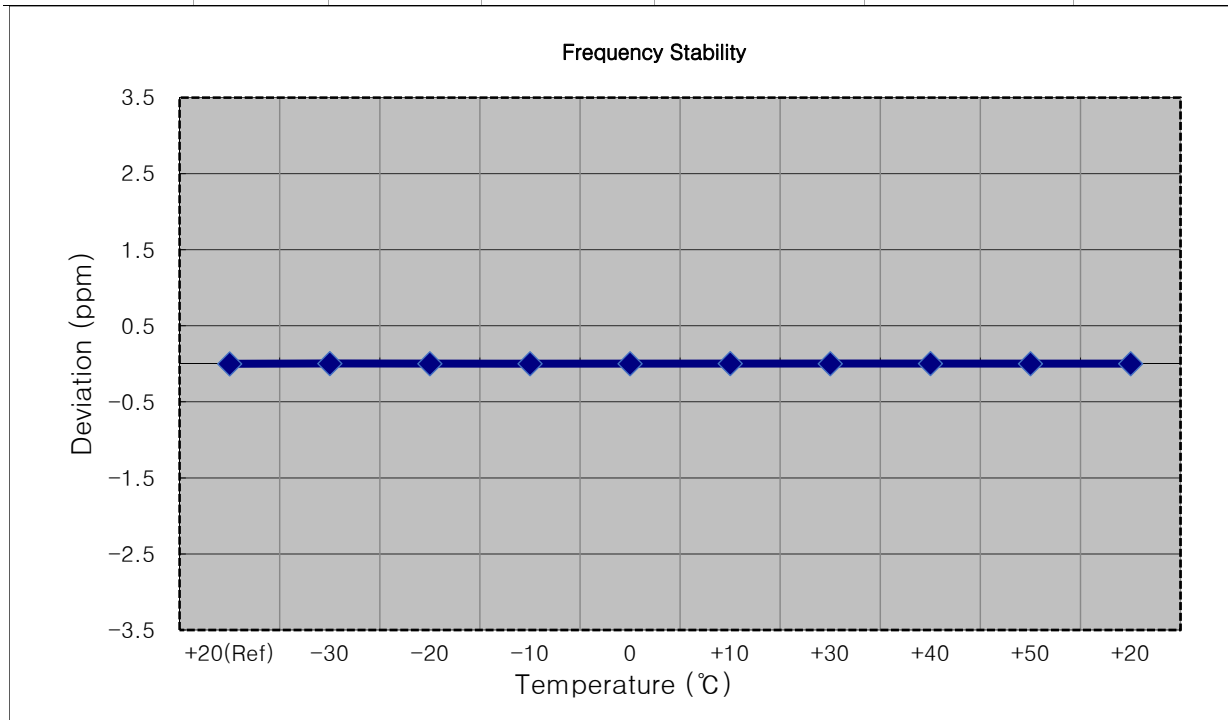
Band Width (MHz)	Frequency (MHz)	Modulation	RB (Size/ Offset)	Frequency Range (MHz)	Maximum Data (dBm)	Limit (dBm)
5	2307.5	QPSK	1/0	Below 2288	-53.082	-40
				2288 - 2292	-52.932	-37
				2292 - 2296	-51.023	-31
				2296 - 2300	-47.816	-25
				2300 - 2304	-31.183	-13
				2304 - 2305	-21.955	-13
			1/24	2315 - 2320	-49.457	-13
				2320 - 2324	-52.352	-25
				2324 - 2328	-52.555	-31
				2328 - 2337	-52.800	-37
				2337 - 2341	-52.797	-31
				2341 - 2345	-52.786	-25
				2345 - 2365	-52.583	-13
				Above 2365	-52.799	-40
	2310.0	QPSK	1/0	Below 2288	-53.071	-40
				2288 - 2292	-52.969	-37
				2292 - 2296	-52.504	-31
				2296 - 2300	-46.477	-25
				2300 - 2305	-44.157	-13
			1/24	2315 - 2320	-45.308	-13
				2320 - 2324	-49.176	-25
				2324 - 2328	-52.423	-31
				2328 - 2337	-52.772	-37
				2337 - 2341	-52.794	-31
				2341 - 2345	-52.794	-25
				2345 - 2365	-52.475	-13
				Above 2365	-52.810	-40
	2312.5	QPSK	1/0	Below 2288	-53.081	-40
				2288 - 2292	-53.024	-37
				2292 - 2296	-52.752	-31
				2296 - 2300	-52.057	-25
				2300 - 2305	-48.597	-13
			1/24	2315 - 2316	-21.694	-13

10	2310.0	QPSK		2316 - 2320	-33.379	-13
				2320 - 2324	-49.151	-25
				2324 - 2328	-51.121	-31
				2328 - 2337	-52.707	-37
				2337 - 2341	-52.797	-31
				2341 - 2345	-52.779	-25
				2345 - 2365	-52.472	-13
				Above 2365	-52.804	-40
			1/0	Below 2288	-53.093	-40
				2288 - 2292	-52.890	-37
				2292 - 2296	-51.566	-31
				2296 - 2300	-48.130	-25
				2300 - 2304	-36.948	-13
				2304 - 2305	-31.193	-13
			1/49	2315 - 2316	-30.895	-13
				2316 - 2320	-39.474	-13
				2320 - 2324	-49.959	-25
				2324 - 2328	-51.348	-31
				2328 - 2337	-52.700	-37
				2337 - 2341	-52.812	-31
				2341 - 2345	-52.804	-25
				2345 - 2365	-52.483	-13
				Above 2365	-52.838	-40

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

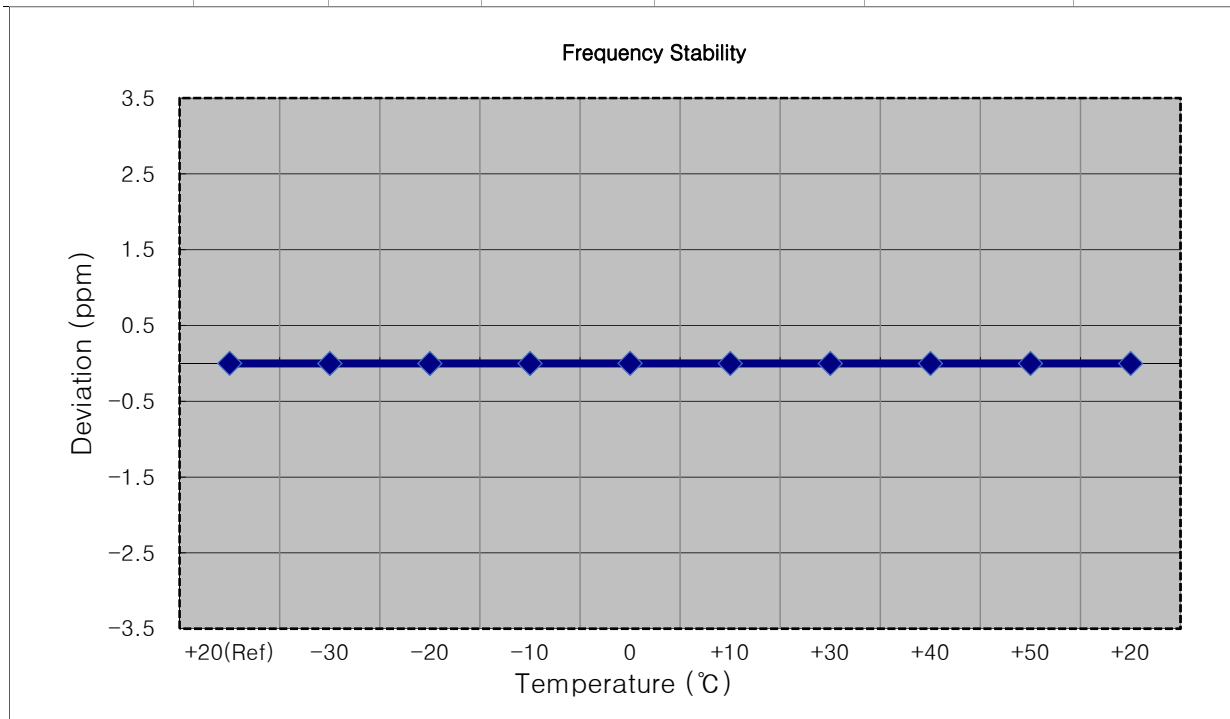
MODE:	<u>LTE B30</u>
OPERATING FREQUENCY:	<u>2307,500,000 Hz</u>
CHANNEL:	<u>27685 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.880 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.880	+20(Ref)	2307 500 006	0.00	0.000 000	0.0000
100 %		-30	2307 500 014	7.60	0.000 000	0.0033
100 %		-20	2307 500 013	6.10	0.000 000	0.0026
100 %		-10	2307 500 013	6.20	0.000 000	0.0027
100 %		0	2307 500 011	4.70	0.000 000	0.0020
100 %		+10	2307 500 014	8.00	0.000 000	0.0035
100 %		+30	2307 500 013	6.30	0.000 000	0.0027
100 %		+40	2307 500 014	7.80	0.000 000	0.0034
100 %		+50	2307 500 013	6.20	0.000 000	0.0027
Batt. Endpoint	3.300	+20	2307 500 012	5.50	0.000 000	0.0024



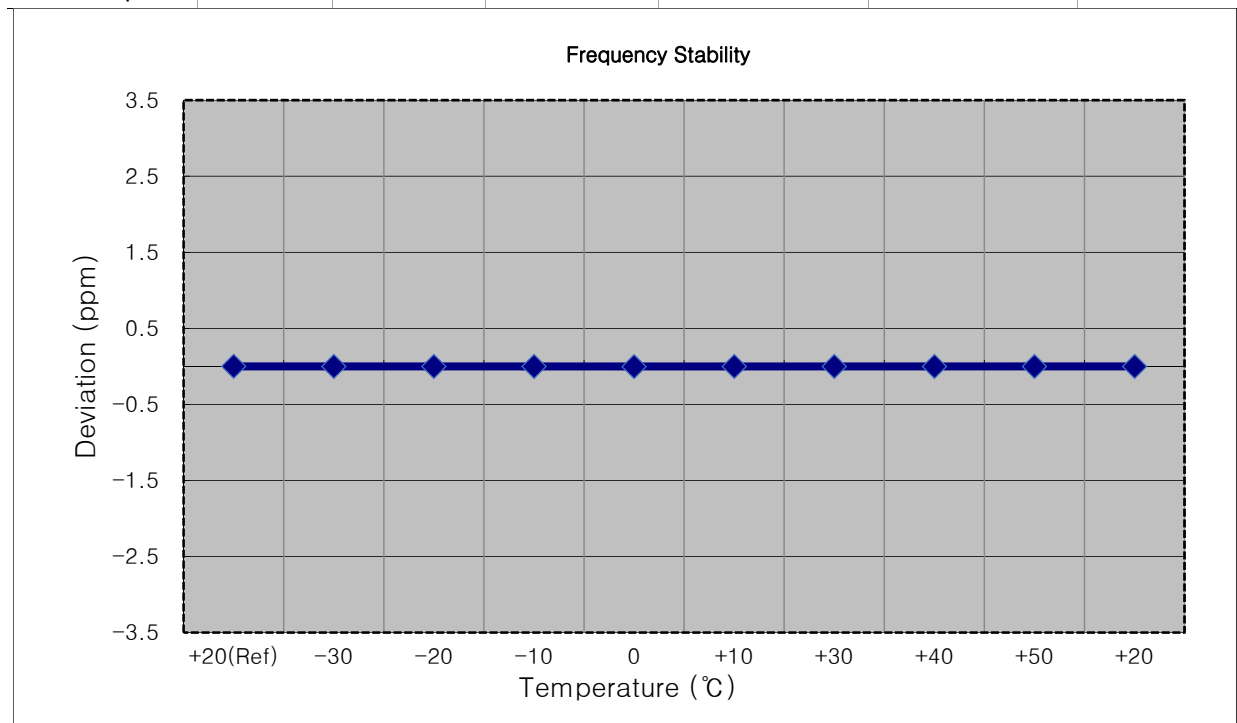
MODE:	<u>LTE B30</u>
OPERATING FREQUENCY:	<u>2310,000,000 Hz</u>
BANDWIDTH:	<u>27710 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.880 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.880	+20(Ref)	2309 999 997	0.00	0.000 000	0.0000
100 %		-30	2309 999 993	-4.30	0.000 000	-0.0019
100 %		-20	2309 999 994	-2.80	0.000 000	-0.0012
100 %		-10	2309 999 991	-5.90	0.000 000	-0.0026
100 %		0	2309 999 995	-1.40	0.000 000	-0.0006
100 %		+10	2309 999 993	-4.00	0.000 000	-0.0017
100 %		+30	2309 999 993	-3.60	0.000 000	-0.0016
100 %		+40	2309 999 994	-2.60	0.000 000	-0.0011
100 %		+50	2309 999 994	-3.30	0.000 000	-0.0014
Batt. Endpoint	3.300	+20	2309 999 992	-4.60	0.000 000	-0.0020



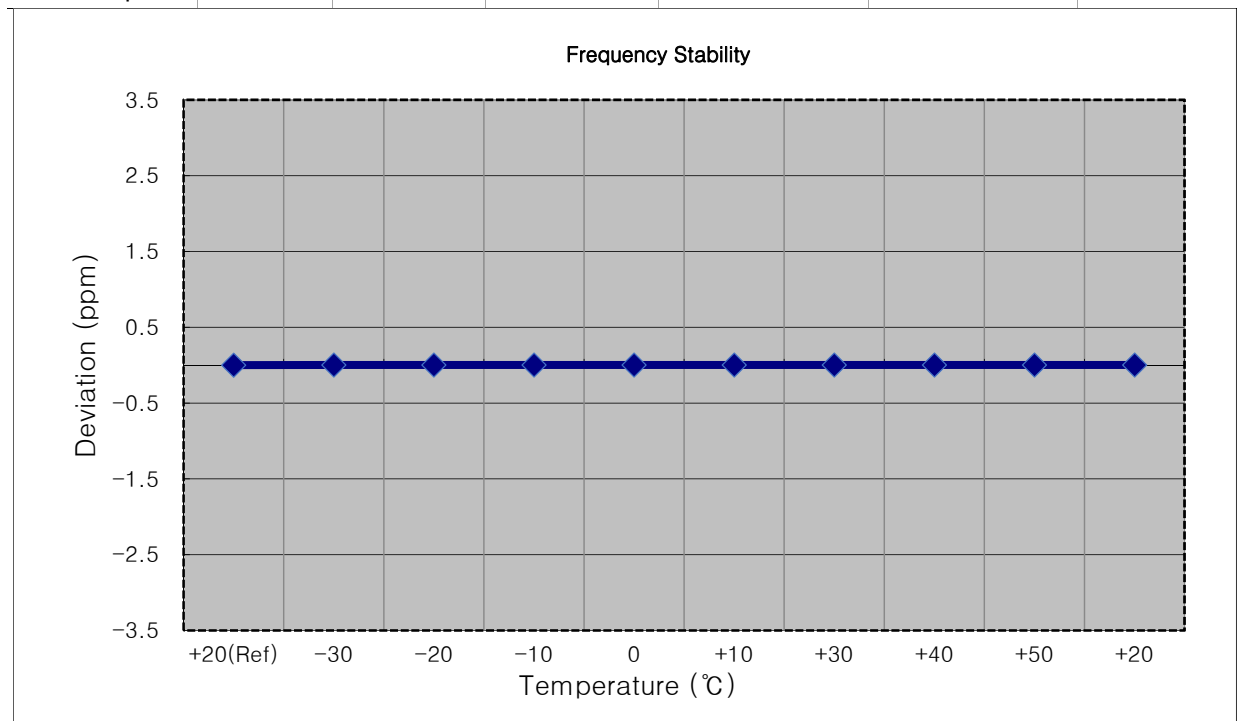
MODE:	<u>LTE B30</u>
OPERATING FREQUENCY:	<u>2312,500,000 Hz</u>
BANDWIDTH:	<u>27735 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.880 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.880	+20(Ref)	2312 499 996	0.00	0.000 000	0.0000
100 %		-30	2312 499 992	-3.60	0.000 000	-0.0016
100 %		-20	2312 499 992	-4.30	0.000 000	-0.0019
100 %		-10	2312 499 992	-3.90	0.000 000	-0.0017
100 %		0	2312 499 989	-7.30	0.000 000	-0.0032
100 %		+10	2312 499 991	-5.20	0.000 000	-0.0022
100 %		+30	2312 499 990	-5.60	0.000 000	-0.0024
100 %		+40	2312 499 990	-5.70	0.000 000	-0.0025
100 %		+50	2312 499 991	-5.00	0.000 000	-0.0022
Batt. Endpoint	3.300	+20	2312 499 991	-5.30	0.000 000	-0.0023



MODE:	<u>LTE B30</u>
OPERATING FREQUENCY:	<u>2310,000,000 Hz</u>
BANDWIDTH:	<u>27710 (10 MHz)</u>
REFERENCE VOLTAGE:	<u>3.880 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

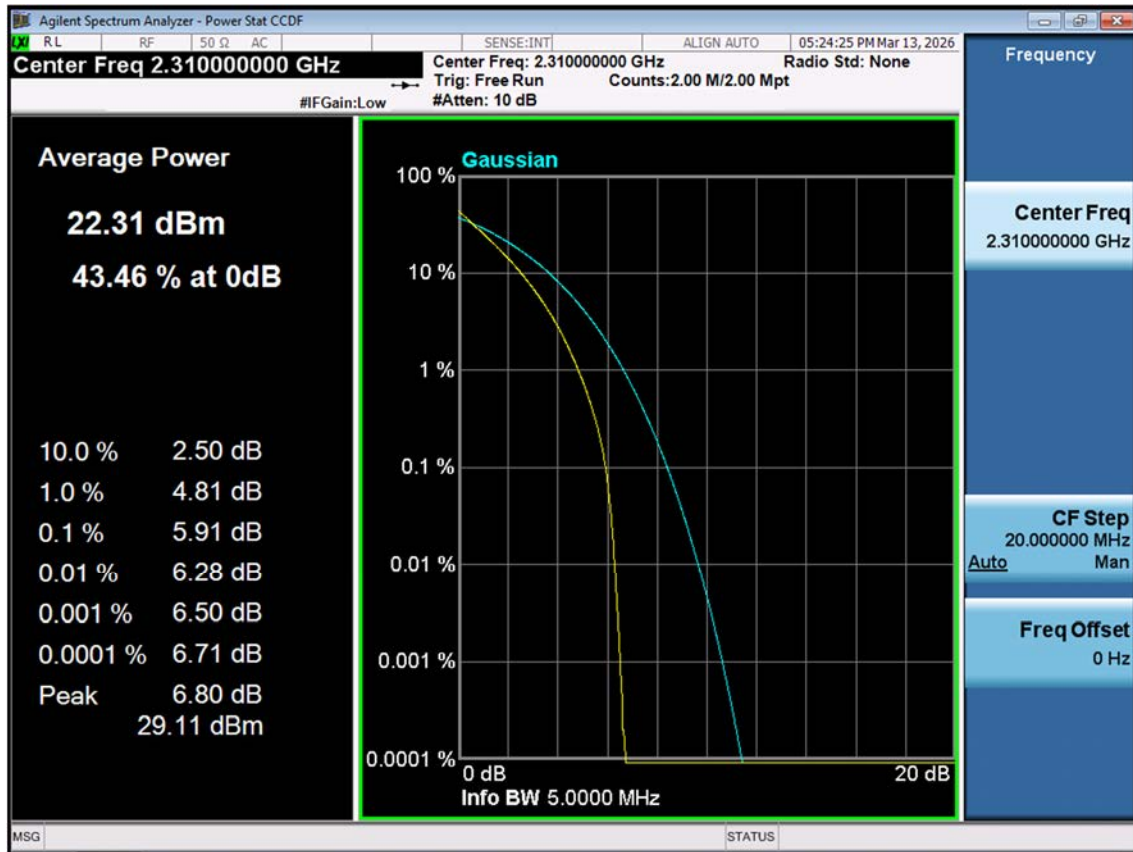
Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.880	+20(Ref)	2310 000 002	0.00	0.000 000	0.0000
100 %		-30	2310 000 006	4.60	0.000 000	0.0020
100 %		-20	2310 000 007	5.00	0.000 000	0.0022
100 %		-10	2310 000 007	4.70	0.000 000	0.0020
100 %		0	2310 000 005	3.20	0.000 000	0.0014
100 %		+10	2310 000 005	2.80	0.000 000	0.0012
100 %		+30	2310 000 005	2.90	0.000 000	0.0013
100 %		+40	2310 000 005	3.60	0.000 000	0.0016
100 %		+50	2310 000 006	4.20	0.000 000	0.0018
Batt. Endpoint	3.300	+20	2310 000 005	3.60	0.000 000	0.0016



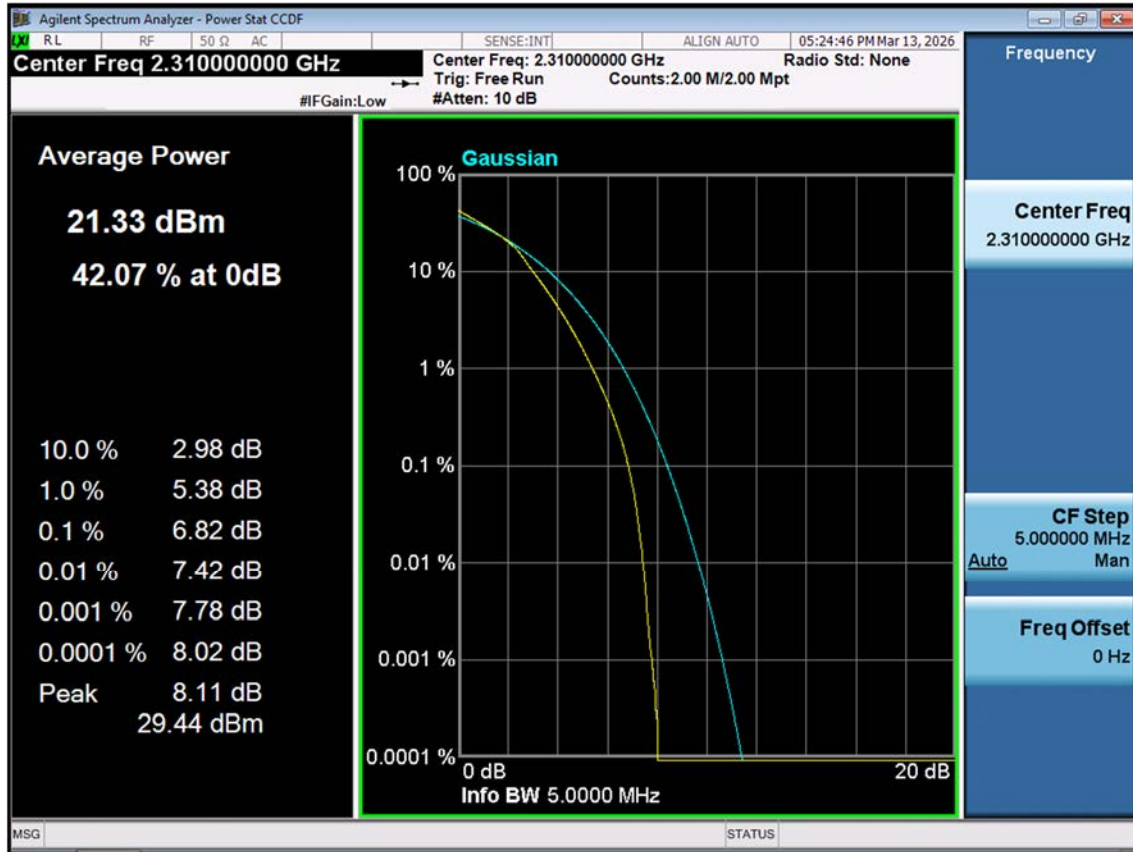
9. TEST PLOTS

9.1 PEAK-TO-AVERAGE RATIO

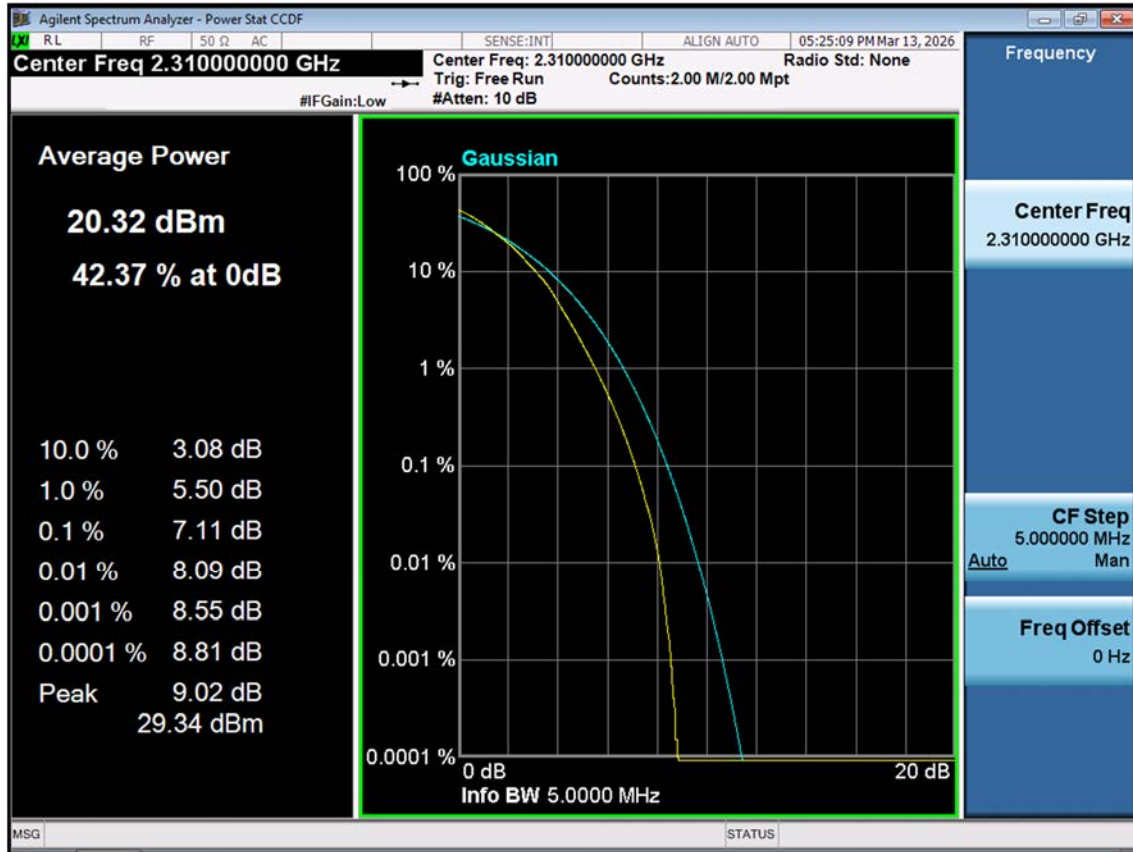
LTE B30_5 M_PAR_Mid_QPSK_FullRB



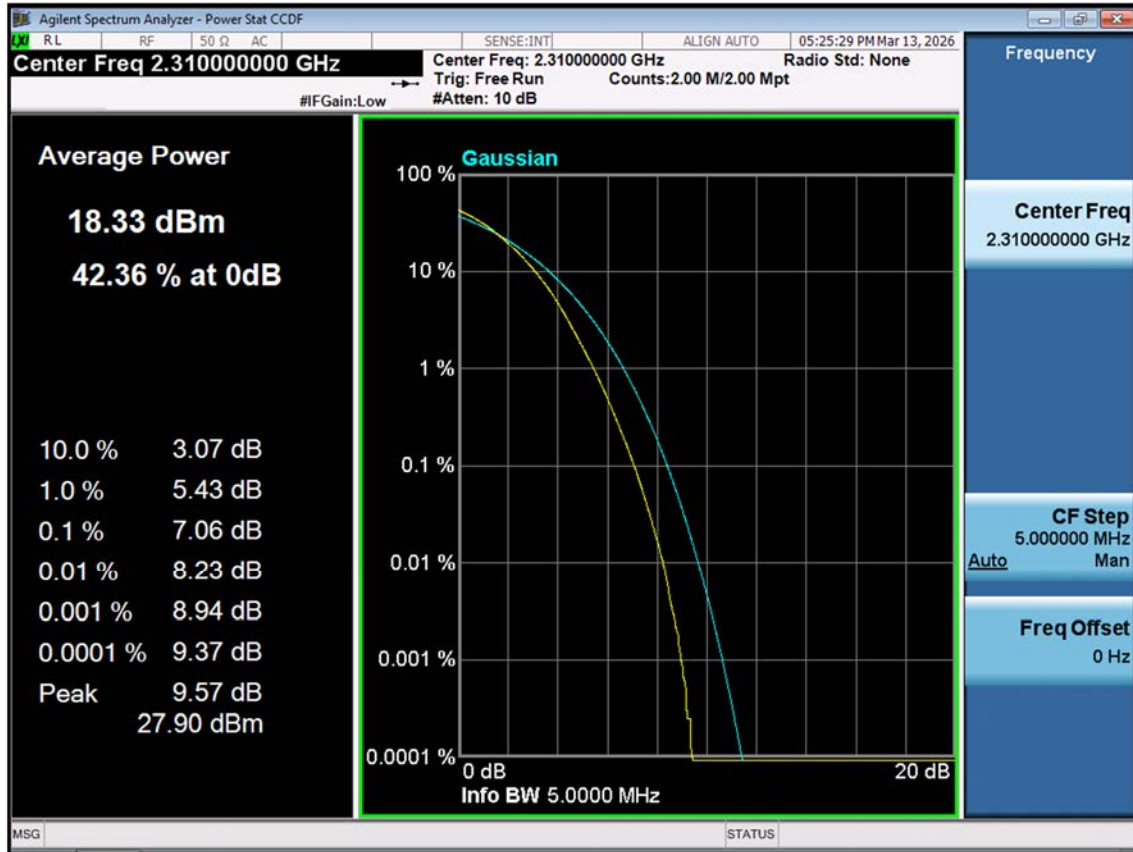
LTE B30_5 M_PAR_Mid_16QAM_FullRB



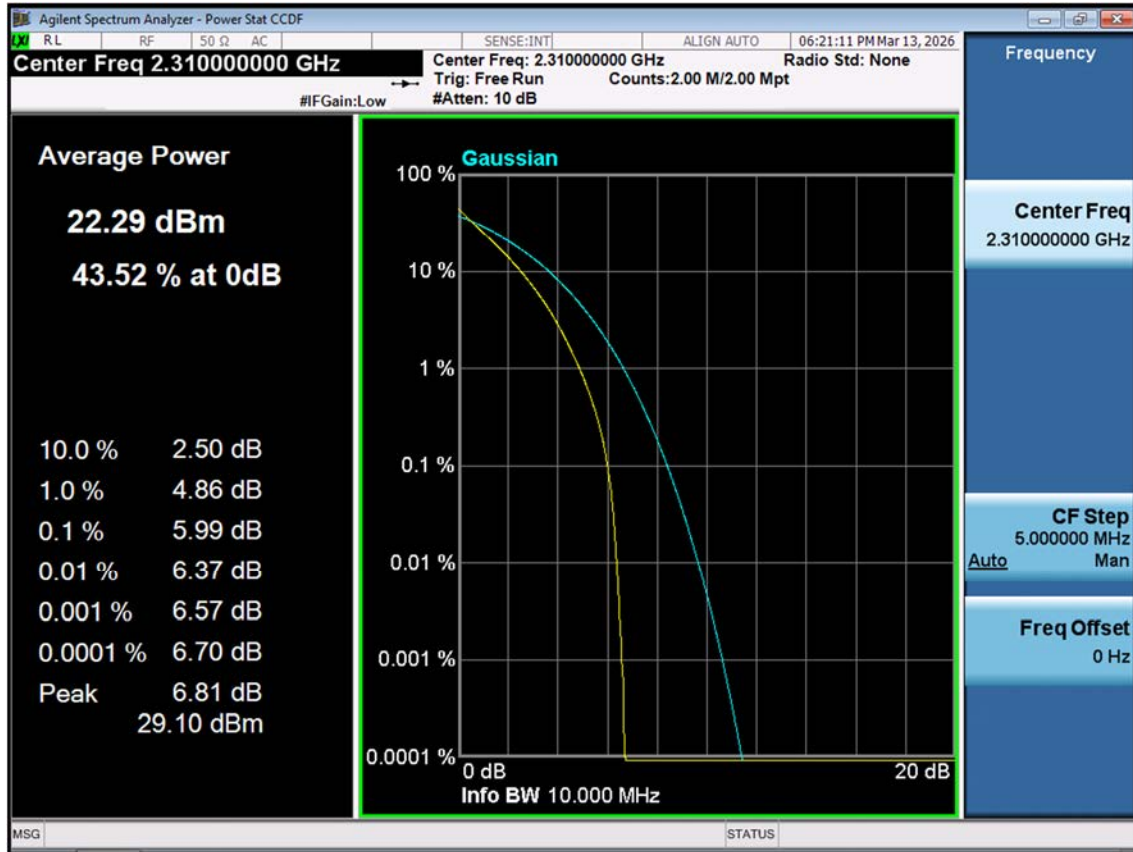
LTE B30_5 M_PAR_Mid_64QAM_FullRB



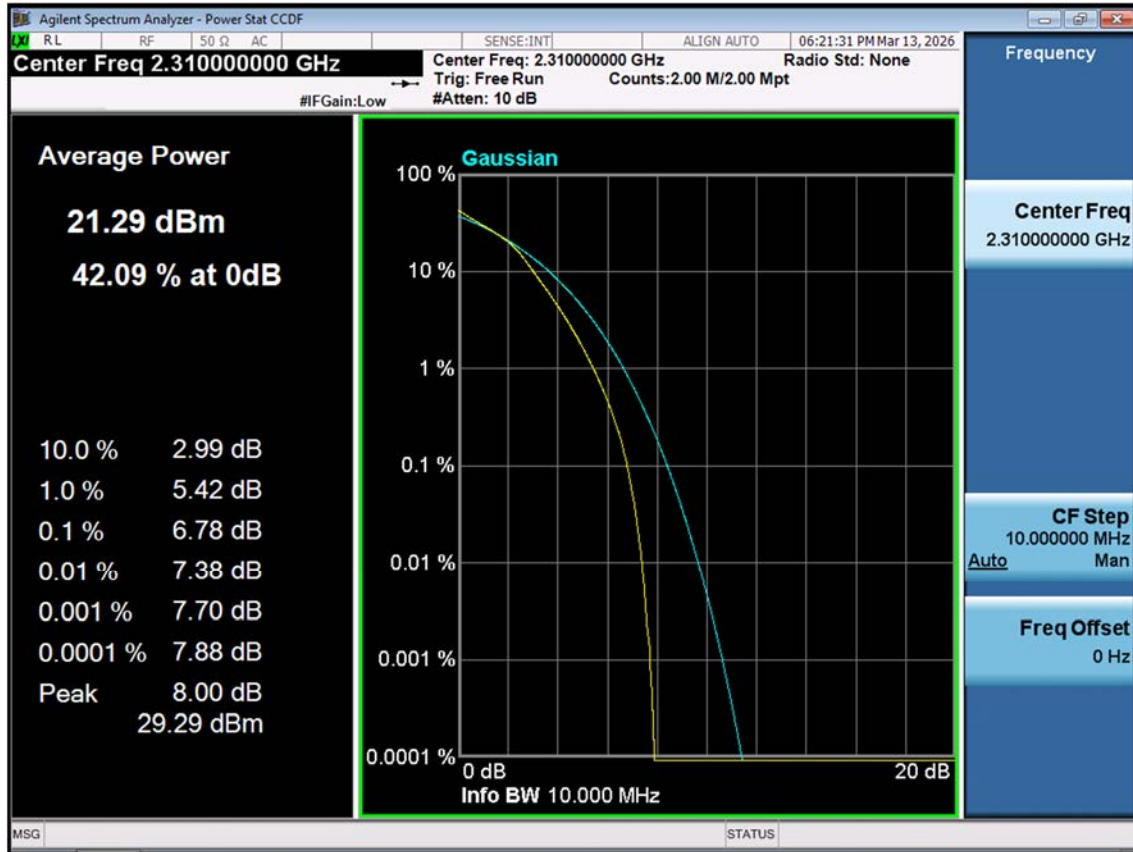
LTE B30_5 M_PAR_Mid_256QAM_FullRB



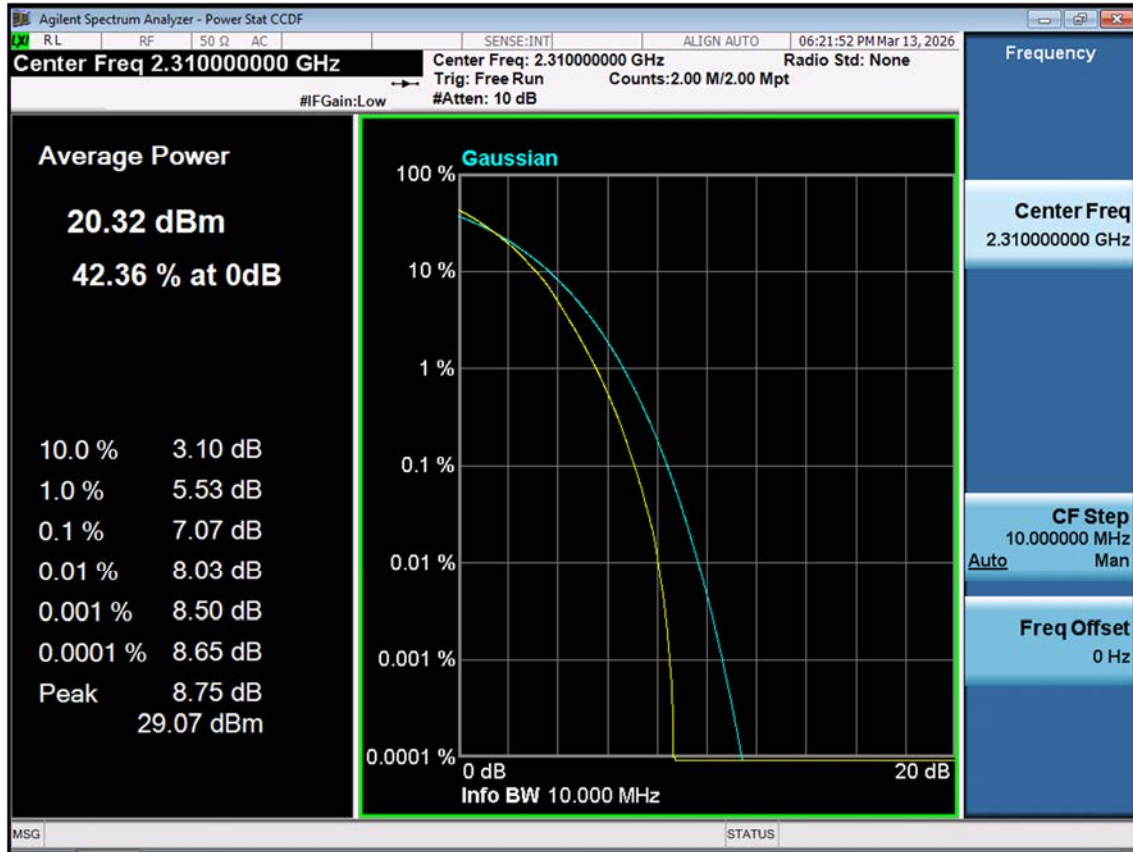
LTE B30_10 M_PAR_Low_QPSK_FullRB



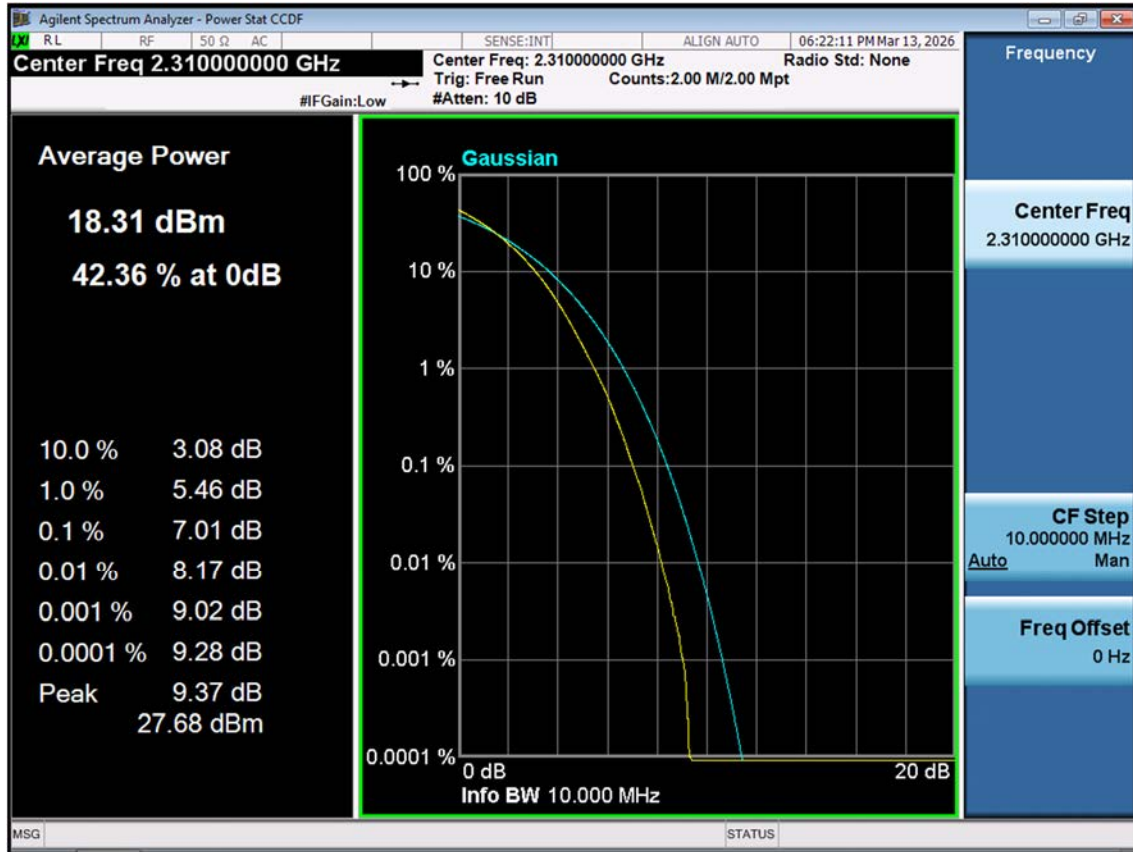
LTE B30_10 M_PAR_Low_16QAM_FullIRB



LTE B30_10 M_PAR_Low_64QAM_FullIRB

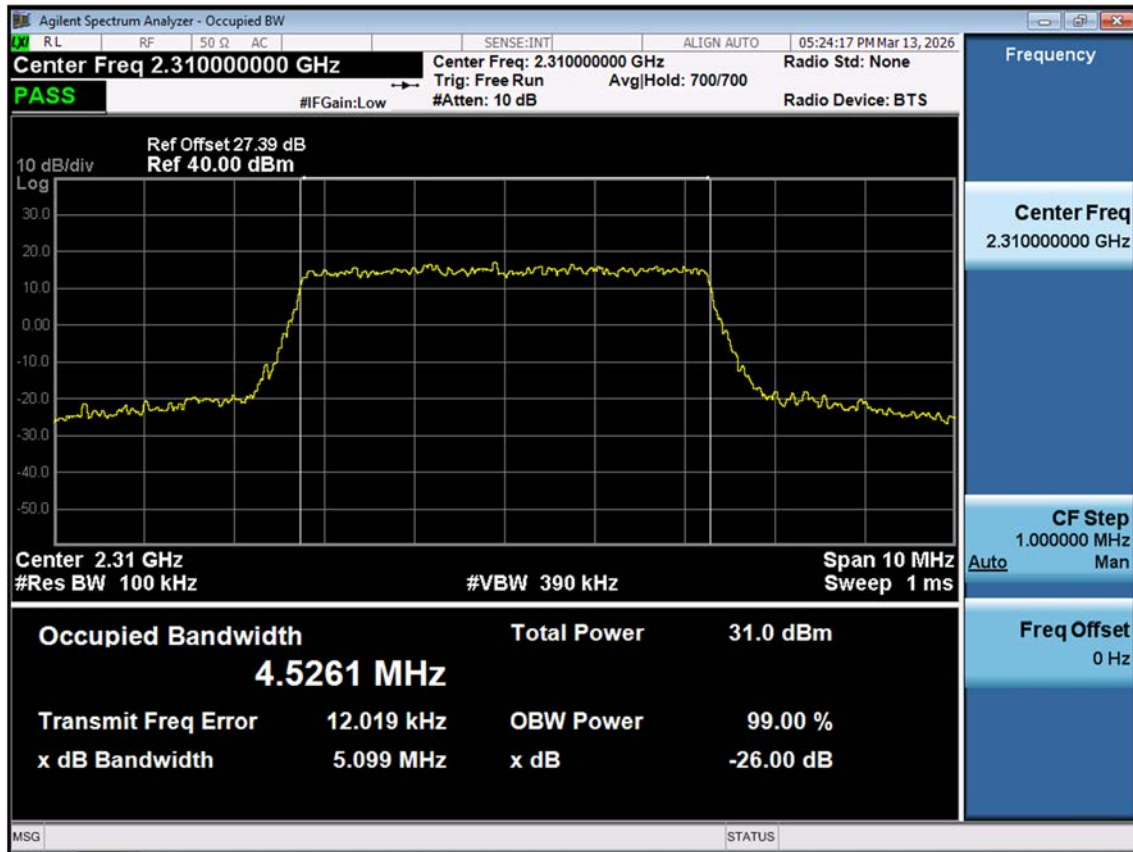


LTE B30_10 M_PAR_Low_256QAM_FullRB

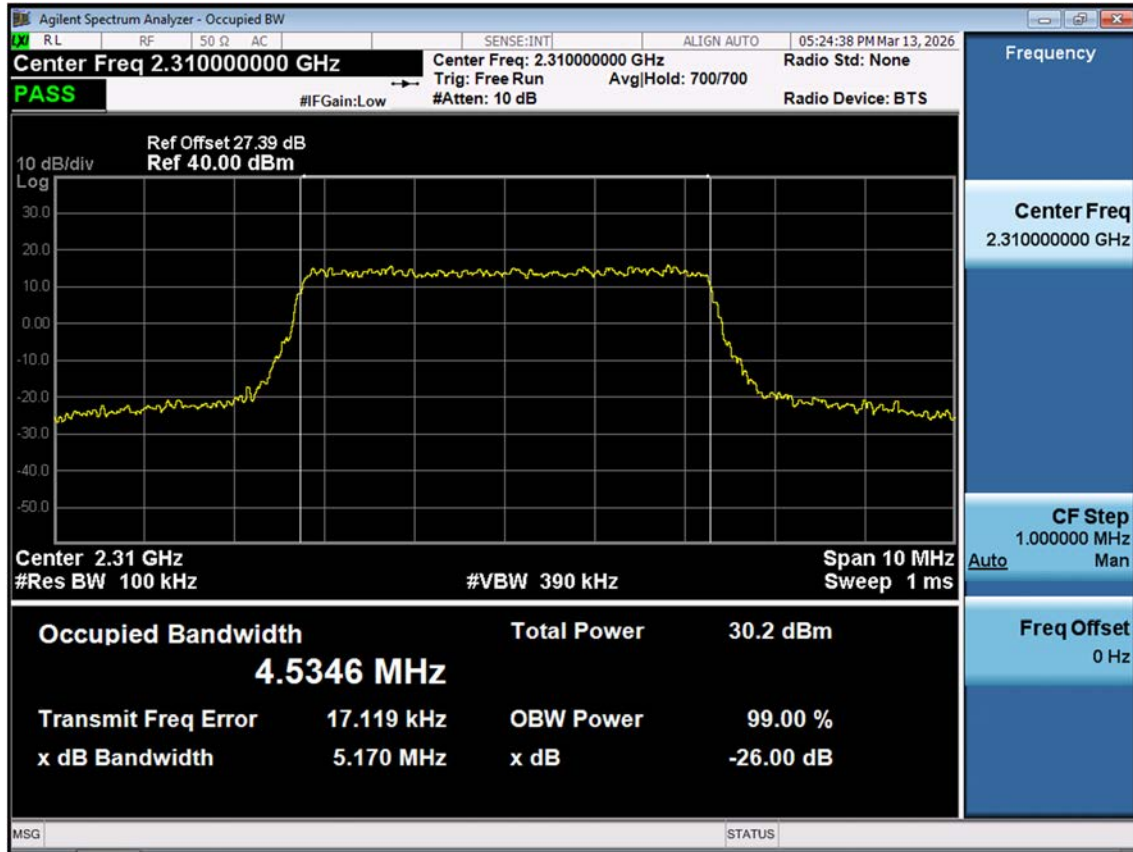


9.2 OCCUPIED BANDWIDTH

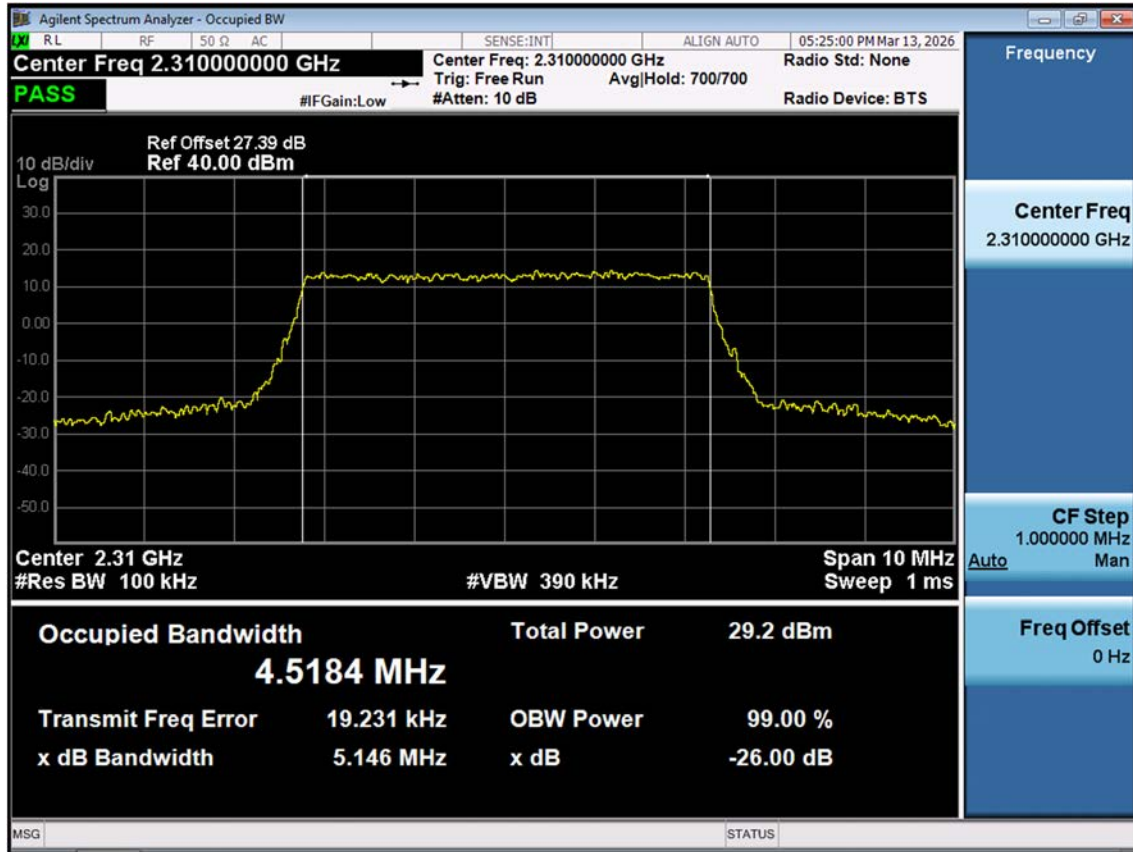
LTE B30_5 M_OBW_Mid_QPSK_FullRB



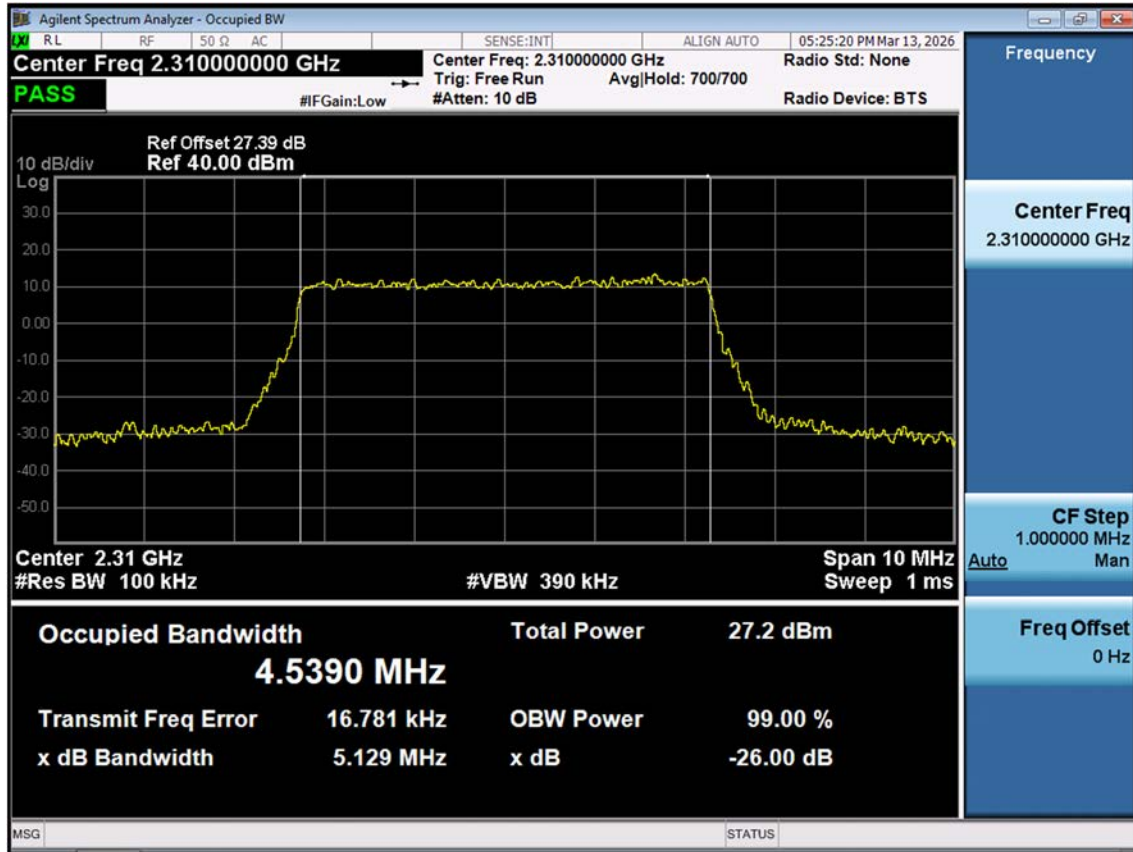
LTE B30_5 M_OBW_Mid_16QAM_FullRB



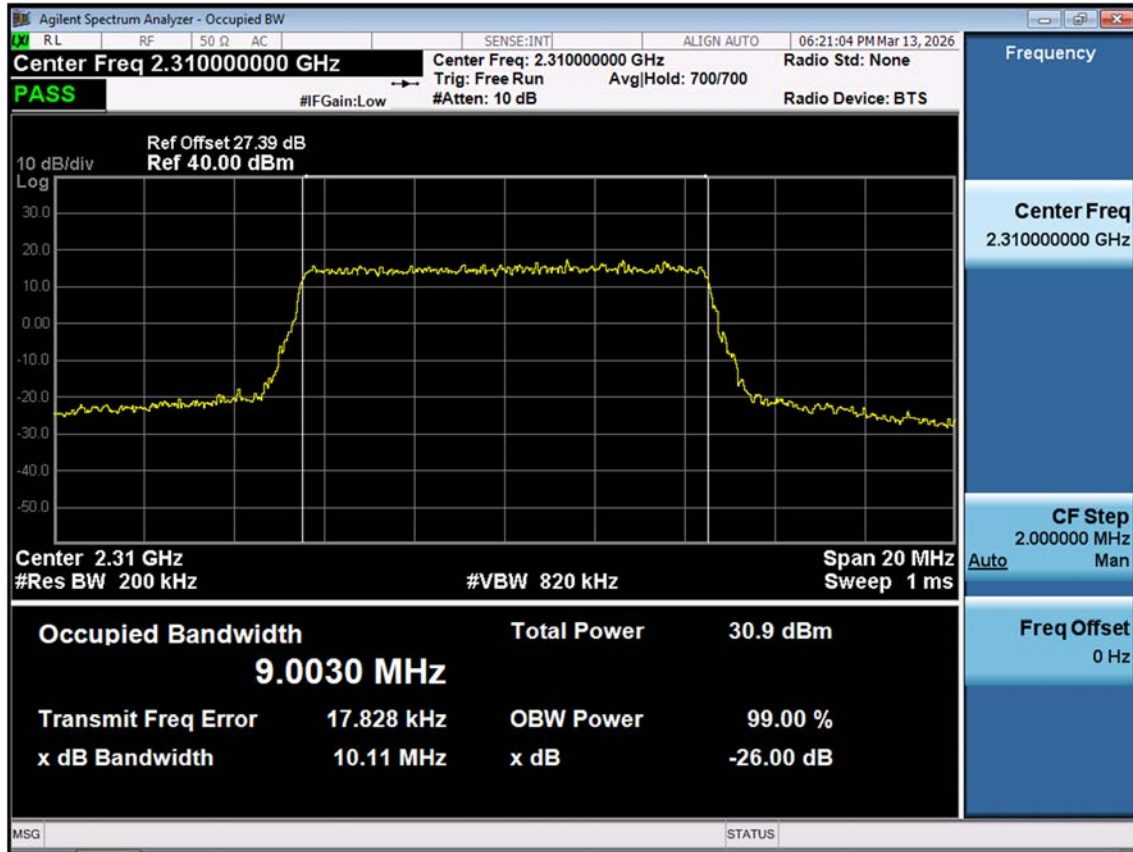
LTE B30_5 M_OBW_Mid_64QAM_FullRB



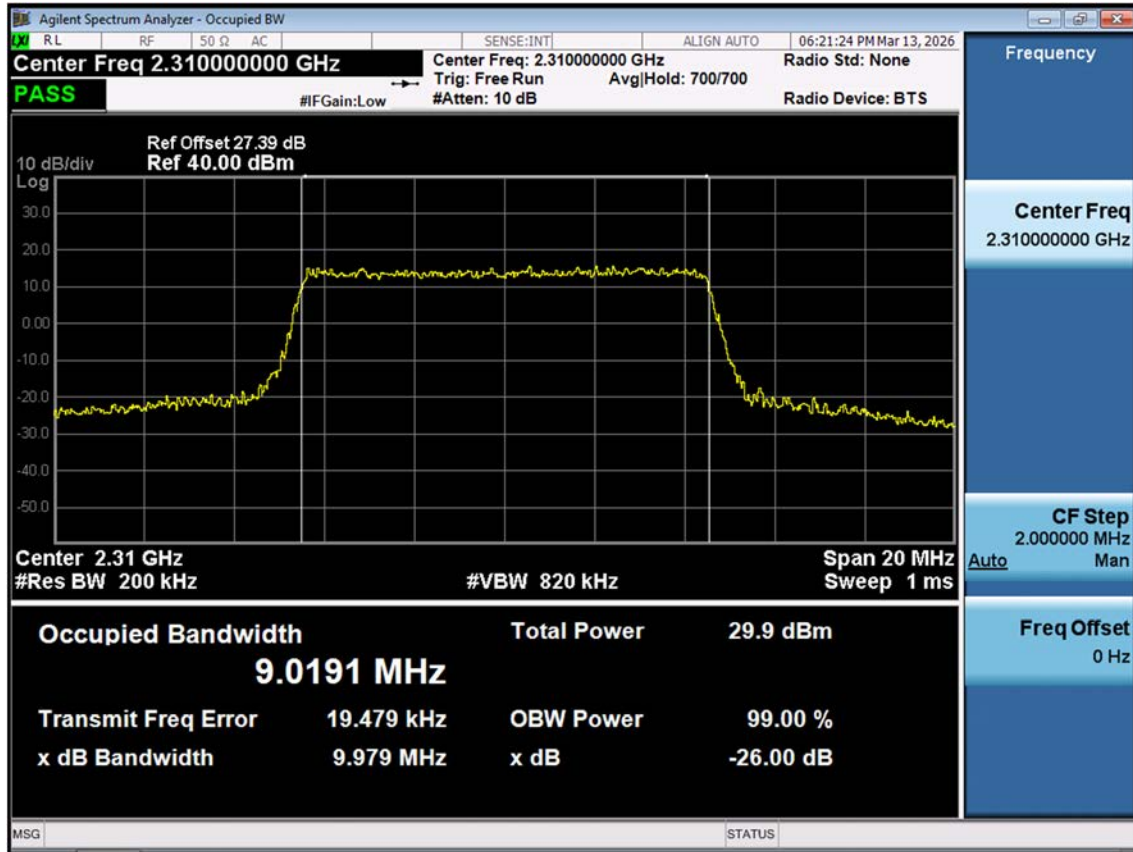
LTE B30_5 M_OBW_Mid_256QAM_FullRB



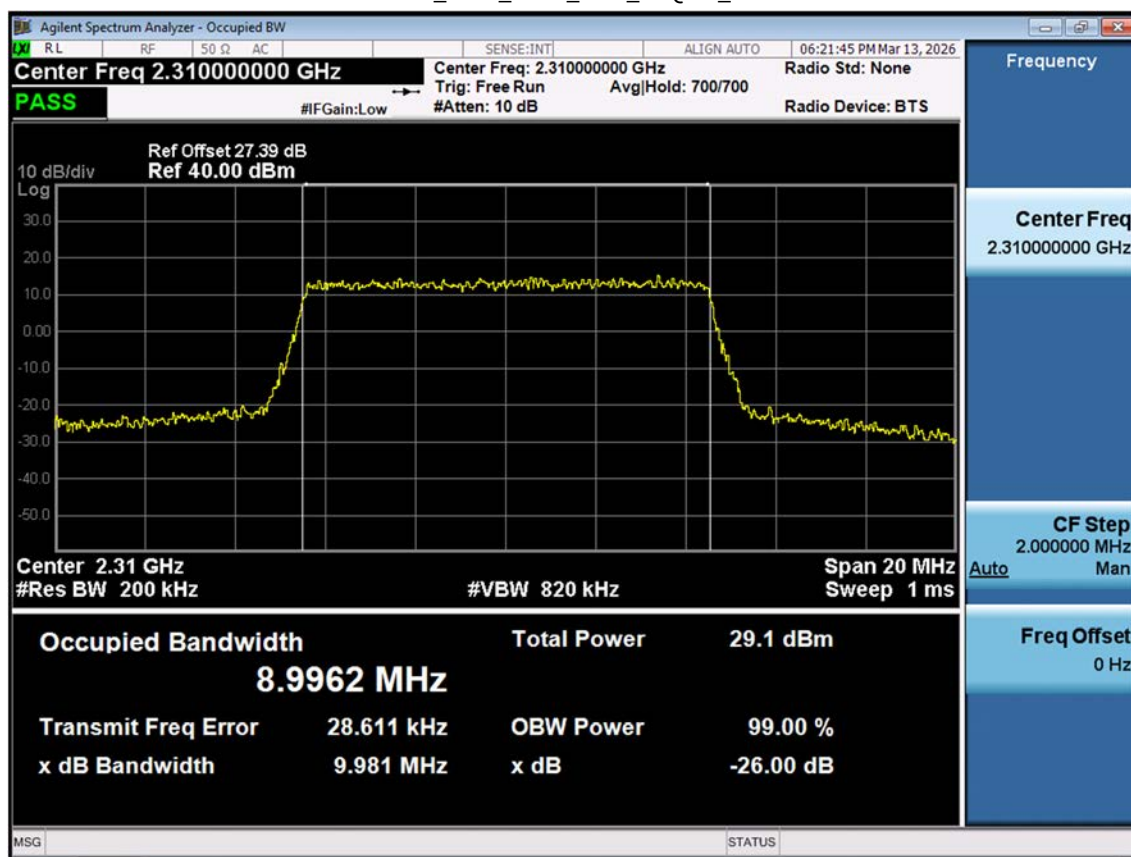
LTE B30_10 M_OBW_Low_QPSK_FullRB



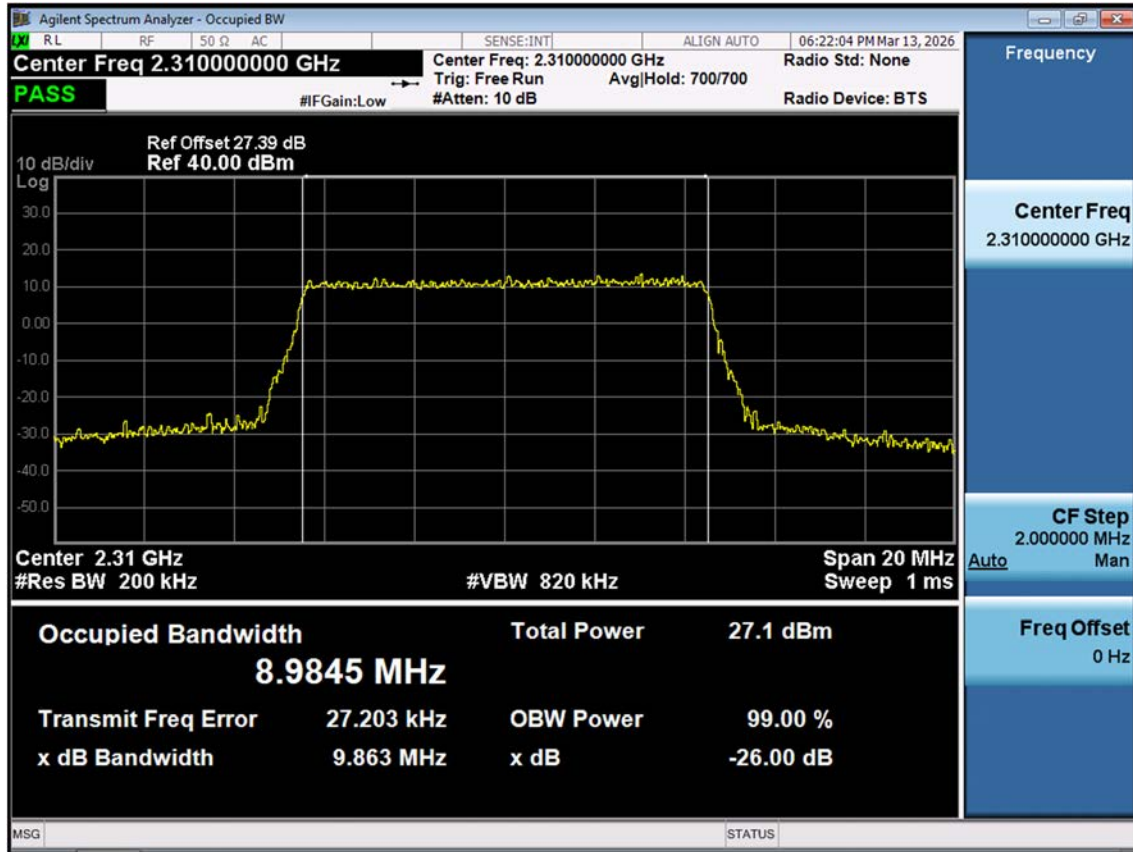
LTE B30_10 M_OBW_Low_16QAM_FullRB



LTE B30_10 M_OBW_Low_64QAM_FullRB

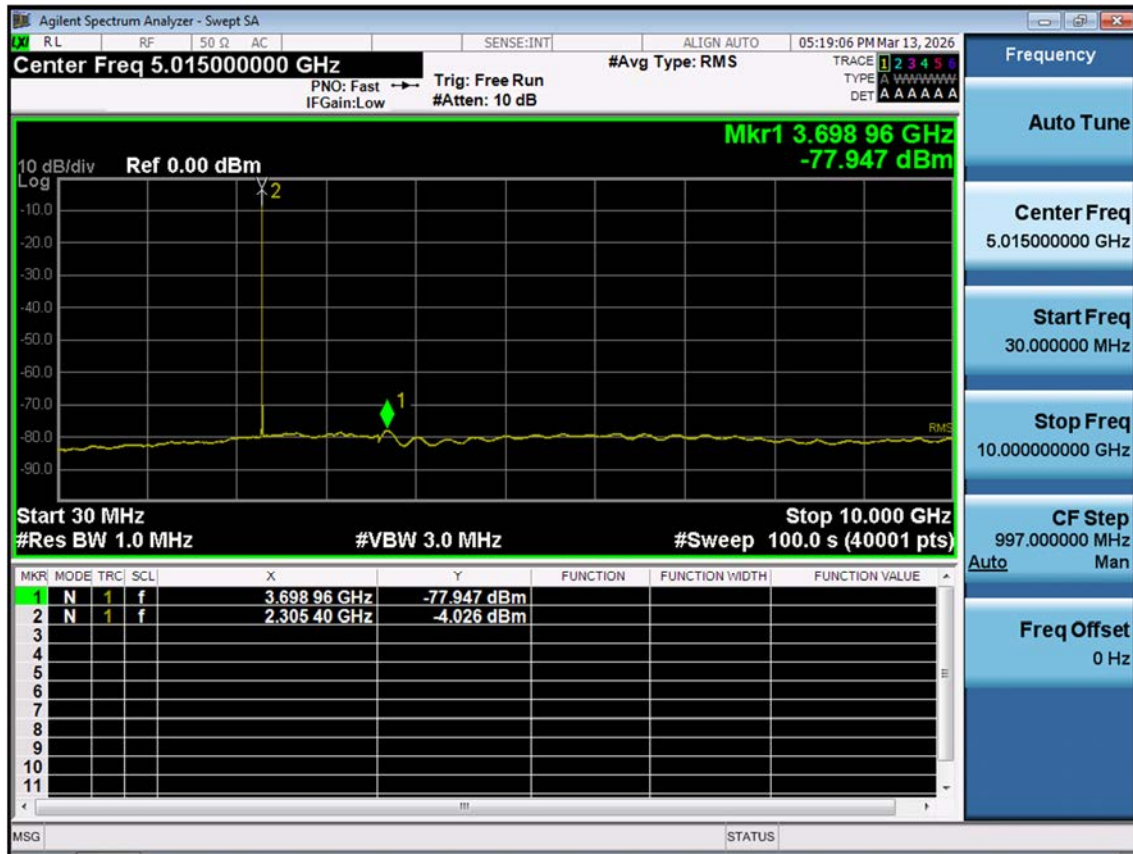


LTE B30_10 M_OBW_Low_256QAM_FullRB

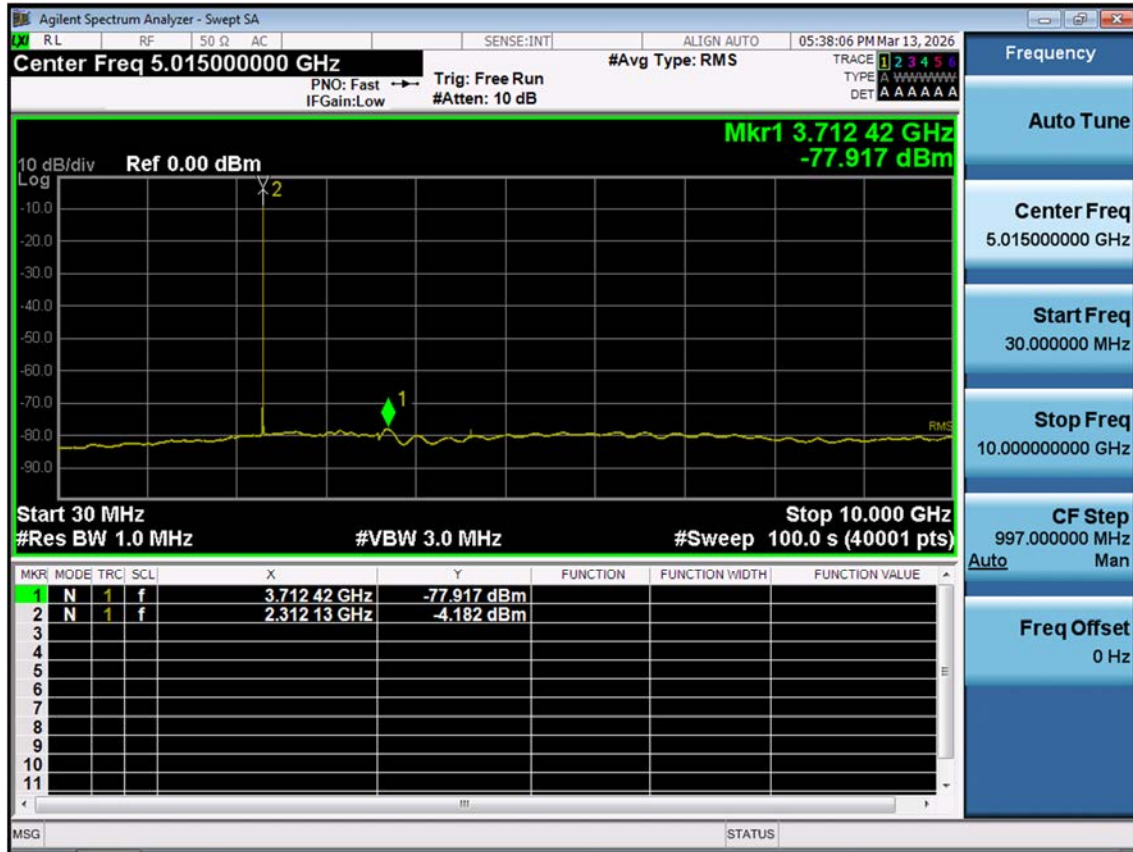


9.3 CONDUCTED SPURIOUS EMISSIONS

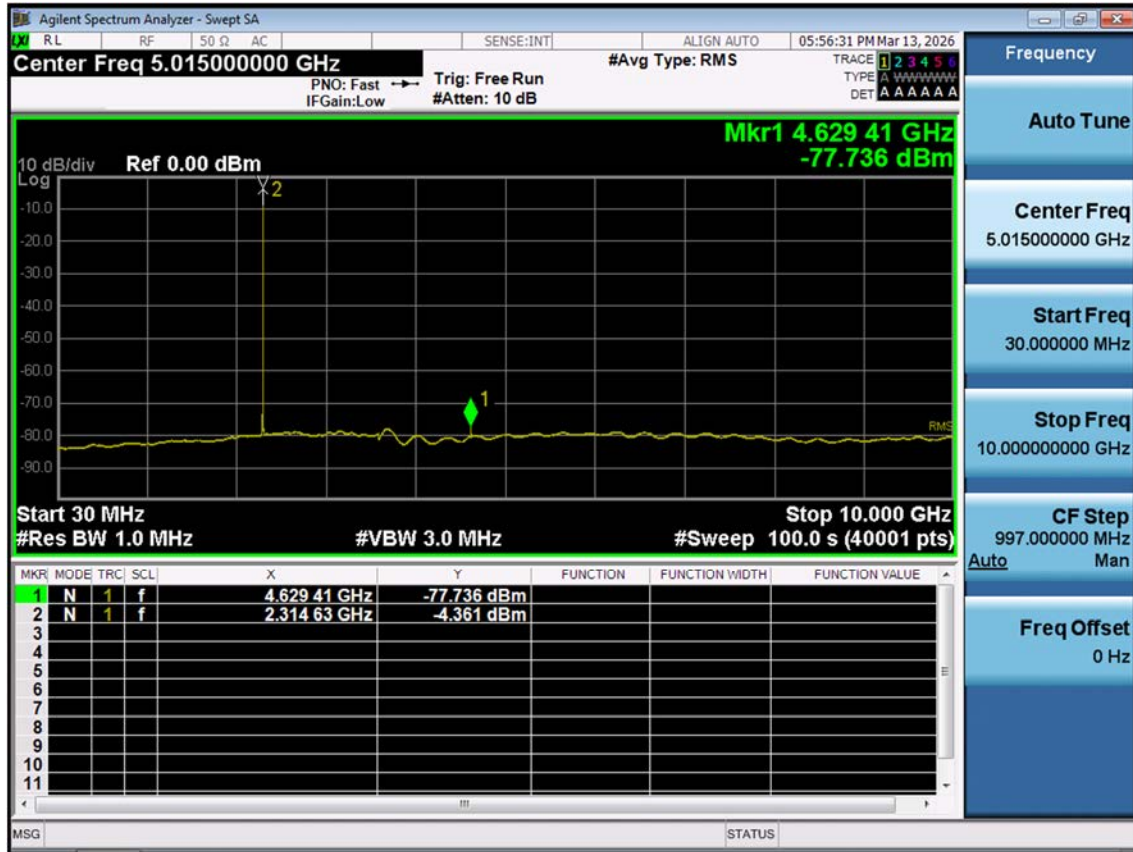
LTE B30_5 M_Conducted Spurious Emissions(30 M-10 G)_Low_QPSK_1RB



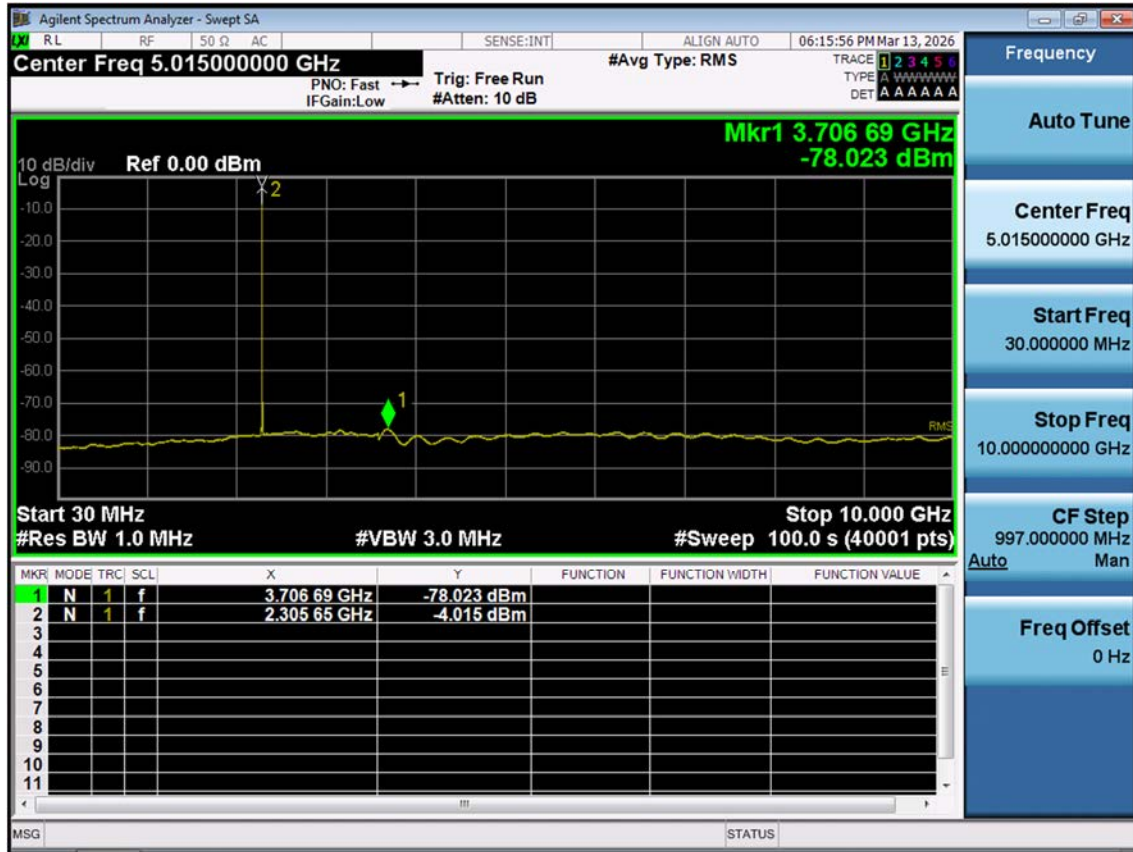
LTE B30_5 M_Conducted Spurious Emissions(30 M-10 G)_Mid_QPSK_1RB



LTE B30_5 M_Conducted Spurious Emissions(30 M-10 G)_High_QPSK_1RB



LTE B30_10 M_Conducted Spurious Emissions(30 M-10 G)_Low_QPSK_1RB



LTE B30_5 M_Conducted Spurious Emissions(Above10 G)_Low_QPSK_1RB



LTE B30_5 M_Conducted Spurious Emissions(Above10 G)_Mid_QPSK_1RB



LTE B30_5 M_Conducted Spurious Emissions(Above10 G)_High_QPSK_1RB

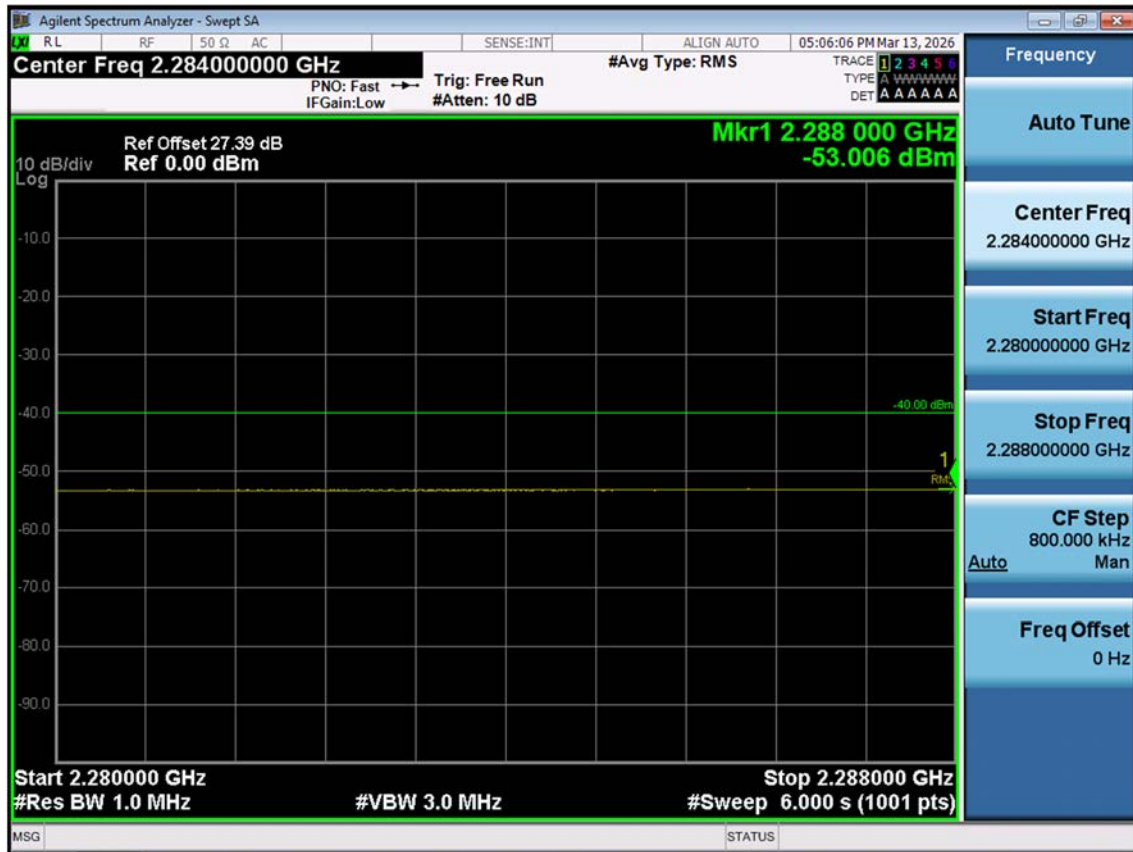


LTE B30_10 M_Conducted Spurious Emissions(Above10 G)_Low_QPSK_1RB



9.4 BAND EDGE

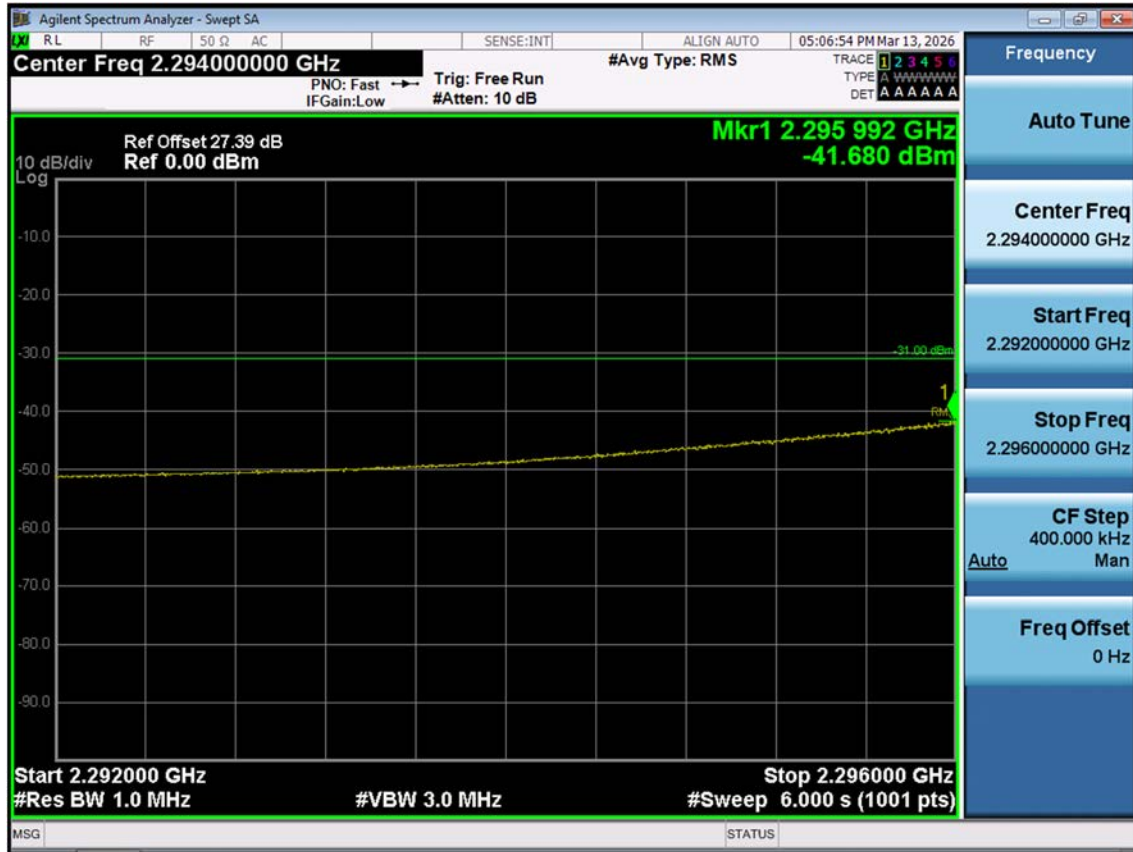
LTE B30_5 M_Band Edge(2280MHz-2288MHz)_Low_QPSK_FullRB



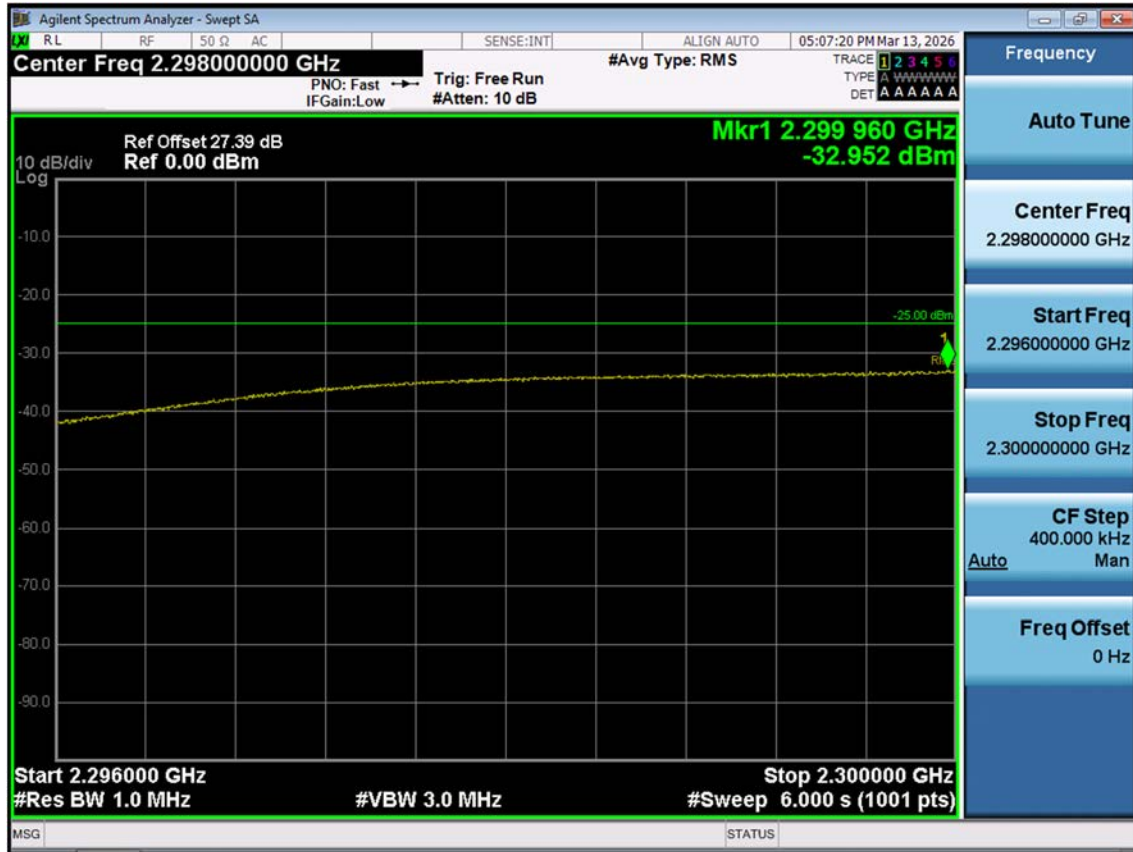
LTE B30_5 M_Band Edge(2288MHz-2292MHz)_Low_QPSK_FullRB



LTE B30_5 M_Band Edge(2292MHz-2296MHz)_Low_QPSK_FullRB



LTE B30_5 M_Band Edge(2296MHz-2300MHz)_Low_QPSK_FullRB



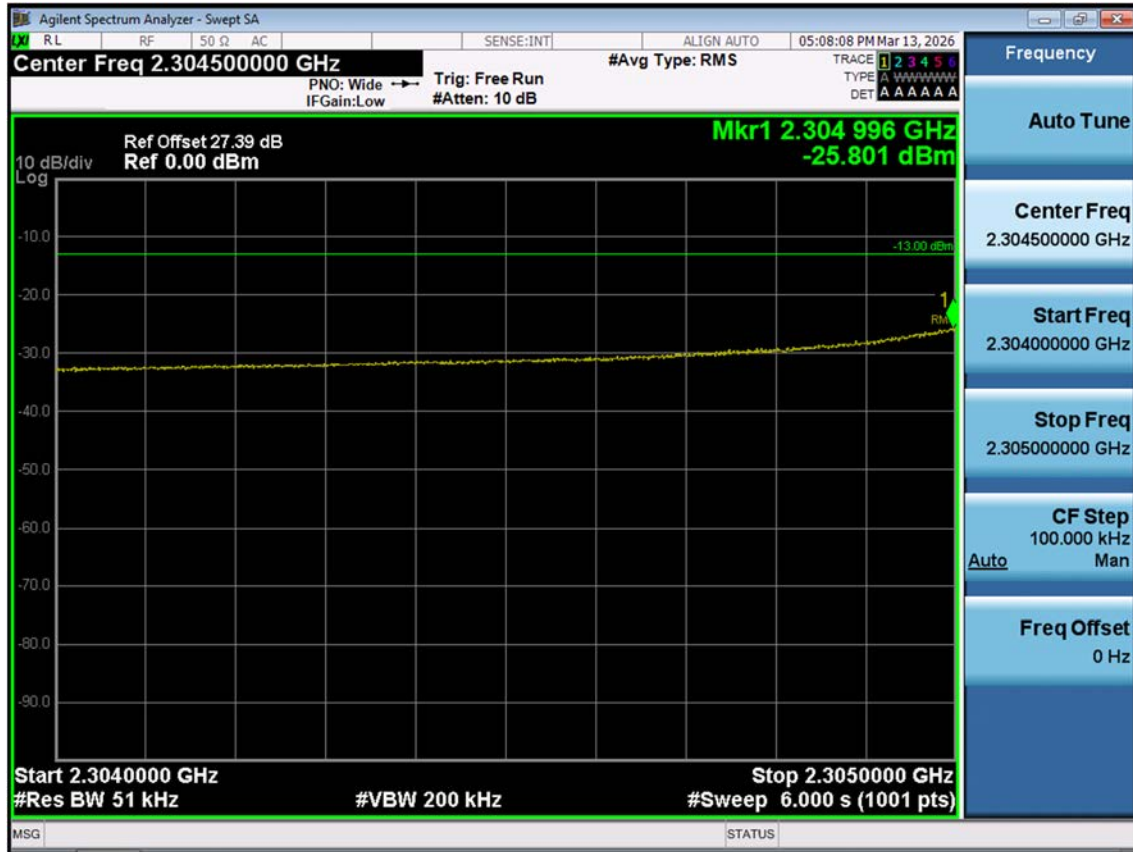
LTE B30_5 M_Band Edge(2300MHz-2304MHz)_Low_QPSK_FullRB



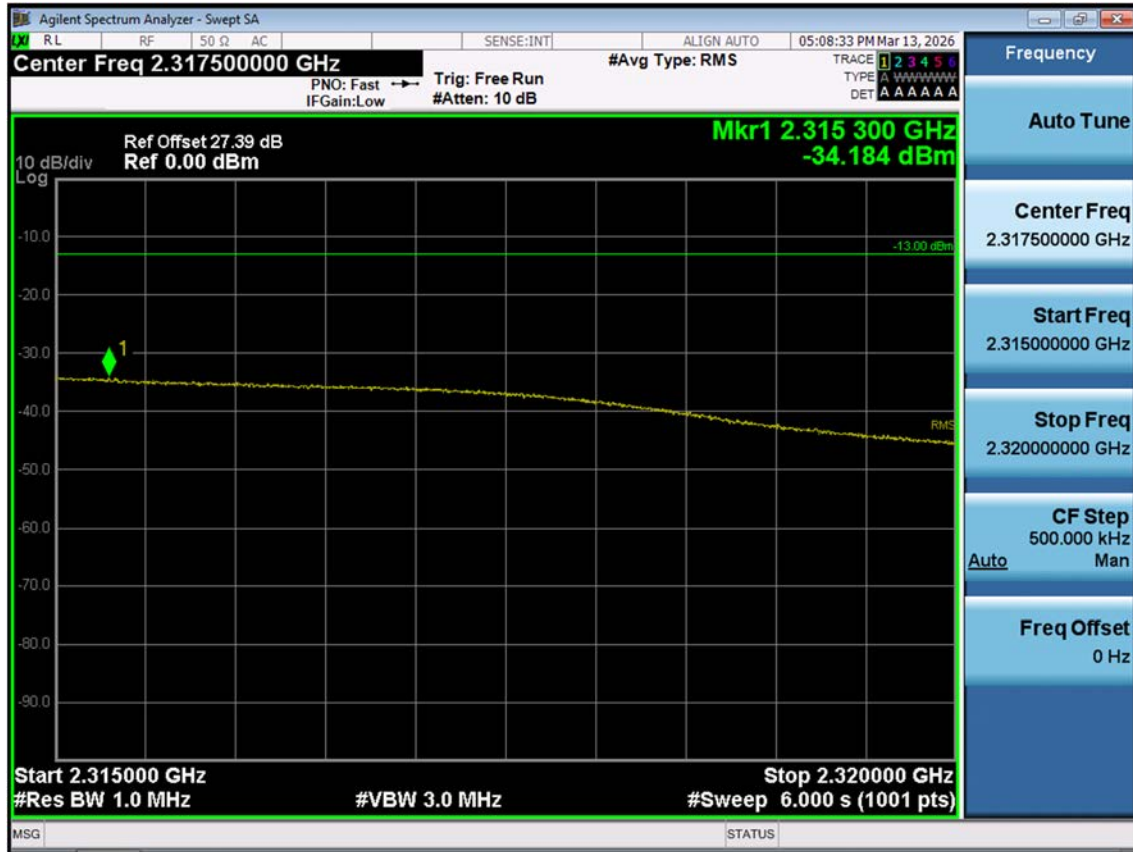
Note : We used a narrower RBW in order to increase accuracy.

Calculation = Reading Value + 10 x log(1 MHz/100 kHz) dB = -29.763 dBm + 10 dB = -19.763 dBm

LTE B30_5 M_Band Edge(2304MHz-2305MHz)_Low_QPSK_FullRB



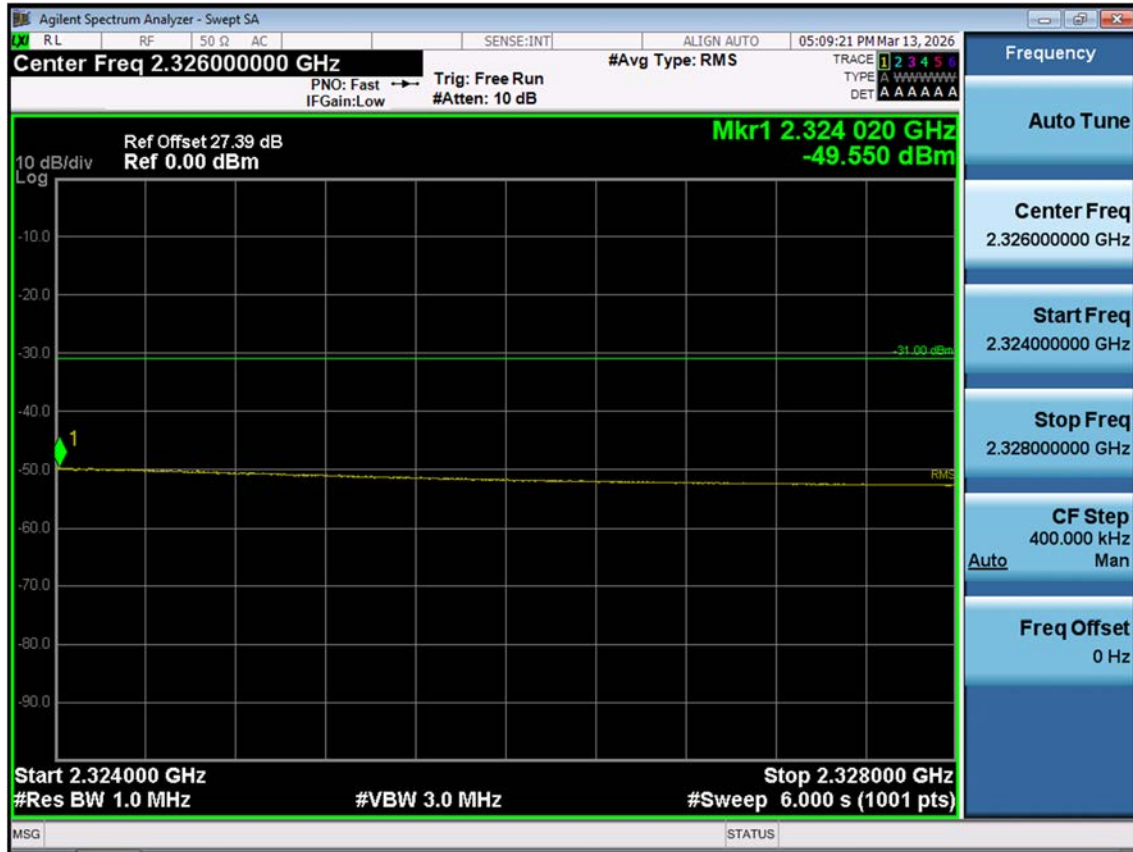
LTE B30_5 M_Band Edge(2315MHz-2320MHz)_Low_QPSK_FullRB



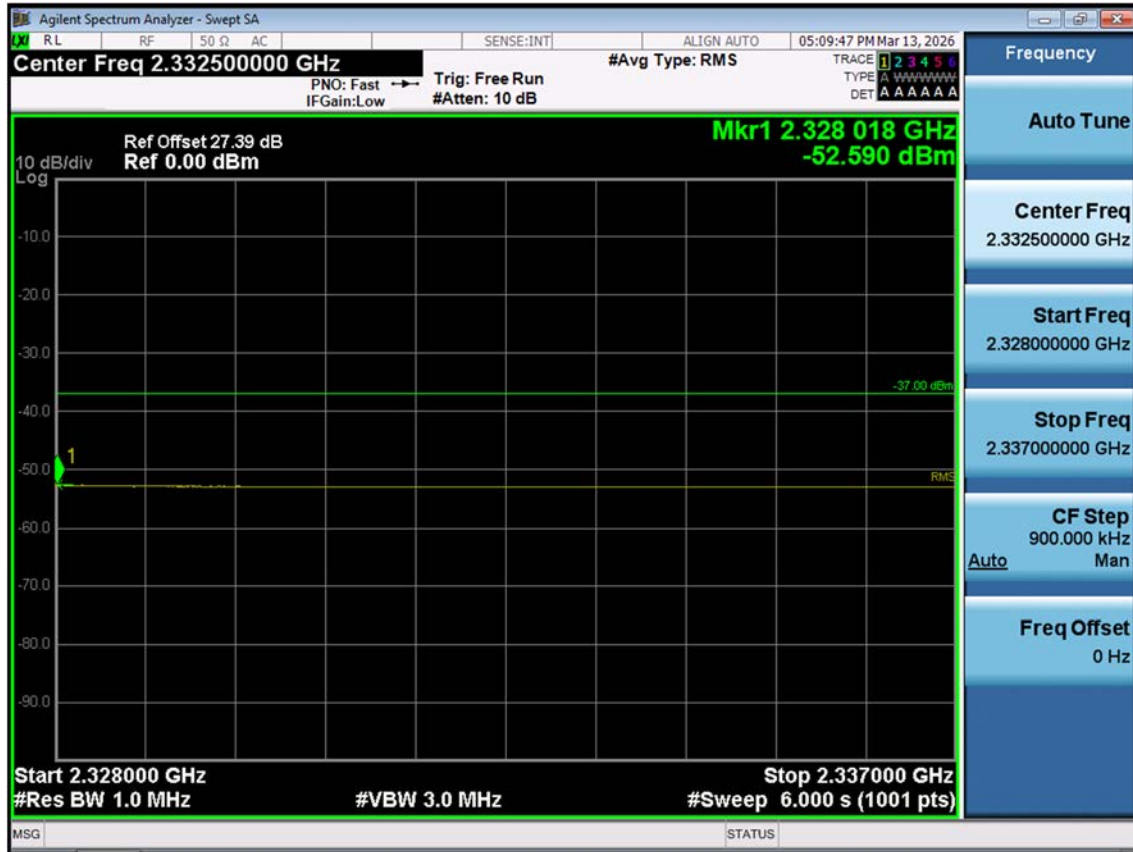
LTE B30_5 M_Band Edge(2320MHz-2324MHz)_Low_QPSK_FullRB



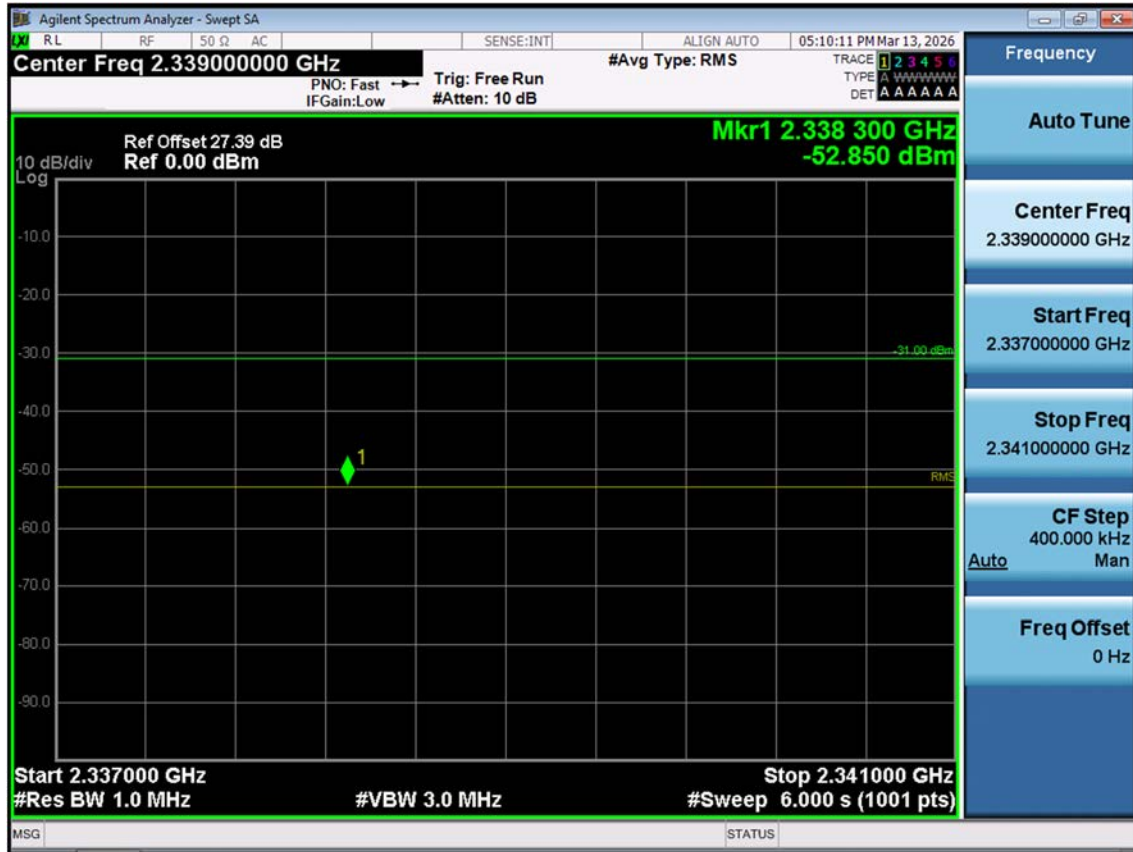
LTE B30_5 M_Band Edge(2324MHz-2328MHz)_Low_QPSK_FullRB



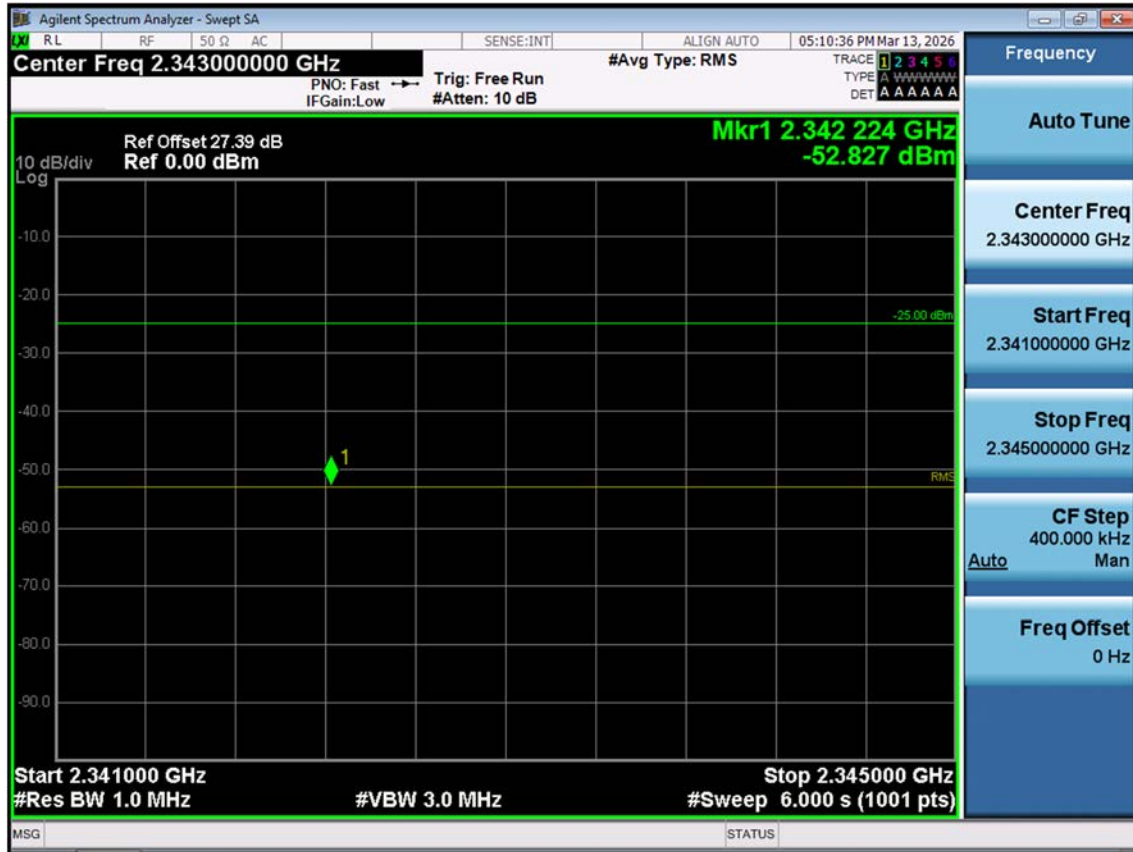
LTE B30_5 M_Band Edge(2328MHz-2337MHz)_Low_QPSK_FullRB



LTE B30_5 M_Band Edge(2337MHz-2341MHz)_Low_QPSK_FullRB



LTE B30_5 M_Band Edge(2341MHz-2345MHz)_Low_QPSK_FullRB



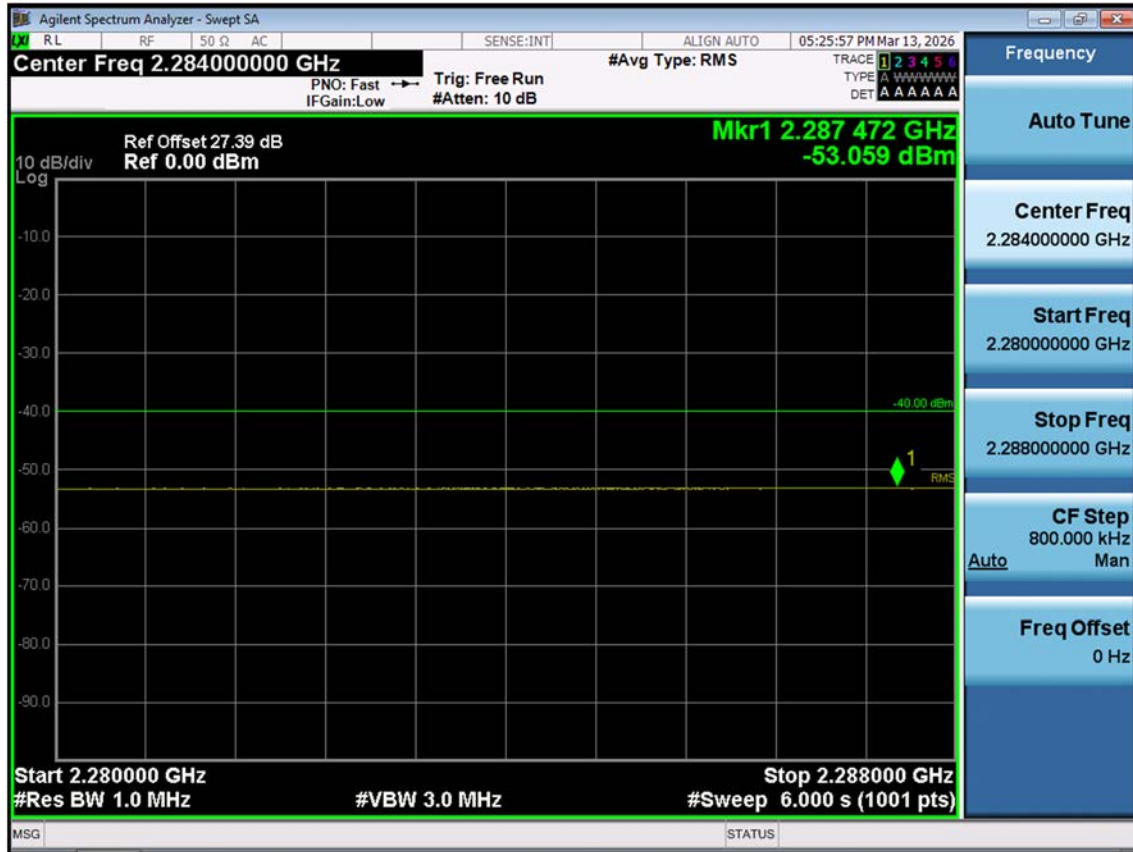
LTE B30_5 M_Band Edge(2345MHz-2365MHz)_Low_QPSK_FullRB



LTE B30_5 M_Band Edge(2365MHz-2400MHz)_Low_QPSK_FullRB



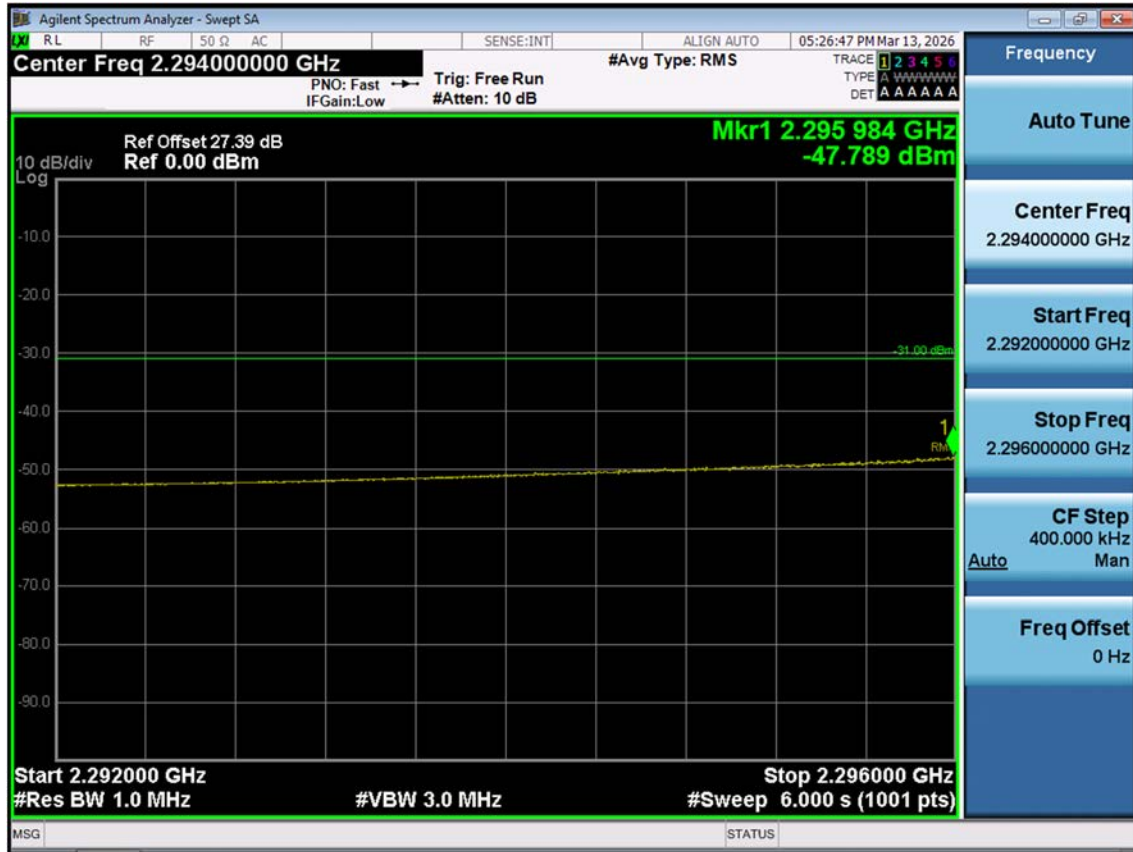
LTE B30_5 M_Band Edge(2280MHz-2288MHz)_Mid_QPSK_FullRB



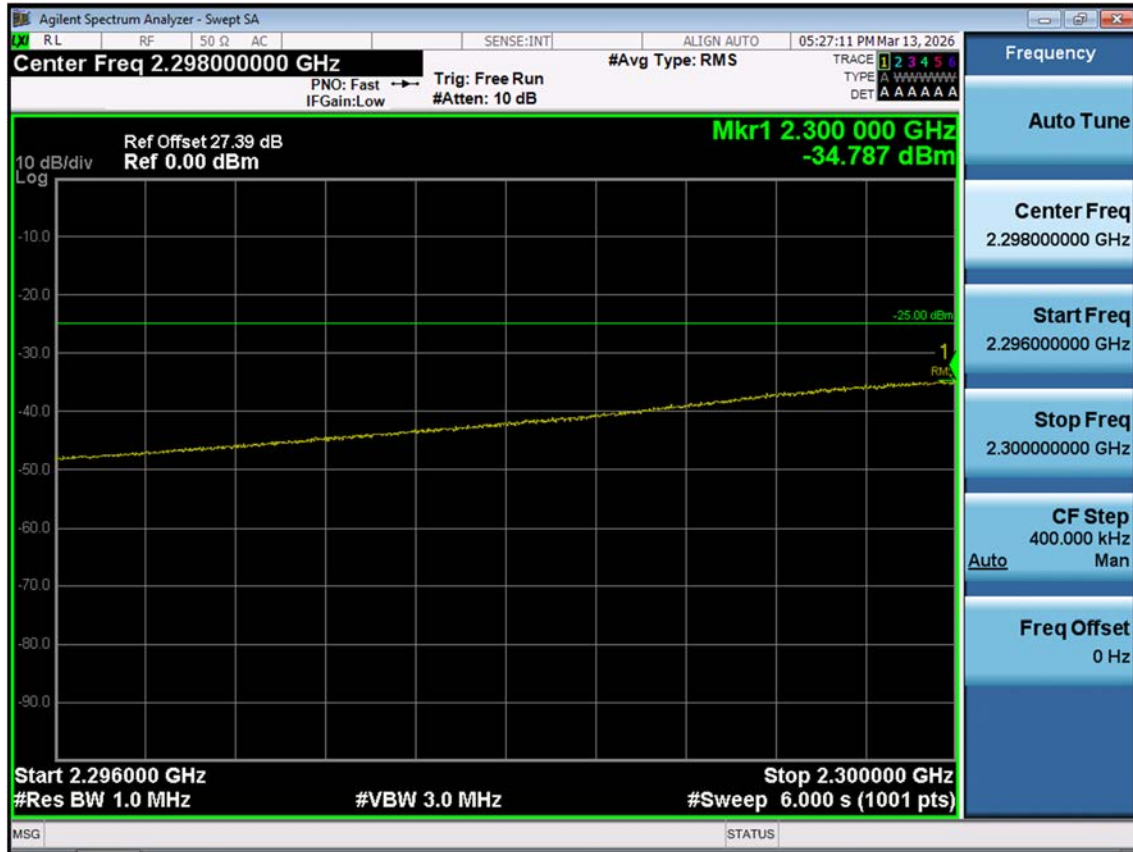
LTE B30_5 M_Band Edge(2288MHz-2292MHz)_Mid_QPSK_FullRB



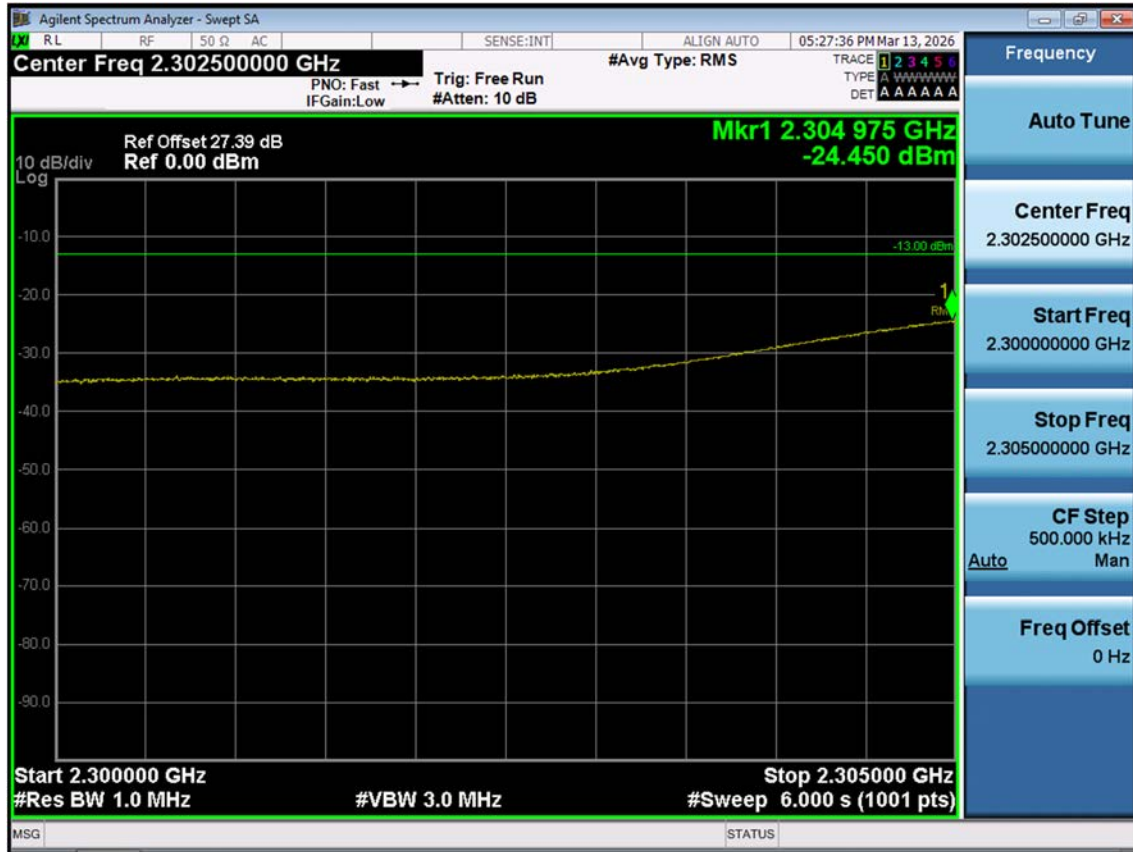
LTE B30_5 M_Band Edge(2292MHz-2296MHz)_Mid_QPSK_FullRB



LTE B30_5 M_Band Edge(2296MHz-2300MHz)_Mid_QPSK_FullRB



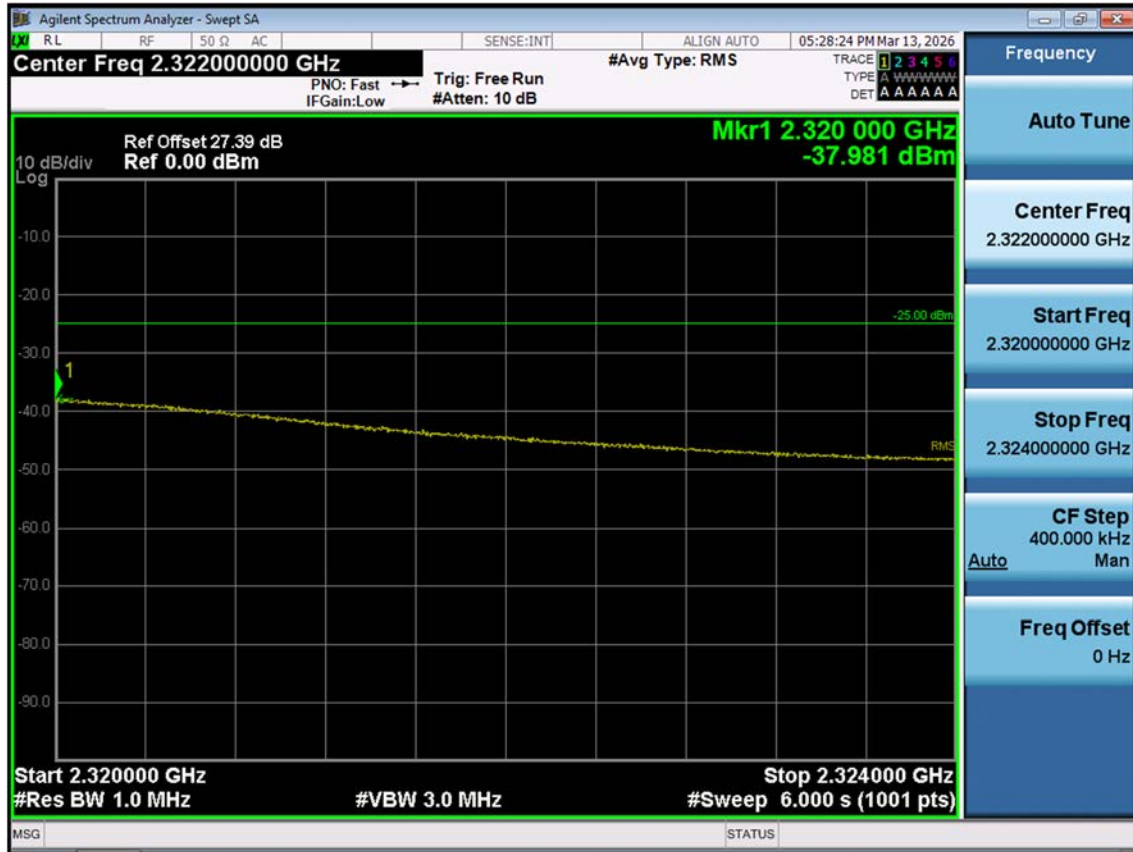
LTE B30_5 M_Band Edge(2300MHz-2305MHz)_Mid_QPSK_FullRB



LTE B30_5 M_Band Edge(2315MHz-2320MHz)_Mid_QPSK_FullRB



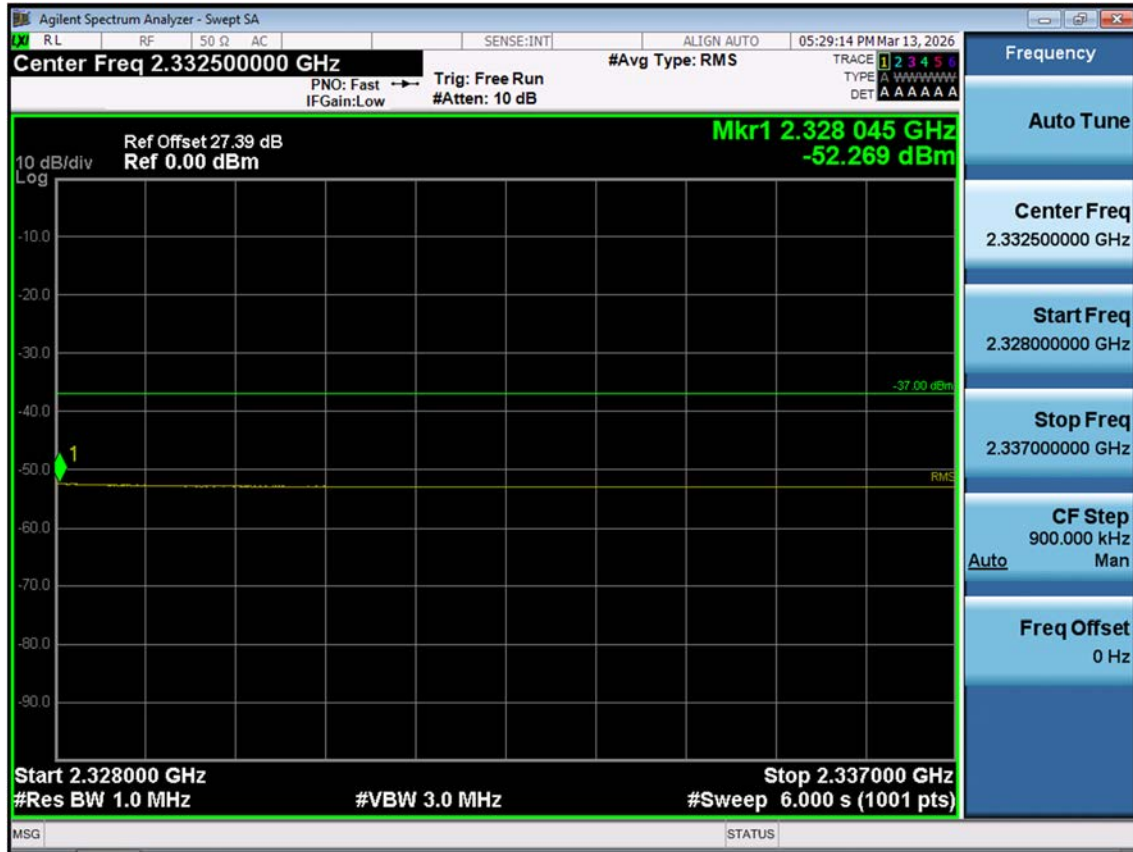
LTE B30_5 M_Band Edge(2320MHz-2324MHz)_Mid_QPSK_FullRB



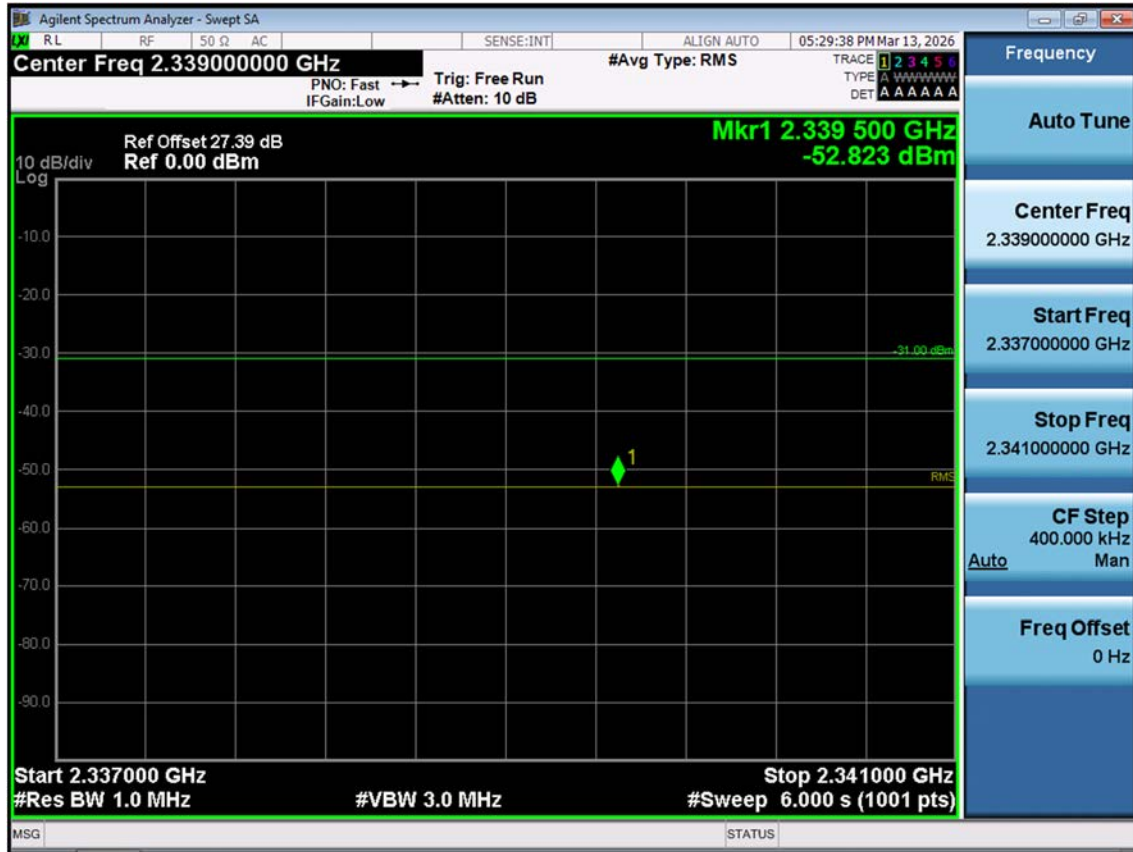
LTE B30_5 M_Band Edge(2324MHz-2328MHz)_Mid_QPSK_FullRB



LTE B30_5 M_Band Edge(2328MHz-2337MHz)_Mid_QPSK_FullRB



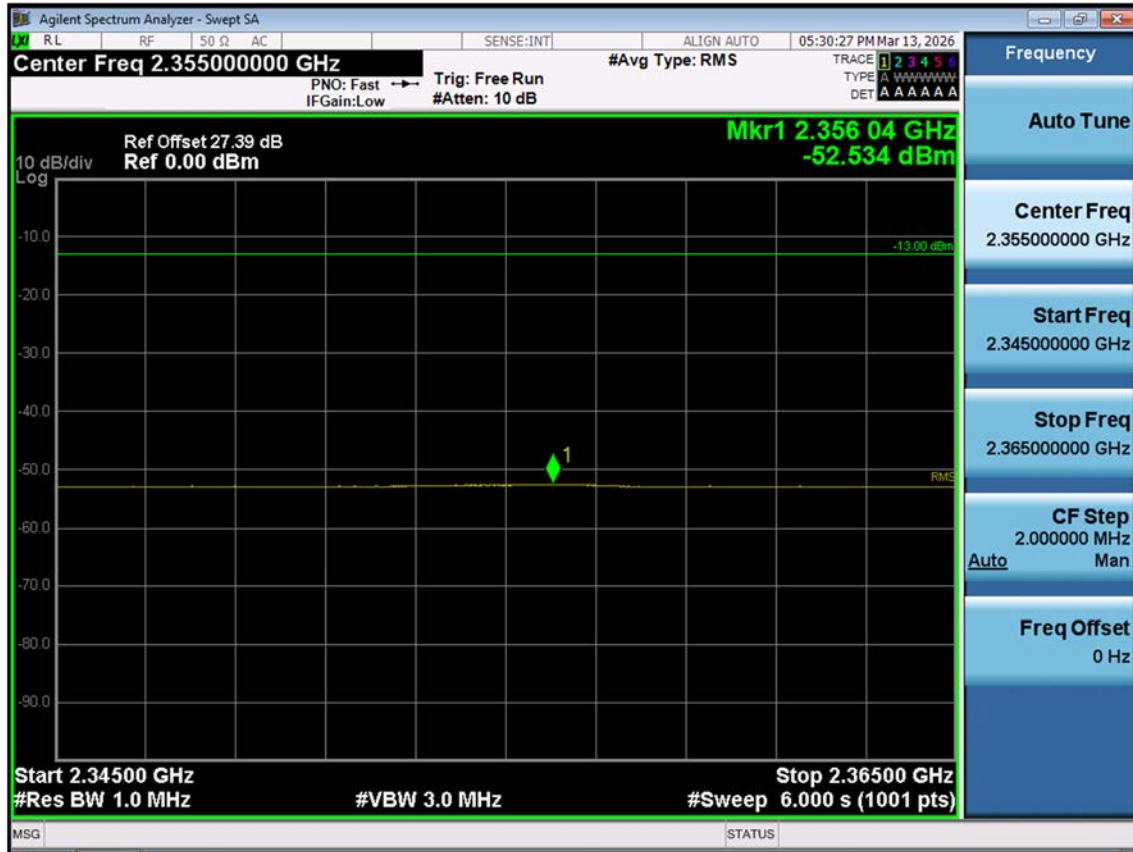
LTE B30_5 M_Band Edge(2337MHz-2341MHz)_Mid_QPSK_FullRB



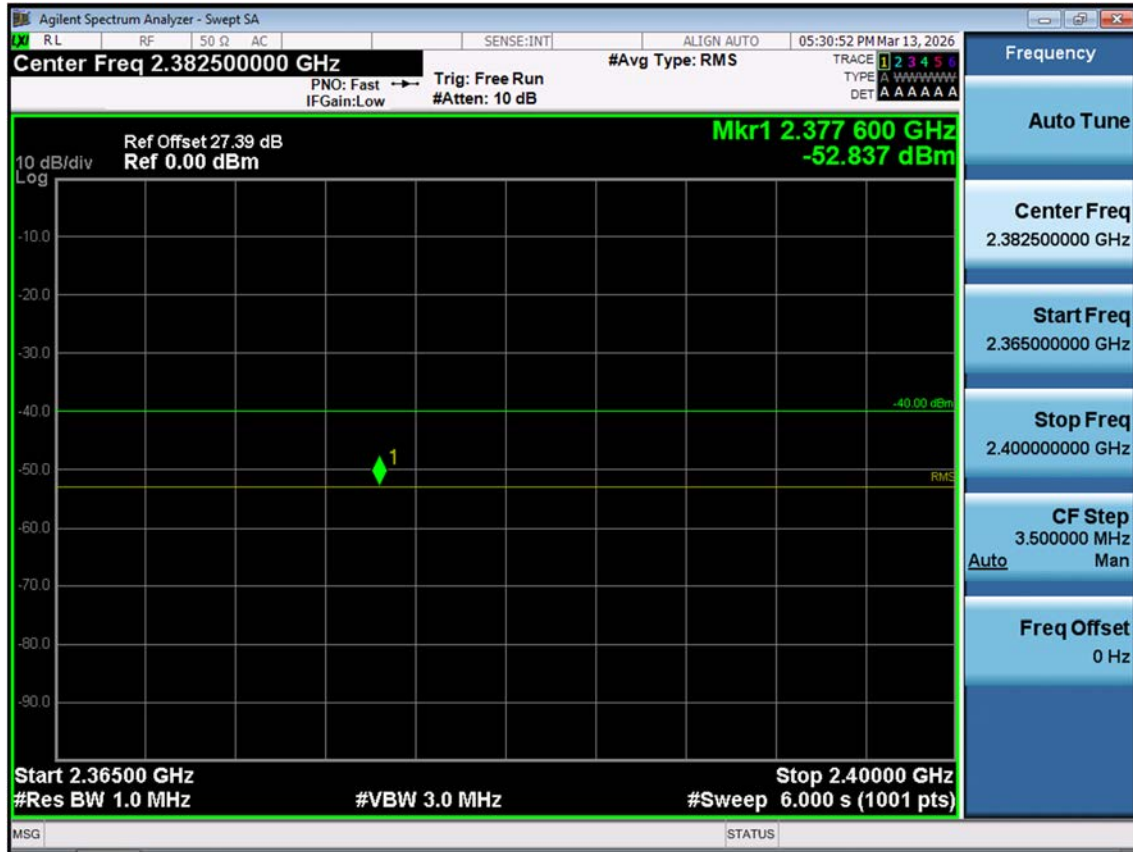
LTE B30_5 M_Band Edge(2341MHz-2345MHz)_Mid_QPSK_FullRB



LTE B30_5 M_Band Edge(2345MHz-2365MHz)_Mid_QPSK_FullRB



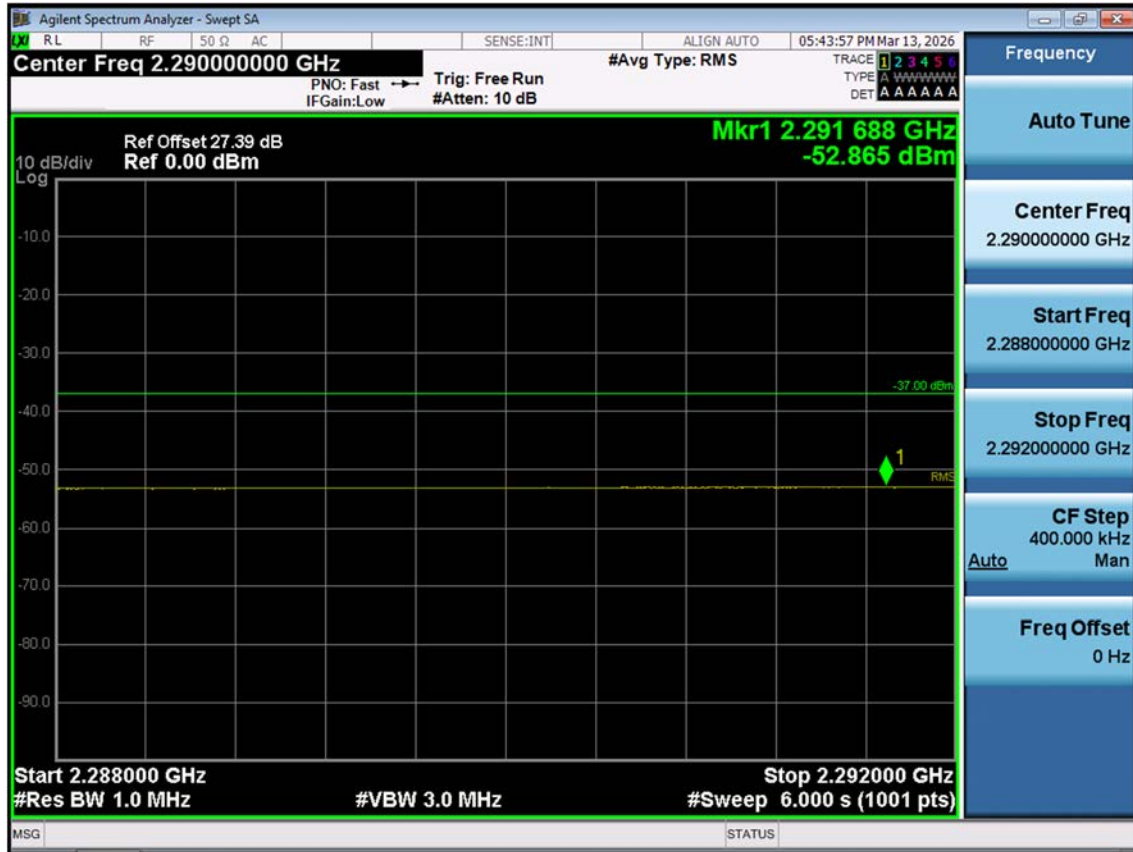
LTE B30_5 M_Band Edge(2365MHz-2400MHz)_Mid_QPSK_FullRB



LTE B30_5 M_Band Edge(2280MHz-2288MHz)_High_QPSK_FullRB



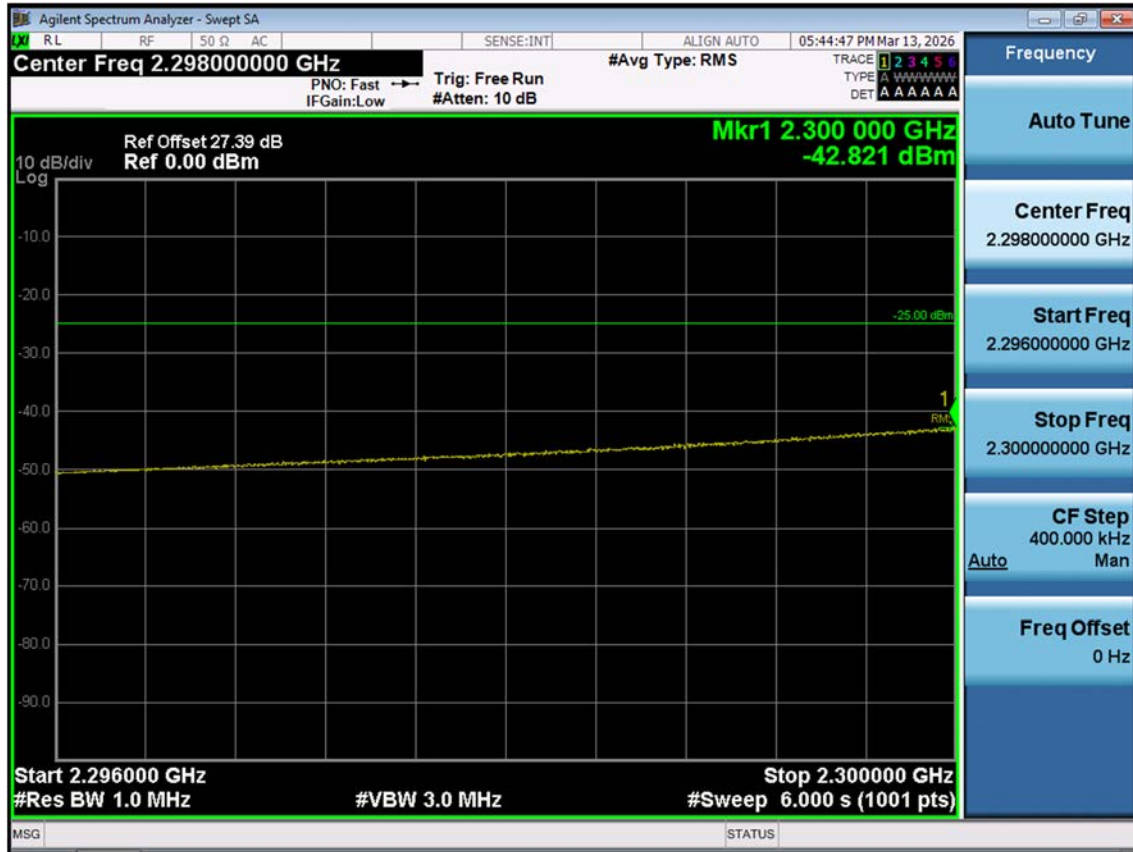
LTE B30_5 M_Band Edge(2288MHz-2292MHz)_High_QPSK_FullRB



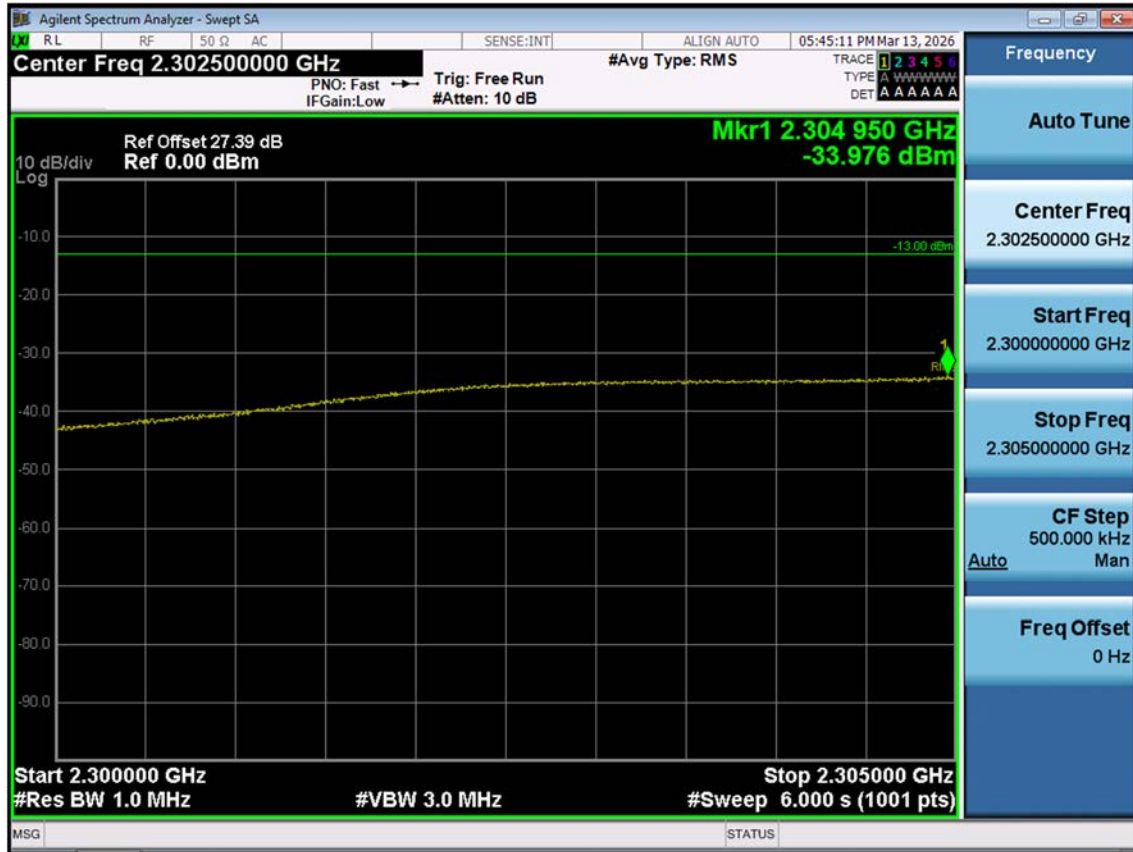
LTE B30_5 M_Band Edge(2292MHz-2296MHz)_High_QPSK_FullRB



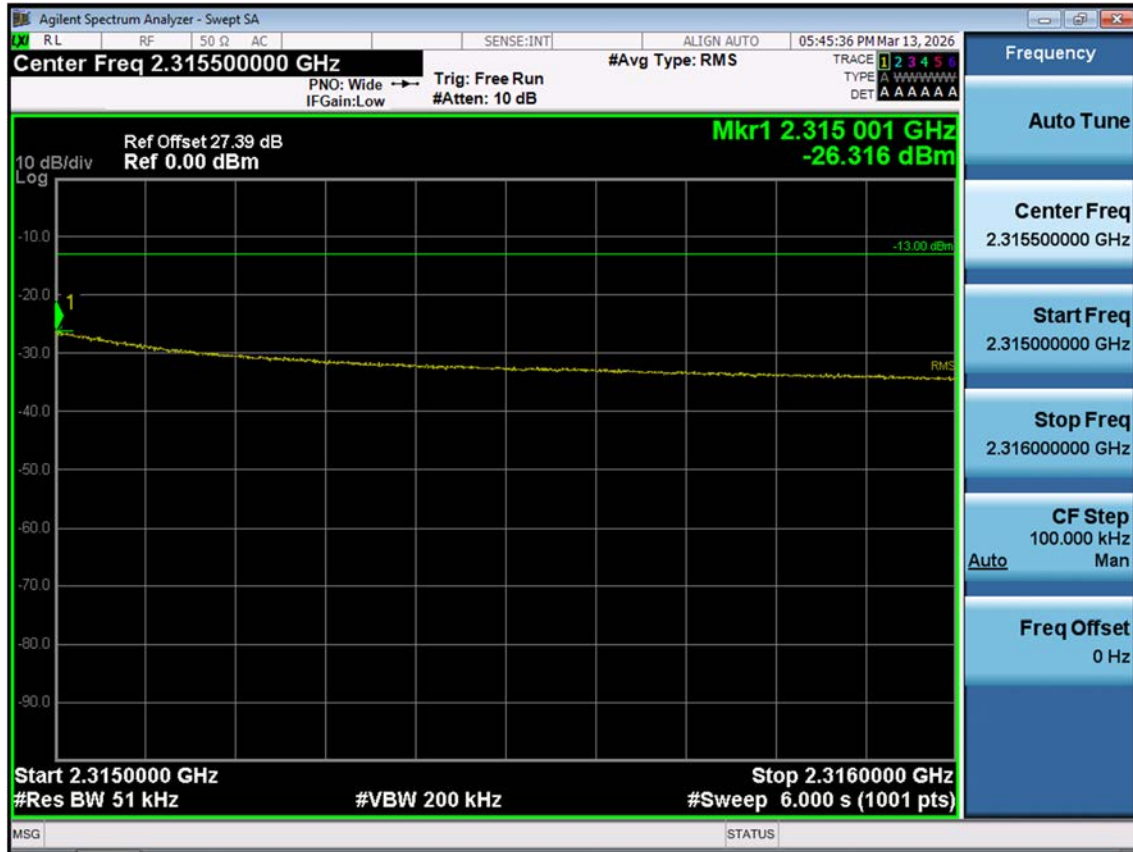
LTE B30_5 M_Band Edge(2296MHz-2300MHz)_High_QPSK_FullRB



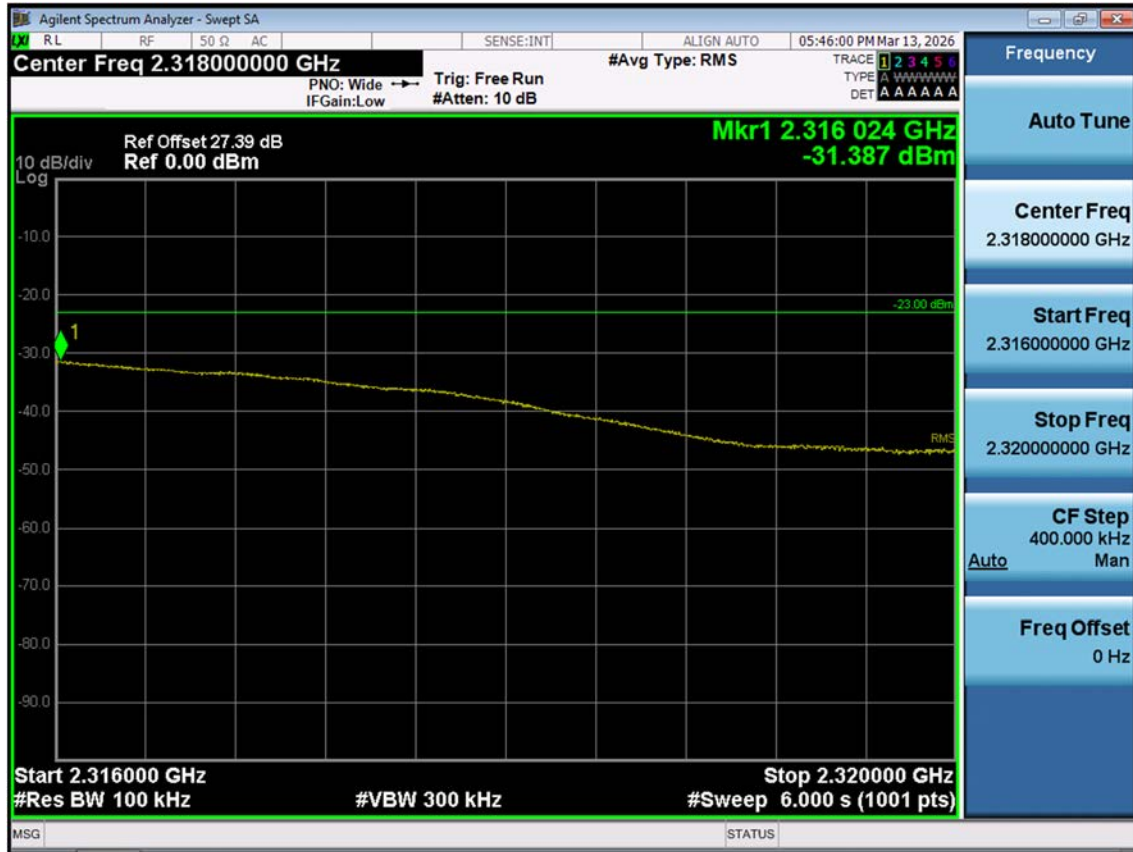
LTE B30_5 M_Band Edge(2300MHz-2305MHz)_High_QPSK_FullRB



LTE B30_5 M_Band Edge(2315MHz-2316MHz)_High_QPSK_FullRB



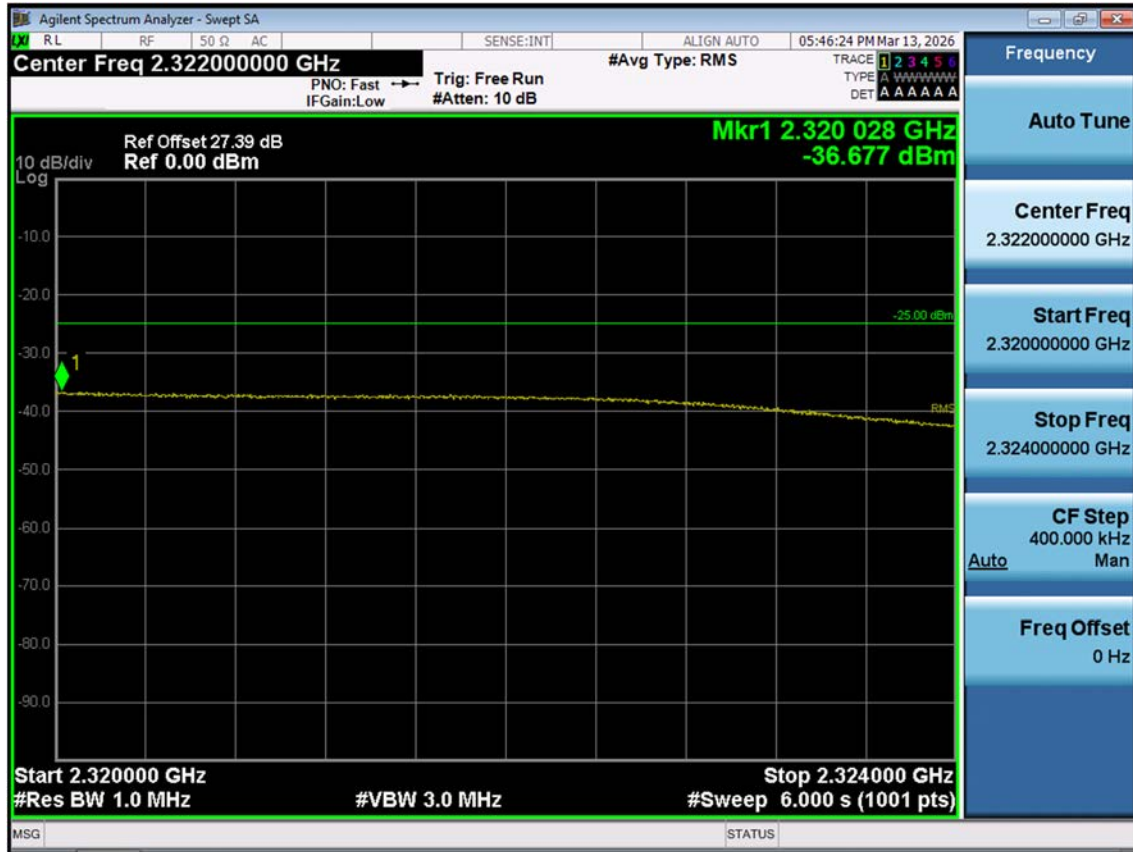
LTE B30_5 M_Band Edge(2316MHz-2320MHz)_High_QPSK_FullRB



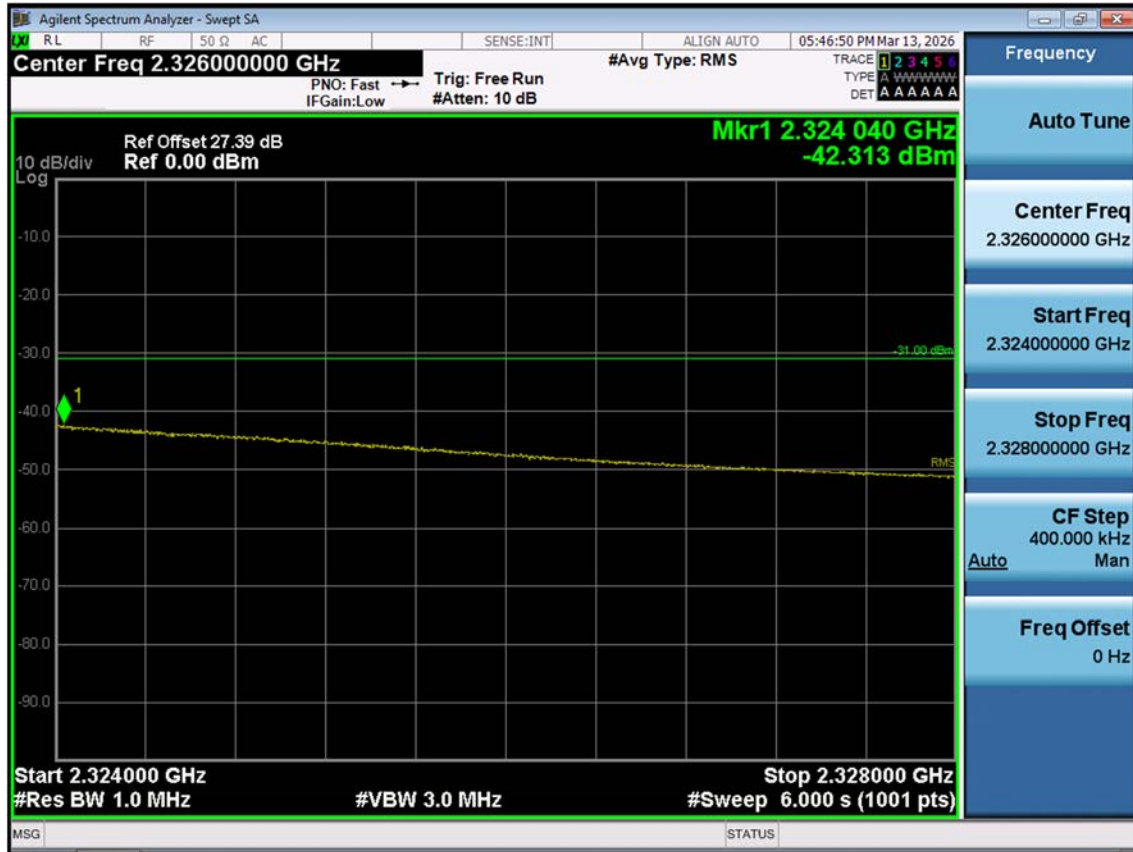
Note : We used a narrower RBW in order to increase accuracy.

Calculation = Reading Value + 10 x log(1 MHz/100 kHz) dB = -31.387 dBm + 10 dB = -21.387 dBm

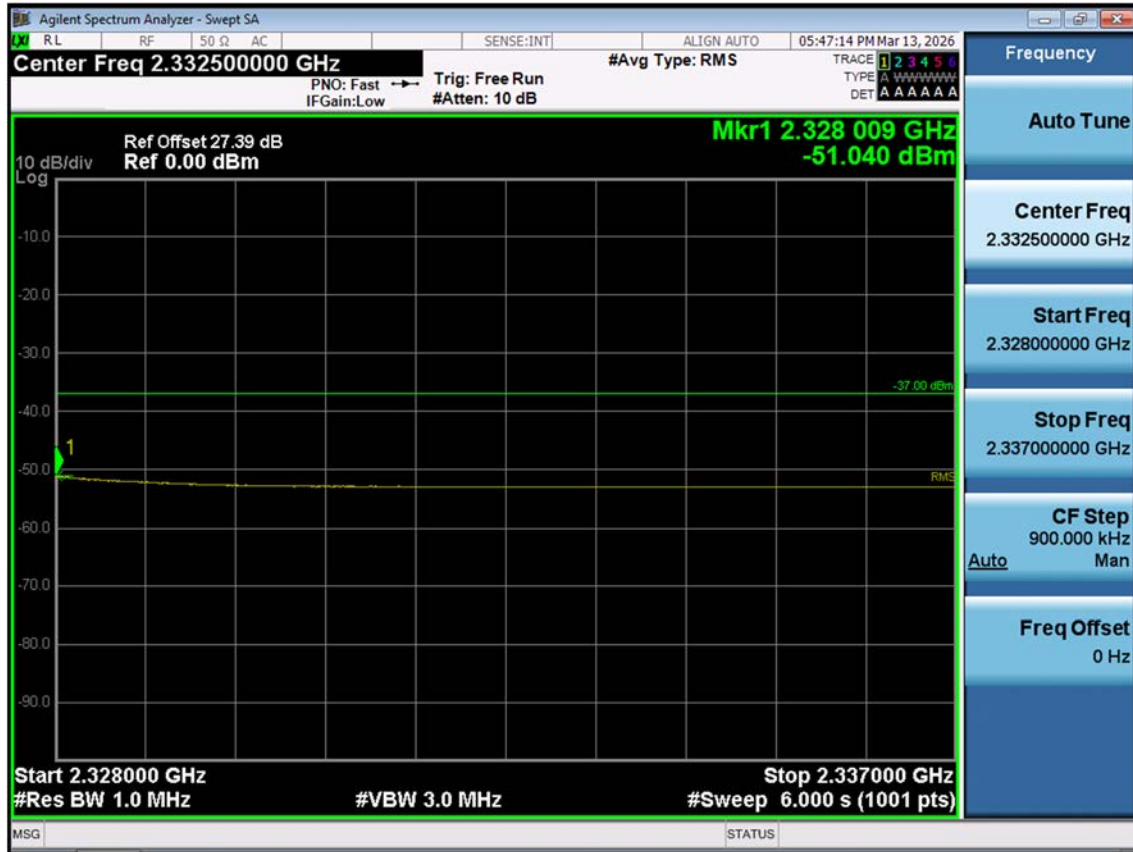
LTE B30_5 M_Band Edge(2320MHz-2324MHz)_High_QPSK_FullRB



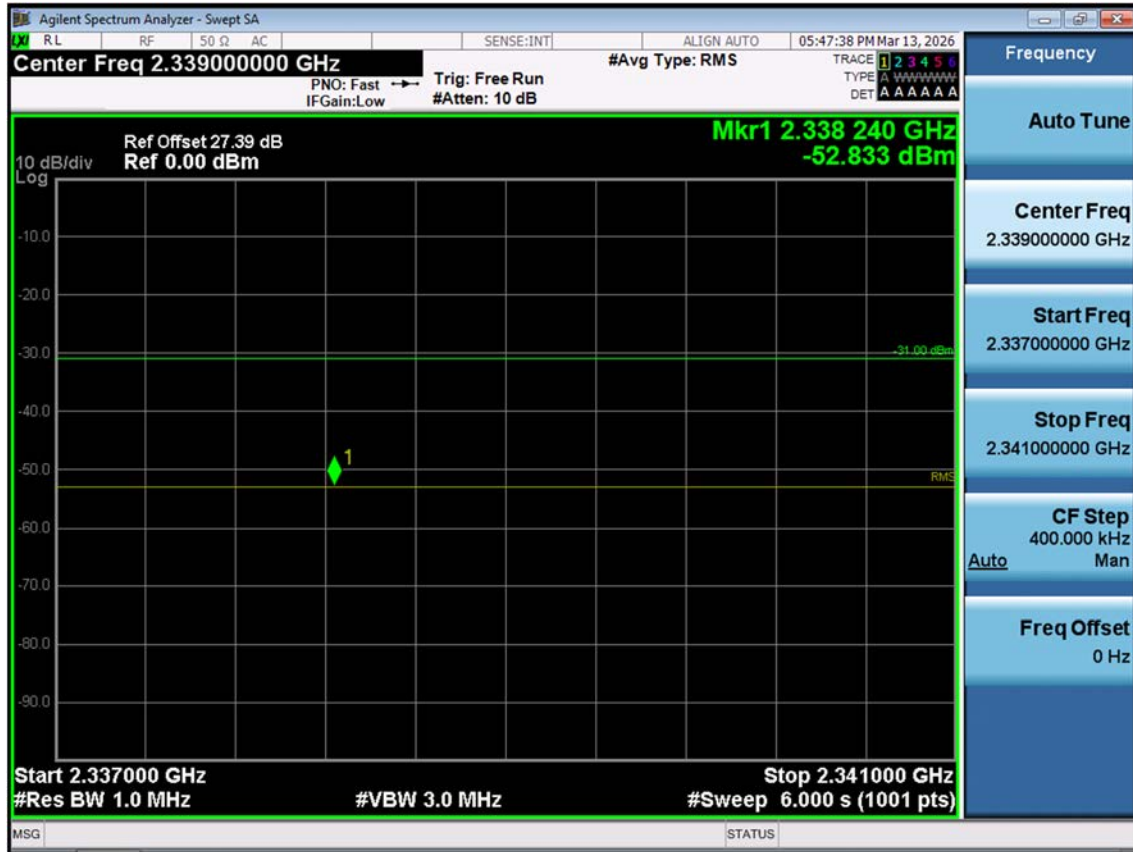
LTE B30_5 M_Band Edge(2324MHz-2328MHz)_High_QPSK_FullRB



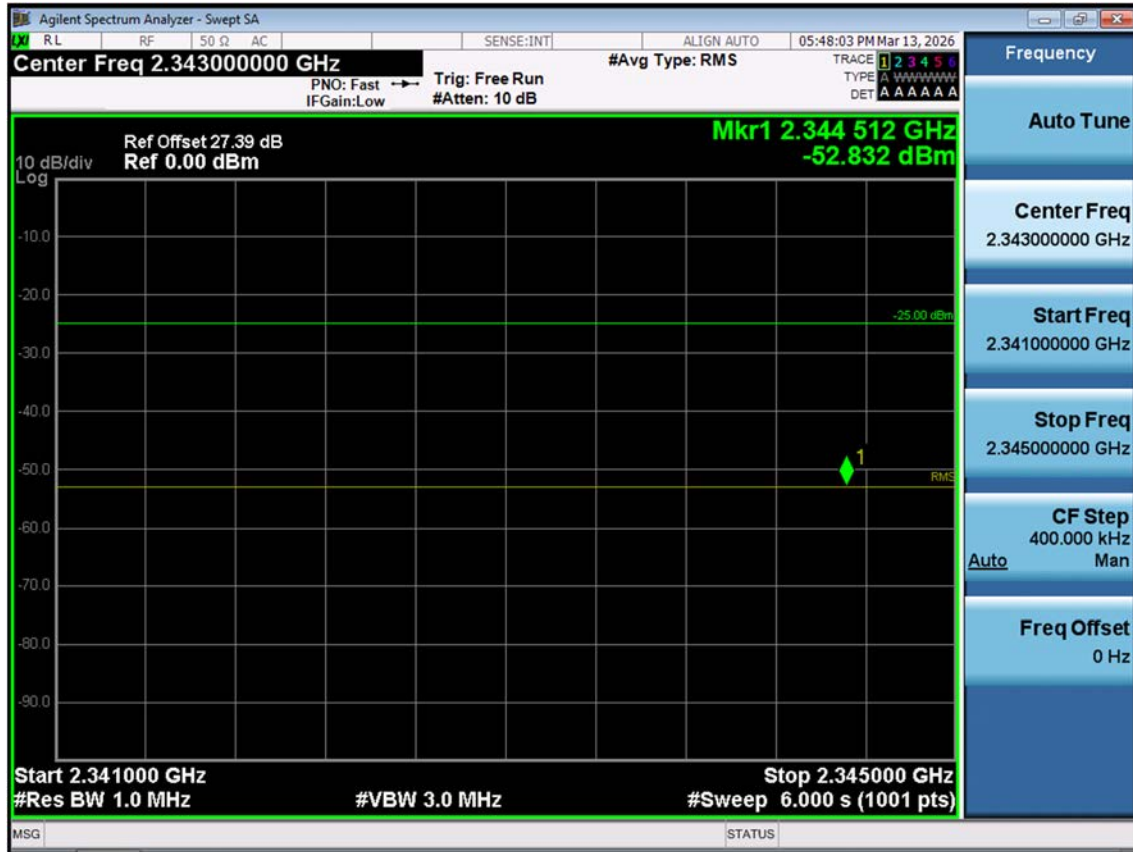
LTE B30_5 M_Band Edge(2328MHz-2337MHz)_High_QPSK_FullRB



LTE B30_5 M_Band Edge(2337MHz-2341MHz)_High_QPSK_FullRB



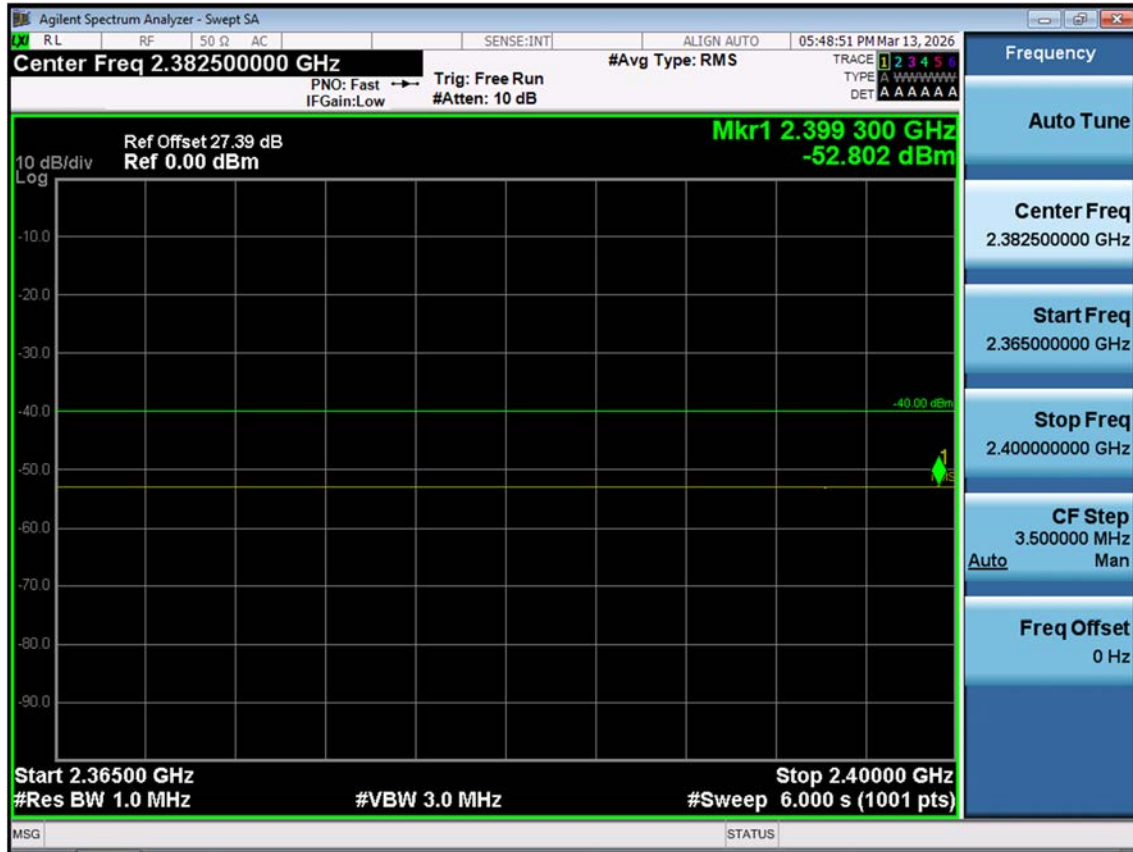
LTE B30_5 M_Band Edge(2341MHz-2345MHz)_High_QPSK_FullRB



LTE B30_5 M_Band Edge(2345MHz-2365MHz)_High_QPSK_FullRB



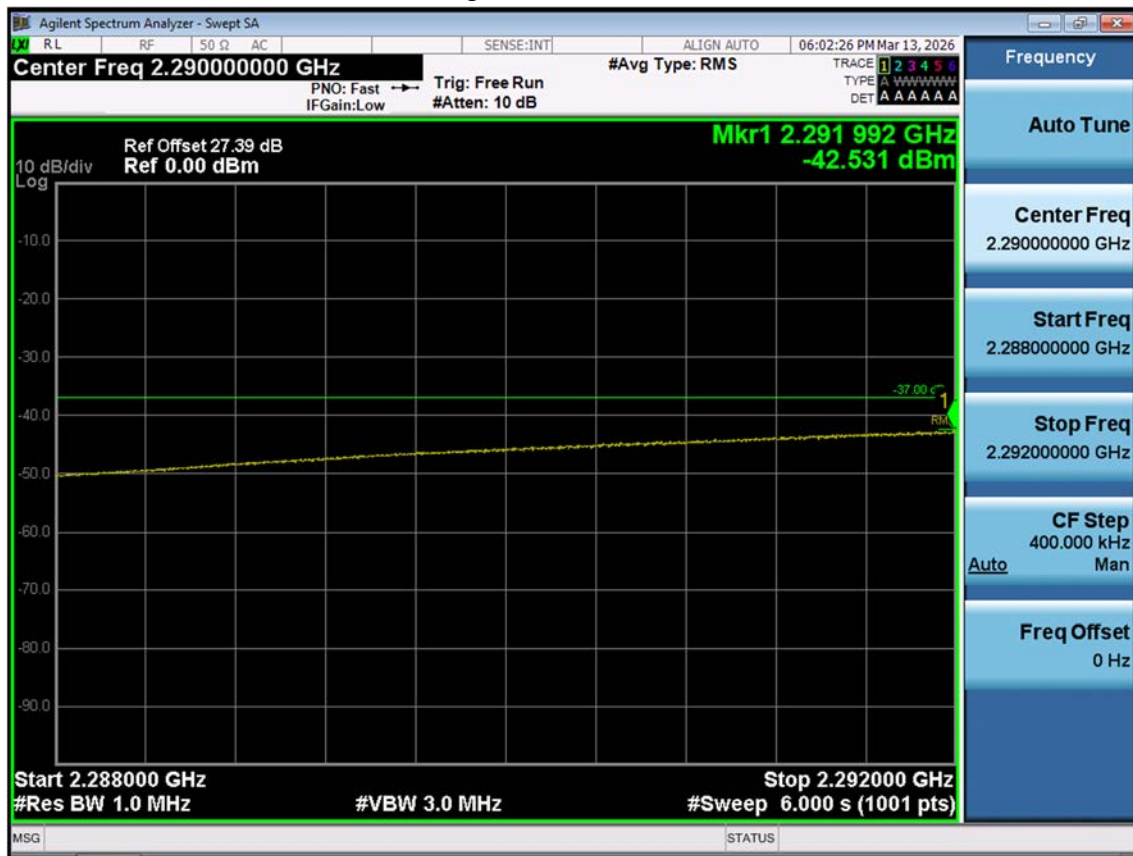
LTE B30_5 M_Band Edge(2365MHz-2400MHz)_High_QPSK_FullRB



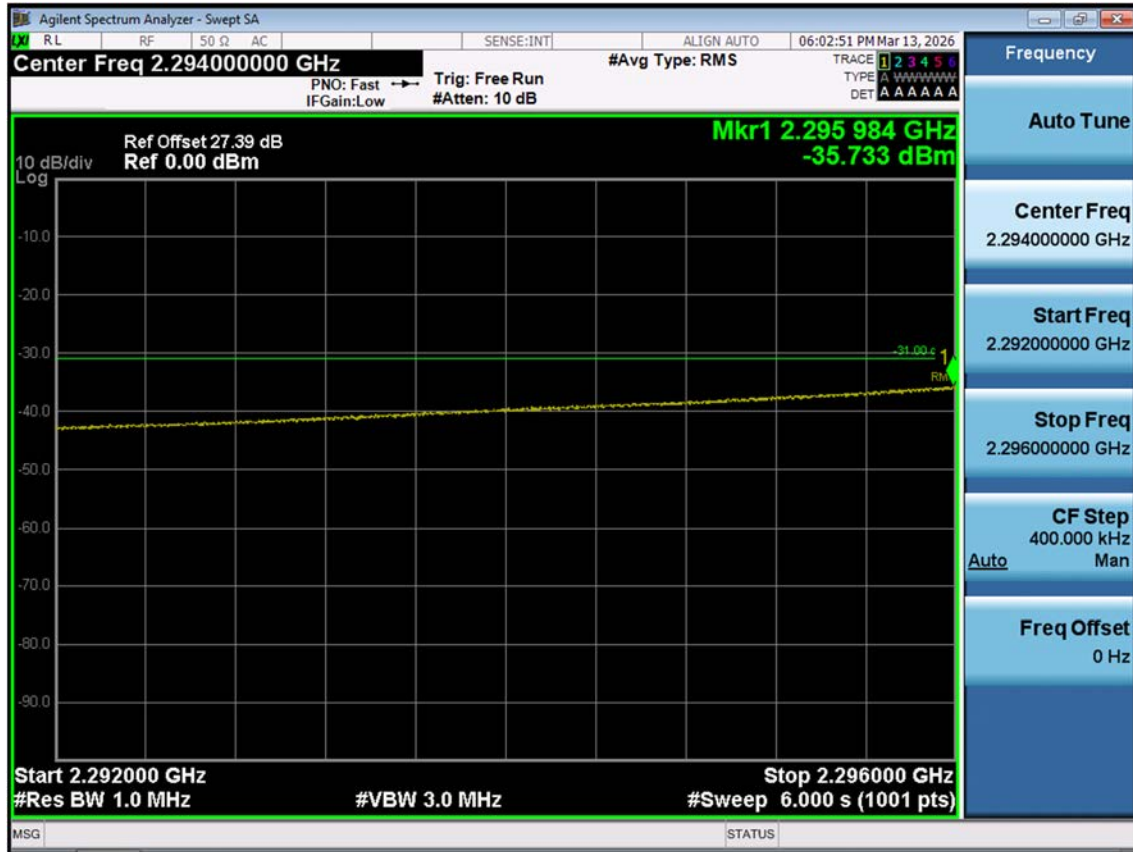
LTE B30_10 M_Band Edge(2280MHz-2288MHz)_Low_QPSK_FullIRB



LTE B30_10 M_Band Edge(2288MHz-2292MHz)_Low_QPSK_FullIRB



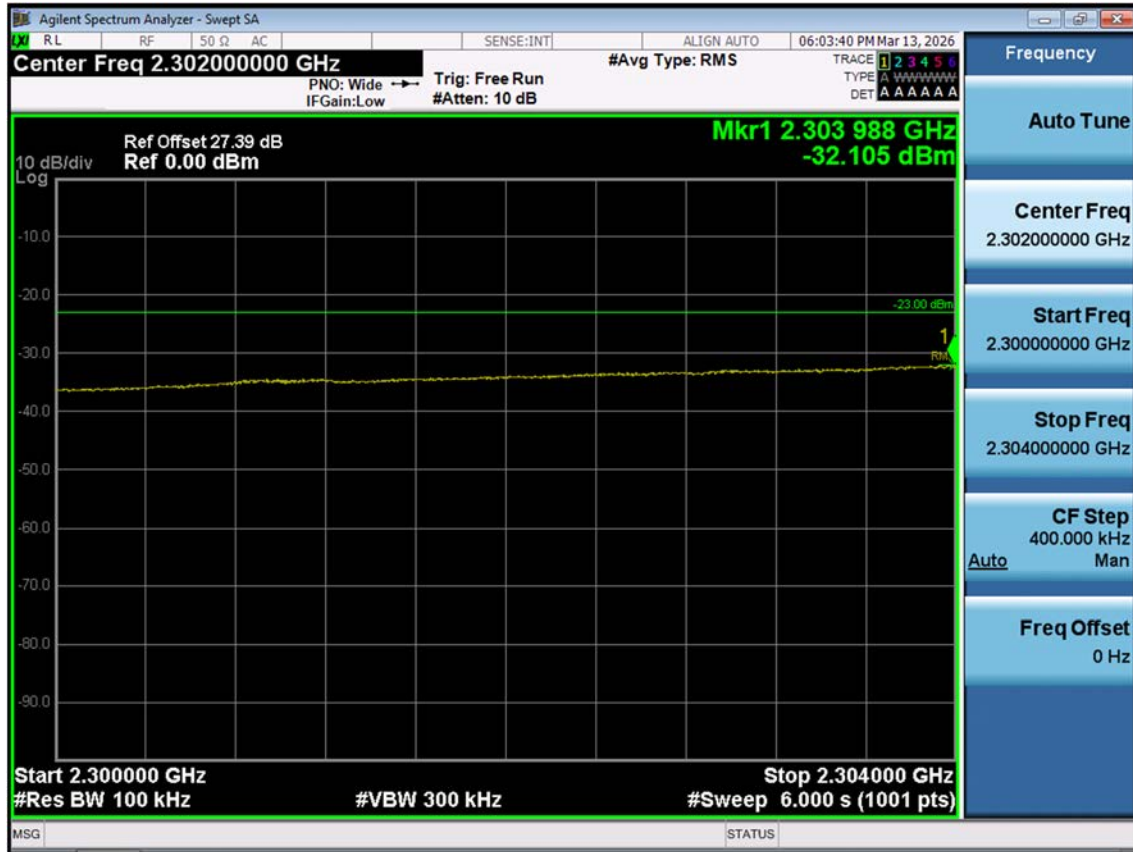
LTE B30_10 M_Band Edge(2292MHz-2296MHz)_Low_QPSK_FullIRB



LTE B30_10 M_Band Edge(2296MHz-2300MHz)_Low_QPSK_FullIRB



LTE B30_10 M_Band Edge(2300MHz-2304MHz)_Low_QPSK_FullIRB



Note : We used a narrower RBW in order to increase accuracy.

Calculation = Reading Value + 10 x log(1 MHz/100 kHz) dB = -32.105 dBm + 10 dB = -22.105 dBm

LTE B30_10 M_Band Edge(2304MHz-2305MHz)_Low_QPSK_FullIRB

