TEST REPORT

FCC LTE B26(Part90) Test for SM-F761U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2504-FC062

DATE OF ISSUE
April 29, 2025

Tested by
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TEST REPORT

REPORT NO.
HCT-RF-2504-FC062

DATE OF ISSUE
April 29, 2025

Additional Model
SM-F761U1

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-F761U
Date of Test	February 26, 2025 ~ April 28, 2025
FCC ID	A3LSMF761U
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: § 90, § 22
Test Results	PASS

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 29, 2025	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

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMF761U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 90, § 22
EUT Type:	Mobile phone
Model(s):	SM-F761U
Additional Model(s)	SM-F761U1
Tx Frequency:	814.7 MHz – 824.0 MHz (LTE – Band 26 (1.4 MHz)) 815.5 MHz – 824.0 MHz (LTE – Band 26 (3 MHz)) 816.5 MHz – 824.0 MHz (LTE – Band 26 (5 MHz)) 819.0 MHz – 824.0 MHz (LTE – Band 26 (10 MHz)) 821.5 MHz (LTE – Band 26 (15 MHz))
Date(s) of Tests:	February 26, 2025 ~ April 28, 2025
Serial number:	Radiated : R3CY20BS4JB Conducted : R3CY20BSA1L
Antenna Information	Please refer to the Antenna Specification document.

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1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band26 (1.4)	814.7 – 824.0	1M10G7D	QPSK	0.283	24.52
		1M10W7D	16QAM	0.250	23.98
		1M10W7D	64QAM	0.188	22.74
		1M10W7D	256QAM	0.091	19.60
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.289	24.61
		2M71W7D	16QAM	0.251	23.99
		2M71W7D	64QAM	0.190	22.79
		2M71W7D	256QAM	0.092	19.63
LTE – Band26 (5)	816.5 – 824.0	4M54G7D	QPSK	0.284	24.54
		4M52W7D	16QAM	0.249	23.96
		4M53W7D	64QAM	0.187	22.73
		4M54W7D	256QAM	0.091	19.57
LTE – Band26 (10)	819.0 – 824.0	9M02G7D	QPSK	0.282	24.51
		9M01W7D	16QAM	0.248	23.95
		9M02W7D	64QAM	0.186	22.70
		9M00W7D	256QAM	0.091	19.59
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.281	24.49
		13M4W7D	16QAM	0.248	23.95
		13M5W7D	64QAM	0.187	22.71
		13M4W7D	256QAM	0.091	19.59

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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**

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3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
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

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3.2 CONDUCTED OUTPUT POWER

Test Overview

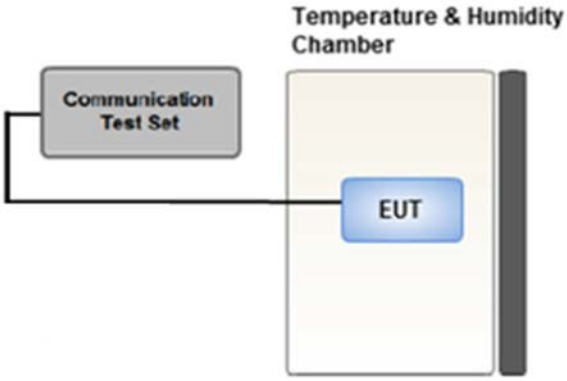
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

Test Procedure

1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
2. Conducted average power was measured using a calibrated Radio Communication Tester.

Test setup



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3.3 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 ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
   The power is calculated by the following formula;
   $$P_{d\ (dBm)} = P_{g\ (dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dB)}$$
   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.

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3.4 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. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 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;

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

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

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

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

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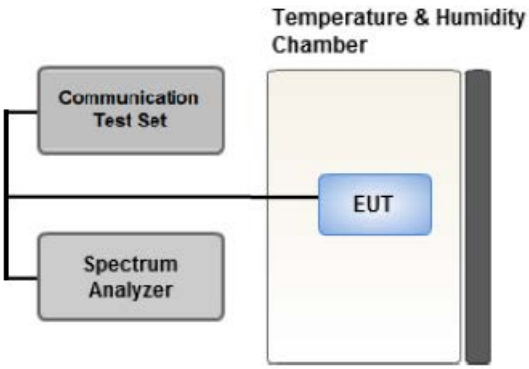
3.5 OCCUPIED BANDWIDTH.



Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.
The EUT makes a call to the communication simulator.
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.
Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

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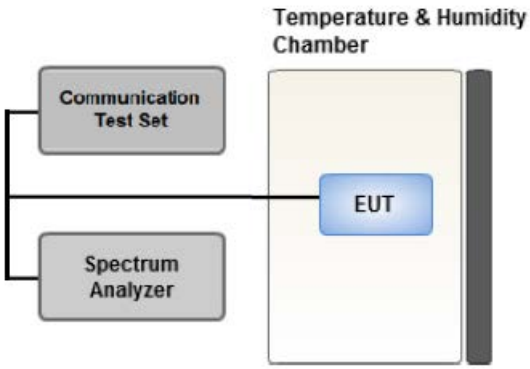
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

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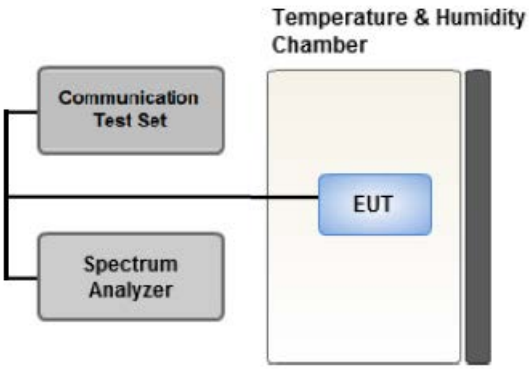
3.7 CHANNEL EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum 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 :
   .- EA licensee's frequency block by up to and including 37.5 kHz : 300 Hz
   .- EA licensee's frequency block greater than 37.5 kHz : 100 kHz
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

For 90.691(a), RBW=300 Hz for offset less than 37.5 kHz from channel edge and RBW=100 kHz for offsets greater than 37.5 kHz is allowed.

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

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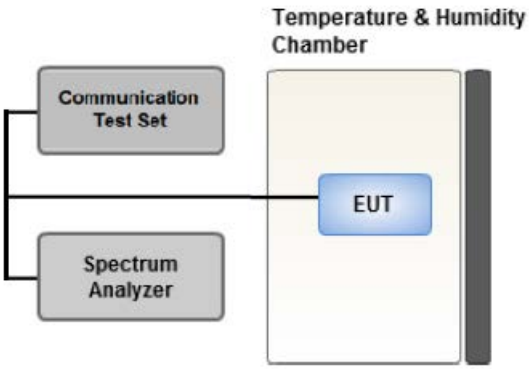
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



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.

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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 EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported.
  (Worst case: Open mode)
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case: 15 MHz, Straddle: 5 MHz)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- All modes of operation were tested and the worst case results are reported.
- Please refer to the table below.
- SM-F761U & additional models were tested and the worst case results are reported.
  (Worst case: SM-F761U)

[Worst case]

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

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3.10 WORST CASE(CONDUCTED TEST)

- Worst case : Of all modulation, We have tested modulation of the high Conducted Output Power.
- SM-F761U & additional models were tested and the worst case results are reported.
  (Worst case : SM-F761U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5	High	Full RB	0
	QPSK, 16QAM, 64QAM, 256QAM	10, 15	Mid	Full RB	0
Channel Edge	QPSK	1.4	Low	1	0
			High	1	5
		3	Low	1	0
			High	1	14
		5	Low	1	0
			High	1	24
		10	Mid	1	0
				1	49
		15	Mid	1	0
				1	74
		1.4, 3, 5	Low, High	Full RB	0
		10, 15	Mid	Full RB	0
Band Edge (Straddle Channel)	QPSK	1.4	Mid	1	5
		3	Mid	1	14
		5	Mid	1	24
		10	Mid	1	49
		1.4, 3, 5, 10	Mid	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	1.4, 3, 5	Low, High	1	0
		10, 15	Mid	1	0

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4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/14/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
Signal Analyzer(2 Hz ~ 50.0 GHz)	N9040B	KEYSIGHT	US55230216	12/09/2025	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	Annual

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).

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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 (±kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, *k*=2)
Frequency stability	28 (Confidence level about 95 %, *k*=2)

Parameter	Expanded Uncertainty (±dB)
Block Edge	0.70 (Confidence level about 95 %, *k*=2)
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, *k*=2)
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, *k*=2)
Radiated Power	4.74 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.68 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.75 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.82 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, *k*=2)

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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
Channel Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 90.691	< 50 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions within 37.5 kHz of Block Edge	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 § 90.635	< 100 Watts	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 90.213 § 22.355	< 2.5 ppm	PASS

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 (Only 15 MHz B.W)	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 90.691 § 22.917(a)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

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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.

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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

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8. TEST DATA

8.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				814.7 MHz		823.3 MHz		
				dBm	W	dBm	W	
1.4	QPSK	1	0	24.44	0.278	24.42	0.277	100
		1	3	24.41	0.276	24.38	0.274	100
		1	5	24.52	0.283	24.51	0.282	100
		3	0	24.49	0.281	24.47	0.280	100
		3	1	24.30	0.269	24.29	0.269	100
		3	3	24.31	0.270	24.28	0.268	100
		6	0	23.54	0.226	23.51	0.224	100
	16QAM	1	0	23.87	0.244	23.86	0.243	100
		1	3	23.98	0.250	23.97	0.249	100
		1	5	23.92	0.247	23.89	0.245	100
		3	0	22.81	0.191	22.79	0.190	100
		3	1	22.79	0.190	22.76	0.189	100
		3	3	22.73	0.187	22.70	0.186	100
		6	0	22.39	0.173	22.38	0.173	100
	64QAM	1	0	22.54	0.179	22.50	0.178	100
		1	3	22.59	0.182	22.56	0.180	100
		1	5	22.74	0.188	22.73	0.188	100
		3	0	22.48	0.177	22.46	0.176	100
		3	1	22.33	0.171	22.29	0.170	100
		3	3	22.41	0.174	22.39	0.173	100
		6	0	21.50	0.141	21.49	0.141	100
	256QAM	1	0	19.54	0.090	19.53	0.090	100
		1	3	19.54	0.090	19.51	0.089	100
		1	5	19.59	0.091	19.58	0.091	100
		3	0	19.60	0.091	19.58	0.091	100
		3	1	19.53	0.090	19.50	0.089	100
		3	3	19.30	0.085	19.26	0.084	100
		6	0	19.43	0.088	19.42	0.088	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				815.5 MHz		822.5 MHz		
				dBm	W	dBm	W	
3	QPSK	1	0	24.61	0.289	24.44	0.278	100
		1	7	24.24	0.265	24.40	0.275	100
		1	14	24.50	0.282	24.49	0.281	100
		8	0	23.46	0.222	24.49	0.281	100
		8	3	23.37	0.217	24.29	0.268	100
		8	7	23.40	0.219	24.28	0.268	100
		15	0	23.42	0.220	23.53	0.226	100
	16QAM	1	0	23.94	0.248	23.87	0.244	100
		1	7	23.98	0.250	23.97	0.250	100
		1	14	23.99	0.251	23.92	0.246	100
		8	0	22.51	0.178	22.79	0.190	100
		8	3	22.55	0.180	22.77	0.189	100
		8	7	22.48	0.177	22.69	0.186	100
		15	0	22.42	0.175	22.39	0.173	100
	64QAM	1	0	22.79	0.190	22.53	0.179	100
		1	7	22.57	0.181	22.58	0.181	100
		1	14	22.72	0.187	22.74	0.188	100
		8	0	21.54	0.143	22.45	0.176	100
		8	3	21.56	0.143	22.31	0.170	100
		8	7	21.51	0.142	22.40	0.174	100
		15	0	21.46	0.140	21.50	0.141	100
	256QAM	1	0	19.63	0.092	19.51	0.089	100
		1	7	19.56	0.090	19.51	0.089	100
		1	14	19.52	0.090	19.55	0.090	100
		8	0	19.51	0.089	19.58	0.091	100
		8	3	19.44	0.088	19.53	0.090	100
		8	7	19.42	0.087	19.27	0.085	100
		15	0	19.38	0.087	19.42	0.087	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				816.5 MHz		821.5 MHz		
				dBm	W	dBm	W	
5	QPSK	1	0	24.54	0.284	24.42	0.276	100
		1	12	24.29	0.269	24.39	0.275	100
		1	24	24.53	0.284	24.49	0.281	100
		12	0	23.43	0.220	24.45	0.279	100
		12	6	23.40	0.219	24.27	0.268	100
		12	11	23.42	0.220	24.27	0.267	100
		25	0	23.37	0.217	23.50	0.224	100
	16QAM	1	0	23.84	0.242	23.83	0.242	100
		1	12	23.87	0.244	23.96	0.249	100
		1	24	23.80	0.240	23.90	0.245	100
		12	0	22.51	0.178	22.80	0.191	100
		12	6	22.52	0.179	22.76	0.189	100
		12	11	22.51	0.178	22.69	0.186	100
		25	0	22.40	0.174	22.38	0.173	100
	64QAM	1	0	22.73	0.187	22.54	0.179	100
		1	12	22.53	0.179	22.55	0.180	100
		1	24	22.65	0.184	22.71	0.187	100
		12	0	21.54	0.143	22.44	0.175	100
		12	6	21.50	0.141	22.30	0.170	100
		12	11	21.48	0.141	22.37	0.173	100
		25	0	21.40	0.138	21.49	0.141	100
	256QAM	1	0	19.56	0.090	19.53	0.090	100
		1	12	19.54	0.090	19.52	0.090	100
		1	24	19.56	0.090	19.56	0.090	100
		12	0	19.42	0.087	19.57	0.091	100
		12	6	19.44	0.088	19.51	0.089	100
		12	11	19.38	0.087	19.29	0.085	100
		25	0	19.42	0.087	19.39	0.087	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 819 MHz		Limit (W)
				dBm	W	
10	QPSK	1	0	24.43	0.277	100
		1	24	24.37	0.274	100
		1	49	24.51	0.282	100
		25	0	24.48	0.281	100
		25	12	24.27	0.267	100
		25	24	24.31	0.270	100
		50	0	23.53	0.225	100
	16QAM	1	0	23.84	0.242	100
		1	24	23.95	0.248	100
		1	49	23.90	0.245	100
		25	0	22.80	0.191	100
		25	12	22.77	0.189	100
		25	24	22.72	0.187	100
		50	0	22.38	0.173	100
	64QAM	1	0	22.54	0.179	100
		1	24	22.57	0.181	100
		1	49	22.70	0.186	100
		25	0	22.48	0.177	100
		25	12	22.30	0.170	100
		25	24	22.39	0.173	100
		50	0	21.48	0.141	100
	256QAM	1	0	19.53	0.090	100
		1	24	19.53	0.090	100
		1	49	19.59	0.091	100
		25	0	19.57	0.090	100
		25	12	19.52	0.090	100
		25	24	19.28	0.085	100
		50	0	19.39	0.087	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 821.5 MHz		Limit (W)
				dBm	W	
15	QPSK	1	0	24.43	0.278	100
		1	36	24.39	0.275	100
		1	74	24.49	0.281	100
		36	0	24.47	0.280	100
		36	18	24.28	0.268	100
		36	39	24.28	0.268	100
		75	0	23.50	0.224	100
	16QAM	1	0	23.86	0.243	100
		1	36	23.95	0.248	100
		1	74	23.89	0.245	100
		36	0	22.77	0.189	100
		36	18	22.76	0.189	100
		36	39	22.72	0.187	100
		75	0	22.36	0.172	100
	64QAM	1	0	22.51	0.178	100
		1	36	22.55	0.180	100
		1	74	22.71	0.187	100
		36	0	22.46	0.176	100
		36	18	22.32	0.171	100
		36	39	22.37	0.173	100
		75	0	21.46	0.140	100
	256QAM	1	0	19.52	0.089	100
		1	36	19.51	0.089	100
		1	74	19.59	0.091	100
		36	0	19.58	0.091	100
		36	18	19.51	0.089	100
		36	39	19.29	0.085	100
		75	0	19.40	0.087	100

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8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
814.7	LTE B26/ 1.4 MHz	QPSK	-32.93	30.28	-10.05	1.44	H	< 100	0.076	18.79	1	5
		16QAM	-33.69	29.52	-10.05	1.44	H		0.064	18.03		
		64QAM	-34.89	28.32	-10.05	1.44	H		0.048	16.83		
		256QAM	-37.91	25.30	-10.05	1.44	H		0.024	13.81		
823.3		QPSK	-32.58	30.45	-9.95	1.44	H		0.081	19.06	1	5
		16QAM	-33.29	29.74	-9.95	1.44	H		0.068	18.35		
		64QAM	-34.48	28.55	-9.95	1.44	H		0.052	17.16		
		256QAM	-37.56	25.47	-9.95	1.44	H		0.026	14.08		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
815.5	LTE B26/ 3 MHz	QPSK	-33.11	30.11	-10.05	1.44	H	< 100	0.073	18.62	1	14
		16QAM	-33.78	29.44	-10.05	1.44	H		0.062	17.95		
		64QAM	-34.98	28.24	-10.05	1.44	H		0.047	16.75		
		256QAM	-38.09	25.13	-10.05	1.44	H		0.023	13.64		
822.5		QPSK	-32.59	30.47	-9.95	1.44	H		0.081	19.08	1	14
		16QAM	-33.27	29.79	-9.95	1.44	H		0.069	18.40		
		64QAM	-34.45	28.61	-9.95	1.44	H		0.053	17.22		
		256QAM	-37.57	25.49	-9.95	1.44	H		0.026	14.10		

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Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
816.5	LTE B26/ 5 MHz	QPSK	-32.52	30.68	-10.05	1.44	H	< 100	0.083	19.19	1	24
		16QAM	-33.29	29.91	-10.05	1.44	H		0.070	18.42		
		64QAM	-34.45	28.75	-10.05	1.44	H		0.053	17.26		
		256QAM	-37.50	25.70	-10.05	1.44	H		0.026	14.21		
821.5		QPSK	-32.23	30.87	-9.95	1.44	H		0.089	19.48	1	24
		16QAM	-32.93	30.17	-9.95	1.44	H		0.076	18.78		
		64QAM	-34.24	28.86	-9.95	1.44	H		0.056	17.47		
		256QAM	-37.42	25.68	-9.95	1.44	H		0.027	14.29		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	-32.10	31.06	-10.05	1.44	H	< 100	0.091	19.57	1	49
		16QAM	-32.93	30.23	-10.05	1.44	H		0.075	18.74		
		64QAM	-34.11	29.05	-10.05	1.44	H		0.057	17.56		
		256QAM	-37.11	26.05	-10.05	1.44	H		0.029	14.56		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
821.5	LTE B26/ 15 MHz	QPSK	-31.89	31.21	-9.95	1.44	H	< 7.00	0.096	19.82	1	74
		16QAM	-32.78	30.32	-9.95	1.44	H		0.078	18.93		
		64QAM	-33.91	29.19	-9.95	1.44	H		0.060	17.80		
		256QAM	-36.87	26.23	-9.95	1.44	H		0.031	14.84		

Note

1. Limit: None (for reporting purposes only)

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8.3 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B26

▣ MODULATION SIGNAL: 15 MHz QPSK

▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit	Size	
									Size	Offset
26765 (821.5)	1 643.00	-50.58	9.39	-65.42	2.00	H	-58.03	-13.00	1	74
	2 464.50	-54.19	10.37	-65.35	2.59	H	-57.57	-13.00		
	3 286.00	-54.57	10.98	-62.68	2.95	H	-54.65	-13.00		

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8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Band 26	1.4 MHz	823.3	QPSK	6	0	1.0998
			16QAM			1.0974
			64QAM			1.0974
			256QAM			1.0961
	3 MHz	822.5	QPSK	15		2.7214
			16QAM			2.7079
			64QAM			2.7112
			256QAM			2.7081
	5 MHz	821.5	QPSK	25		4.5353
			16QAM			4.5165
			64QAM			4.5257
			256QAM			4.5415
	10 MHz	819.0	QPSK	50		9.0146
			16QAM			9.0084
			64QAM			9.0199
			256QAM			9.0023
	15 MHz	821.5	QPSK	75		13.445
			16QAM			13.440
			64QAM			13.471
			256QAM			13.427

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 46 ~ 65.

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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)
26	1.4	814.7	3.3002	27.976	-57.812	-29.836	-13.00
		823.3	3.6890	27.976	-57.803	-29.827	
	3	815.5	3.7488	27.976	-58.057	-30.081	
		822.5	3.6790	27.976	-58.286	-30.310	
	5	816.5	5.6431	28.591	-57.649	-29.058	
		821.5	3.6790	27.976	-56.640	-28.664	
	10	819.0	3.6790	27.976	-58.172	-30.196	
	15	821.5	2.5823	27.976	-58.013	-30.037	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 66 ~ 73.
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

8.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 74 ~ 93.

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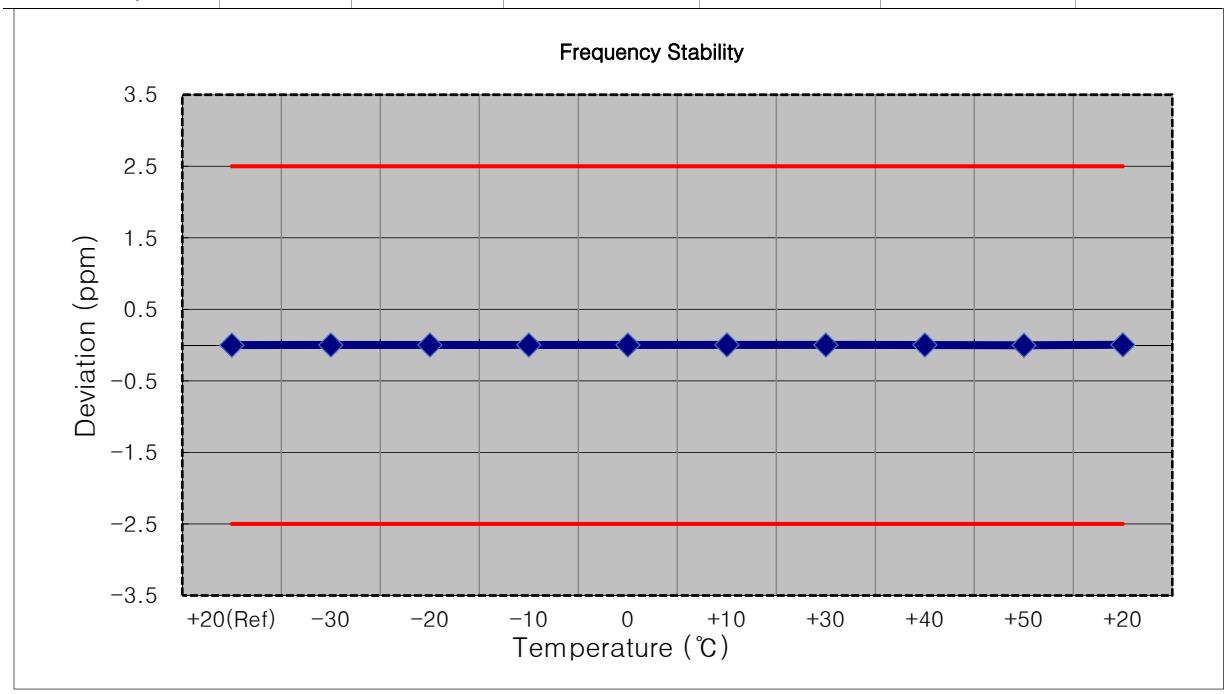
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 814,700,000 Hz
- ▣ CHANNEL: 26697(1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	814 700 002	0.0	0.000 000	0.000
100 %		-30	814 700 004	2.0	0.000 000	0.002
100 %		-20	814 700 004	1.8	0.000 000	0.002
100 %		-10	814 700 004	2.0	0.000 000	0.002
100 %		0	814 700 003	1.1	0.000 000	0.001
100 %		+10	814 700 004	2.4	0.000 000	0.003
100 %		+30	814 700 003	1.2	0.000 000	0.001
100 %		+40	814 700 004	1.5	0.000 000	0.002
100 %		+50	814 700 000	-1.7	0.000 000	-0.002
Batt. Endpoint	3.300	+20	814 700 004	2.2	0.000 000	0.003



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▣ MODE: LTE 26

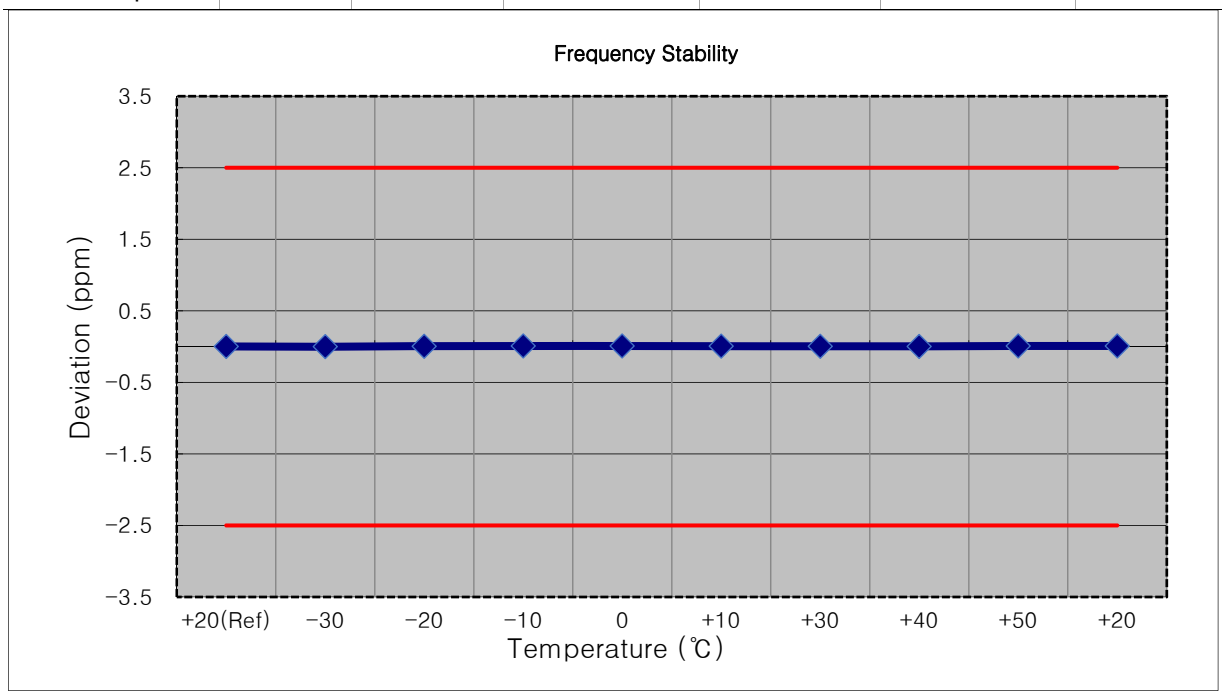
▣ OPERATING FREQUENCY: 815,500,000 Hz

▣ CHANNEL: 26705(3 MHz)

▣ REFERENCE VOLTAGE: 3.880 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	815 500 003	0.0	0.000 000	0.000
100 %		-30	815 500 001	-2.1	0.000 000	-0.003
100 %		-20	815 500 005	1.9	0.000 000	0.002
100 %		-10	815 500 009	6.1	0.000 001	0.007
100 %		0	815 500 010	6.7	0.000 001	0.008
100 %		+10	815 500 006	3.5	0.000 000	0.004
100 %		+30	815 500 006	3.2	0.000 000	0.004
100 %		+40	815 500 004	1.5	0.000 000	0.002
100 %		+50	815 500 009	6.5	0.000 001	0.008
Batt. Endpoint	3.300	+20	815 500 009	6.6	0.000 001	0.008



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▣ MODE: LTE 26

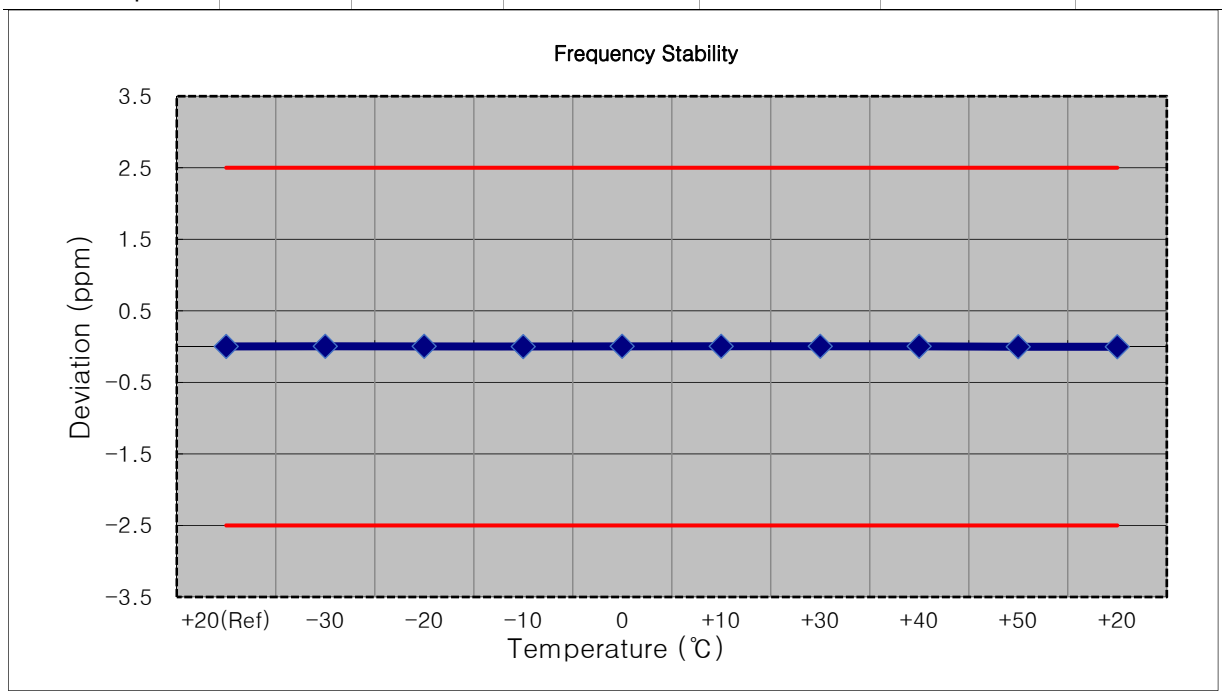
▣ OPERATING FREQUENCY: 816,500,000 Hz

▣ CHANNEL: 26715(5 MHz)

▣ REFERENCE VOLTAGE: 3.880 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	816 500 001	0.0	0.000 000	0.000
100 %		-30	816 500 003	2.0	0.000 000	0.002
100 %		-20	816 500 004	2.5	0.000 000	0.003
100 %		-10	816 499 999	-2.1	0.000 000	-0.003
100 %		0	816 500 004	2.2	0.000 000	0.003
100 %		+10	816 500 003	2.0	0.000 000	0.002
100 %		+30	816 500 004	2.1	0.000 000	0.003
100 %		+40	816 500 003	1.9	0.000 000	0.002
100 %		+50	816 499 999	-2.3	0.000 000	-0.003
Batt. Endpoint	3.300	+20	816 499 999	-2.8	0.000 000	-0.003



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▣ MODE: LTE 26

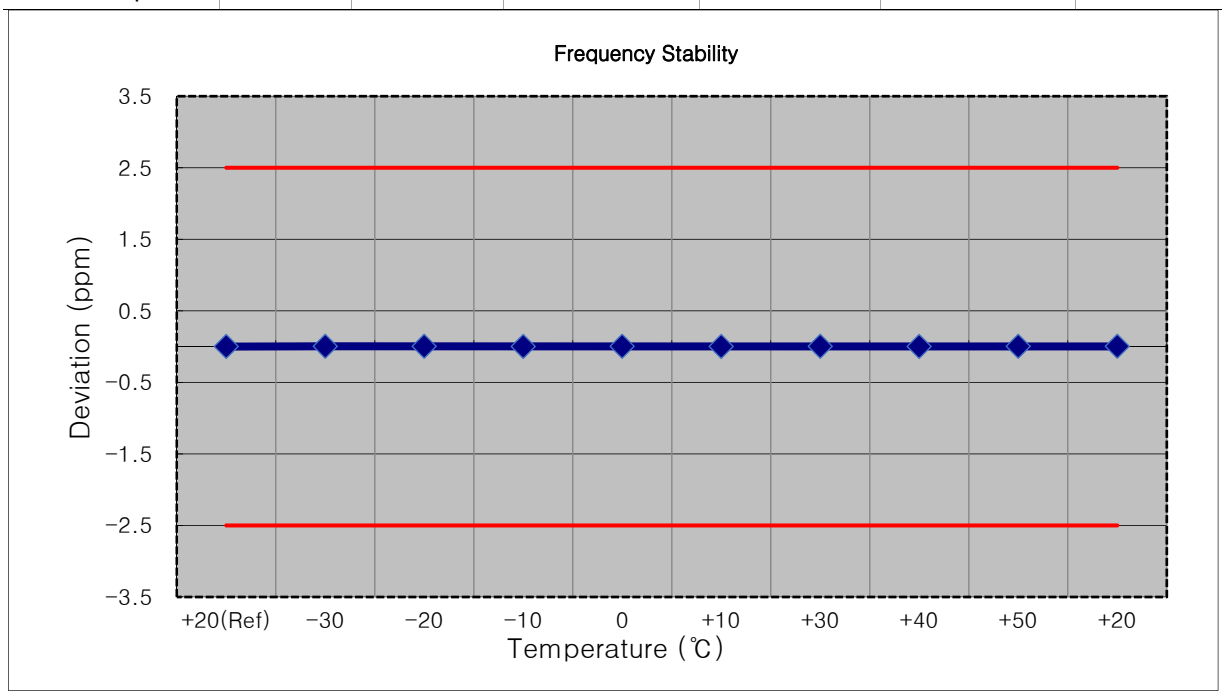
▣ OPERATING FREQUENCY: 819,000,000 Hz

▣ CHANNEL: 26740(10 MHz)

▣ REFERENCE VOLTAGE: 3.880 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	819 000 001	0.0	0.000 000	0.000
100 %		-30	819 000 003	1.7	0.000 000	0.002
100 %		-20	819 000 003	1.6	0.000 000	0.002
100 %		-10	819 000 003	1.3	0.000 000	0.002
100 %		0	819 000 003	1.8	0.000 000	0.002
100 %		+10	819 000 003	1.3	0.000 000	0.002
100 %		+30	819 000 003	1.6	0.000 000	0.002
100 %		+40	819 000 003	1.4	0.000 000	0.002
100 %		+50	819 000 003	1.8	0.000 000	0.002
Batt. Endpoint	3.300	+20	819 000 003	1.8	0.000 000	0.002



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▣ MODE: LTE 26

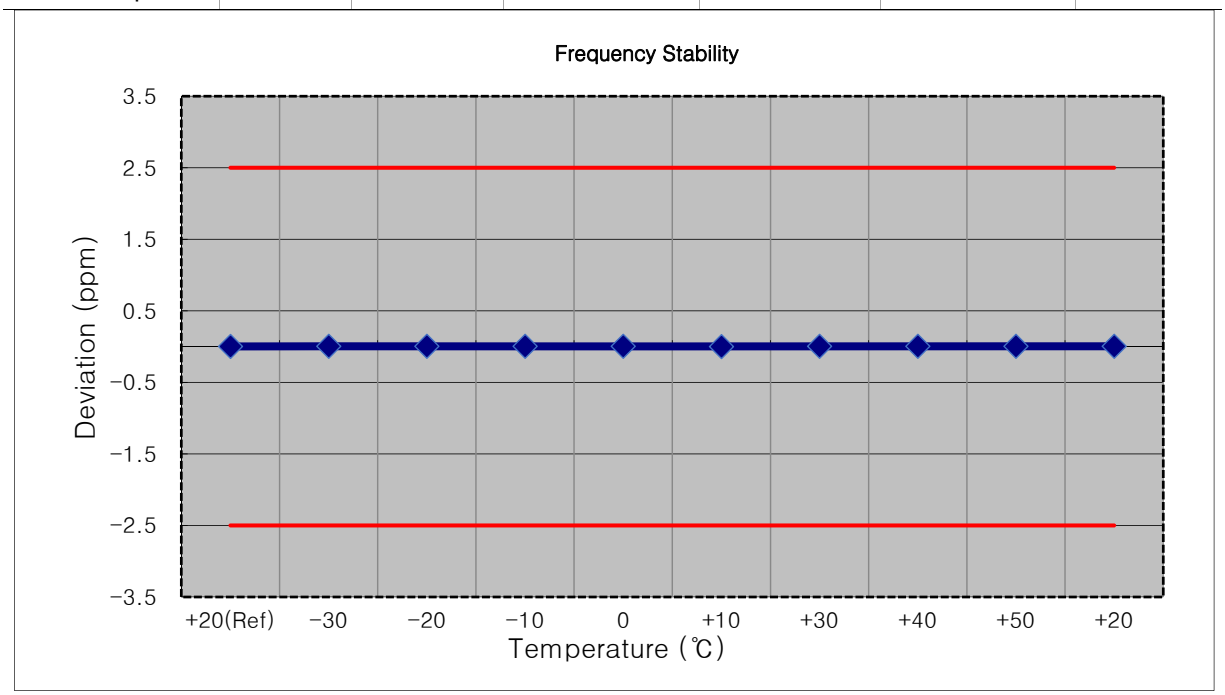
▣ OPERATING FREQUENCY: 821,500,000 Hz

▣ CHANNEL: 26765(15 MHz)

▣ REFERENCE VOLTAGE: 3.880 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	821 500 002	0.0	0.000 000	0.000
100 %		-30	821 500 005	2.4	0.000 000	0.003
100 %		-20	821 500 004	1.9	0.000 000	0.002
100 %		-10	821 500 005	2.5	0.000 000	0.003
100 %		0	821 500 005	2.8	0.000 000	0.003
100 %		+10	821 500 001	-1.2	0.000 000	-0.001
100 %		+30	821 500 005	2.5	0.000 000	0.003
100 %		+40	821 500 005	2.4	0.000 000	0.003
100 %		+50	821 500 005	2.3	0.000 000	0.003
Batt. Endpoint	3.300	+20	821 500 005	2.4	0.000 000	0.003



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8.8 STRADDLE CHANNEL

8.8.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 824 MHz		Limit (W)
				dBm	W	
1.4	QPSK	1	0	24.44	0.278	100
		1	3	24.41	0.276	100
		1	5	24.50	0.282	100
		3	0	24.47	0.280	100
		3	1	24.27	0.267	100
		3	3	24.27	0.267	100
		6	0	23.51	0.224	100
	16QAM	1	0	23.85	0.243	100
		1	3	23.95	0.248	100
		1	5	23.91	0.246	100
		3	0	22.80	0.191	100
		3	1	22.75	0.188	100
		3	3	22.70	0.186	100
		6	0	22.36	0.172	100
	64QAM	1	0	22.51	0.178	100
		1	3	22.58	0.181	100
		1	5	22.73	0.187	100
		3	0	22.44	0.176	100
		3	1	22.32	0.171	100
		3	3	22.40	0.174	100
		6	0	21.48	0.141	100
	256QAM	1	0	19.50	0.089	100
		1	3	19.52	0.090	100
		1	5	19.57	0.091	100
		3	0	19.56	0.090	100
		3	1	19.50	0.089	100
		3	3	19.29	0.085	100
		6	0	19.39	0.087	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 824 MHz dBm	Max. output power(dBm) 824 MHz W	Limit (W)
3	QPSK	1	0	24.42	0.276	100
		1	7	24.40	0.276	100
		1	14	24.50	0.282	100
		8	0	24.47	0.280	100
		8	3	24.29	0.268	100
		8	7	24.30	0.269	100
		15	0	23.51	0.224	100
	16QAM	1	0	23.86	0.243	100
		1	7	23.96	0.249	100
		1	14	23.91	0.246	100
		8	0	22.78	0.189	100
		8	3	22.77	0.189	100
		8	7	22.73	0.187	100
		15	0	22.35	0.172	100
	64QAM	1	0	22.52	0.179	100
		1	7	22.56	0.180	100
		1	14	22.73	0.187	100
		8	0	22.47	0.177	100
		8	3	22.31	0.170	100
		8	7	22.37	0.173	100
		15	0	21.47	0.140	100
	256QAM	1	0	19.50	0.089	100
		1	7	19.53	0.090	100
		1	14	19.56	0.090	100
		8	0	19.59	0.091	100
		8	3	19.53	0.090	100
		8	7	19.28	0.085	100
		15	0	19.41	0.087	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 824 MHz dBm	Max. output power(dBm) 824 MHz W	Limit (W)
5	QPSK	1	0	24.40	0.276	100
		1	12	24.40	0.276	100
		1	24	24.52	0.283	100
		12	0	24.49	0.281	100
		12	6	24.28	0.268	100
		12	11	24.30	0.269	100
		25	0	23.52	0.225	100
	16QAM	1	0	23.84	0.242	100
		1	12	23.94	0.248	100
		1	24	23.89	0.245	100
		12	0	22.78	0.190	100
		12	6	22.78	0.190	100
		12	11	22.69	0.186	100
		25	0	22.38	0.173	100
	64QAM	1	0	22.53	0.179	100
		1	12	22.56	0.180	100
		1	24	22.71	0.187	100
		12	0	22.47	0.177	100
		12	6	22.32	0.170	100
		12	11	22.41	0.174	100
		25	0	21.49	0.141	100
	256QAM	1	0	19.50	0.089	100
		1	12	19.52	0.090	100
		1	24	19.57	0.091	100
		12	0	19.60	0.091	100
		12	6	19.52	0.090	100
		12	11	19.27	0.085	100
		25	0	19.41	0.087	100

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Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 824 MHz dBm	Max. output power(dBm) 824 MHz W	Limit (W)
10	QPSK	1	0	24.40	0.276	100
		1	24	24.37	0.274	100
		1	49	24.51	0.283	100
		25	0	24.46	0.279	100
		25	12	24.26	0.267	100
		25	24	24.28	0.268	100
		50	0	23.50	0.224	100
	16QAM	1	0	23.85	0.243	100
		1	24	23.95	0.249	100
		1	49	23.92	0.246	100
		25	0	22.77	0.189	100
		25	12	22.77	0.189	100
		25	24	22.72	0.187	100
		50	0	22.39	0.173	100
	64QAM	1	0	22.50	0.178	100
		1	24	22.56	0.180	100
		1	49	22.72	0.187	100
		25	0	22.46	0.176	100
		25	12	22.30	0.170	100
		25	24	22.37	0.173	100
		50	0	21.50	0.141	100
	256QAM	1	0	19.51	0.089	100
		1	24	19.51	0.089	100
		1	49	19.55	0.090	100
		25	0	19.59	0.091	100
		25	12	19.51	0.089	100
		25	24	19.26	0.084	100
		50	0	19.42	0.088	100

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8.8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 1.4 MHz	QPSK	-32.55	30.45	-9.95	1.44	H	< 7.00	0.081	19.06	1	5
		16QAM	-33.24	29.76	-9.95	1.44	H		0.069	18.37		
		64QAM	-34.49	28.51	-9.95	1.44	H		0.052	17.12		
		256QAM	-37.49	25.51	-9.95	1.44	H		0.026	14.12		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 3 MHz	QPSK	-32.40	30.60	-9.95	1.44	H	< 7.00	0.083	19.21	1	14
		16QAM	-33.08	29.92	-9.95	1.44	H		0.071	18.53		
		64QAM	-34.27	28.73	-9.95	1.44	H		0.054	17.34		
		256QAM	-37.39	25.61	-9.95	1.44	H		0.026	14.22		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 5 MHz	QPSK	-31.90	31.10	-9.95	1.44	H	< 7.00	0.094	19.71	1	24
		16QAM	-32.67	30.33	-9.95	1.44	H		0.078	18.94		
		64QAM	-33.85	29.15	-9.95	1.44	H		0.060	17.76		
		256QAM	-36.89	26.11	-9.95	1.44	H		0.030	14.72		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 10 MHz	QPSK	-31.91	31.09	-9.95	1.44	H	< 7.00	0.093	19.70	1	49
		16QAM	-32.73	30.27	-9.95	1.44	H		0.077	18.88		
		64QAM	-33.91	29.09	-9.95	1.44	H		0.059	17.70		
		256QAM	-36.91	26.09	-9.95	1.44	H		0.030	14.70		

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8.8.3 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B26(Straddle)

▣ MODULATION SIGNAL: 5 MHz QPSK

▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit	RB	
									Size	Offset
26790 (824.0)	1 648.00	-51.51	9.44	-66.45	2.02	H	-59.03	-13.00	1	24
	2 472.00	-53.85	10.35	-65.05	2.59	H	-57.29	-13.00		
	3 296.00	-54.57	11.06	-62.73	2.95	H	-54.62	-13.00		

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8.8.4 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	824.0	3.6790	27.976	-58.458	-30.482	-13.00
	3		3.1905	27.976	-58.246	-30.270	
	5		3.0808	27.976	-57.153	-29.177	
	10		5.6631	28.591	-57.983	-29.392	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 95 ~ 98.
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 + 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

8.8.5 CHANNEL EDGE(Part90)

- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Band Edge are shown Page 99 ~ 110.

8.8.6 BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 111 ~ 118.

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9. TEST PLOTS

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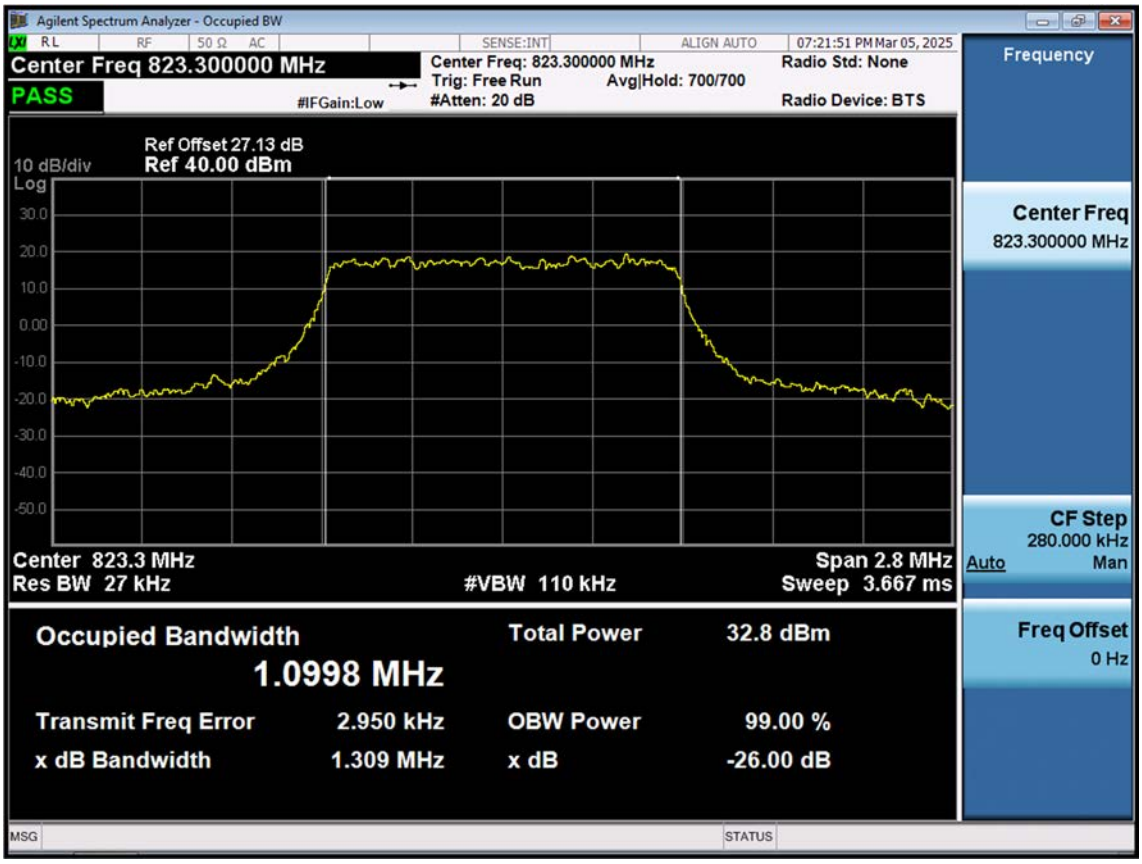
LTE B26(Part90)_1.4 M_OBW_Mid_QPSK_FullRB



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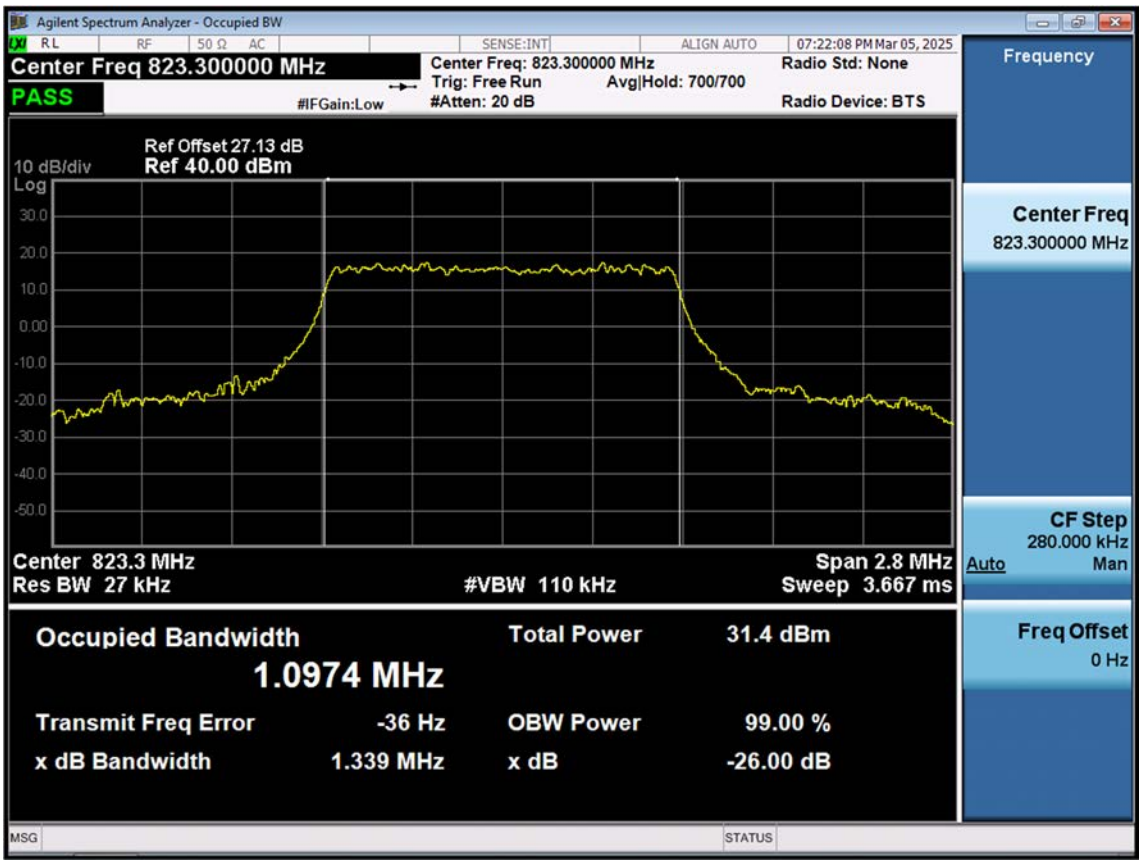
LTE B26(Part90)_1.4 M_OBW_Mid_16QAM_FullRB



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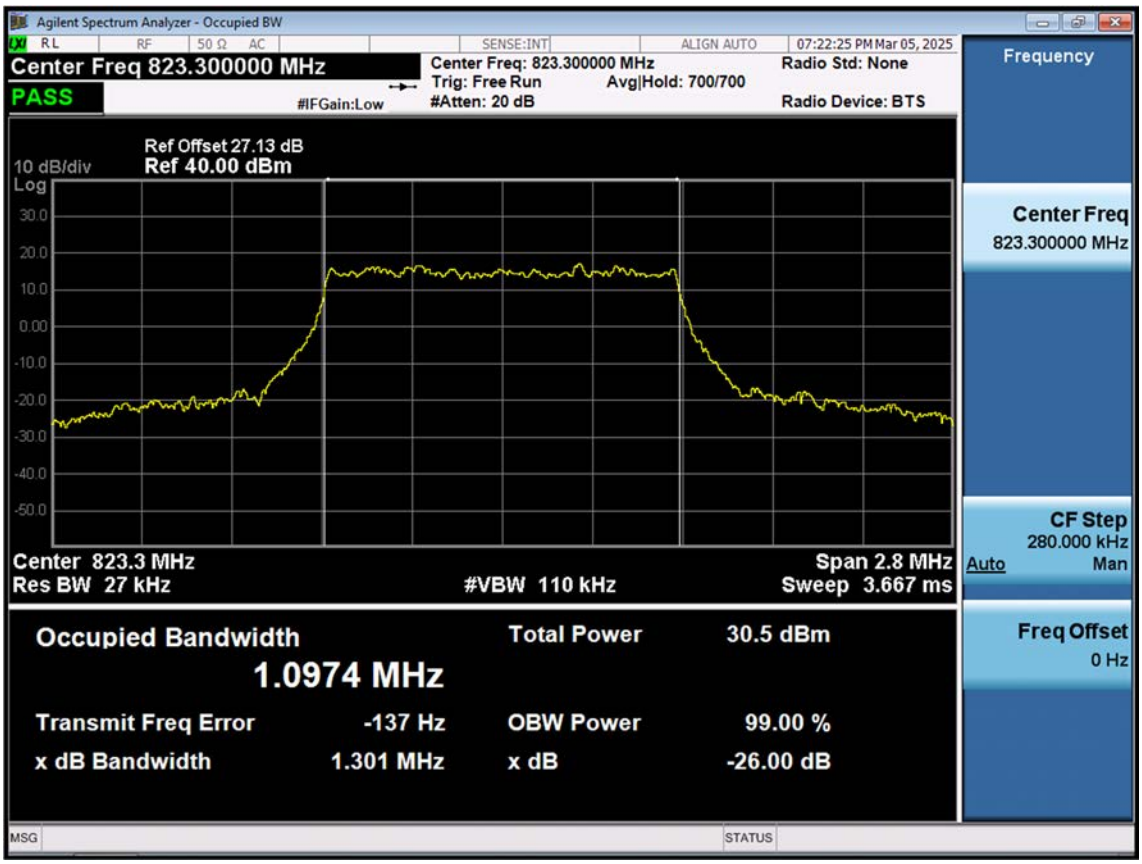
LTE B26(Part90)_1.4 M_OBW_Mid_64QAM_FullRB



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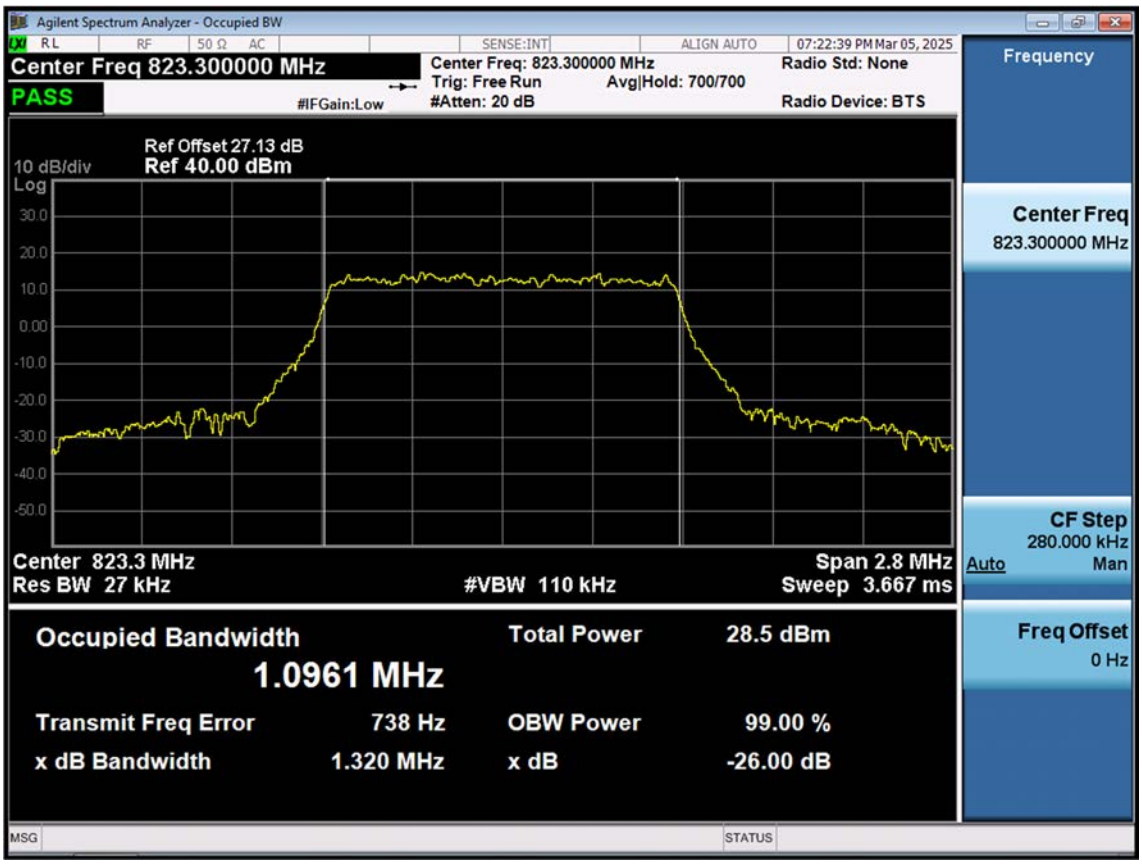
LTE B26(Part90)_1.4 M_OBW_Mid_256QAM_FullRB



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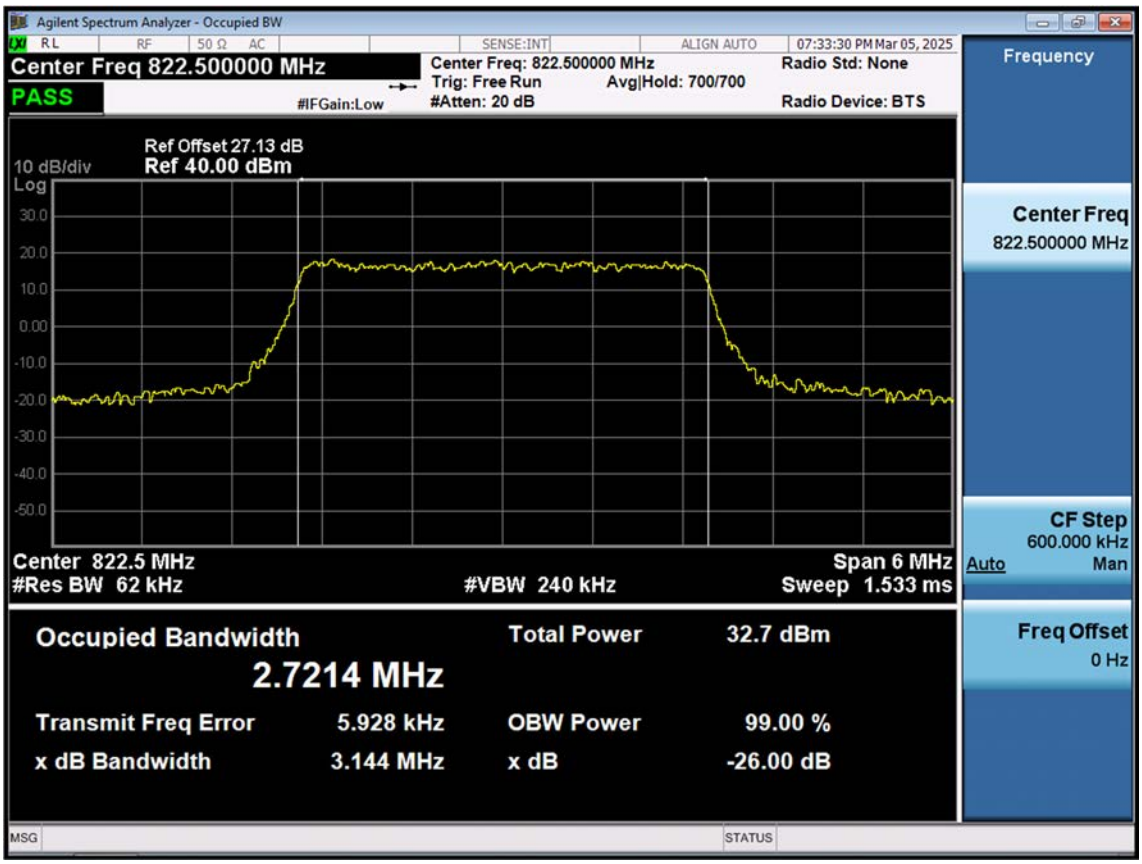
LTE B26(Part90)_3 M_OBW_Mid_QPSK_FullRB



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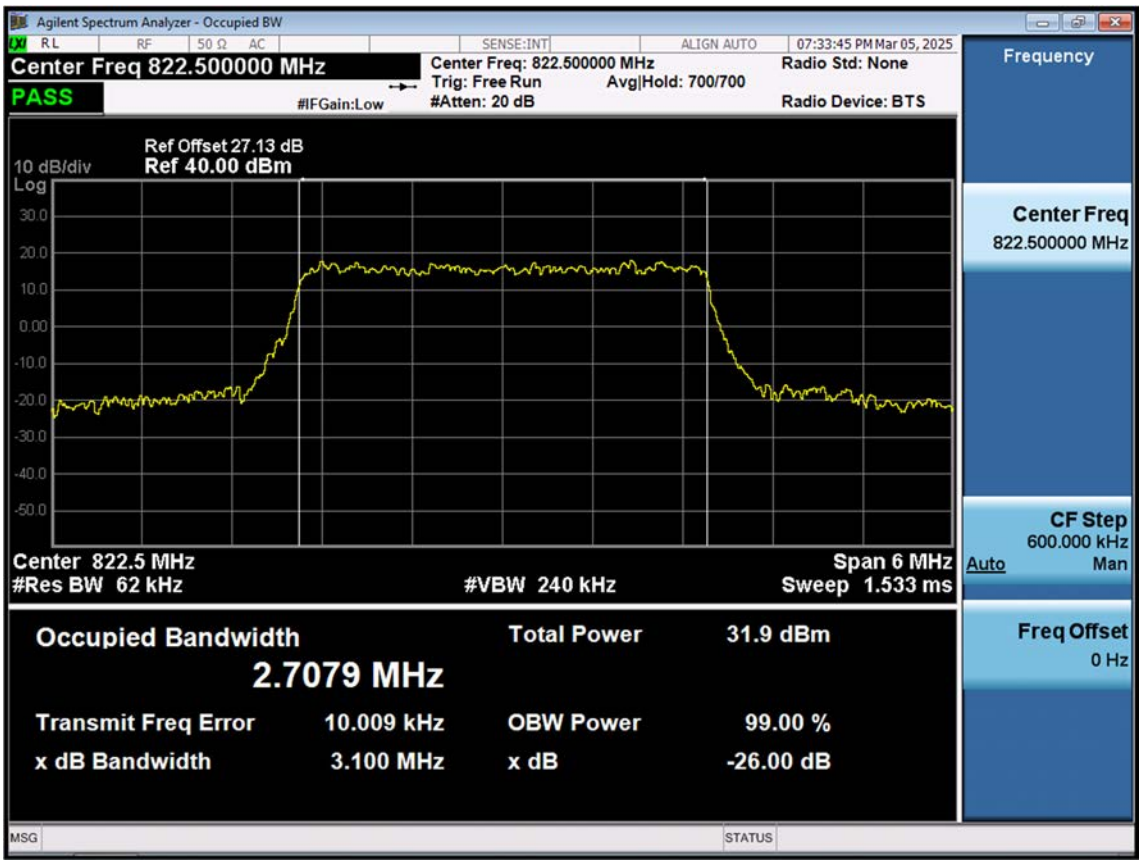
LTE B26(Part90)_3 M_OBW_Mid_16QAM_FullRB



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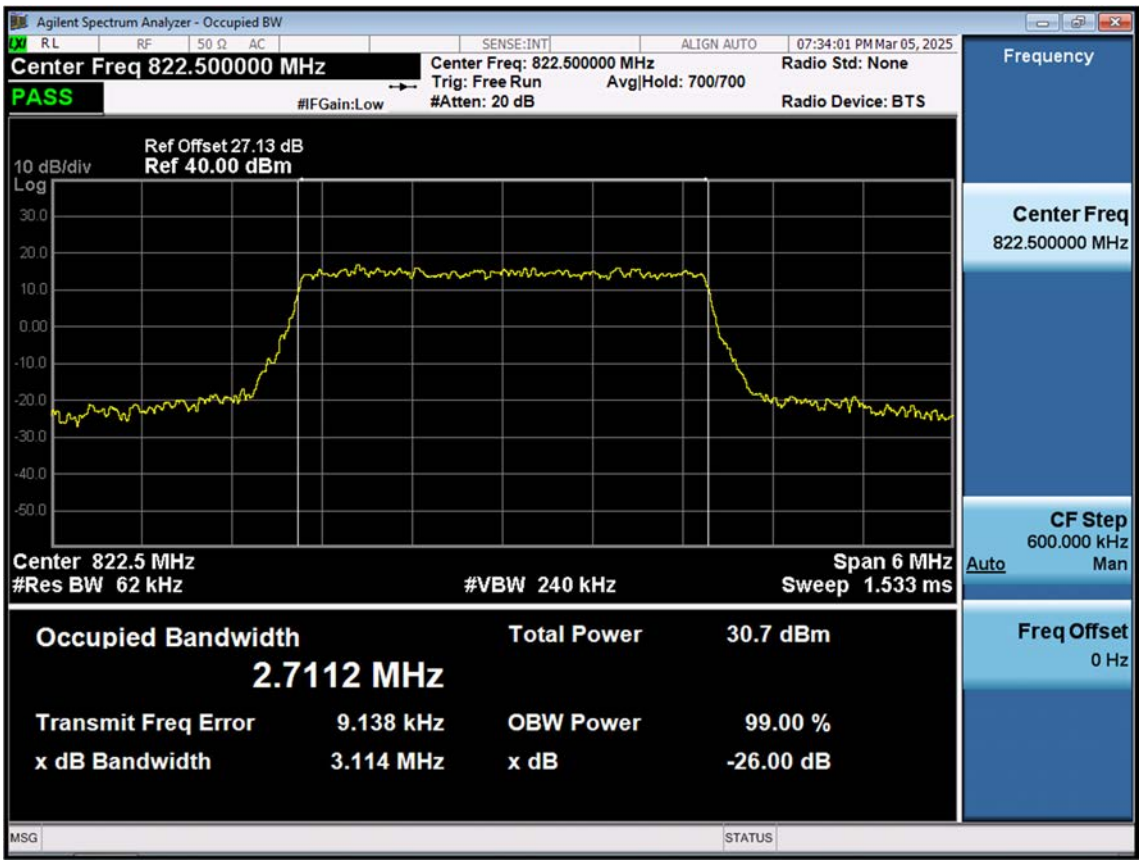
LTE B26(Part90)_3 M_OBW_Mid_64QAM_FullRB



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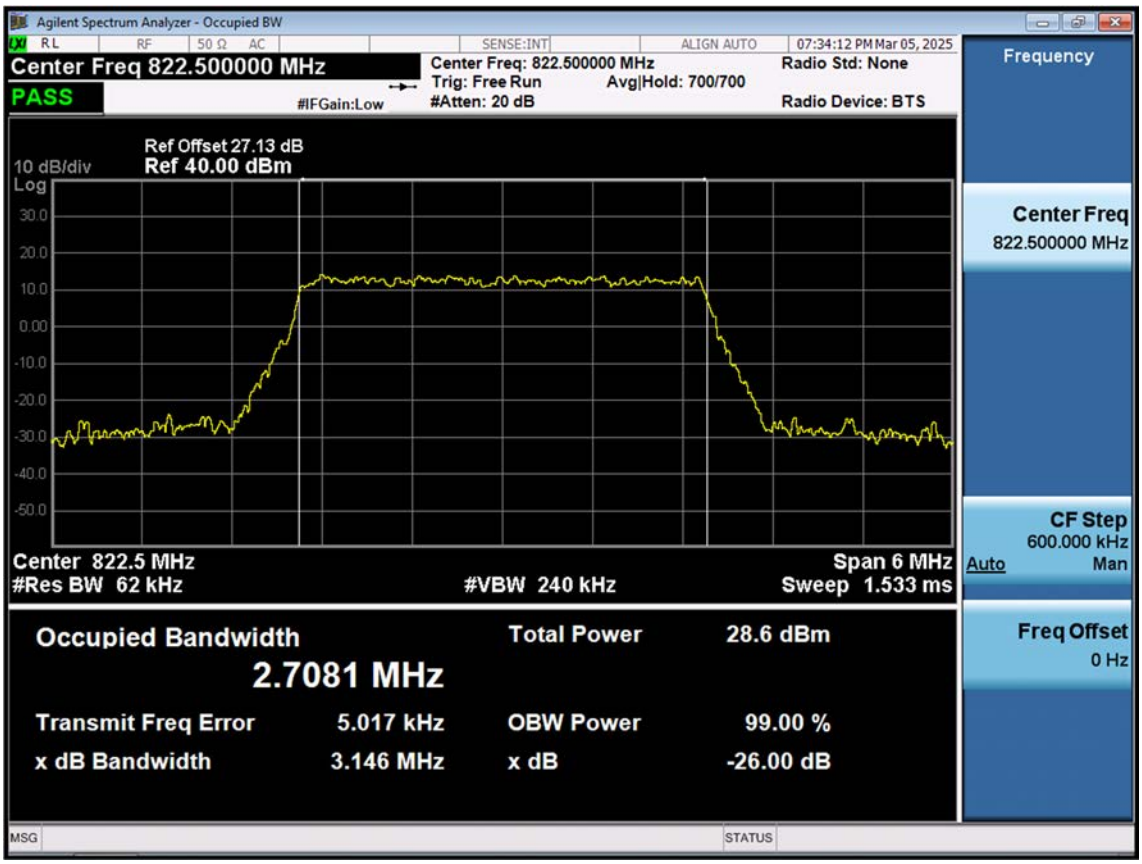
LTE B26(Part90)_3 M_OBW_Mid_256QAM_FullRB



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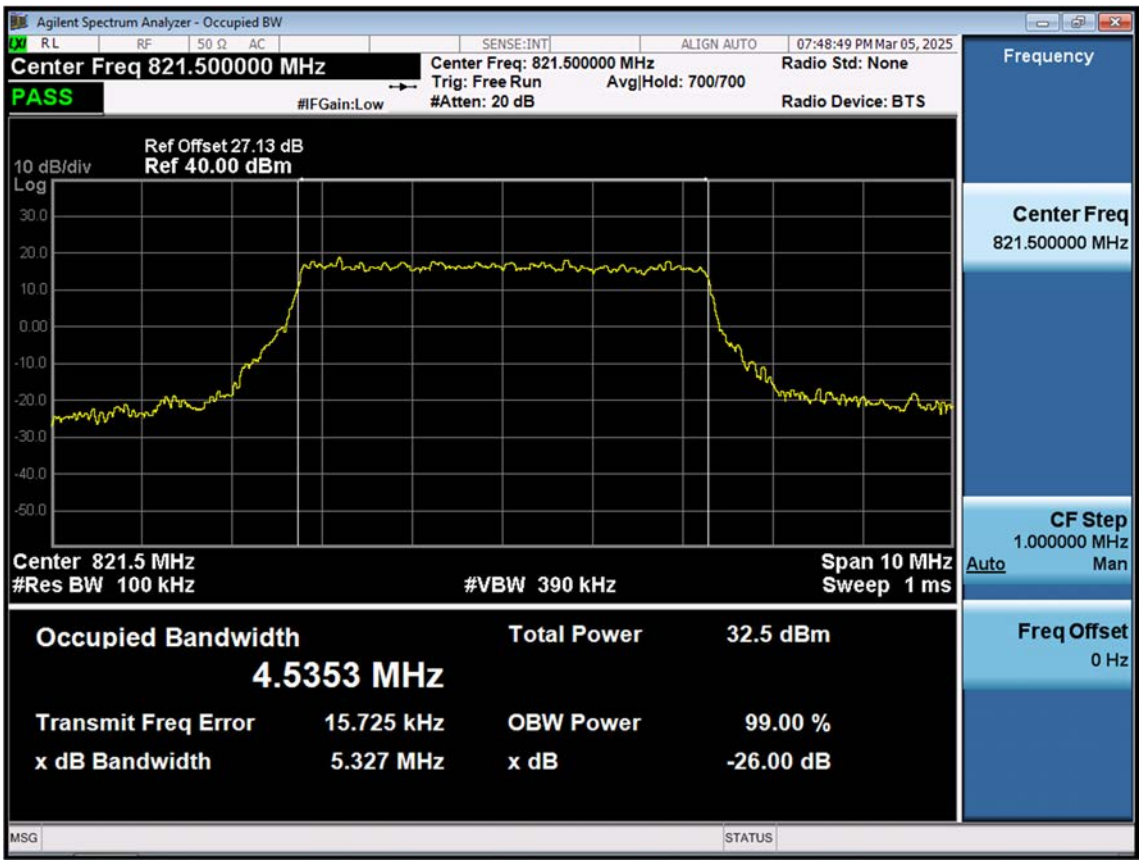
LTE B26(Part90)_5 M_OBW_Mid_QPSK_FullRB



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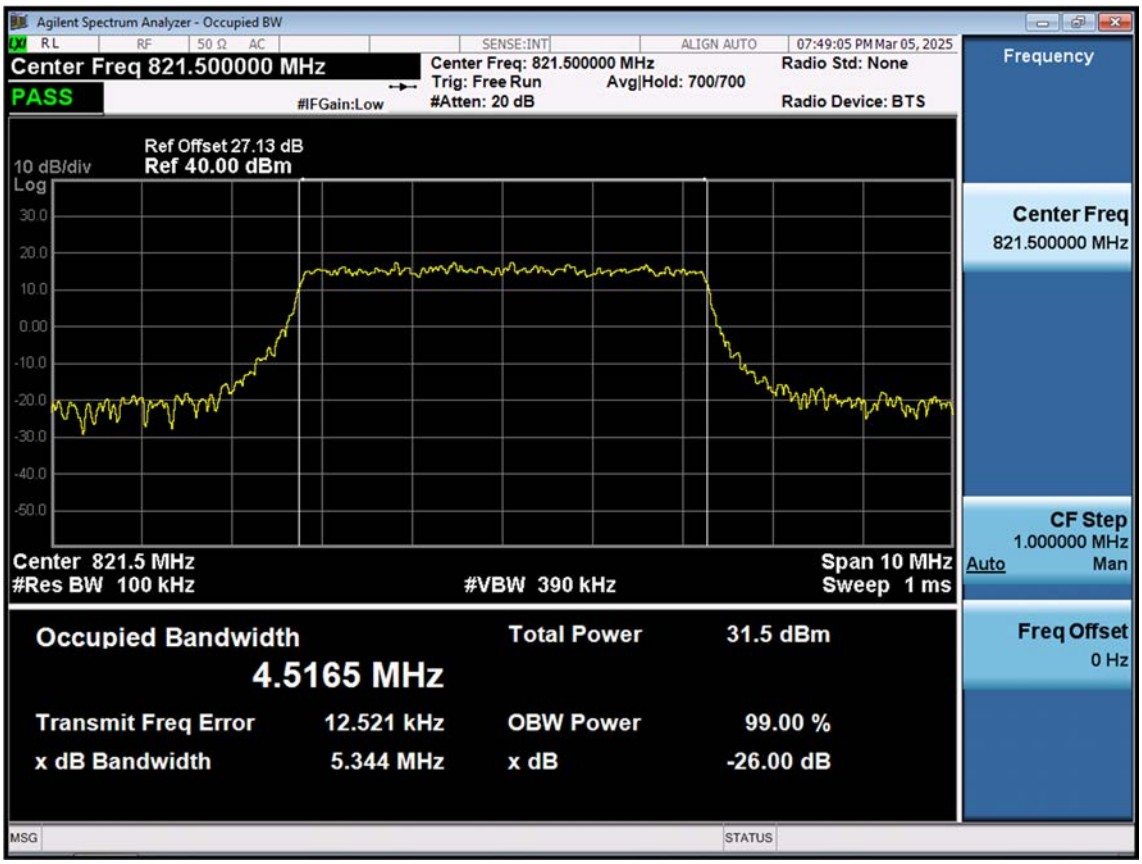
LTE B26(Part90)_5 M_OBW_Mid_16QAM_FullRB



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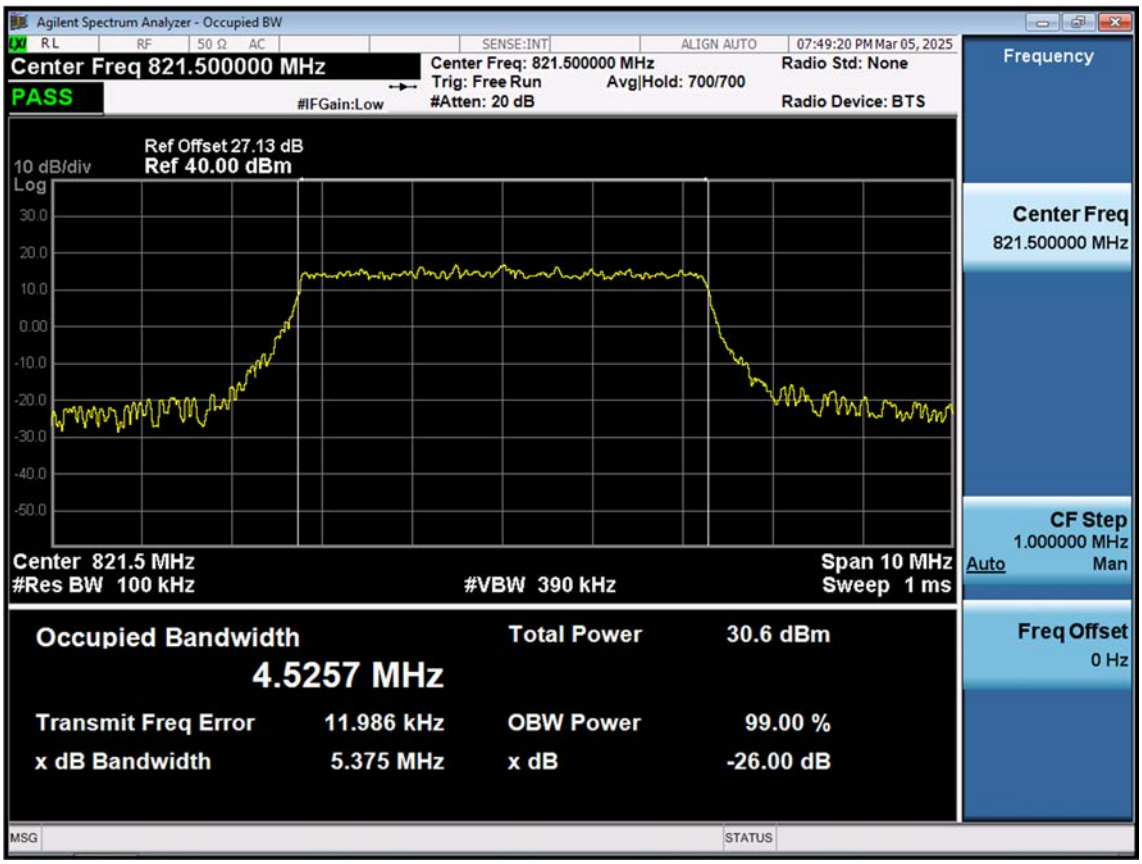
LTE B26(Part90)_5 M_OBW_Mid_64QAM_FullRB



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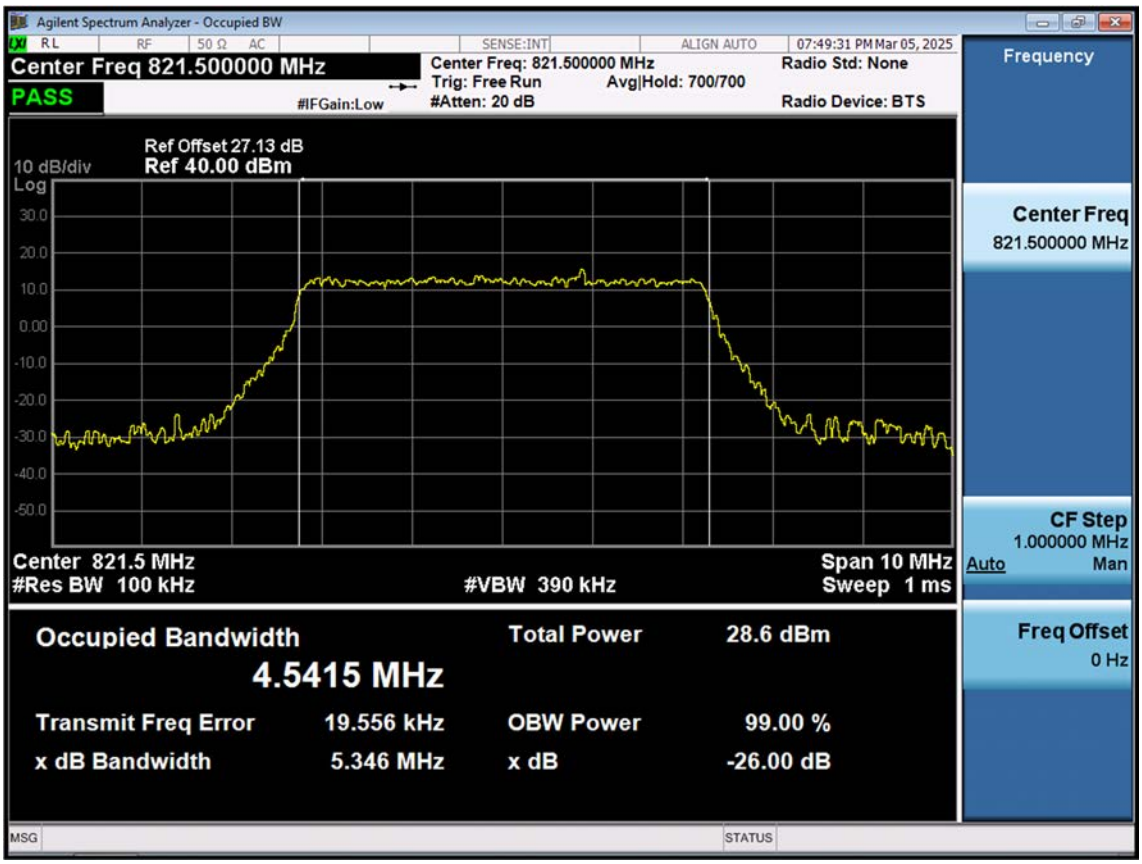
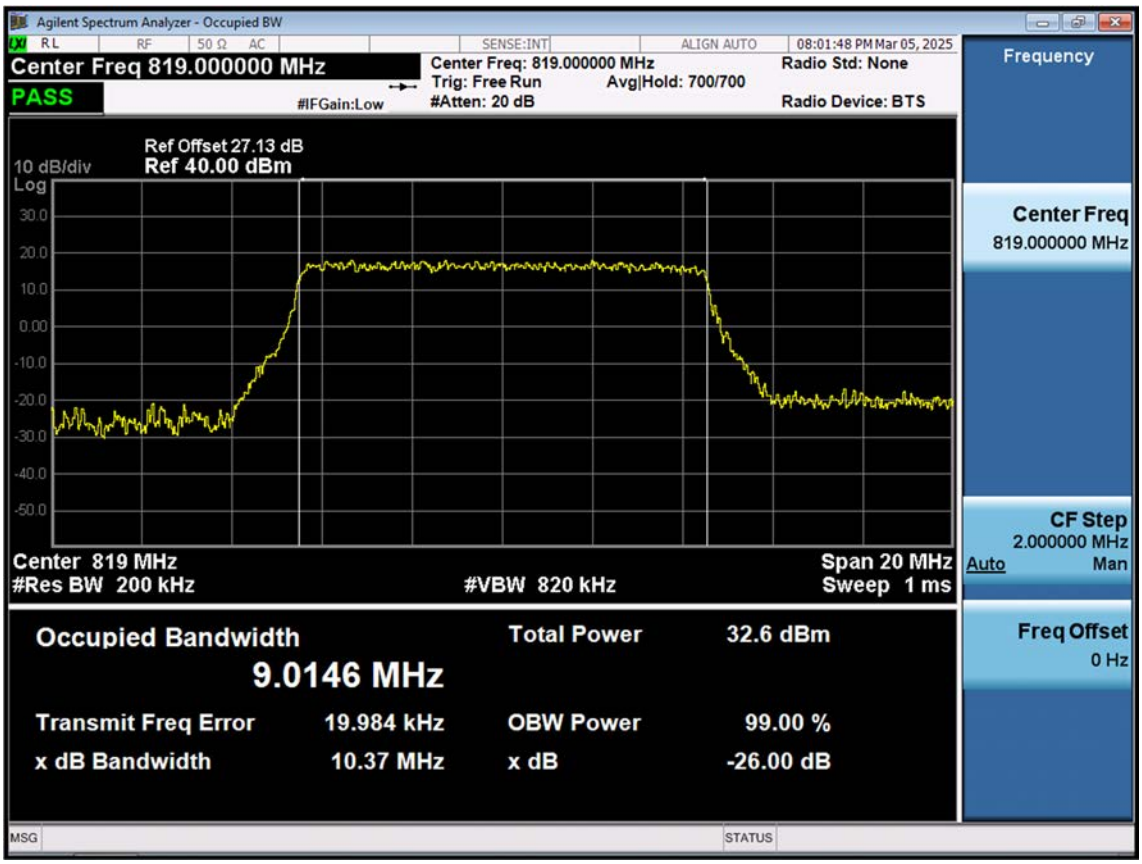
LTE B26(Part90)_5 M_OBW_Mid_256QAM_FullRB



The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_10 M_OBW_Mid_QPSK_FullRB



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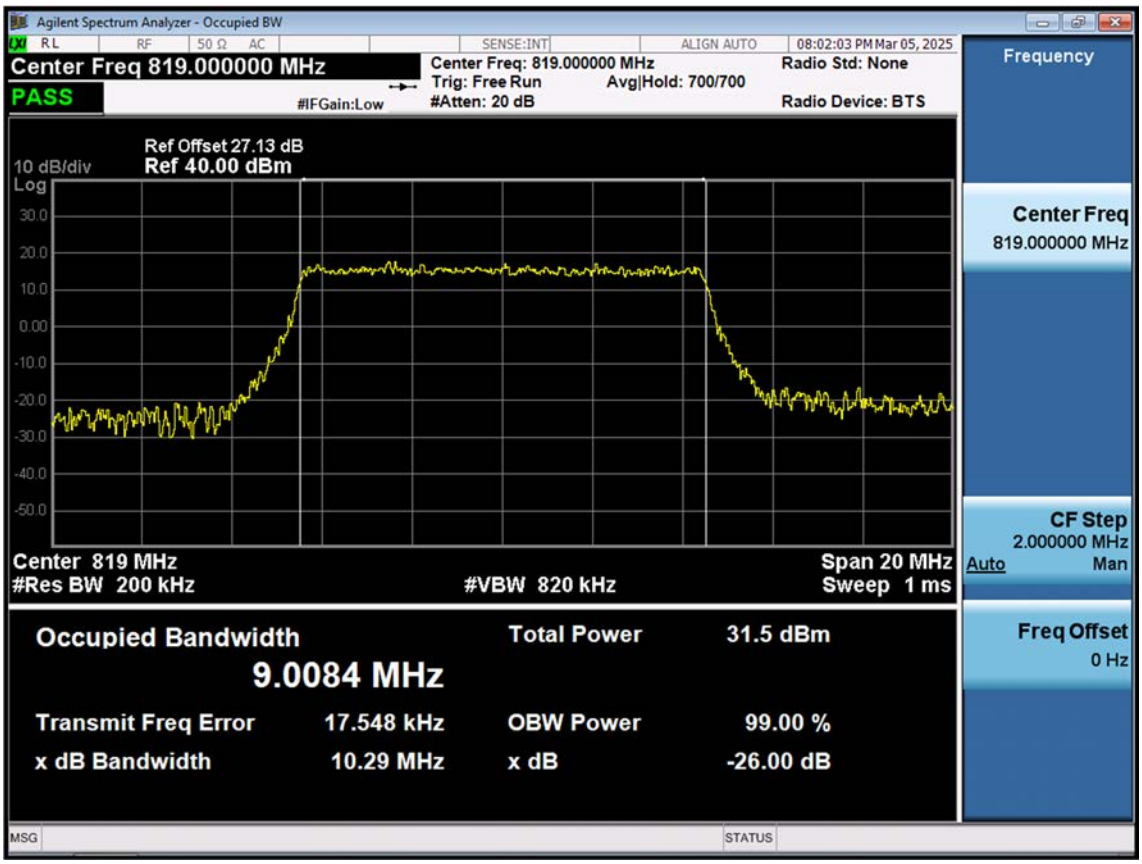
LTE B26(Part90)_10 M_OBW_Mid_16QAM_FullRB



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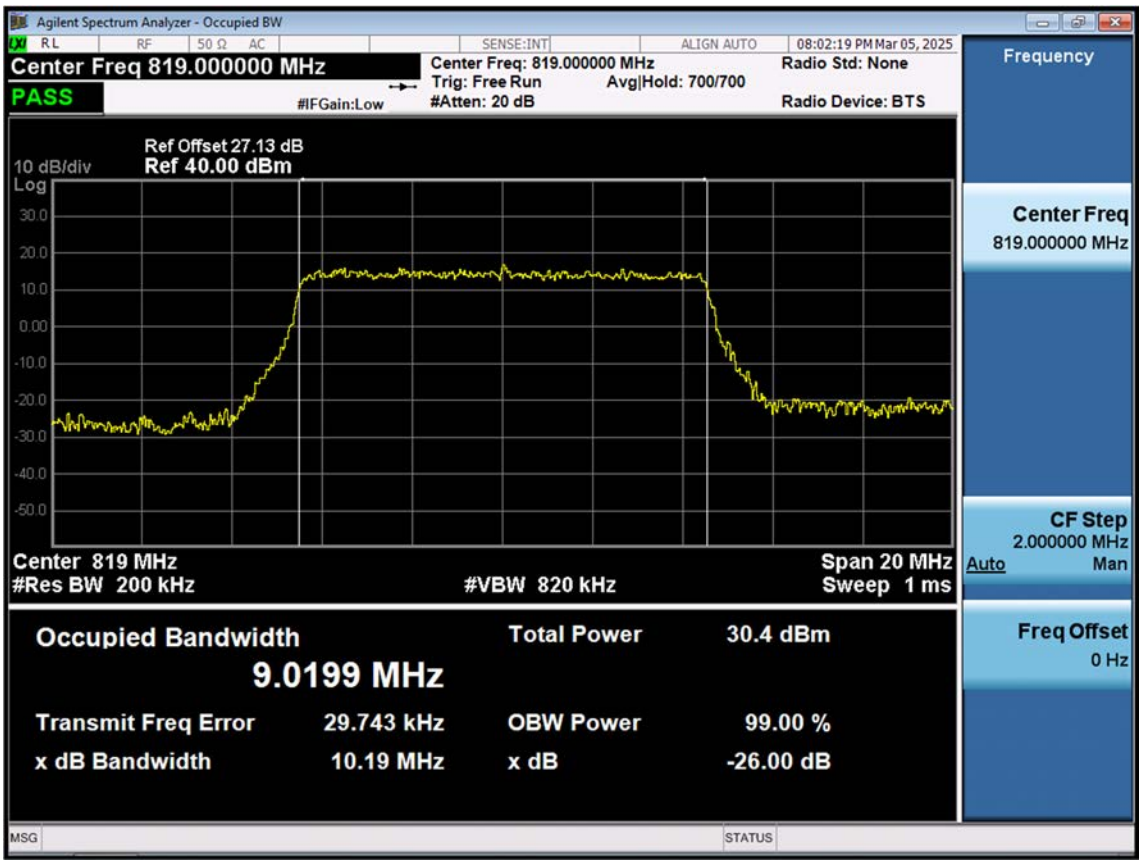
LTE B26(Part90)_10 M_OBW_Mid_64QAM_FullRB



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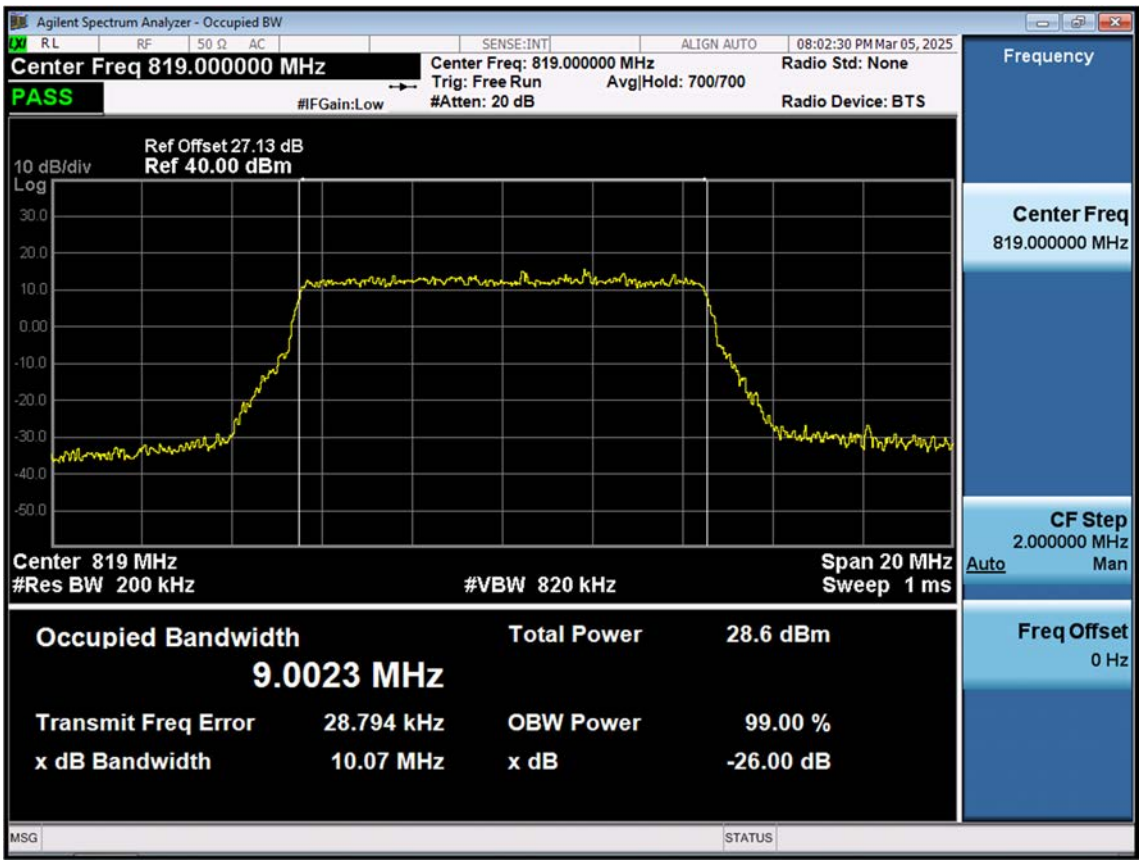
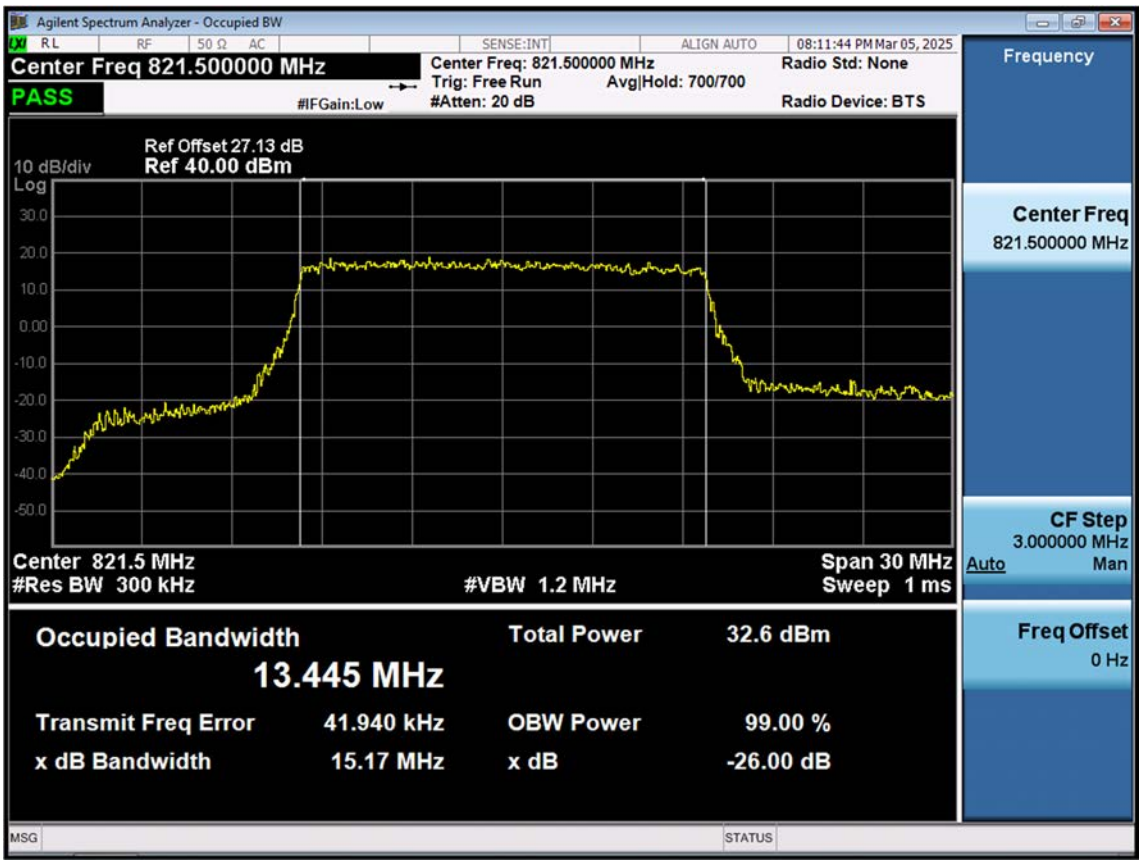
LTE B26(Part90)_10 M_OBW_Mid_256QAM_FullRB



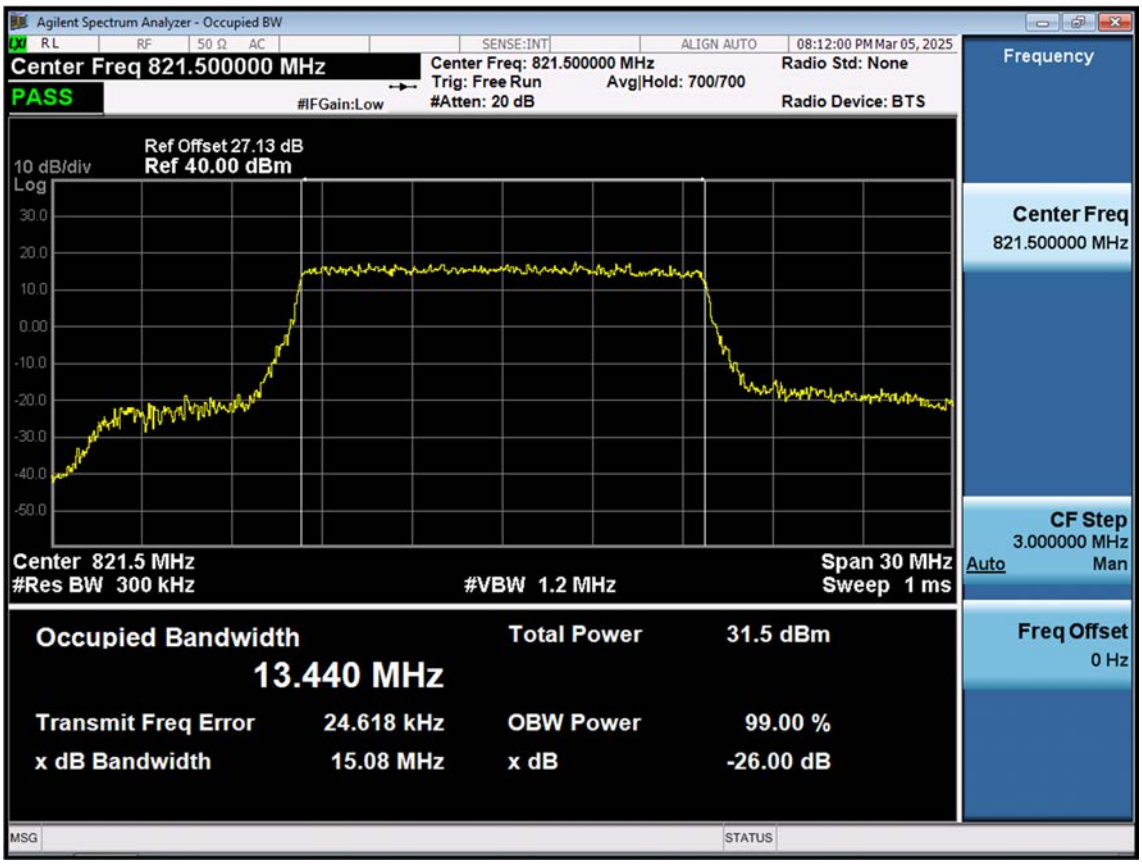
The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_15 M_OBW_Mid_QPSK_FullRB



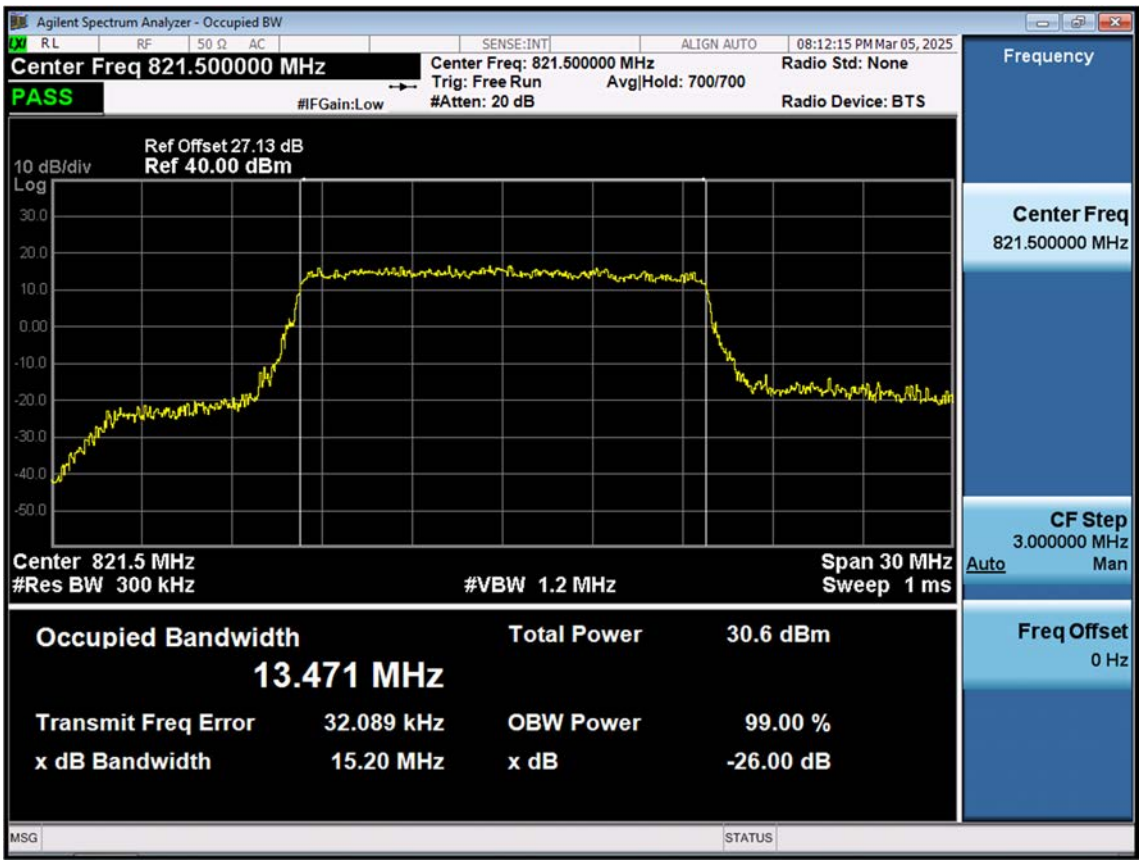
The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_15 M_OBW_Mid_16QAM_FullRB



The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_15 M_OBW_Mid_64QAM_FullRB



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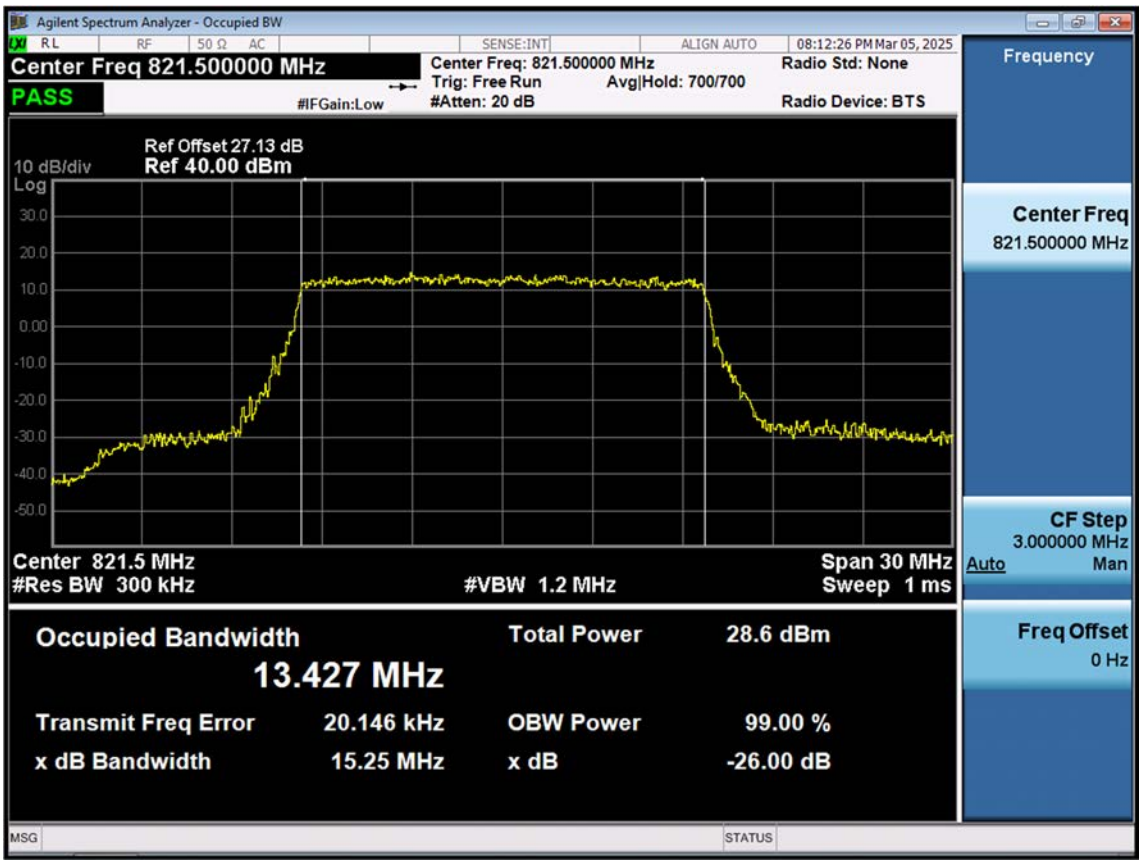
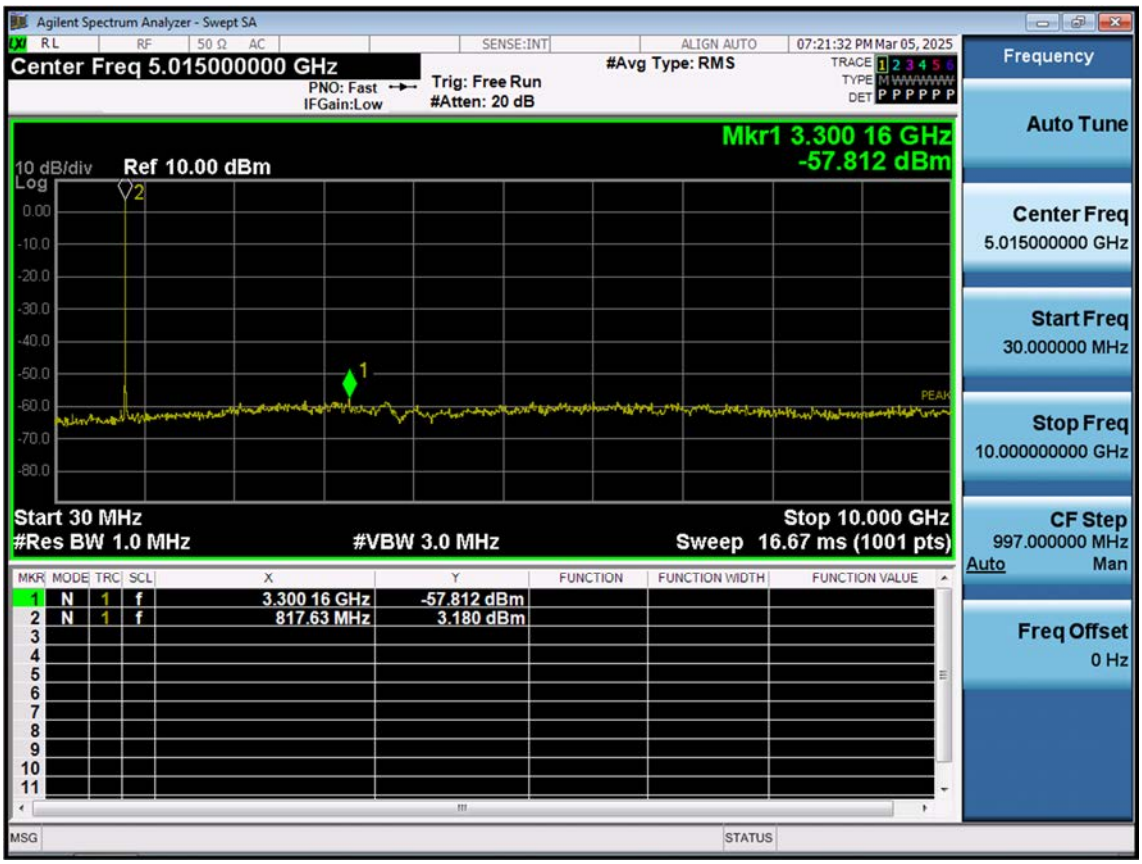
LTE B26(Part90)_15 M_OBW_Mid_256QAM_FullRB



The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_1.4 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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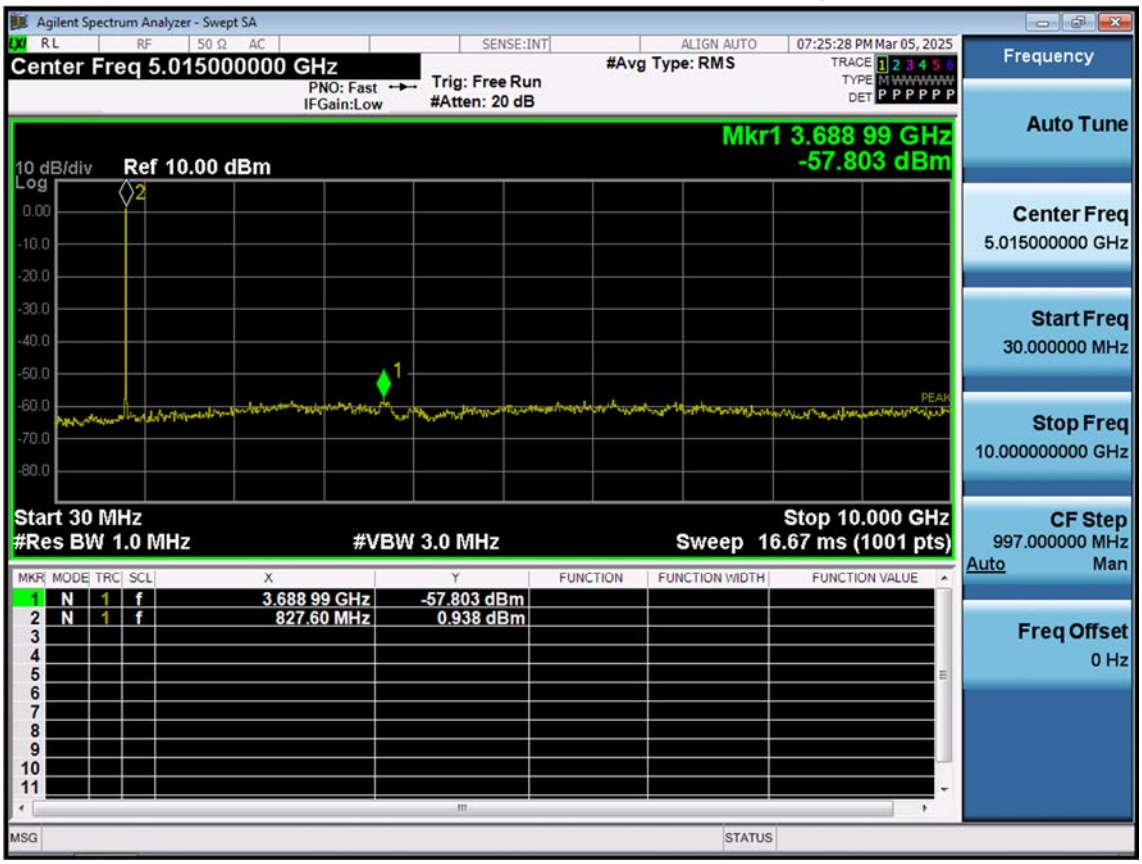
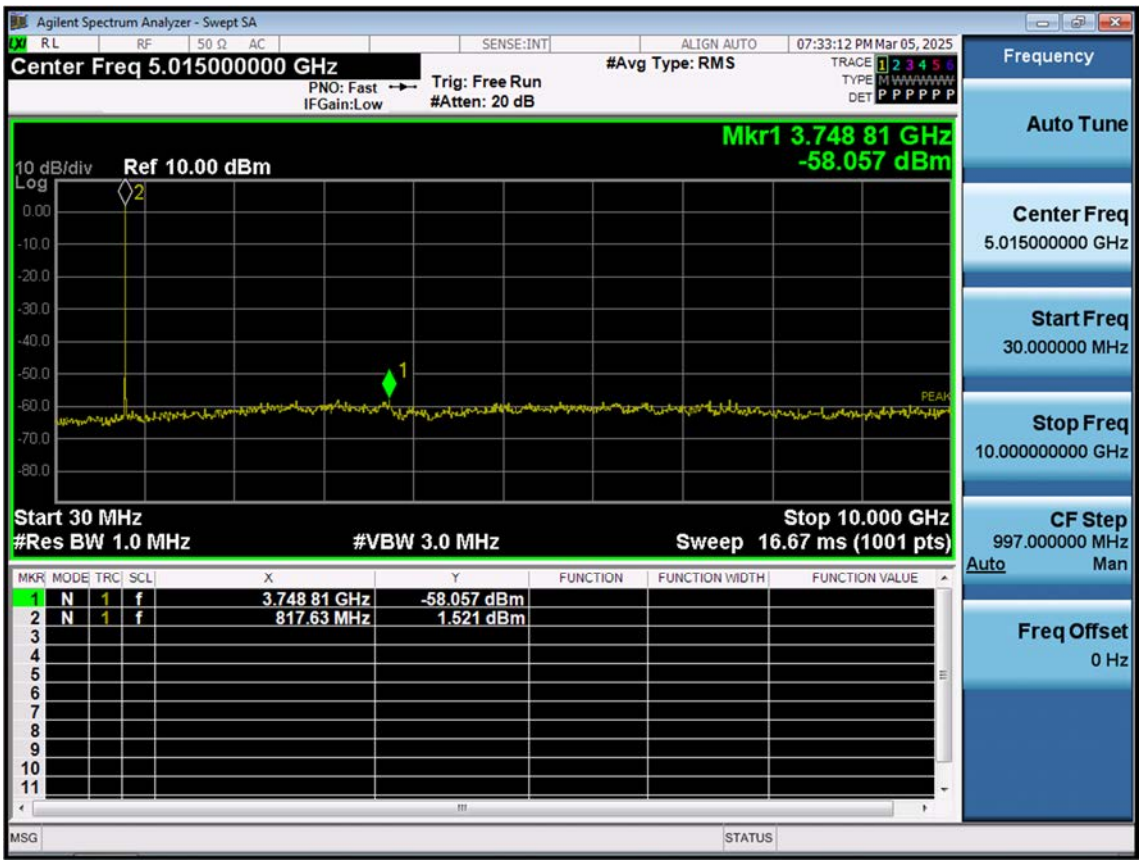
LTE B26(Part90)_1.4 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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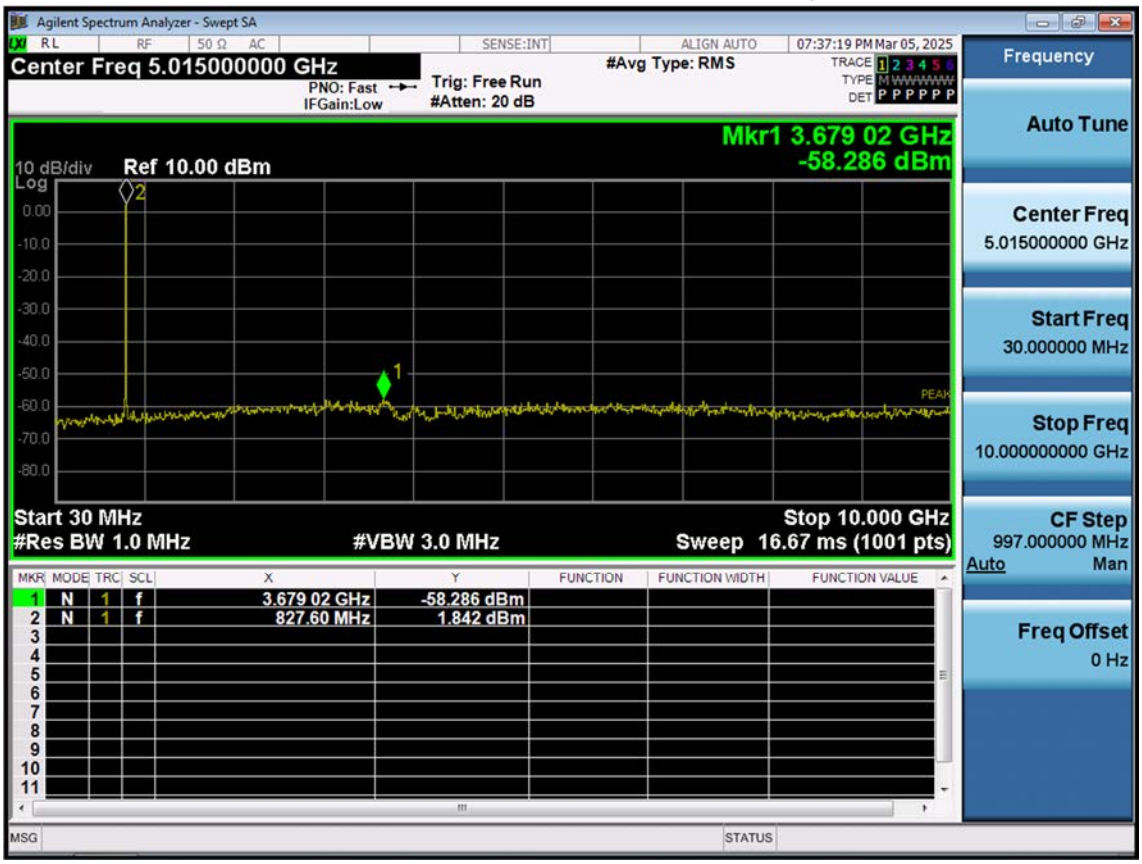
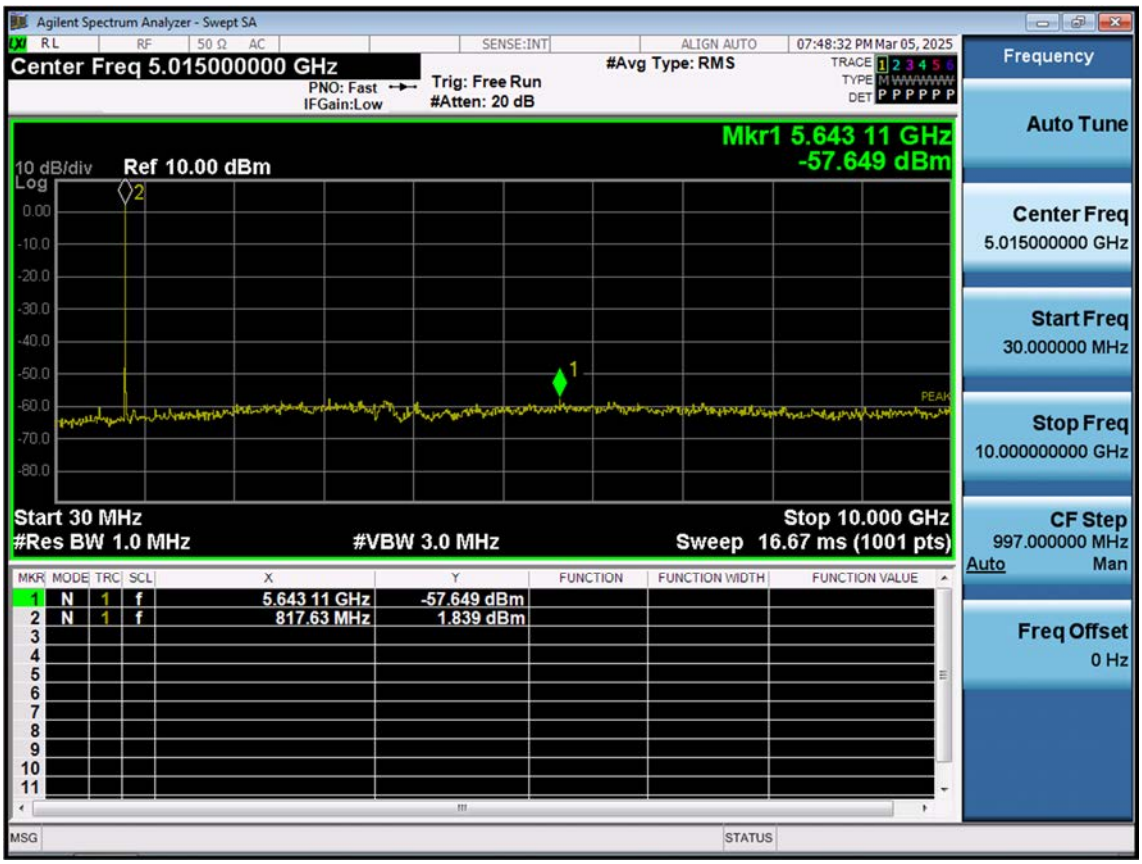
LTE B26(Part90)_3 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



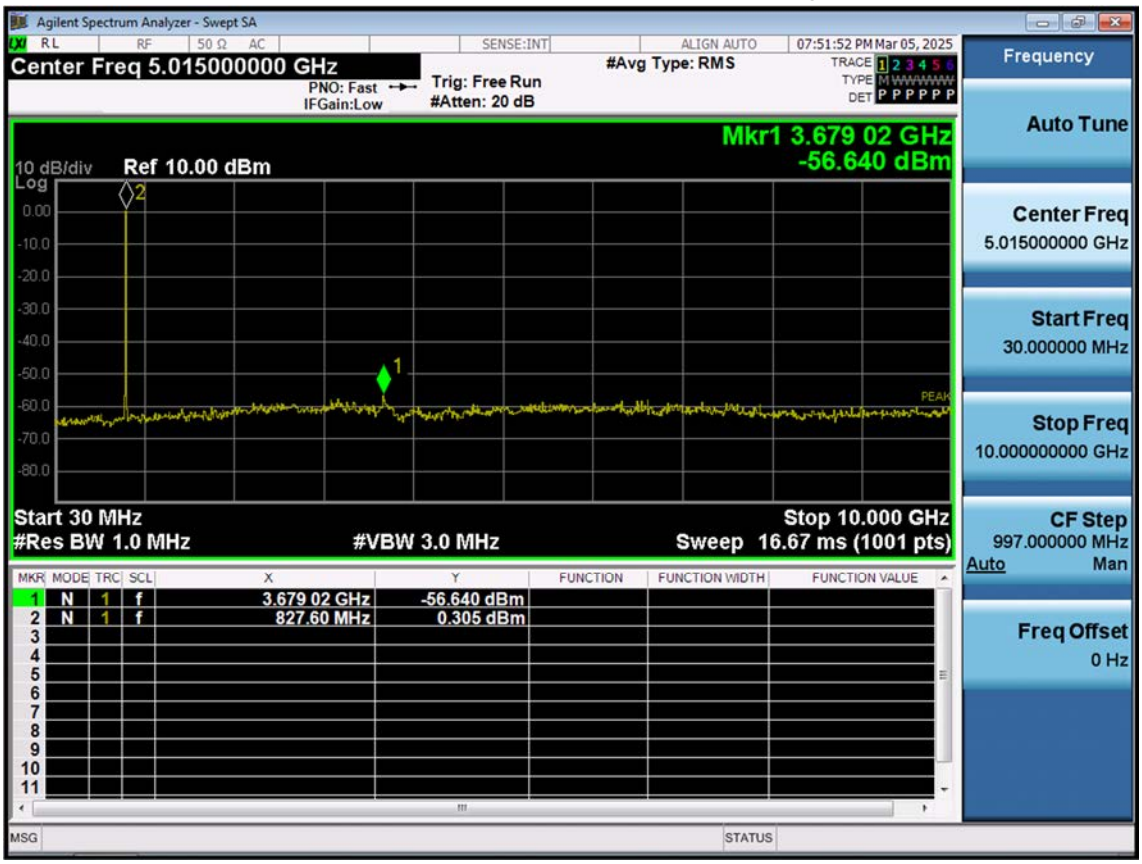
The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



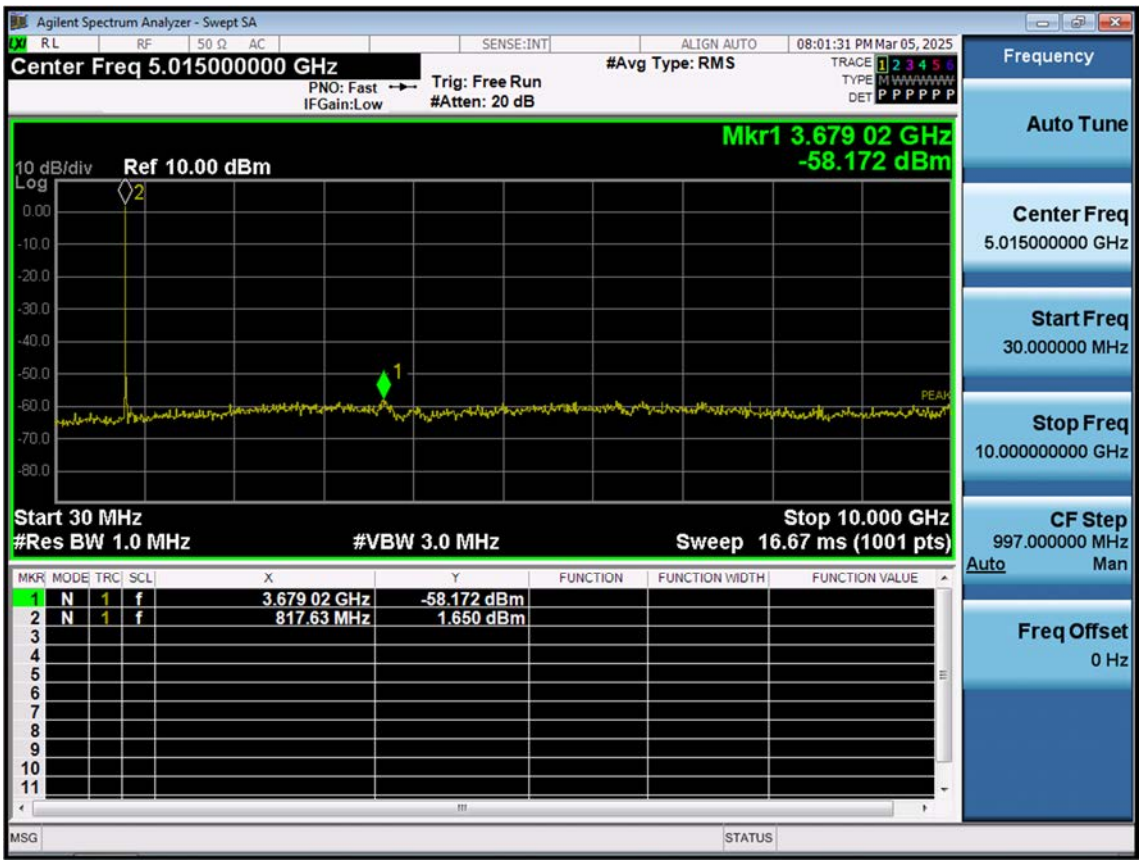
The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



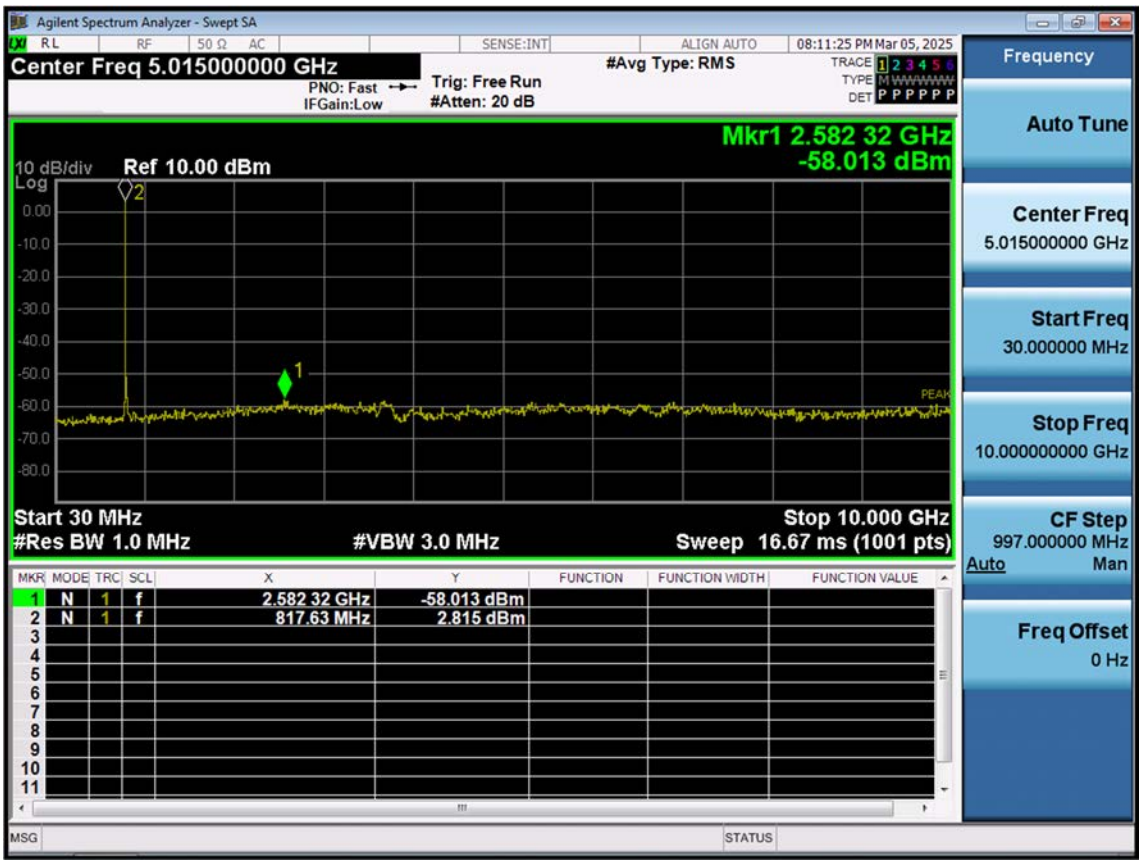
The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_10 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B26(Part90)_15 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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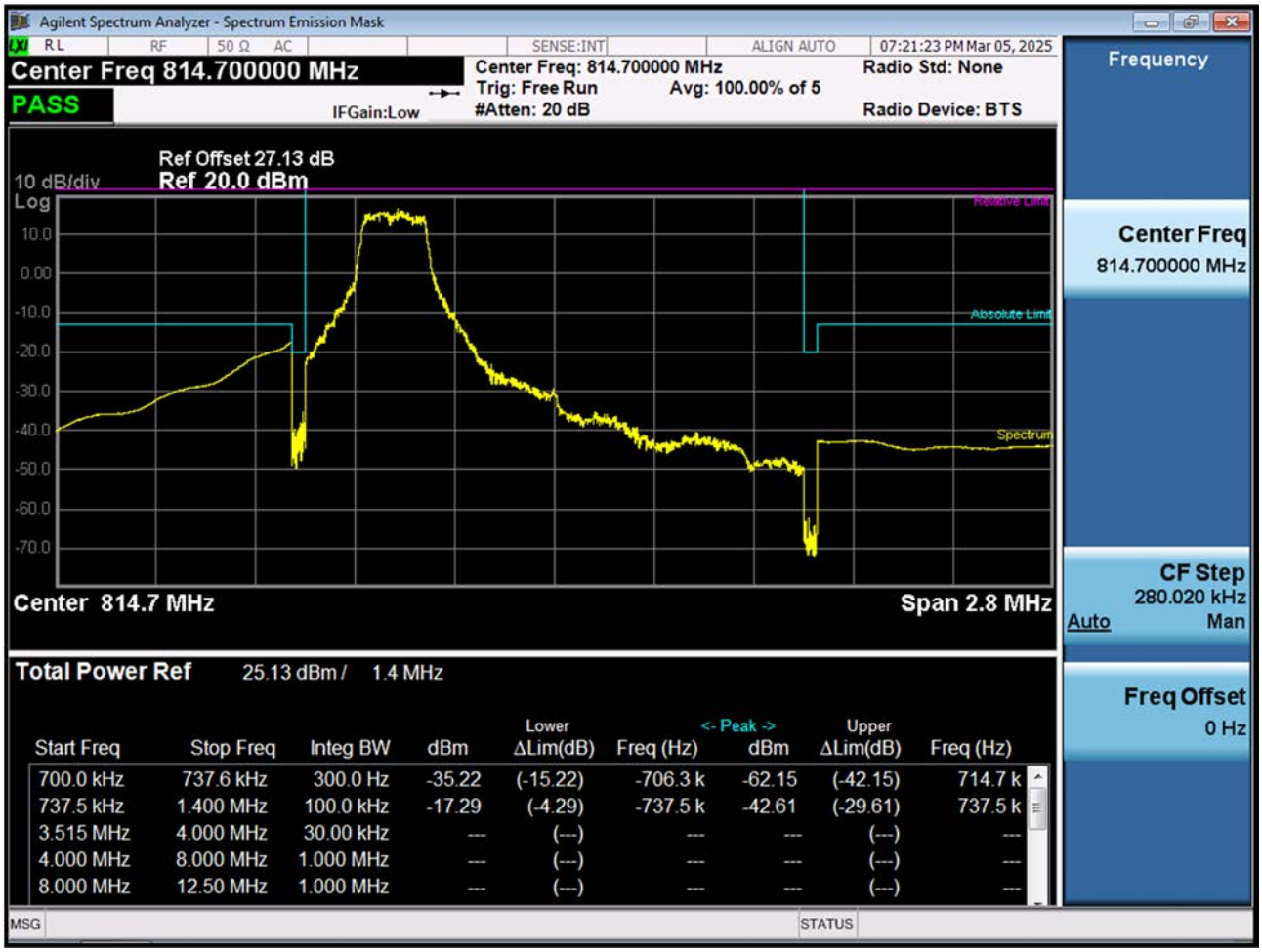
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK RB 1, Offset 0)



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
700.0 kHz	737.6 kHz	300.0 Hz	-35.22	(-15.22)	-706.3 k	-62.15	(-42.15)	714.7 k
737.5 kHz	1.400 MHz	100.0 kHz	-17.29	(-4.29)	-737.5 k	-42.61	(-29.61)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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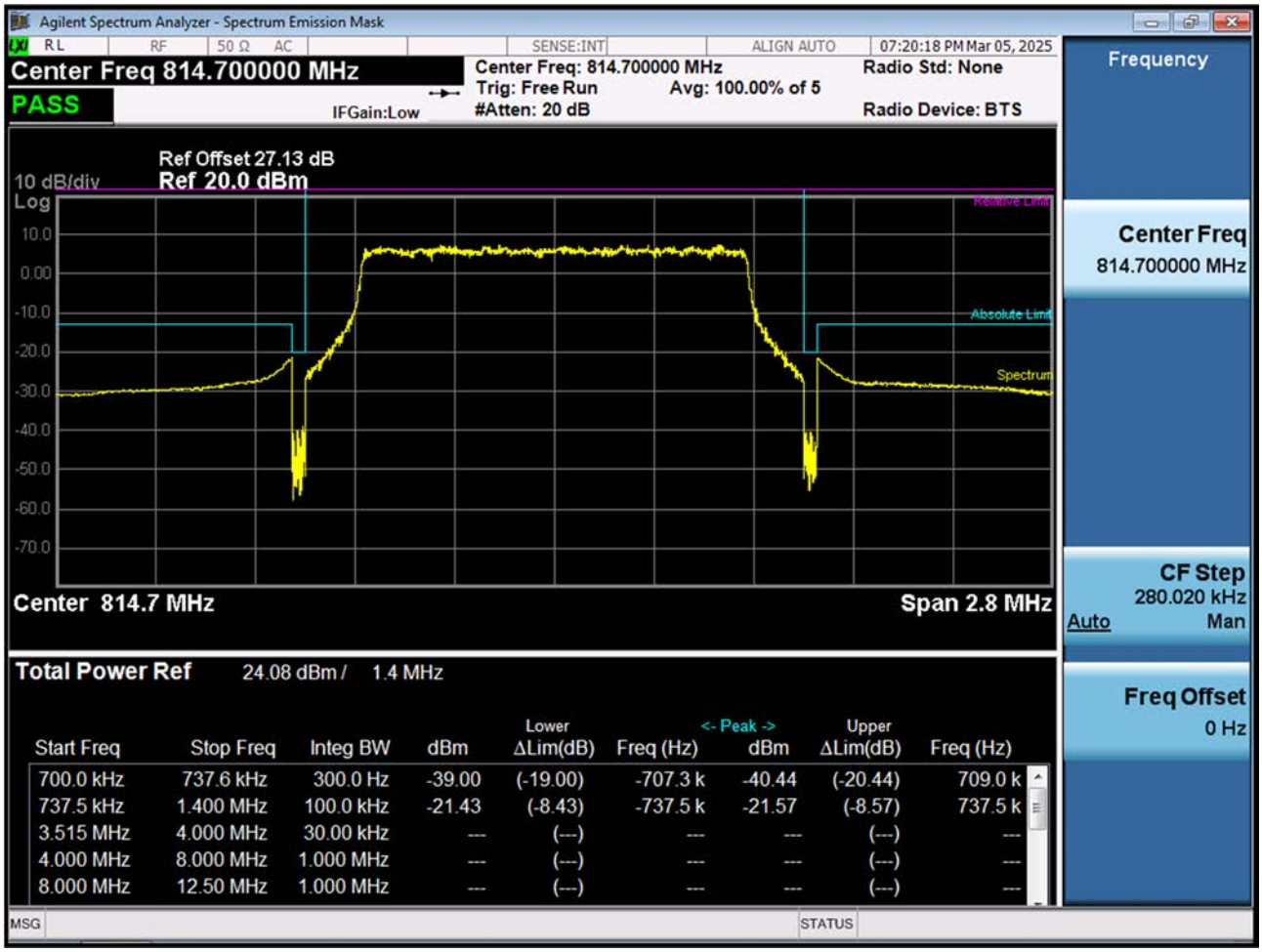
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK_RB6_Offset 0)



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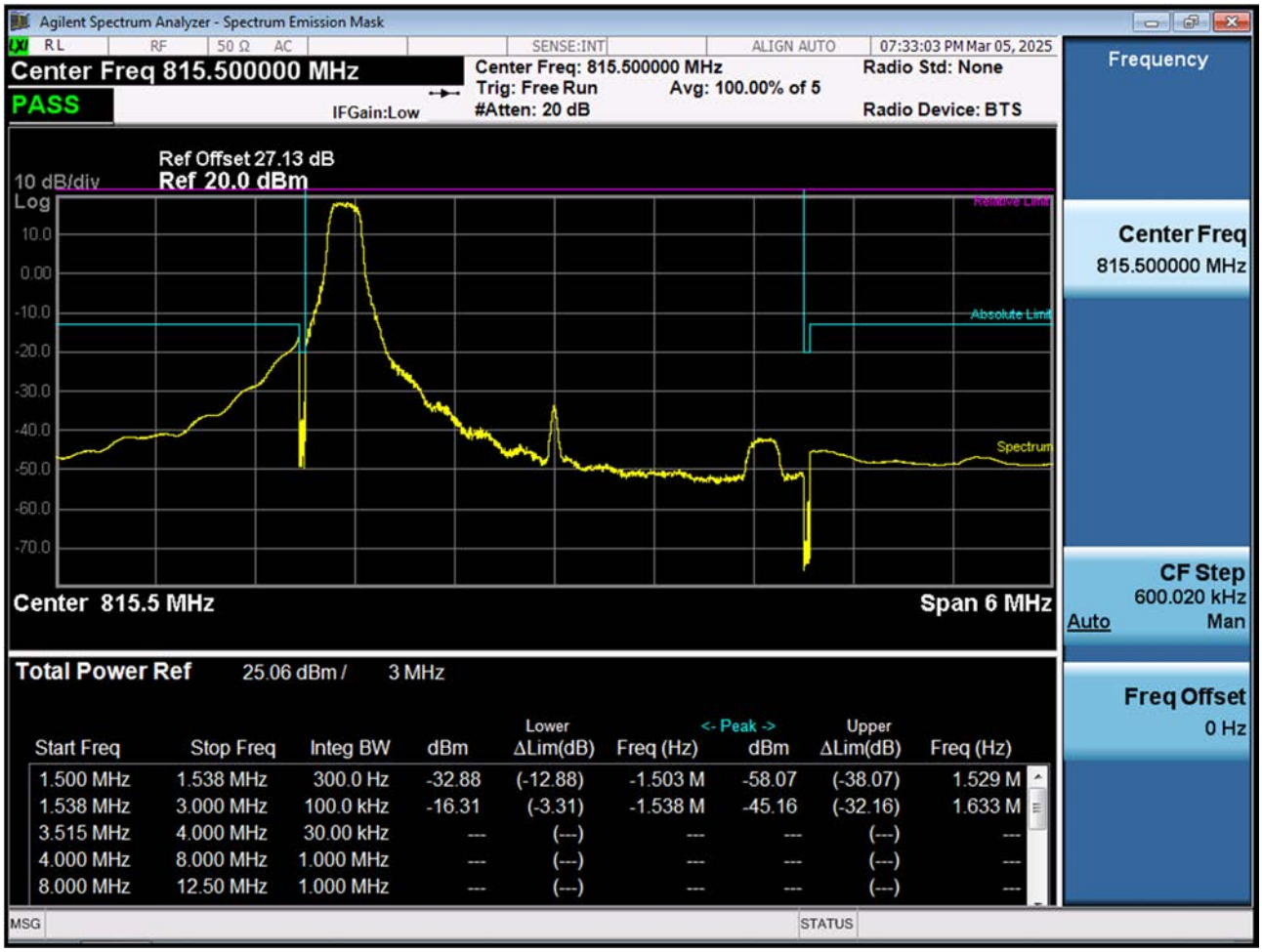
BAND 26. Lower Channel Edge Plot (3 M BW Ch.26705 QPSK RB 1, Offset 0)



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-32.88	(-12.88)	-1.503 M	-58.07	(-38.07)	1.529 M
1.538 MHz	3.000 MHz	100.0 kHz	-16.31	(-3.31)	-1.538 M	-45.16	(-32.16)	1.633 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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BAND 26. Lower Channel Edge Plot (3 M BW Ch.26705 QPSK_RB15_Offset 0)

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-37.82	(-17.82)	-1.500 M	-38.53	(-18.53)	1.514 M
1.538 MHz	3.000 MHz	100.0 kHz	-20.15	(-7.15)	-1.538 M	-20.27	(-7.27)	1.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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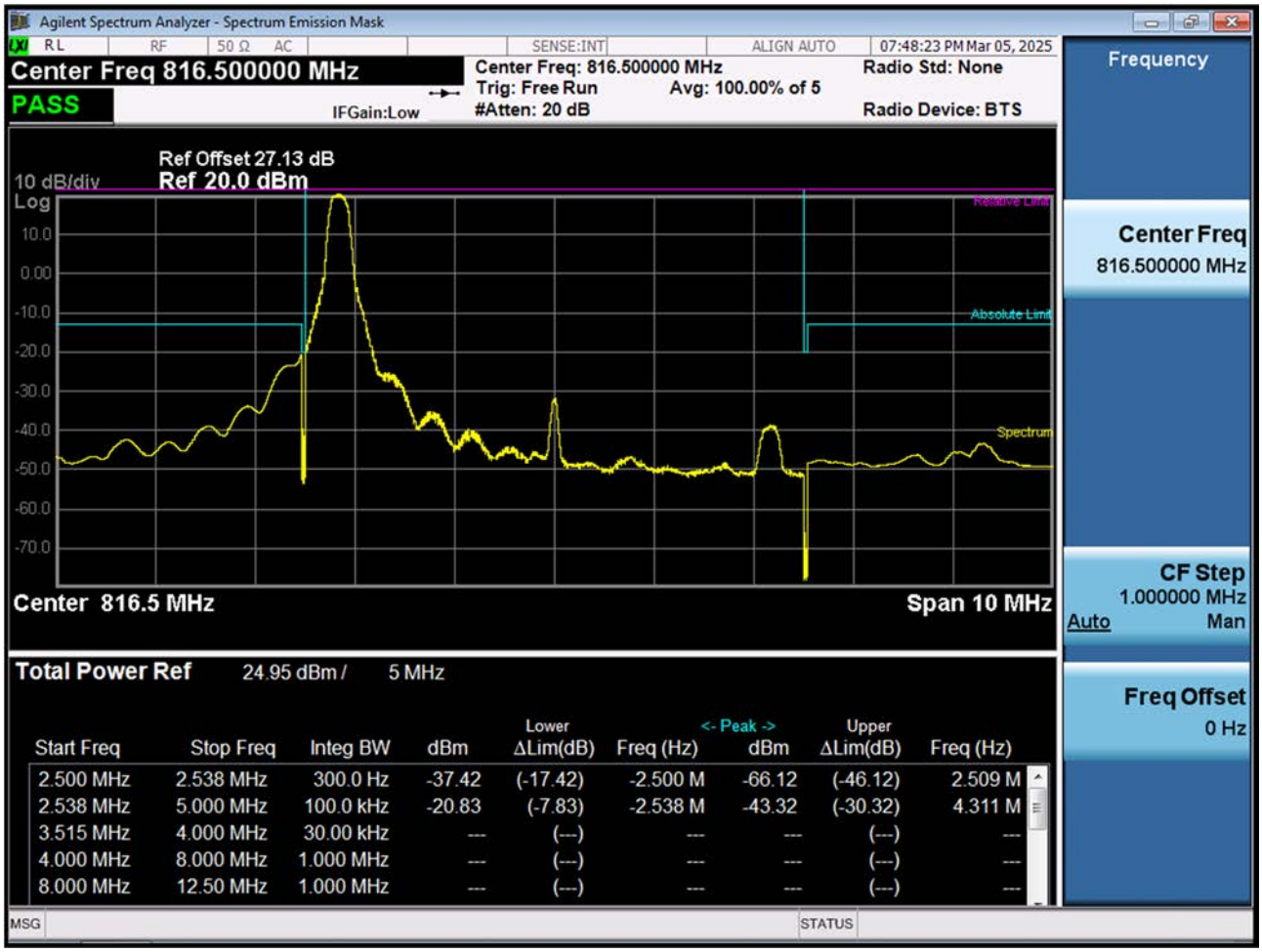
BAND 26. Lower Channel Edge Plot (5 M BW Ch.26715 QPSK RB 1, Offset 0)



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
2.500 MHz	2.538 MHz	300.0 Hz	-37.42	(-17.42)	-2.500 M	-66.12	(-46.12)	2.509 M
2.538 MHz	5.000 MHz	100.0 kHz	-20.83	(-7.83)	-2.538 M	-43.32	(-30.32)	4.311 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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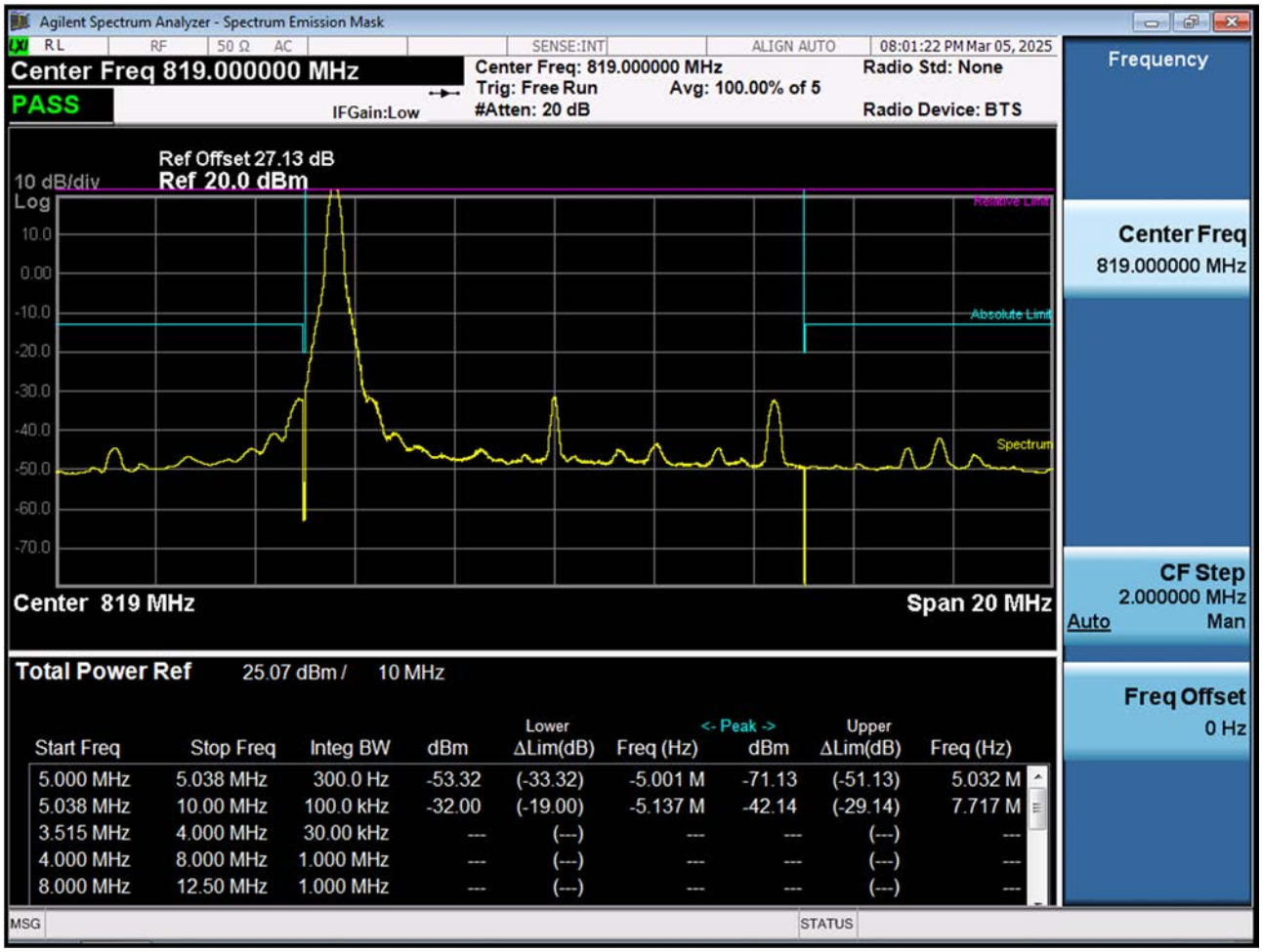
BAND 26. Lower Channel Edge Plot (5 M BW Ch.26715 QPSK_RB25_Offset 0)

The report shall not be (partly) reproduced except in full without approval of the laboratory.

BAND 26. Low Channel Edge Plot (10 M BW Ch.26740 QPSK RB 1, Offset 0)



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BAND 26. Low Channel Edge Plot (10 M BW Ch.26740 QPSK_RB50_Offset 0)

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BAND 26. Mid Channel Edge Plot (10 M BW Ch. 26740 QPSK_RB1_Offset 49)

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BAND 26. Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset 0)

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BAND 26. Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 75, Offset0)

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BAND 26. Mid Channel Edge Plot (15 M BW Ch.26765 QPSK_RB1_Offset 74)

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BAND 26. Mid Band Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset74)

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BAND 26. Mid Band Edge Plot (15 M BW Ch.26765 QPSK_RB75_Offset 0)

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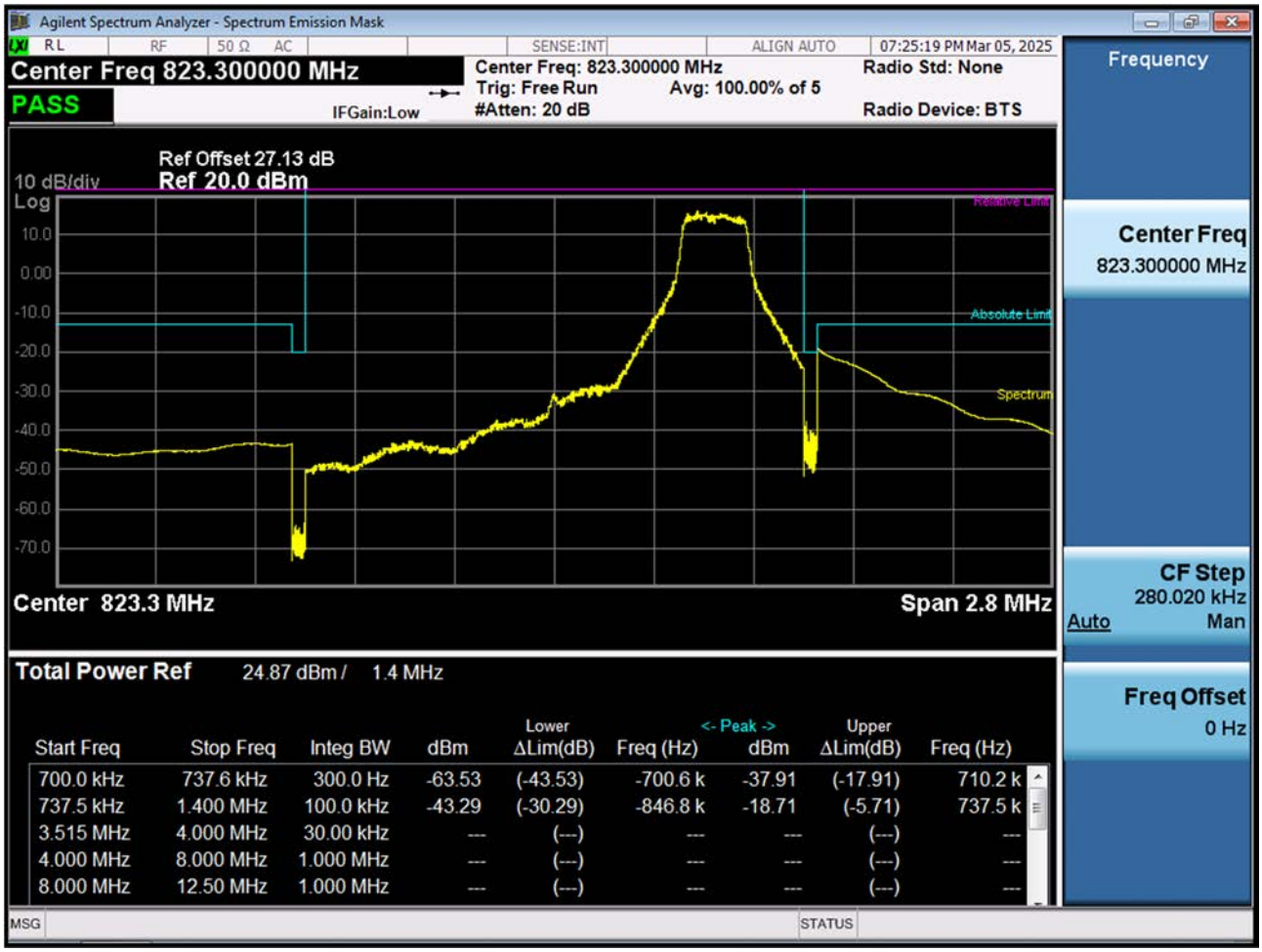
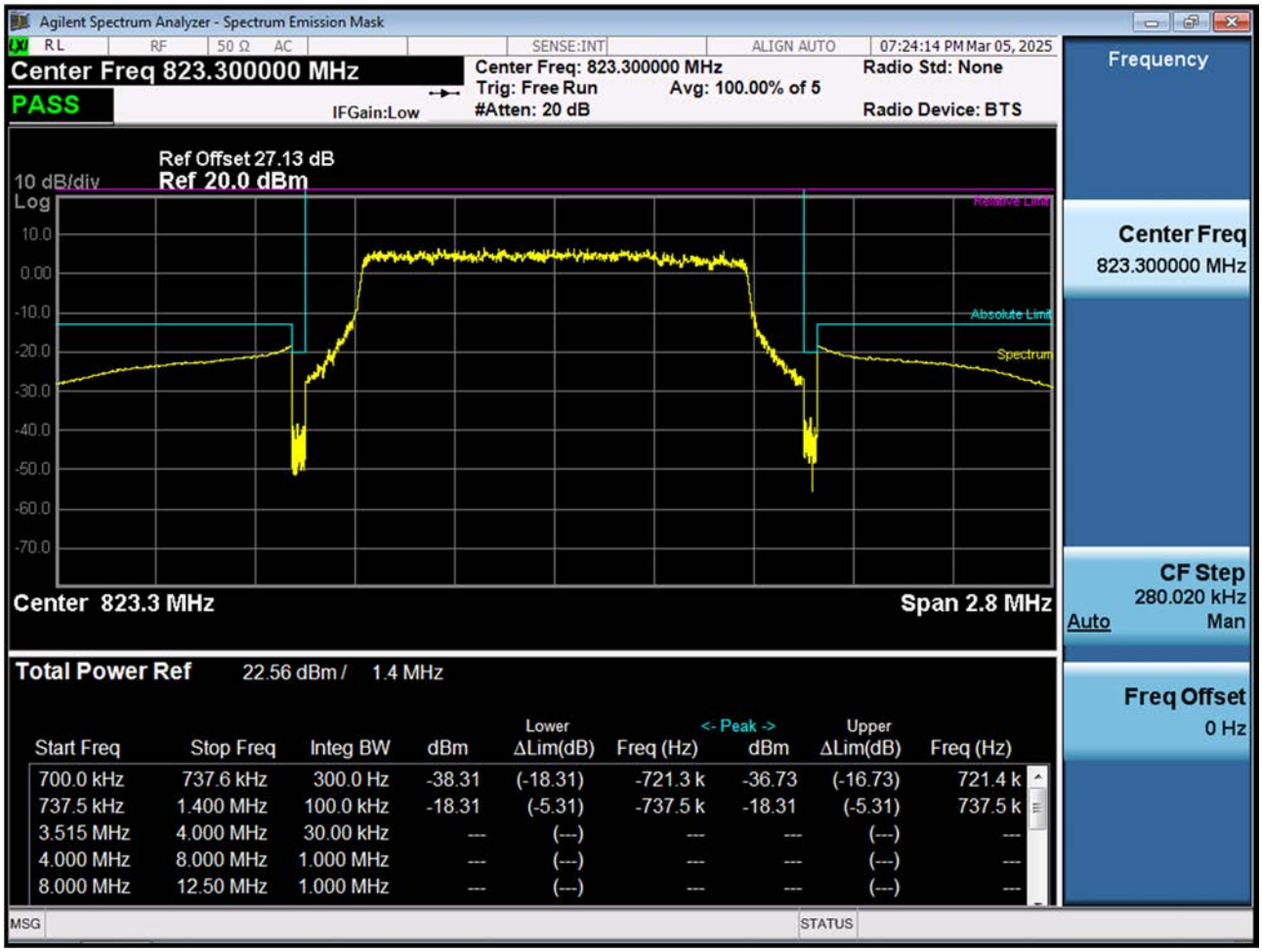
BAND 26. Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB1_Offset 5)



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
700.0 kHz	737.6 kHz	300.0 Hz	-63.53	(-43.53)	-700.6 k	-37.91	(-17.91)	710.2 k
737.5 kHz	1.400 MHz	100.0 kHz	-43.29	(-30.29)	-846.8 k	-18.71	(-5.71)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

The report shall not be (partly) reproduced except in full without approval of the laboratory.

BAND 26. Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB6_Offset 0)



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
700.0 kHz	737.6 kHz	300.0 Hz	-38.31	(-18.31)	-721.3 k	-36.73	(-16.73)	721.4 k
737.5 kHz	1.400 MHz	100.0 kHz	-18.31	(-5.31)	-737.5 k	-18.31	(-5.31)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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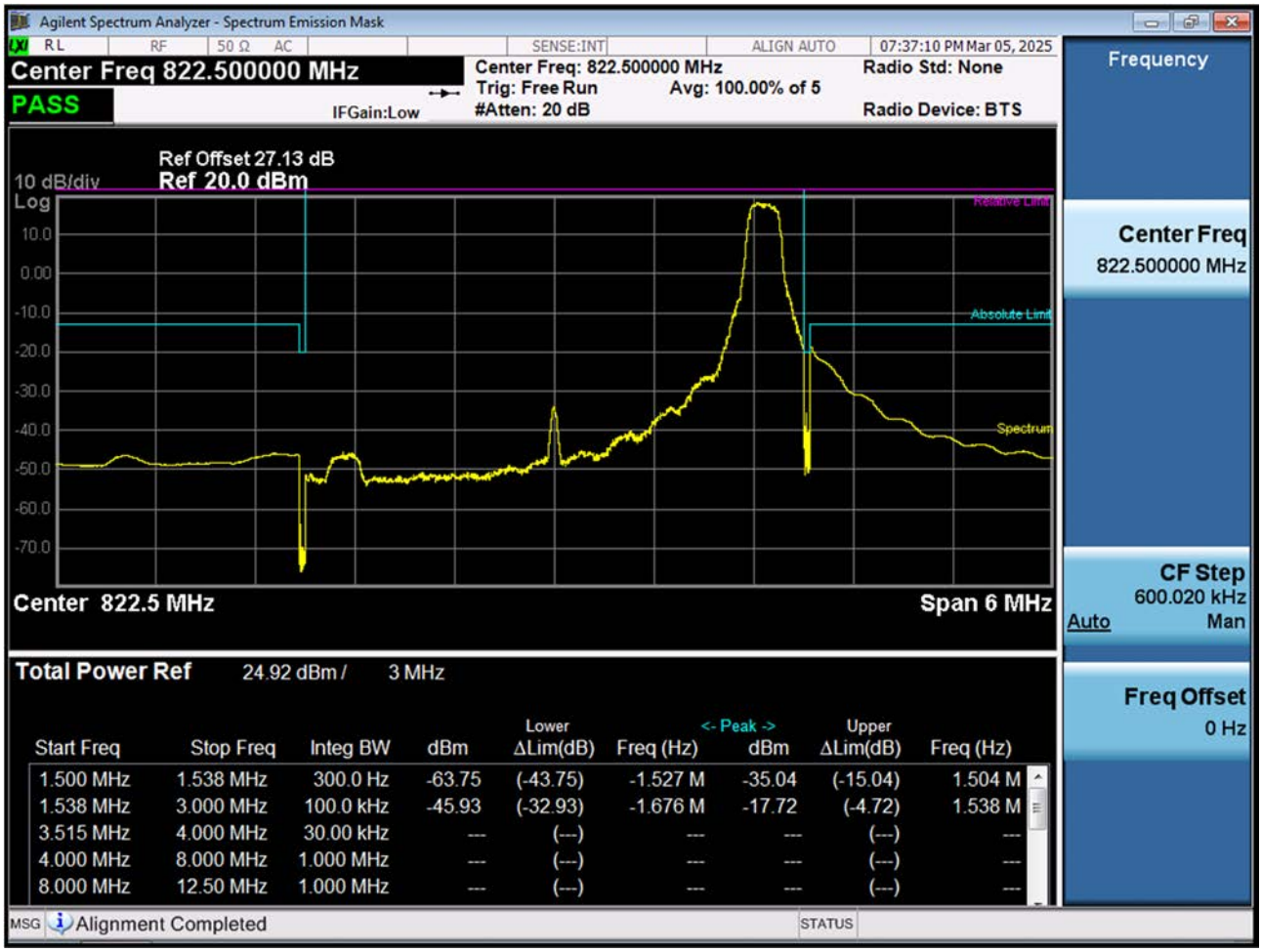
BAND 26. Upper Channel Edge Plot (3 M BW Ch.26775 QPSK_RB1_Offset 14)



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BAND 26. Upper Channel Edge Plot (3 M BW Ch.26775 QPSK_RB15_Offset 0)

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BAND 26. Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB1_Offset 24)

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BAND 26. Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB25_Offset 0)

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
2.500 MHz	2.538 MHz	300.0 Hz	-41.66	(-21.66)	-2.515 M	-41.86	(-21.86)	2.525 M
2.538 MHz	5.000 MHz	100.0 kHz	-21.61	(-8.61)	-2.538 M	-21.91	(-8.91)	2.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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10. TEST PLOTS (STRADDLE CHANNEL)

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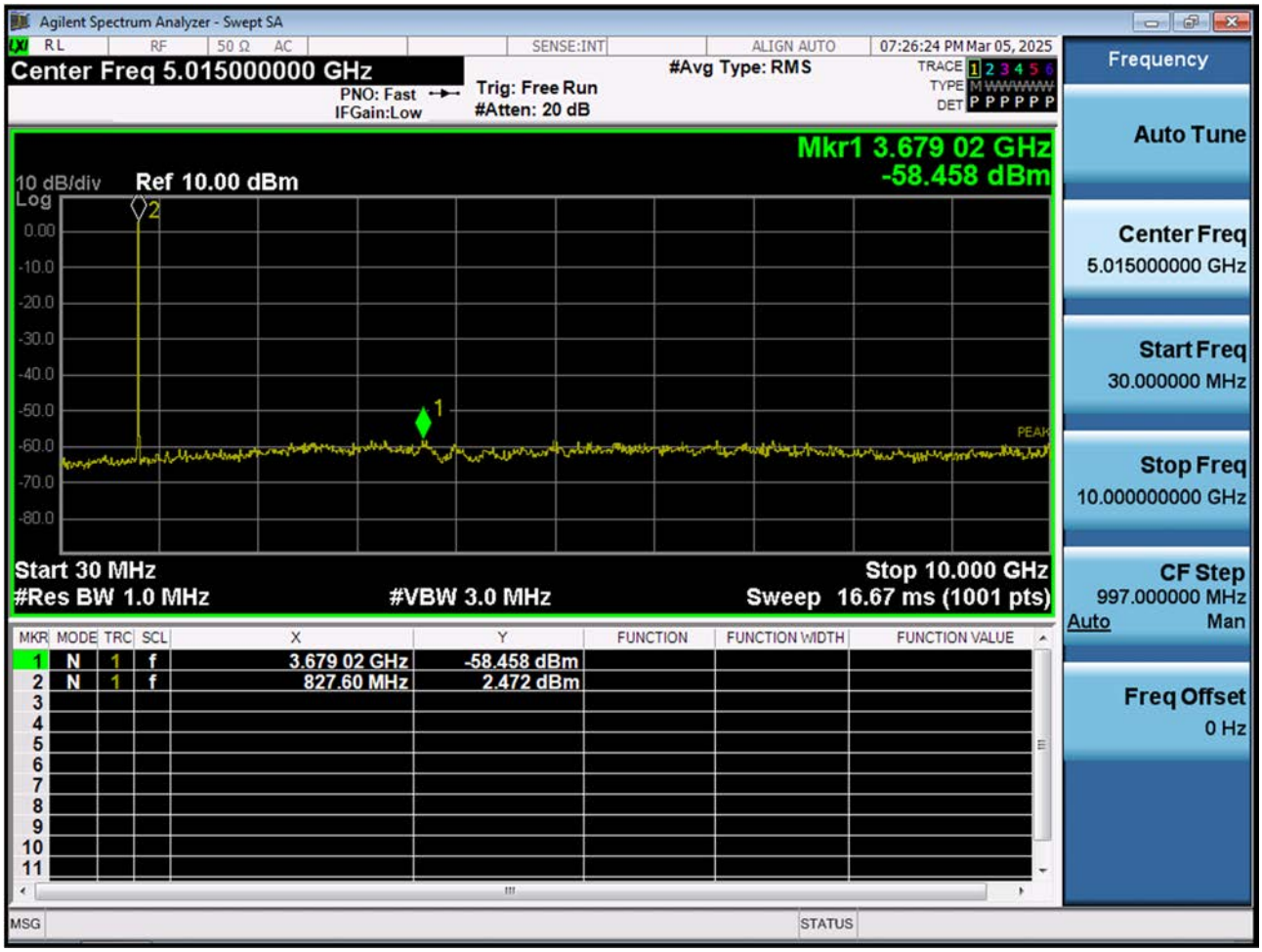
BAND 26. Conducted Spurious (1.4 MHz_QPSK_RB 1_0)



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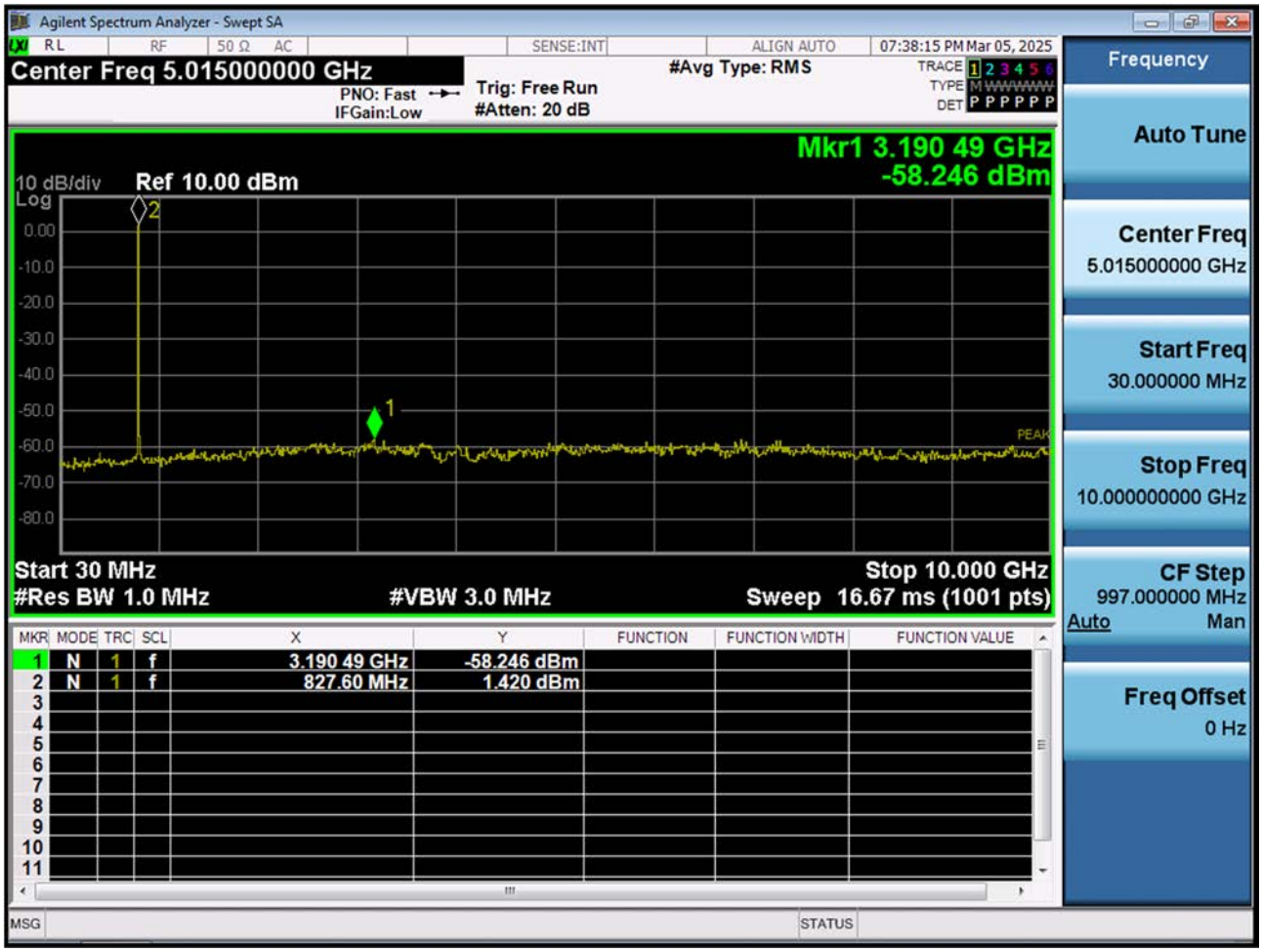
BAND 26. Conducted Spurious (3 MHz_QPSK_RB 1_0)



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