TEST REPORT

FCC LTE B26(Part90) Test for SM-S731B/DS
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2507-FC072

DATE OF ISSUE
July 15, 2025

Tested by
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F-TP22-03(Rev.06)

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TEST REPORT

REPORT NO.
HCT-RF-2507-FC072

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Additional Model
SM-S731B

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-S731B/DS
Date of Test	June 05, 2025 ~ July 11, 2025
FCC ID	A3LSM761B
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	July 15, 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

Model(s):	SM-S731B/DS
Additional Model(s)	SM-S731B
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))
Serial number:	Radiated : R3CY40DEGXL Conducted : R3CY40QLBND
Antenna Information	Please refer to the Antenna Specification document.

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MAXIMUM OUTPUT POWER

Main 1 ANT

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	0.301	24.79
		1M10W7D	16QAM	0.253	24.03
		1M10W7D	64QAM	0.195	22.89
		1M10W7D	256QAM	0.094	19.72
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.296	24.72
		2M71W7D	16QAM	0.259	24.14
		2M71W7D	64QAM	0.199	22.99
		2M72W7D	256QAM	0.096	19.81
LTE – Band26 (5)	816.5 – 824.0	4M53G7D	QPSK	0.296	24.72
		4M51W7D	16QAM	0.258	24.11
		4M54W7D	64QAM	0.198	22.97
		4M57W7D	256QAM	0.096	19.83
LTE – Band26 (10)	819.0 – 824.0	9M00G7D	QPSK	0.294	24.69
		9M00W7D	16QAM	0.258	24.11
		8M99W7D	64QAM	0.197	22.95
		9M03W7D	256QAM	0.095	19.78
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.294	24.69
		13M5W7D	16QAM	0.257	24.10
		13M5W7D	64QAM	0.198	22.96
		13M5W7D	256QAM	0.095	19.79

Sub 1 ANT

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	0.275	24.39
		1M09W7D	16QAM	0.233	23.68
		1M10W7D	64QAM	0.182	22.61
		1M10W7D	256QAM	0.089	19.48
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.277	24.43
		2M71W7D	16QAM	0.239	23.79
		2M70W7D	64QAM	0.184	22.65
		2M71W7D	256QAM	0.089	19.51
LTE – Band26 (5)	816.5 – 824.0	4M53G7D	QPSK	0.279	24.46
		4M51W7D	16QAM	0.239	23.78
		4M53W7D	64QAM	0.185	22.68
		4M53W7D	256QAM	0.090	19.56
LTE – Band26 (10)	819.0 – 824.0	9M01G7D	QPSK	0.277	24.43
		9M02W7D	16QAM	0.238	23.77
		9M03W7D	64QAM	0.182	22.61
		9M04W7D	256QAM	0.089	19.51
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.277	24.42
		13M5W7D	16QAM	0.237	23.76
		13M5W7D	64QAM	0.183	22.63
		13M5W7D	256QAM	0.089	19.48

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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.
Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

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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	- 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

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3.2 CONDUCTED OUTPUT POWER

Test Overview

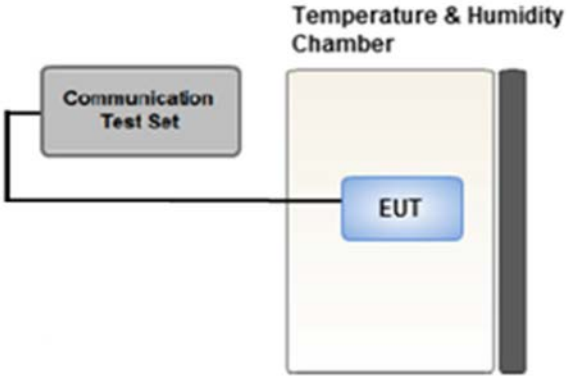
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base 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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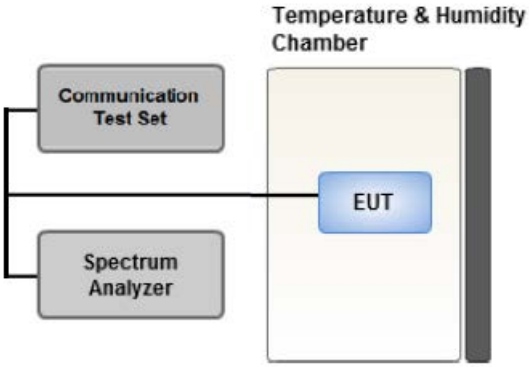
3.5 OCCUPIED BANDWIDTH.



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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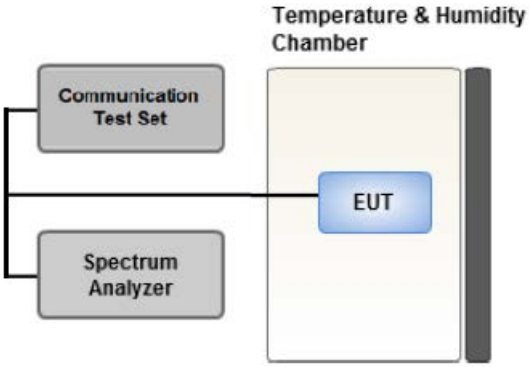
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



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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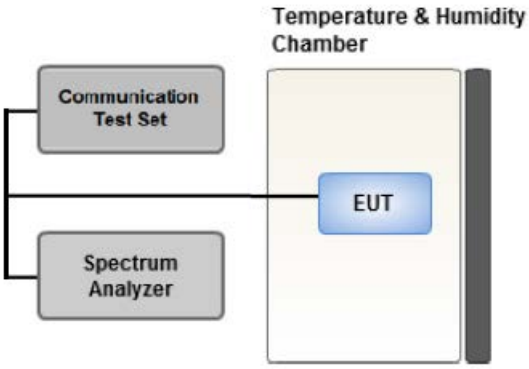
3.7 CHANNEL EDGE



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 > (Number of Points) (Symbol Period)
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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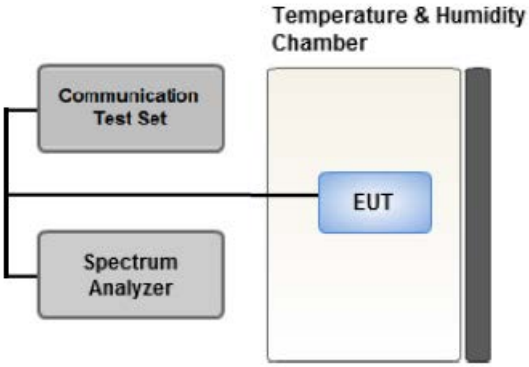
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



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.
- 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)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- Please refer to the table below.
- SM-S731B/DS & additional models were tested and the worst case results are reported.
  (Worst case : SM-S731B/DS)

[Main 1 ANT 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		Z

[Sub 1 ANT Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		X
Radiated Spurious and Harmonic Emissions	QPSK	See Section 9.2		Z

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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-S731B/DS & additional models were tested and the worst case results are reported.
  (Worst case : SM-S731B/DS)

[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	05/14/2026	Annual
Signal Analyzer(2 Hz ~ 50.0 GHz)	N9040B	KEYSIGHT	US55230216	12/09/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	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:

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(Main 1 ANT)

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	24.79	0.301	24.76	0.299	100
		1	3	24.58	0.287	24.54	0.285	100
		1	5	24.65	0.292	24.62	0.290	100
		3	0	24.74	0.298	24.74	0.298	100
		3	1	24.62	0.290	24.61	0.289	100
		3	3	24.68	0.294	24.66	0.292	100
		6	0	23.82	0.241	23.78	0.239	100
	16QAM	1	0	23.93	0.247	23.89	0.245	100
		1	3	23.81	0.240	23.77	0.238	100
		1	5	24.03	0.253	24.00	0.251	100
		3	0	23.75	0.237	23.72	0.236	100
		3	1	23.76	0.238	23.73	0.236	100
		3	3	23.74	0.237	23.71	0.235	100
		6	0	22.81	0.191	22.77	0.189	100
	64QAM	1	0	22.89	0.195	22.85	0.193	100
		1	3	22.70	0.186	22.66	0.185	100
		1	5	22.86	0.193	22.86	0.193	100
		3	0	22.69	0.186	22.65	0.184	100
		3	1	22.61	0.182	22.58	0.181	100
		3	3	22.67	0.185	22.66	0.185	100
		6	0	21.80	0.151	21.80	0.151	100
	256QAM	1	0	19.72	0.094	19.68	0.093	100
		1	3	19.68	0.093	19.67	0.093	100
		1	5	19.66	0.092	19.62	0.092	100
		3	0	19.65	0.092	19.63	0.092	100
		3	1	19.66	0.092	19.64	0.092	100
		3	3	19.69	0.093	19.67	0.093	100
		6	0	19.68	0.093	19.67	0.093	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	24.71	0.296	24.69	0.294	100
		1	7	24.64	0.291	24.61	0.289	100
		1	14	24.72	0.296	24.71	0.296	100
		8	0	23.58	0.228	23.55	0.227	100
		8	3	23.63	0.231	23.62	0.230	100
		8	7	23.76	0.238	23.72	0.236	100
		15	0	24.01	0.252	24.00	0.251	100
	16QAM	1	0	23.98	0.250	23.95	0.248	100
		1	7	24.14	0.259	24.10	0.257	100
		1	14	24.01	0.252	23.99	0.251	100
		8	0	22.76	0.189	22.75	0.188	100
		8	3	22.81	0.191	22.78	0.190	100
		8	7	22.79	0.190	22.76	0.189	100
		15	0	22.94	0.197	22.92	0.196	100
	64QAM	1	0	22.94	0.197	22.94	0.197	100
		1	7	22.79	0.190	22.78	0.190	100
		1	14	22.99	0.199	22.97	0.198	100
		8	0	21.71	0.148	21.69	0.148	100
		8	3	21.77	0.150	21.77	0.150	100
		8	7	21.76	0.150	21.74	0.149	100
		15	0	21.89	0.155	21.88	0.154	100
	256QAM	1	0	19.77	0.095	19.75	0.094	100
		1	7	19.67	0.093	19.66	0.092	100
		1	14	19.79	0.095	19.79	0.095	100
		8	0	19.71	0.094	19.67	0.093	100
		8	3	19.64	0.092	19.63	0.092	100
		8	7	19.74	0.094	19.72	0.094	100
		15	0	19.81	0.096	19.81	0.096	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	24.71	0.296	24.69	0.295	100
		1	12	24.56	0.286	24.62	0.290	100
		1	24	24.72	0.296	24.70	0.295	100
		12	0	23.74	0.237	23.54	0.226	100
		12	6	23.73	0.236	23.62	0.230	100
		12	11	23.70	0.234	23.74	0.237	100
		25	0	23.78	0.239	23.98	0.250	100
	16QAM	1	0	23.99	0.251	23.94	0.248	100
		1	12	24.07	0.255	24.11	0.258	100
		1	24	24.03	0.253	23.98	0.250	100
		12	0	22.77	0.189	22.74	0.188	100
		12	6	22.82	0.191	22.79	0.190	100
		12	11	22.74	0.188	22.78	0.190	100
		25	0	22.70	0.186	22.91	0.196	100
	64QAM	1	0	22.94	0.197	22.91	0.196	100
		1	12	22.73	0.187	22.77	0.189	100
		1	24	22.87	0.194	22.97	0.198	100
		12	0	21.71	0.148	21.71	0.148	100
		12	6	21.70	0.148	21.76	0.150	100
		12	11	21.73	0.149	21.73	0.149	100
		25	0	21.71	0.148	21.86	0.153	100
	256QAM	1	0	19.77	0.095	19.73	0.094	100
		1	12	19.70	0.093	19.64	0.092	100
		1	24	19.83	0.096	19.75	0.094	100
		12	0	19.64	0.092	19.70	0.093	100
		12	6	19.68	0.093	19.63	0.092	100
		12	11	19.64	0.092	19.74	0.094	100
		25	0	19.73	0.094	19.79	0.095	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	24.69	0.294	100
		1	24	24.63	0.290	100
		1	49	24.68	0.294	100
		25	0	23.55	0.227	100
		25	12	23.59	0.229	100
		25	24	23.72	0.236	100
		50	0	23.97	0.250	100
	16QAM	1	0	23.97	0.250	100
		1	24	24.11	0.258	100
		1	49	23.99	0.251	100
		25	0	22.73	0.188	100
		25	12	22.81	0.191	100
		25	24	22.77	0.189	100
		50	0	22.90	0.195	100
	64QAM	1	0	22.90	0.195	100
		1	24	22.78	0.190	100
		1	49	22.95	0.197	100
		25	0	21.70	0.148	100
		25	12	21.74	0.149	100
		25	24	21.73	0.149	100
		50	0	21.86	0.153	100
	256QAM	1	0	19.76	0.095	100
		1	24	19.66	0.092	100
		1	49	19.76	0.095	100
		25	0	19.69	0.093	100
		25	12	19.63	0.092	100
		25	24	19.74	0.094	100
		50	0	19.78	0.095	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	24.68	0.294	100
		1	36	24.63	0.291	100
		1	74	24.69	0.294	100
		36	0	23.55	0.227	100
		36	18	23.60	0.229	100
		36	39	23.75	0.237	100
		75	0	24.00	0.251	100
	16QAM	1	0	23.96	0.249	100
		1	36	24.10	0.257	100
		1	74	23.99	0.250	100
		36	0	22.73	0.187	100
		36	18	22.78	0.190	100
		36	39	22.76	0.189	100
		75	0	22.93	0.196	100
	64QAM	1	0	22.93	0.196	100
		1	36	22.76	0.189	100
		1	74	22.96	0.198	100
		36	0	21.68	0.147	100
		36	18	21.75	0.150	100
		36	39	21.75	0.149	100
		75	0	21.87	0.154	100
	256QAM	1	0	19.75	0.094	100
		1	36	19.66	0.092	100
		1	74	19.75	0.094	100
		36	0	19.68	0.093	100
		36	18	19.61	0.091	100
		36	39	19.71	0.093	100
		75	0	19.79	0.095	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	-32.86	30.35	-10.05	1.44	H	< 100	0.077	18.86	1	0
		16QAM	-33.60	29.61	-10.05	1.44	H		0.065	18.12		
		64QAM	-34.57	28.64	-10.05	1.44	H		0.052	17.15		
		256QAM	-37.71	25.50	-10.05	1.44	H		0.025	14.01		
823.3		QPSK	-32.11	30.92	-9.95	1.44	H		0.090	19.53	1	0
		16QAM	-32.70	30.33	-9.95	1.44	H		0.078	18.94		
		64QAM	-33.67	29.36	-9.95	1.44	H		0.063	17.97		
		256QAM	-36.77	26.26	-9.95	1.44	H		0.031	14.87		

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	-32.69	30.53	-10.05	1.44	H	< 100	0.080	19.04	1	14
		16QAM	-33.28	29.94	-10.05	1.44	H		0.070	18.45		
		64QAM	-34.35	28.87	-10.05	1.44	H		0.055	17.38		
		256QAM	-37.48	25.74	-10.05	1.44	H		0.027	14.25		
822.5		QPSK	-32.14	30.92	-9.95	1.44	H		0.090	19.53	1	14
		16QAM	-32.75	30.31	-9.95	1.44	H		0.078	18.92		
		64QAM	-33.78	29.28	-9.95	1.44	H		0.062	17.89		
		256QAM	-36.93	26.13	-9.95	1.44	H		0.030	14.74		

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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	-33.30	29.90	-10.05	1.44	H		0.069	18.41		
		64QAM	-34.15	29.05	-10.05	1.44	H		0.057	17.56		
		256QAM	-37.34	25.86	-10.05	1.44	H		0.027	14.37		
821.5		QPSK	-32.29	30.81	-9.95	1.44	H		0.087	19.42	1	24
		16QAM	-32.91	30.19	-9.95	1.44	H		0.076	18.80		
		64QAM	-33.90	29.20	-9.95	1.44	H		0.060	17.81		
		256QAM	-36.99	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
819.0	LTE B26/ 10 MHz	QPSK	-32.23	30.93	-10.05	1.44	H	< 100	0.088	19.44	1	49
		16QAM	-33.04	30.12	-10.05	1.44	H		0.073	18.63		
		64QAM	-33.96	29.20	-10.05	1.44	H		0.059	17.71		
		256QAM	-37.01	26.15	-10.05	1.44	H		0.029	14.66		

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	-31.94	31.16	-9.95	1.44	H	< 7.00	0.095	19.77	1	74
		16QAM	-32.67	30.43	-9.95	1.44	H		0.080	19.04		
		64QAM	-33.70	29.40	-9.95	1.44	H		0.063	18.01		
		256QAM	-36.67	26.43	-9.95	1.44	H		0.032	15.04		

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	-52.08	9.39	-66.92	2.00	H	-59.53	-13.00	1	74
	2 464.50	-39.43	10.37	-50.59	2.59	H	-42.81	-13.00		
	3 286.00	-53.74	10.98	-61.85	2.95	H	-53.82	-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	1.0982
			16QAM			1.0960
			64QAM			1.0966
			256QAM			1.0960
	3 MHz	822.5	QPSK	15		2.7180
			16QAM			2.7115
			64QAM			2.7097
			256QAM			2.7149
	5 MHz	821.5	QPSK	25		4.5323
			16QAM			4.5130
			64QAM			4.5377
			256QAM			4.5679
	10 MHz	819.0	QPSK	50		8.9990
			16QAM			9.0038
			64QAM			8.9943
			256QAM			9.0304
	15 MHz	821.5	QPSK	75		13.455
			16QAM			13.493
			64QAM			13.512
			256QAM			13.477

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 69 ~ 88.

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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	3.7089	27.976	-57.818	-29.842	-13.00
		823.3	3.6691	27.976	-57.513	-29.537	
	3	815.5	7.5474	28.591	-58.532	-29.941	
		822.5	3.6691	27.976	-57.854	-29.878	
	5	816.5	6.5903	28.591	-57.878	-29.287	
		821.5	3.7089	27.976	-57.370	-29.394	
	10	819.0	3.7388	27.976	-58.250	-30.274	
	15	821.5	3.6890	27.976	-57.501	-29.525	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 89 ~ 96.
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 97 ~ 116.

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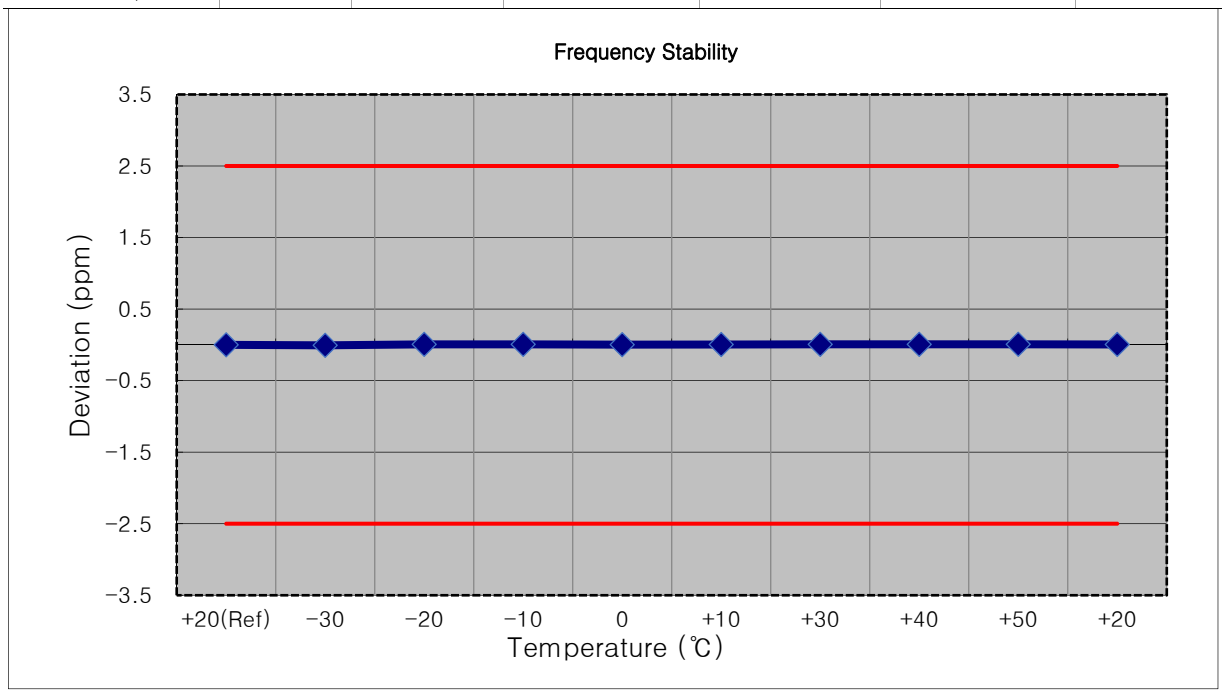
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ 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. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	814 700 005	0.0	0.000 000	0.000
100 %		-30	814 699 999	-5.2	-0.000 001	-0.006
100 %		-20	814 700 010	5.5	0.000 001	0.007
100 %		-10	814 700 010	5.5	0.000 001	0.007
100 %		0	814 700 007	2.1	0.000 000	0.003
100 %		+10	814 700 008	3.6	0.000 000	0.004
100 %		+30	814 700 010	5.9	0.000 001	0.007
100 %		+40	814 700 010	5.7	0.000 001	0.007
100 %		+50	814 700 011	6.4	0.000 001	0.008
Batt. Endpoint	3.300	+20	814 700 009	4.4	0.000 001	0.005



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▣ MODE: LTE 26

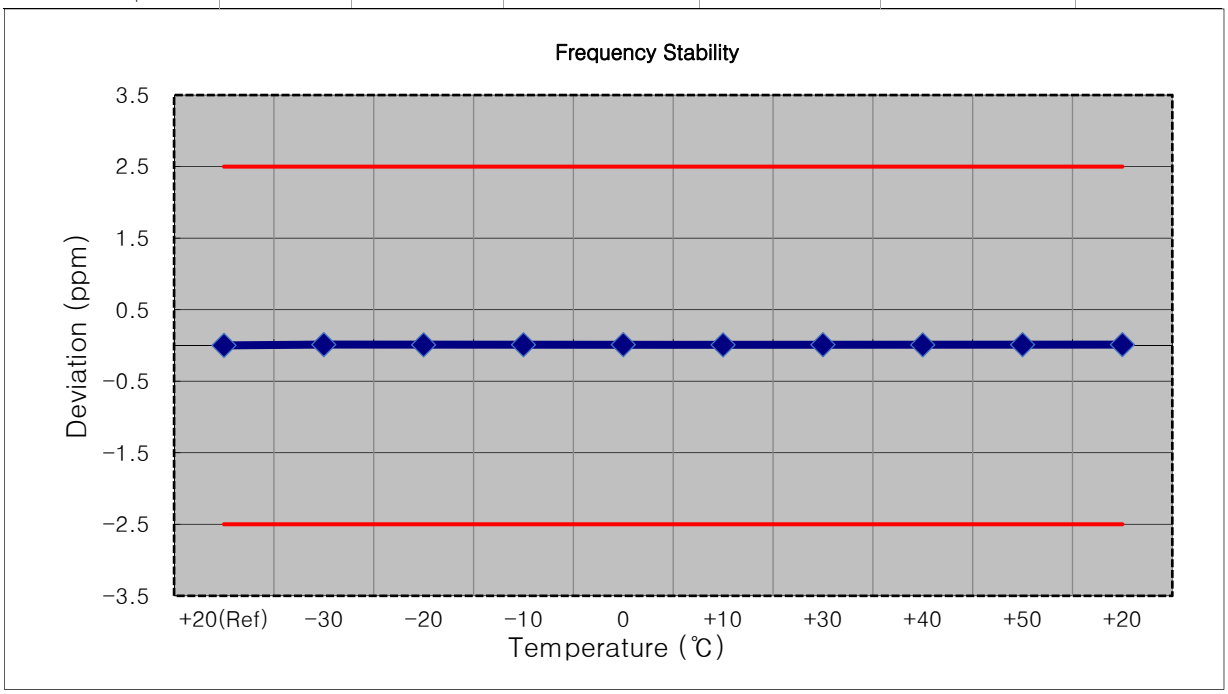
▣ OPERATING FREQUENCY: 815,500,000 Hz

▣ 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)	815 500 006	0.0	0.000 000	0.000
100 %		-30	815 500 015	9.5	0.000 001	0.012
100 %		-20	815 500 013	7.0	0.000 001	0.009
100 %		-10	815 500 014	8.4	0.000 001	0.010
100 %		0	815 500 014	8.8	0.000 001	0.011
100 %		+10	815 500 012	6.5	0.000 001	0.008
100 %		+30	815 500 014	8.3	0.000 001	0.010
100 %		+40	815 500 012	6.1	0.000 001	0.007
100 %		+50	815 500 014	8.8	0.000 001	0.011
Batt. Endpoint	3.300	+20	815 500 015	9.6	0.000 001	0.012



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▣ MODE: LTE 26

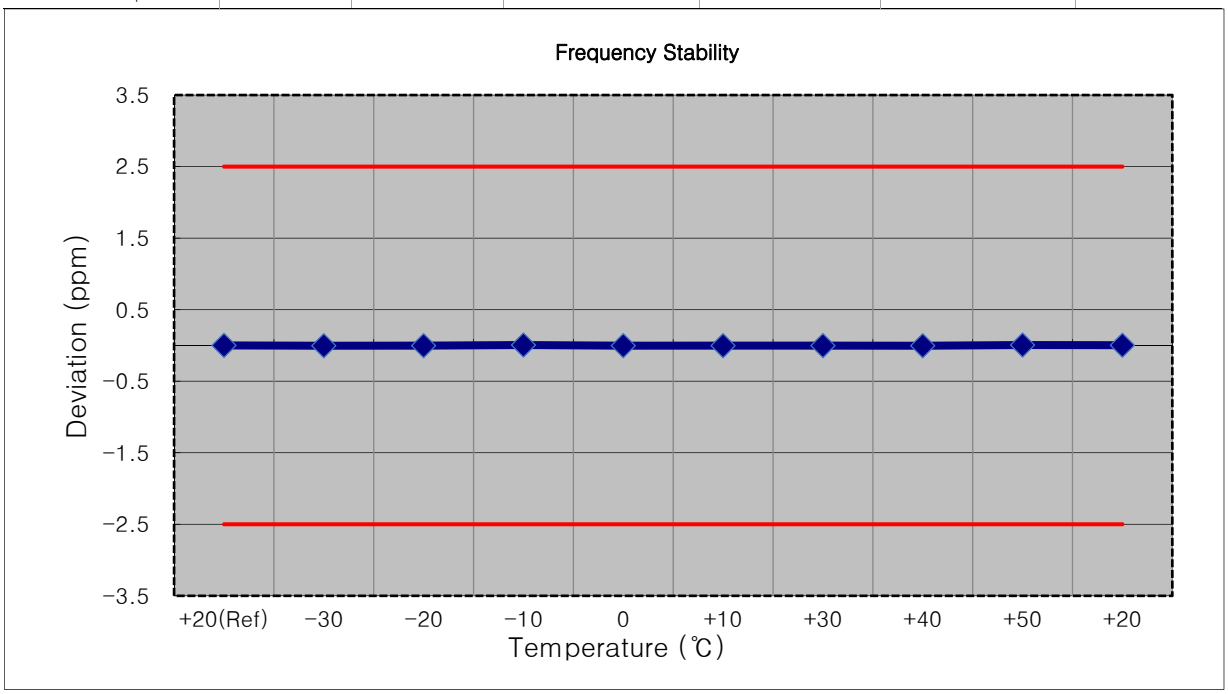
▣ OPERATING FREQUENCY: 816,500,000 Hz

▣ 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)	816 500 002	0.0	0.000 000	0.000
100 %		-30	816 499 999	-3.4	0.000 000	-0.004
100 %		-20	816 499 999	-2.7	0.000 000	-0.003
100 %		-10	816 500 007	4.6	0.000 001	0.006
100 %		0	816 499 999	-3.0	0.000 000	-0.004
100 %		+10	816 500 000	-2.6	0.000 000	-0.003
100 %		+30	816 500 000	-2.3	0.000 000	-0.003
100 %		+40	816 499 999	-3.4	0.000 000	-0.004
100 %		+50	816 500 007	4.5	0.000 001	0.006
Batt. Endpoint	3.300	+20	816 500 004	2.2	0.000 000	0.003



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▣ MODE: LTE 26

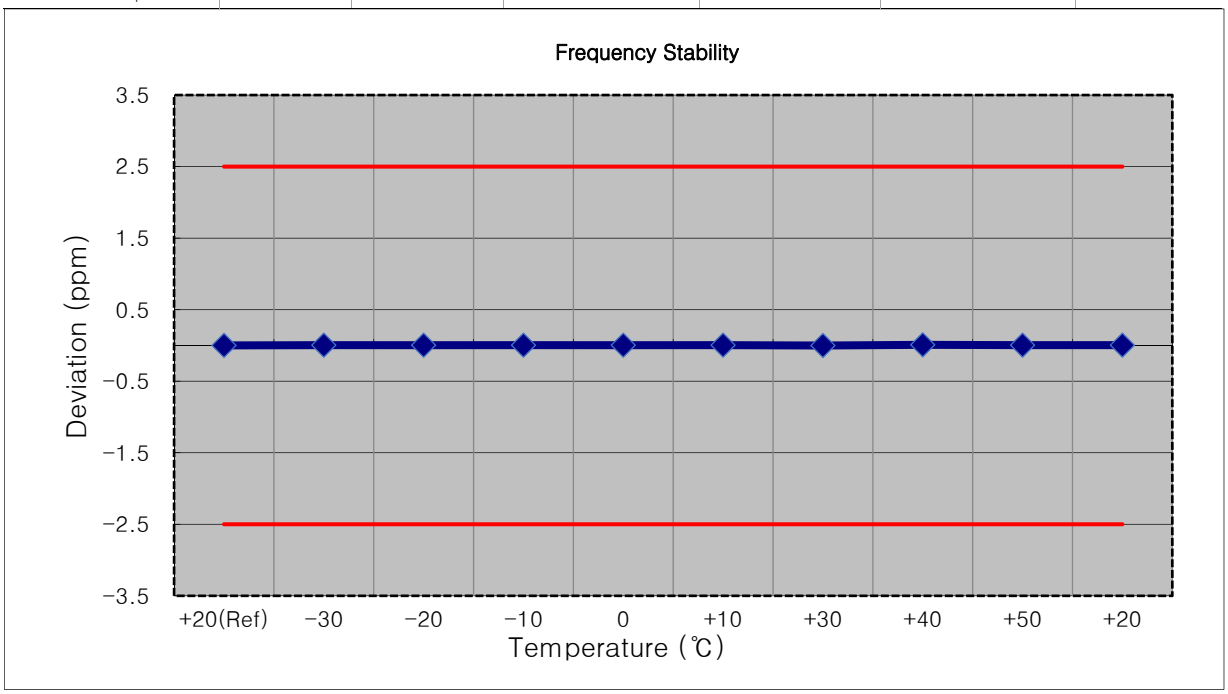
▣ OPERATING FREQUENCY: 819,000,000 Hz

▣ 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	819 000 005	3.1	0.000 000	0.004
100 %		-20	819 000 004	2.5	0.000 000	0.003
100 %		-10	819 000 004	2.9	0.000 000	0.004
100 %		0	819 000 004	2.7	0.000 000	0.003
100 %		+10	819 000 005	3.1	0.000 000	0.004
100 %		+30	819 000 000	-1.2	0.000 000	-0.001
100 %		+40	819 000 008	6.9	0.000 001	0.008
100 %		+50	819 000 005	3.3	0.000 000	0.004
Batt. Endpoint	3.300	+20	819 000 005	3.1	0.000 000	0.004



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▣ MODE: LTE 26

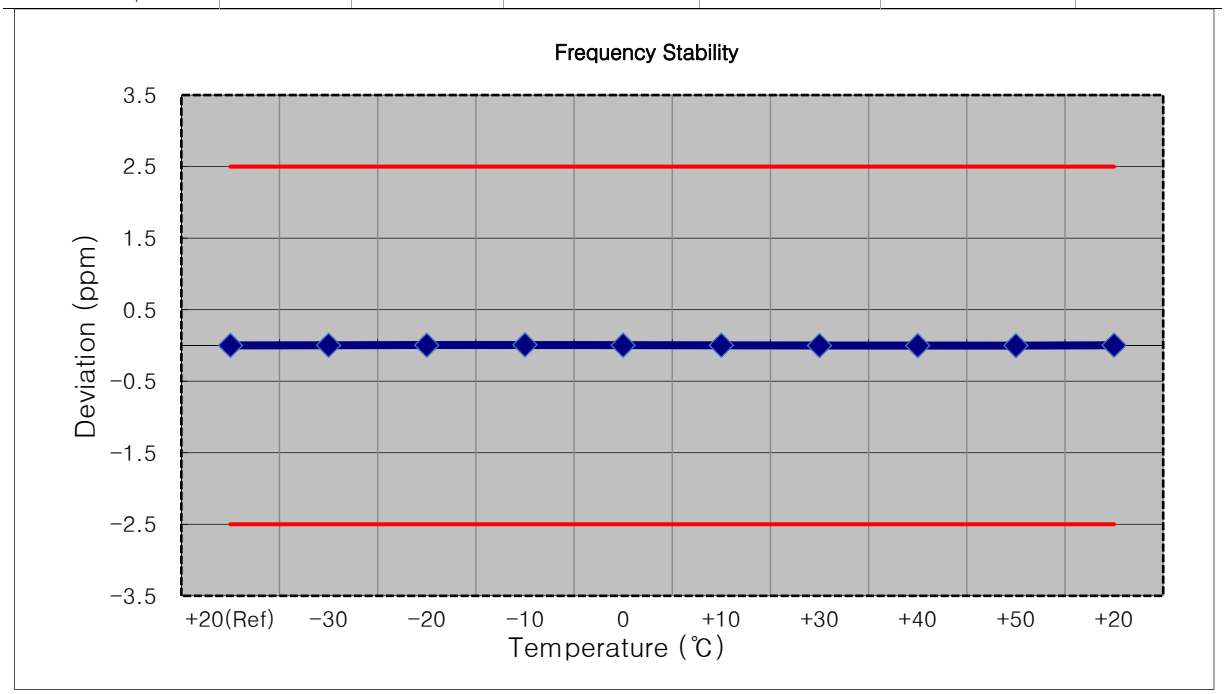
▣ OPERATING FREQUENCY: 821,500,000 Hz

▣ 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	821 500 004	2.1	0.000 000	0.003
100 %		-20	821 500 005	2.3	0.000 000	0.003
100 %		-10	821 500 009	6.6	0.000 001	0.008
100 %		0	821 500 005	2.2	0.000 000	0.003
100 %		+10	821 500 005	2.4	0.000 000	0.003
100 %		+30	821 500 001	-1.7	0.000 000	-0.002
100 %		+40	821 500 000	-1.9	0.000 000	-0.002
100 %		+50	821 500 000	-2.2	0.000 000	-0.003
Batt. Endpoint	3.300	+20	821 500 004	2.0	0.000 000	0.002



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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	24.78	0.300	100
		1	3	24.57	0.286	100
		1	5	24.63	0.291	100
		3	0	24.73	0.297	100
		3	1	24.62	0.289	100
		3	3	24.65	0.292	100
		6	0	23.82	0.241	100
	16QAM	1	0	23.89	0.245	100
		1	3	23.80	0.240	100
		1	5	24.00	0.251	100
		3	0	23.72	0.236	100
		3	1	23.74	0.236	100
		3	3	23.73	0.236	100
		6	0	22.79	0.190	100
	64QAM	1	0	22.88	0.194	100
		1	3	22.69	0.186	100
		1	5	22.83	0.192	100
		3	0	22.68	0.186	100
		3	1	22.59	0.182	100
		3	3	22.63	0.183	100
		6	0	21.79	0.151	100
	256QAM	1	0	19.70	0.093	100
		1	3	19.66	0.092	100
		1	5	19.63	0.092	100
		3	0	19.64	0.092	100
		3	1	19.63	0.092	100
		3	3	19.68	0.093	100
		6	0	19.67	0.093	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	24.77	0.300	100
		1	7	24.55	0.285	100
		1	14	24.64	0.291	100
		8	0	24.70	0.295	100
		8	3	24.62	0.290	100
		8	7	24.68	0.293	100
		15	0	23.79	0.239	100
	16QAM	1	0	23.90	0.246	100
		1	7	23.80	0.240	100
		1	14	24.02	0.252	100
		8	0	23.75	0.237	100
		8	3	23.76	0.237	100
		8	7	23.70	0.235	100
		15	0	22.80	0.191	100
	64QAM	1	0	22.89	0.194	100
		1	7	22.69	0.186	100
		1	14	22.82	0.192	100
		8	0	22.66	0.185	100
		8	3	22.61	0.182	100
		8	7	22.64	0.184	100
		15	0	21.79	0.151	100
	256QAM	1	0	19.72	0.094	100
		1	7	19.67	0.093	100
		1	14	19.65	0.092	100
		8	0	19.64	0.092	100
		8	3	19.65	0.092	100
		8	7	19.67	0.093	100
		15	0	19.66	0.092	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	24.78	0.301	100
		1	12	24.54	0.285	100
		1	24	24.62	0.290	100
		12	0	24.73	0.297	100
		12	6	24.61	0.289	100
		12	11	24.66	0.292	100
		25	0	23.80	0.240	100
	16QAM	1	0	23.92	0.246	100
		1	12	23.79	0.240	100
		1	24	24.02	0.252	100
		12	0	23.71	0.235	100
		12	6	23.75	0.237	100
		12	11	23.72	0.236	100
		25	0	22.79	0.190	100
	64QAM	1	0	22.87	0.194	100
		1	12	22.69	0.186	100
		1	24	22.82	0.191	100
		12	0	22.67	0.185	100
		12	6	22.58	0.181	100
		12	11	22.65	0.184	100
		25	0	21.77	0.150	100
	256QAM	1	0	19.68	0.093	100
		1	12	19.67	0.093	100
		1	24	19.64	0.092	100
		12	0	19.62	0.092	100
		12	6	19.62	0.092	100
		12	11	19.65	0.092	100
		25	0	19.65	0.092	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	24.77	0.300	100
		1	24	24.54	0.284	100
		1	49	24.64	0.291	100
		25	0	24.73	0.297	100
		25	12	24.61	0.289	100
		25	24	24.65	0.292	100
		50	0	23.81	0.240	100
	16QAM	1	0	23.92	0.247	100
		1	24	23.78	0.239	100
		1	49	24.02	0.252	100
		25	0	23.74	0.237	100
		25	12	23.75	0.237	100
		25	24	23.70	0.234	100
		50	0	22.81	0.191	100
	64QAM	1	0	22.88	0.194	100
		1	24	22.67	0.185	100
		1	49	22.84	0.192	100
		25	0	22.65	0.184	100
		25	12	22.60	0.182	100
		25	24	22.67	0.185	100
		50	0	21.80	0.151	100
	256QAM	1	0	19.71	0.094	100
		1	24	19.66	0.092	100
		1	49	19.63	0.092	100
		25	0	19.63	0.092	100
		25	12	19.63	0.092	100
		25	24	19.67	0.093	100
		50	0	19.66	0.093	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	-32.26	30.74	-9.95	1.44	H	< 7.00	0.086	19.35	1	0
		16QAM	-32.89	30.11	-9.95	1.44	H		0.074	18.72		
		64QAM	-33.93	29.07	-9.95	1.44	H		0.059	17.68		
		256QAM	-37.02	25.98	-9.95	1.44	H		0.029	14.59		

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	-32.06	30.94	-9.95	1.44	H	< 7.00	0.090	19.55	1	14
		16QAM	-32.79	30.21	-9.95	1.44	H		0.076	18.82		
		64QAM	-33.70	29.30	-9.95	1.44	H		0.062	17.91		
		256QAM	-36.81	26.19	-9.95	1.44	H		0.030	14.80		

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	-32.04	30.96	-9.95	1.44	H	< 7.00	0.091	19.57	1	24
		16QAM	-32.80	30.20	-9.95	1.44	H		0.076	18.81		
		64QAM	-33.72	29.28	-9.95	1.44	H		0.062	17.89		
		256QAM	-36.76	26.24	-9.95	1.44	H		0.031	14.85		

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	-31.89	31.11	-9.95	1.44	H	< 7.00	0.094	19.72	1	49
		16QAM	-32.77	30.23	-9.95	1.44	H		0.077	18.84		
		64QAM	-33.75	29.25	-9.95	1.44	H		0.061	17.86		
		256QAM	-36.76	26.24	-9.95	1.44	H		0.031	14.85		

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8.8.3 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B26(Straddle)

▣ MODULATION SIGNAL: 10 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	-50.77	9.44	-65.71	2.02	H	-58.29	-13.00	1	49
	2 472.00	-43.16	10.35	-54.36	2.59	H	-46.60	-13.00		
	3 296.00	-53.84	11.06	-62.00	2.95	H	-53.89	-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	6.5205	28.591	-58.356	-29.765	-13.00
	3		3.6691	27.976	-57.510	-29.534	
	5		3.6990	27.976	-57.638	-29.662	
	10		5.0250	28.591	-58.633	-30.042	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 118 ~ 121.
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 122 ~ 133.

8.8.6 BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 134 ~ 141.

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9. TEST DATA(Sub 1 ANT)

9.1 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	24.39	0.275	24.39	0.275	100
		1	3	24.30	0.269	24.29	0.269	100
		1	5	24.36	0.273	24.35	0.272	100
		3	0	24.36	0.273	24.32	0.271	100
		3	1	24.31	0.270	24.27	0.267	100
		3	3	24.27	0.267	24.23	0.265	100
		6	0	23.30	0.214	23.26	0.212	100
	16QAM	1	0	23.68	0.233	23.66	0.232	100
		1	3	23.46	0.222	23.44	0.221	100
		1	5	23.60	0.229	23.57	0.228	100
		3	0	23.34	0.216	23.33	0.215	100
		3	1	23.42	0.220	23.39	0.218	100
		3	3	23.30	0.214	23.27	0.212	100
		6	0	22.49	0.177	22.48	0.177	100
	64QAM	1	0	22.41	0.174	22.37	0.173	100
		1	3	22.44	0.175	22.42	0.175	100
		1	5	22.61	0.182	22.57	0.181	100
		3	0	22.25	0.168	22.23	0.167	100
		3	1	22.54	0.179	22.52	0.179	100
		3	3	22.41	0.174	22.37	0.173	100
		6	0	21.48	0.141	21.45	0.140	100
	256QAM	1	0	19.46	0.088	19.43	0.088	100
		1	3	19.40	0.087	19.36	0.086	100
		1	5	19.44	0.088	19.42	0.087	100
		3	0	19.43	0.088	19.42	0.087	100
		3	1	19.47	0.089	19.47	0.088	100
		3	3	19.48	0.089	19.44	0.088	100
		6	0	19.36	0.086	19.34	0.086	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	24.43	0.277	24.42	0.277	100
		1	7	24.35	0.272	24.32	0.270	100
		1	14	24.42	0.277	24.39	0.275	100
		8	0	23.47	0.222	23.45	0.221	100
		8	3	23.41	0.219	23.39	0.218	100
		8	7	23.43	0.220	23.42	0.220	100
		15	0	23.67	0.233	23.67	0.233	100
	16QAM	1	0	23.69	0.234	23.66	0.232	100
		1	7	23.79	0.239	23.75	0.237	100
		1	14	23.72	0.236	23.69	0.234	100
		8	0	22.42	0.175	22.40	0.174	100
		8	3	22.48	0.177	22.47	0.176	100
		8	7	22.43	0.175	22.41	0.174	100
		15	0	22.59	0.182	22.59	0.181	100
	64QAM	1	0	22.61	0.182	22.57	0.181	100
		1	7	22.46	0.176	22.44	0.176	100
		1	14	22.65	0.184	22.62	0.183	100
		8	0	21.45	0.140	21.41	0.138	100
		8	3	21.48	0.141	21.47	0.140	100
		8	7	21.47	0.140	21.46	0.140	100
		15	0	21.60	0.145	21.57	0.144	100
	256QAM	1	0	19.43	0.088	19.40	0.087	100
		1	7	19.44	0.088	19.41	0.087	100
		1	14	19.48	0.089	19.48	0.089	100
		8	0	19.49	0.089	19.46	0.088	100
		8	3	19.36	0.086	19.34	0.086	100
		8	7	19.45	0.088	19.43	0.088	100
		15	0	19.51	0.089	19.49	0.089	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	24.44	0.278	24.43	0.277	100
		1	12	24.35	0.272	24.34	0.272	100
		1	24	24.46	0.279	24.41	0.276	100
		12	0	23.46	0.222	23.45	0.222	100
		12	6	23.47	0.222	23.40	0.219	100
		12	11	23.41	0.219	23.42	0.220	100
		25	0	23.48	0.223	23.65	0.232	100
	16QAM	1	0	23.78	0.239	23.65	0.232	100
		1	12	23.75	0.237	23.77	0.238	100
		1	24	23.68	0.233	23.68	0.234	100
		12	0	22.49	0.177	22.41	0.174	100
		12	6	22.52	0.179	22.48	0.177	100
		12	11	22.42	0.175	22.43	0.175	100
		25	0	22.39	0.173	22.56	0.180	100
	64QAM	1	0	22.68	0.185	22.60	0.182	100
		1	12	22.39	0.173	22.45	0.176	100
		1	24	22.62	0.183	22.62	0.183	100
		12	0	21.46	0.140	21.43	0.139	100
		12	6	21.46	0.140	21.45	0.140	100
		12	11	21.45	0.140	21.47	0.140	100
		25	0	21.45	0.140	21.57	0.144	100
	256QAM	1	0	19.53	0.090	19.40	0.087	100
		1	12	19.50	0.089	19.42	0.088	100
		1	24	19.56	0.090	19.46	0.088	100
		12	0	19.43	0.088	19.49	0.089	100
		12	6	19.46	0.088	19.33	0.086	100
		12	11	19.35	0.086	19.44	0.088	100
		25	0	19.43	0.088	19.49	0.089	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	24.34	0.272	100
		1	49	24.40	0.275	100
		25	0	23.46	0.222	100
		25	12	23.37	0.217	100
		25	24	23.40	0.219	100
		50	0	23.65	0.232	100
	16QAM	1	0	23.68	0.233	100
		1	24	23.77	0.238	100
		1	49	23.71	0.235	100
		25	0	22.39	0.173	100
		25	12	22.46	0.176	100
		25	24	22.42	0.175	100
		50	0	22.56	0.180	100
	64QAM	1	0	22.60	0.182	100
		1	24	22.45	0.176	100
		1	49	22.61	0.182	100
		25	0	21.42	0.139	100
		25	12	21.45	0.140	100
		25	24	21.47	0.140	100
		50	0	21.60	0.144	100
	256QAM	1	0	19.42	0.087	100
		1	24	19.41	0.087	100
		1	49	19.46	0.088	100
		25	0	19.49	0.089	100
		25	12	19.33	0.086	100
		25	24	19.42	0.087	100
		50	0	19.51	0.089	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	24.42	0.277	100
		1	36	24.34	0.272	100
		1	74	24.42	0.277	100
		36	0	23.44	0.221	100
		36	18	23.37	0.217	100
		36	39	23.42	0.220	100
		75	0	23.65	0.232	100
	16QAM	1	0	23.67	0.233	100
		1	36	23.76	0.237	100
		1	74	23.71	0.235	100
		36	0	22.40	0.174	100
		36	18	22.44	0.175	100
		36	39	22.41	0.174	100
		75	0	22.58	0.181	100
	64QAM	1	0	22.58	0.181	100
		1	36	22.42	0.175	100
		1	74	22.63	0.183	100
		36	0	21.44	0.139	100
		36	18	21.46	0.140	100
		36	39	21.46	0.140	100
		75	0	21.58	0.144	100
	256QAM	1	0	19.40	0.087	100
		1	36	19.43	0.088	100
		1	74	19.46	0.088	100
		36	0	19.46	0.088	100
		36	18	19.34	0.086	100
		36	39	19.43	0.088	100
		75	0	19.48	0.089	100

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9.2 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	-32.57	30.64	-10.05	1.44	H	< 100	0.082	19.15	1	0
		16QAM	-33.26	29.95	-10.05	1.44	H		0.070	18.46		
		64QAM	-34.33	28.88	-10.05	1.44	H		0.055	17.39		
		256QAM	-37.38	25.83	-10.05	1.44	H		0.027	14.34		
823.3		QPSK	-31.91	31.12	-9.95	1.44	H		0.094	19.73	1	3
		16QAM	-32.69	30.34	-9.95	1.44	H		0.079	18.95		
		64QAM	-33.71	29.32	-9.95	1.44	H		0.062	17.93		
		256QAM	-36.72	26.31	-9.95	1.44	H		0.031	14.92		

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	-32.28	30.94	-10.05	1.44	H	< 100	0.088	19.45	1	14
		16QAM	-33.06	30.16	-10.05	1.44	H		0.074	18.67		
		64QAM	-34.02	29.20	-10.05	1.44	H		0.059	17.71		
		256QAM	-37.09	26.13	-10.05	1.44	H		0.029	14.64		
822.5		QPSK	-31.79	31.27	-9.95	1.44	H		0.097	19.88	1	14
		16QAM	-32.45	30.61	-9.95	1.44	H		0.084	19.22		
		64QAM	-33.45	29.61	-9.95	1.44	H		0.066	18.22		
		256QAM	-36.50	26.56	-9.95	1.44	H		0.033	15.17		

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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	-32.06	31.14	-10.05	1.44	H	< 100	0.092	19.65	1	24
		16QAM	-32.86	30.34	-10.05	1.44	H		0.077	18.85		
		64QAM	-33.79	29.41	-10.05	1.44	H		0.062	17.92		
		256QAM	-36.88	26.32	-10.05	1.44	H		0.030	14.83		
821.5		QPSK	-31.83	31.27	-9.95	1.44	H		0.097	19.88	1	24
		16QAM	-32.53	30.57	-9.95	1.44	H		0.083	19.18		
		64QAM	-33.49	29.61	-9.95	1.44	H		0.066	18.22		
		256QAM	-36.53	26.57	-9.95	1.44	H		0.033	15.18		

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	-31.75	31.41	-10.05	1.44	H	< 100	0.098	19.92	1	49
		16QAM	-32.59	30.57	-10.05	1.44	H		0.081	19.08		
		64QAM	-33.57	29.59	-10.05	1.44	H		0.065	18.10		
		256QAM	-36.56	26.60	-10.05	1.44	H		0.032	15.11		

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	-31.54	31.56	-9.95	1.44	H	< 7.00	0.104	20.17	1	74
		16QAM	-32.30	30.80	-9.95	1.44	H		0.087	19.41		
		64QAM	-33.32	29.78	-9.95	1.44	H		0.069	18.39		
		256QAM	-36.31	26.79	-9.95	1.44	H		0.035	15.40		

Note

1. Limit: None (for reporting purposes only)

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9.3 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	-51.33	9.39	-66.17	2.00	H	-58.78	-13.00	1	74
	2 464.50	-33.57	10.37	-44.73	2.59	V	-36.95	-13.00		
	3 286.00	-54.87	10.98	-62.98	2.95	H	-54.95	-13.00		

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9.4 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	1.0954
			16QAM			1.0941
			64QAM			1.0966
			256QAM			1.0985
	3 MHz	822.5	QPSK	15		2.7151
			16QAM			2.7094
			64QAM			2.6979
			256QAM			2.7143
	5 MHz	821.5	QPSK	25		4.5250
			16QAM			4.5123
			64QAM			4.5247
			256QAM			4.5336
	10 MHz	819.0	QPSK	50		9.0126
			16QAM			9.0149
			64QAM			9.0288
			256QAM			9.0394
	15 MHz	821.5	QPSK	75		13.465
			16QAM			13.464
			64QAM			13.457
			256QAM			13.477

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 143 ~ 162.

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9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
26	1.4	814.7	2.7817	27.976	-57.725	-29.749	-13.00
		823.3	3.0509	27.976	-58.400	-30.424	
	3	815.5	6.2613	28.591	-58.606	-30.015	
		822.5	3.3700	27.976	-57.890	-29.914	
	5	816.5	3.1905	27.976	-57.174	-29.198	
		821.5	3.6990	27.976	-57.984	-30.008	
	10	819.0	3.6890	27.976	-57.890	-29.914	
	15	821.5	3.0409	27.976	-58.229	-30.253	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 163 ~ 170.
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

9.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 171 ~ 190.

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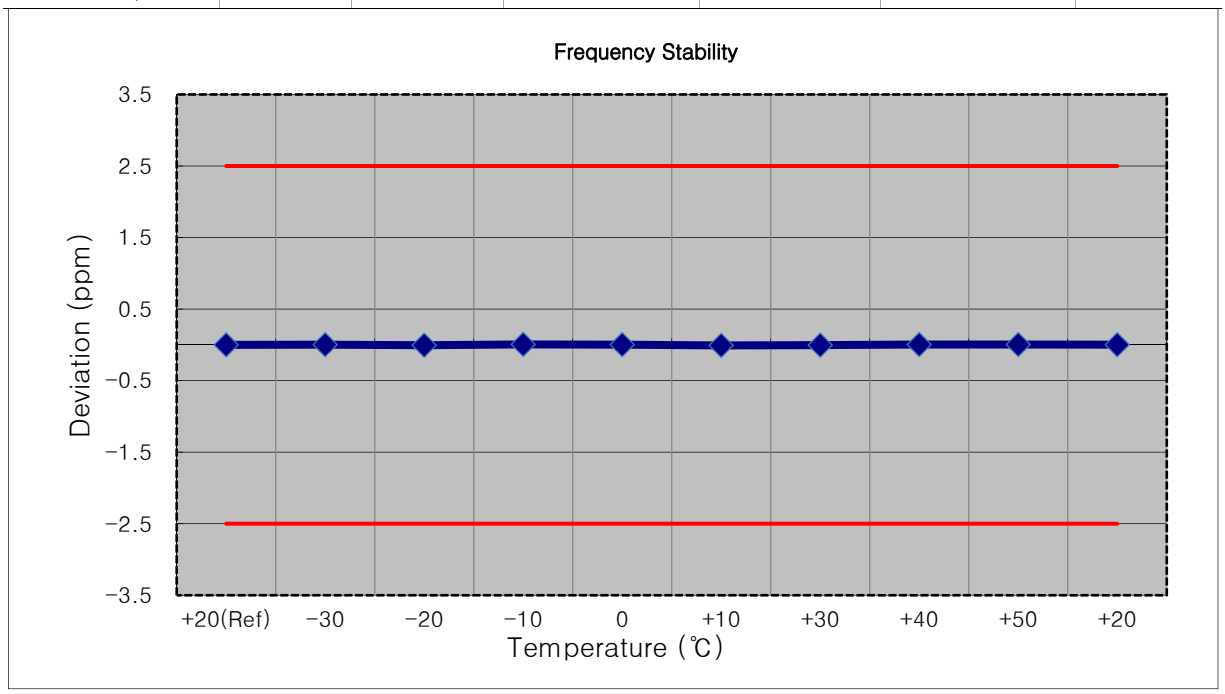
9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ 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. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	814 699 998	0.0	0.000 000	0.000
100 %		-30	814 700 000	1.9	0.000 000	0.002
100 %		-20	814 699 993	-4.4	-0.000 001	-0.005
100 %		-10	814 700 003	5.3	0.000 001	0.007
100 %		0	814 700 000	2.0	0.000 000	0.002
100 %		+10	814 699 992	-6.3	-0.000 001	-0.008
100 %		+30	814 699 995	-3.2	0.000 000	-0.004
100 %		+40	814 700 001	3.3	0.000 000	0.004
100 %		+50	814 700 001	3.3	0.000 000	0.004
Batt. Endpoint	3.300	+20	814 699 999	1.6	0.000 000	0.002



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▣ MODE: LTE 26

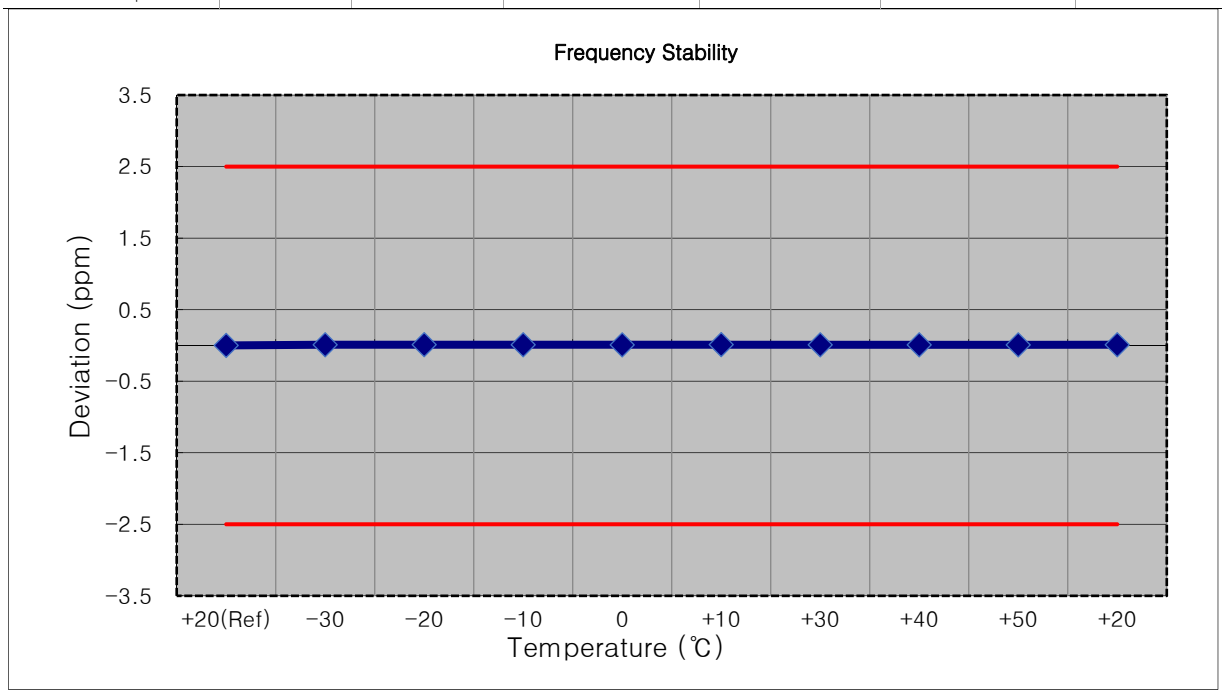
▣ OPERATING FREQUENCY: 815,500,000 Hz

▣ 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)	815 500 008	0.0	0.000 000	0.000
100 %		-30	815 500 016	7.7	0.000 001	0.009
100 %		-20	815 500 017	9.1	0.000 001	0.011
100 %		-10	815 500 016	7.6	0.000 001	0.009
100 %		0	815 500 014	6.4	0.000 001	0.008
100 %		+10	815 500 017	9.4	0.000 001	0.012
100 %		+30	815 500 015	6.7	0.000 001	0.008
100 %		+40	815 500 015	6.8	0.000 001	0.008
100 %		+50	815 500 015	6.5	0.000 001	0.008
Batt. Endpoint	3.300	+20	815 500 016	7.9	0.000 001	0.010



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▣ MODE: LTE 26

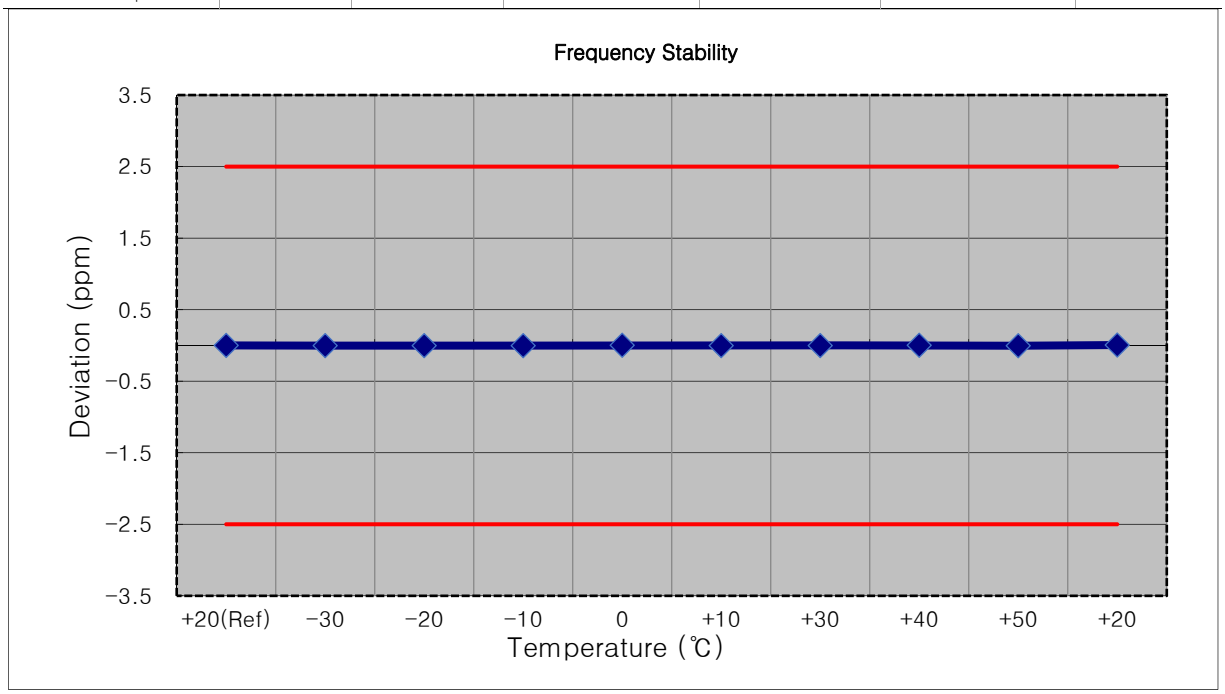
▣ OPERATING FREQUENCY: 816,500,000 Hz

▣ 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)	816 500 004	0.0	0.000 000	0.000
100 %		-30	816 500 002	-2.3	0.000 000	-0.003
100 %		-20	816 500 002	-2.3	0.000 000	-0.003
100 %		-10	816 500 002	-2.8	0.000 000	-0.003
100 %		0	816 500 007	2.4	0.000 000	0.003
100 %		+10	816 500 002	-2.3	0.000 000	-0.003
100 %		+30	816 500 003	-1.7	0.000 000	-0.002
100 %		+40	816 500 007	2.2	0.000 000	0.003
100 %		+50	816 500 001	-3.3	0.000 000	-0.004
Batt. Endpoint	3.300	+20	816 500 009	4.3	0.000 001	0.005



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▣ MODE: LTE 26

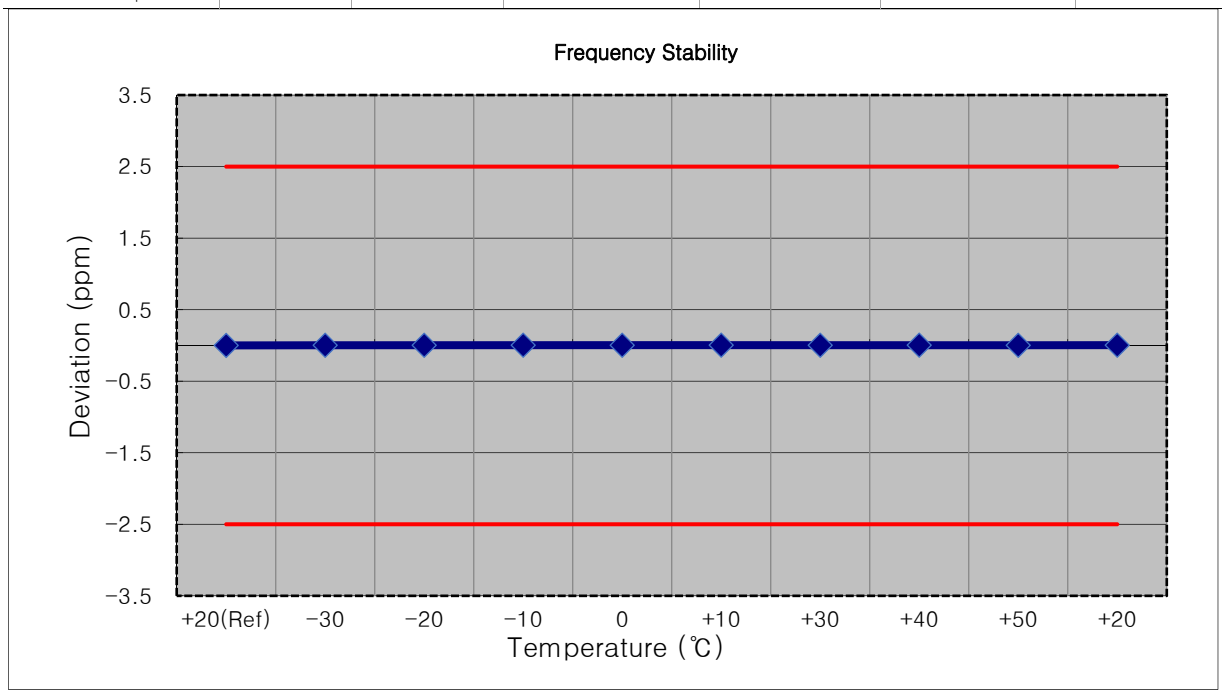
▣ OPERATING FREQUENCY: 819,000,000 Hz

▣ 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)	819 000 003	0.0	0.000 000	0.000
100 %		-30	819 000 005	1.9	0.000 000	0.002
100 %		-20	819 000 005	2.4	0.000 000	0.003
100 %		-10	819 000 006	3.0	0.000 000	0.004
100 %		0	819 000 005	2.2	0.000 000	0.003
100 %		+10	819 000 006	3.3	0.000 000	0.004
100 %		+30	819 000 005	2.0	0.000 000	0.002
100 %		+40	819 000 006	3.4	0.000 000	0.004
100 %		+50	819 000 005	1.7	0.000 000	0.002
Batt. Endpoint	3.300	+20	819 000 006	3.0	0.000 000	0.004



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▣ MODE: LTE 26

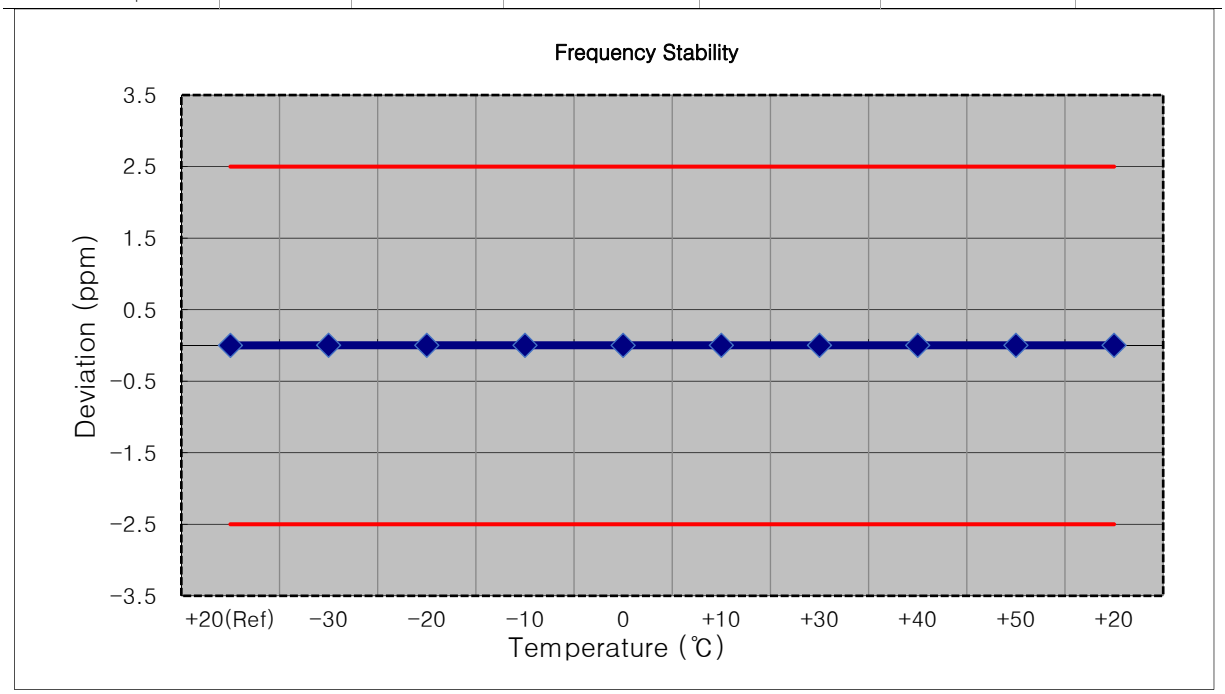
▣ OPERATING FREQUENCY: 821,500,000 Hz

▣ 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	821 500 004	2.0	0.000 000	0.002
100 %		-20	821 500 003	1.3	0.000 000	0.002
100 %		-10	821 500 004	1.8	0.000 000	0.002
100 %		0	821 500 003	1.2	0.000 000	0.001
100 %		+10	821 500 003	1.6	0.000 000	0.002
100 %		+30	821 500 003	1.5	0.000 000	0.002
100 %		+40	821 500 003	1.5	0.000 000	0.002
100 %		+50	821 500 003	1.3	0.000 000	0.002
Batt. Endpoint	3.300	+20	821 500 003	1.5	0.000 000	0.002



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9.8 STRADDLE CHANNEL

9.8.1 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	24.38	0.274	100
		1	3	24.27	0.267	100
		1	5	24.36	0.273	100
		3	0	24.33	0.271	100
		3	1	24.28	0.268	100
		3	3	24.25	0.266	100
		6	0	23.29	0.213	100
	16QAM	1	0	23.66	0.232	100
		1	3	23.44	0.221	100
		1	5	23.58	0.228	100
		3	0	23.33	0.215	100
		3	1	23.42	0.220	100
		3	3	23.26	0.212	100
		6	0	22.47	0.177	100
	64QAM	1	0	22.41	0.174	100
		1	3	22.44	0.175	100
		1	5	22.57	0.181	100
		3	0	22.24	0.167	100
		3	1	22.53	0.179	100
		3	3	22.39	0.174	100
		6	0	21.45	0.140	100
	256QAM	1	0	19.44	0.088	100
		1	3	19.37	0.086	100
		1	5	19.41	0.087	100
		3	0	19.41	0.087	100
		3	1	19.44	0.088	100
		3	3	19.45	0.088	100
		6	0	19.35	0.086	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	24.41	0.276	100
		1	7	24.32	0.270	100
		1	14	24.40	0.275	100
		8	0	23.45	0.222	100
		8	3	23.37	0.217	100
		8	7	23.43	0.220	100
		15	0	23.64	0.231	100
	16QAM	1	0	23.69	0.234	100
		1	7	23.76	0.238	100
		1	14	23.70	0.235	100
		8	0	22.39	0.173	100
		8	3	22.45	0.176	100
		8	7	22.42	0.175	100
		15	0	22.58	0.181	100
	64QAM	1	0	22.60	0.182	100
		1	7	22.43	0.175	100
		1	14	22.63	0.183	100
		8	0	21.44	0.139	100
		8	3	21.48	0.141	100
		8	7	21.47	0.140	100
		15	0	21.57	0.144	100
	256QAM	1	0	19.41	0.087	100
		1	7	19.41	0.087	100
		1	14	19.45	0.088	100
		8	0	19.48	0.089	100
		8	3	19.35	0.086	100
		8	7	19.44	0.088	100
		15	0	19.48	0.089	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	0.275	100
		1	12	24.35	0.272	100
		1	24	24.40	0.276	100
		12	0	23.43	0.220	100
		12	6	23.37	0.217	100
		12	11	23.41	0.219	100
		25	0	23.65	0.232	100
	16QAM	1	0	23.68	0.233	100
		1	12	23.76	0.238	100
		1	24	23.71	0.235	100
		12	0	22.40	0.174	100
		12	6	22.46	0.176	100
		12	11	22.41	0.174	100
		25	0	22.57	0.181	100
	64QAM	1	0	22.61	0.182	100
		1	12	22.44	0.175	100
		1	24	22.61	0.183	100
		12	0	21.45	0.140	100
		12	6	21.45	0.140	100
		12	11	21.44	0.139	100
		25	0	21.58	0.144	100
	256QAM	1	0	19.42	0.087	100
		1	12	19.43	0.088	100
		1	24	19.46	0.088	100
		12	0	19.46	0.088	100
		12	6	19.36	0.086	100
		12	11	19.42	0.087	100
		25	0	19.50	0.089	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	24.42	0.277	100
		1	24	24.33	0.271	100
		1	49	24.40	0.276	100
		25	0	23.43	0.220	100
		25	12	23.41	0.219	100
		25	24	23.41	0.219	100
		50	0	23.64	0.231	100
	16QAM	1	0	23.67	0.233	100
		1	24	23.75	0.237	100
		1	49	23.71	0.235	100
		25	0	22.41	0.174	100
		25	12	22.47	0.177	100
		25	24	22.41	0.174	100
		50	0	22.58	0.181	100
	64QAM	1	0	22.59	0.182	100
		1	24	22.46	0.176	100
		1	49	22.64	0.184	100
		25	0	21.43	0.139	100
		25	12	21.45	0.140	100
		25	24	21.44	0.139	100
		50	0	21.57	0.144	100
	256QAM	1	0	19.42	0.087	100
		1	24	19.43	0.088	100
		1	49	19.47	0.088	100
		25	0	19.48	0.089	100
		25	12	19.35	0.086	100
		25	24	19.43	0.088	100
		50	0	19.47	0.089	100

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9.8.2 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	-31.87	31.13	-9.95	1.44	H	< 7.00	0.094	19.74	1	0
		16QAM	-32.66	30.34	-9.95	1.44	H		0.079	18.95		
		64QAM	-33.55	29.45	-9.95	1.44	H		0.064	18.06		
		256QAM	-36.67	26.33	-9.95	1.44	H		0.031	14.94		

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	-31.75	31.25	-9.95	1.44	H	< 7.00	0.097	19.86	1	14
		16QAM	-32.42	30.58	-9.95	1.44	H		0.083	19.19		
		64QAM	-33.31	29.69	-9.95	1.44	H		0.068	18.30		
		256QAM	-36.48	26.52	-9.95	1.44	H		0.033	15.13		

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	-31.71	31.29	-9.95	1.44	H	< 7.00	0.098	19.90	1	24
		16QAM	-32.37	30.63	-9.95	1.44	H		0.084	19.24		
		64QAM	-33.29	29.71	-9.95	1.44	H		0.068	18.32		
		256QAM	-36.38	26.62	-9.95	1.44	H		0.033	15.23		

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	-31.63	31.37	-9.95	1.44	H	< 7.00	0.100	19.98	1	49
		16QAM	-32.39	30.61	-9.95	1.44	H		0.084	19.22		
		64QAM	-33.40	29.60	-9.95	1.44	H		0.066	18.21		
		256QAM	-36.41	26.59	-9.95	1.44	H		0.033	15.20		

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9.8.3 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B26(Straddle)

▣ MODULATION SIGNAL: 10 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	-51.06	9.44	-66.00	2.02	H	-58.58	-13.00	1	49
	2 472.00	-33.85	10.35	-45.05	2.59	H	-37.29	-13.00		
	3 296.00	-54.75	11.06	-62.91	2.95	H	-54.80	-13.00		

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9.8.4 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	-57.473	-29.497	-13.00
	3		6.8894	28.591	-57.403	-28.812	
	5		5.3540	28.591	-58.467	-29.876	
	10		3.6591	27.976	-57.949	-29.973	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 192 ~ 195.
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

9.8.5 CHANNEL EDGE(Part90)

- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Band Edge are shown Page 196 ~ 207.

9.8.6 BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 208 ~ 215.

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10. TEST PLOTS(Main 1 ANT)

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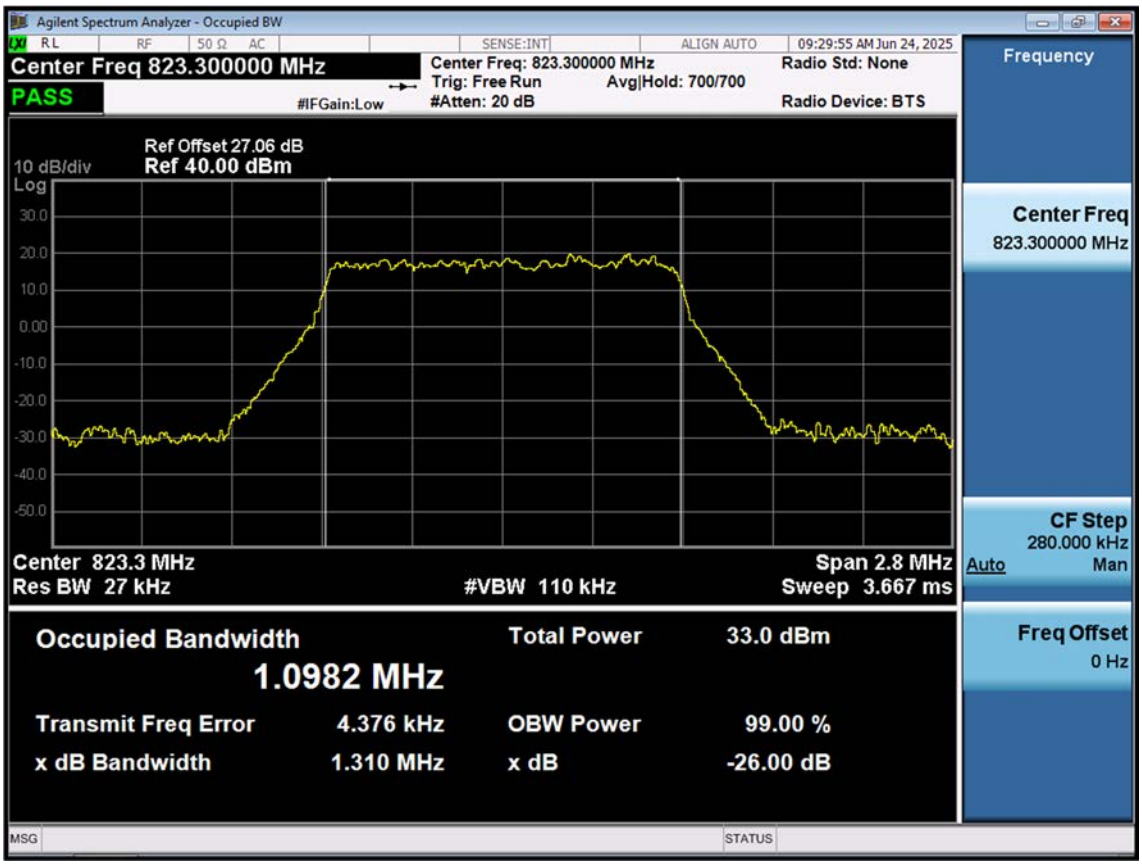
LTE B26_1.4 M_OBW_Mid_QPSK_FullRB



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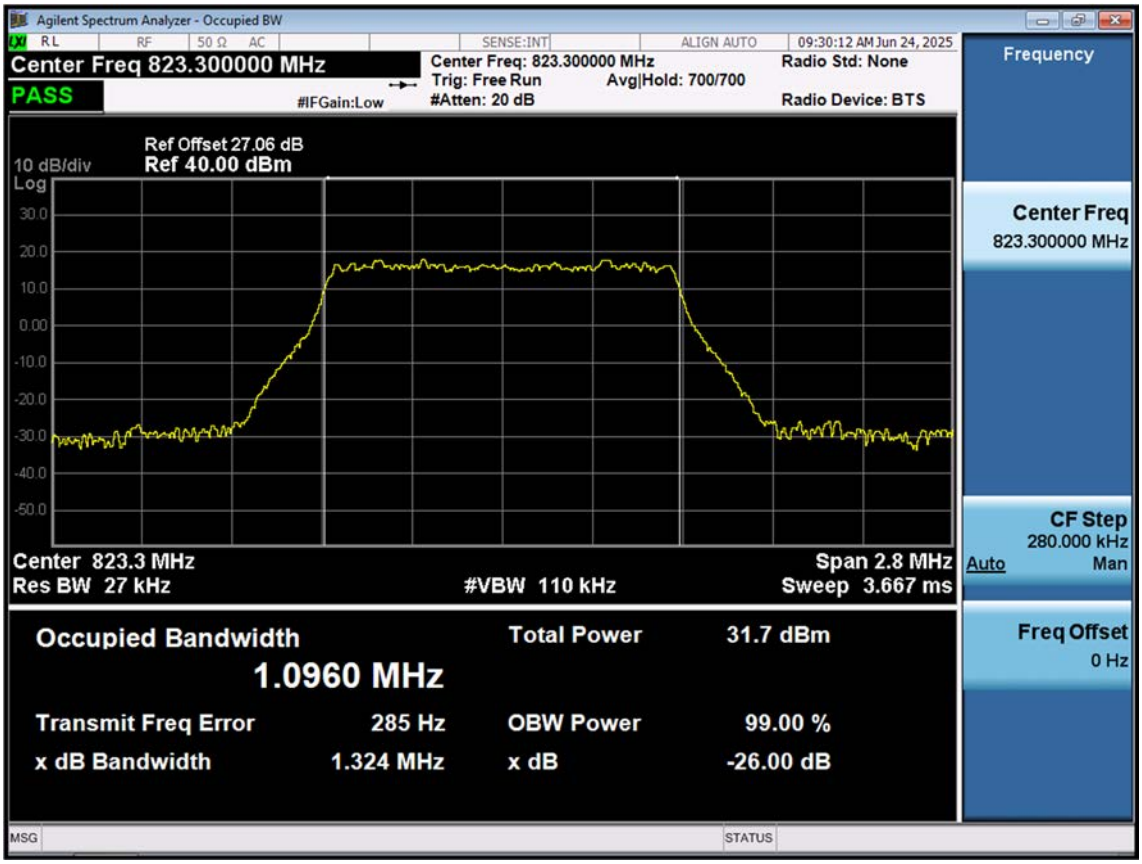
LTE B26_1.4 M_OBW_Mid_16QAM_FullRB



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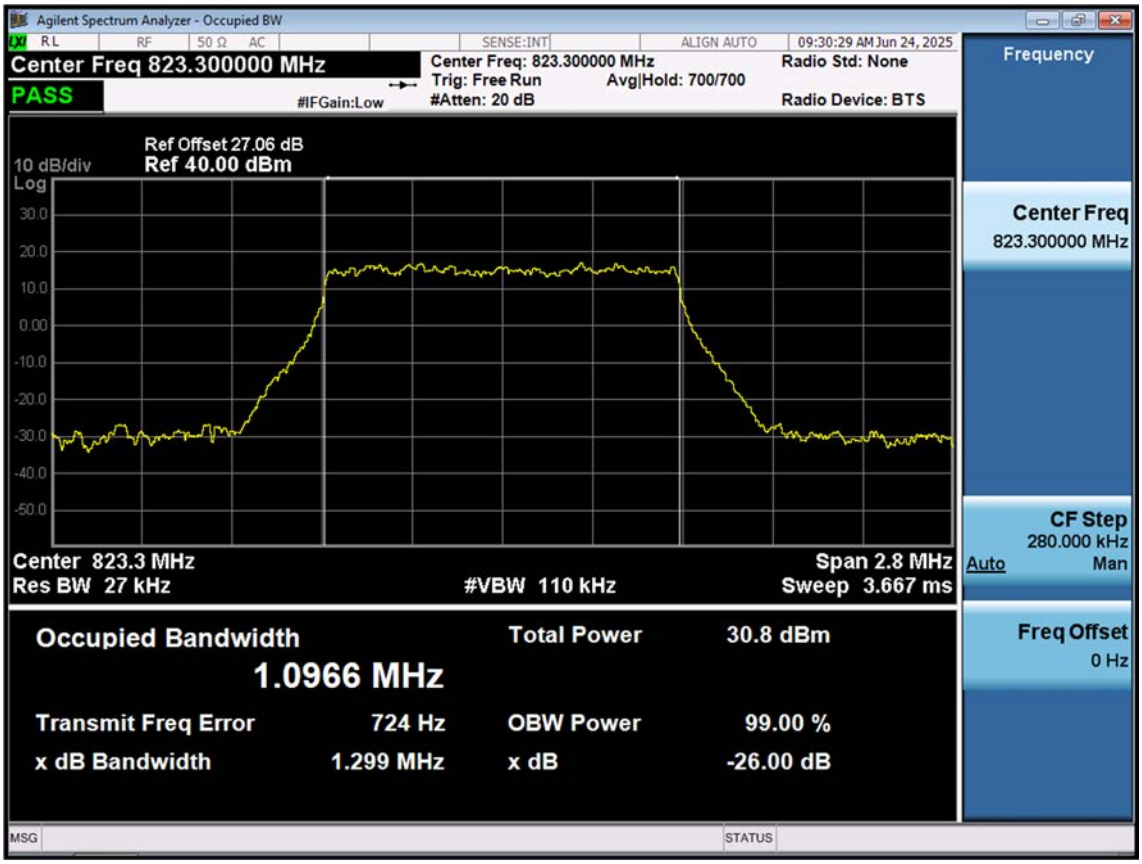
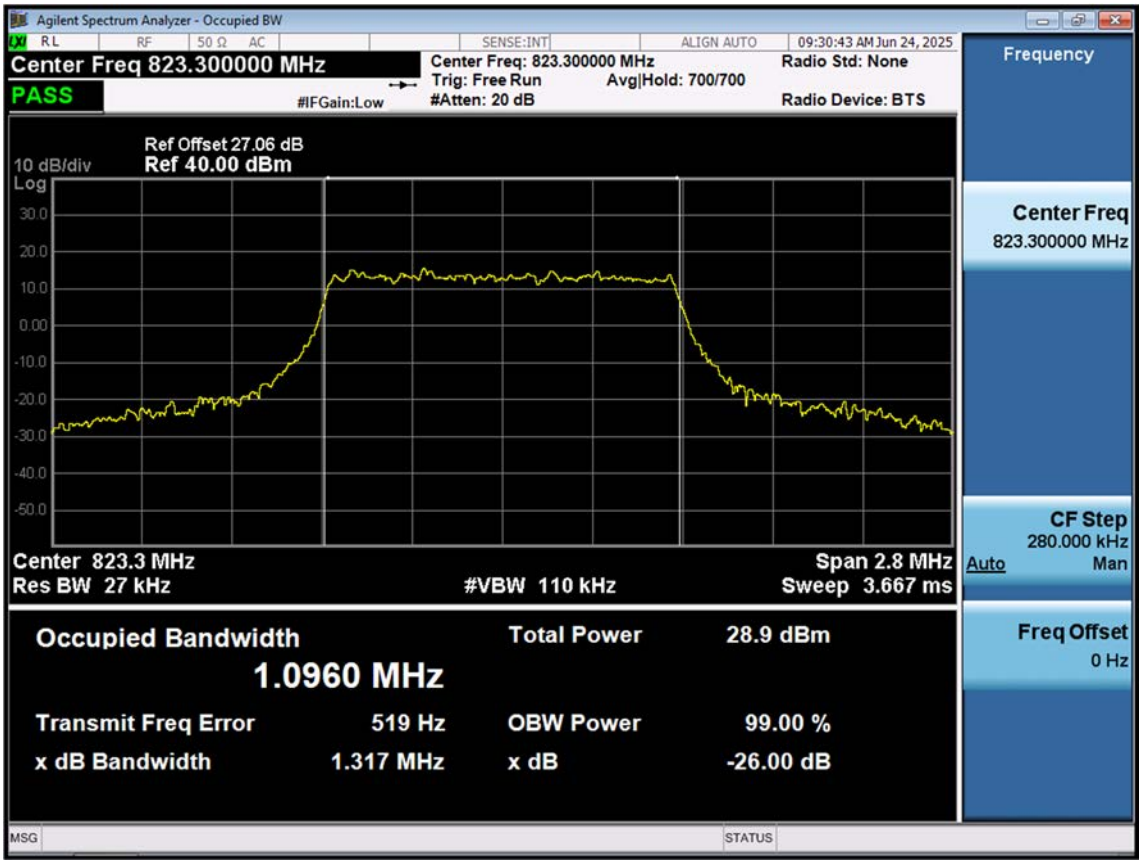
LTE B26_1.4 M_OBW_Mid_64QAM_FullRB



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

LTE B26_1.4 M_OBW_Mid_256QAM_FullRB



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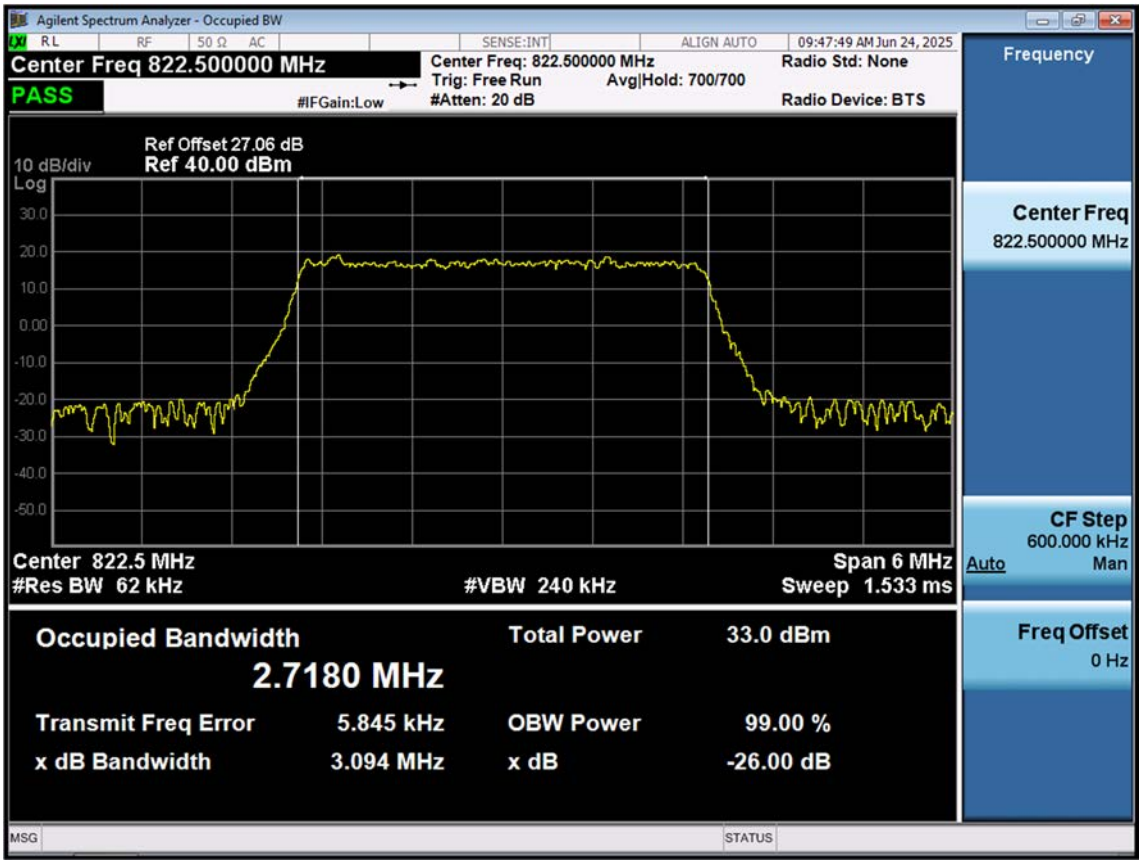
LTE B26_3 M_OBW_Mid_QPSK_FullRB



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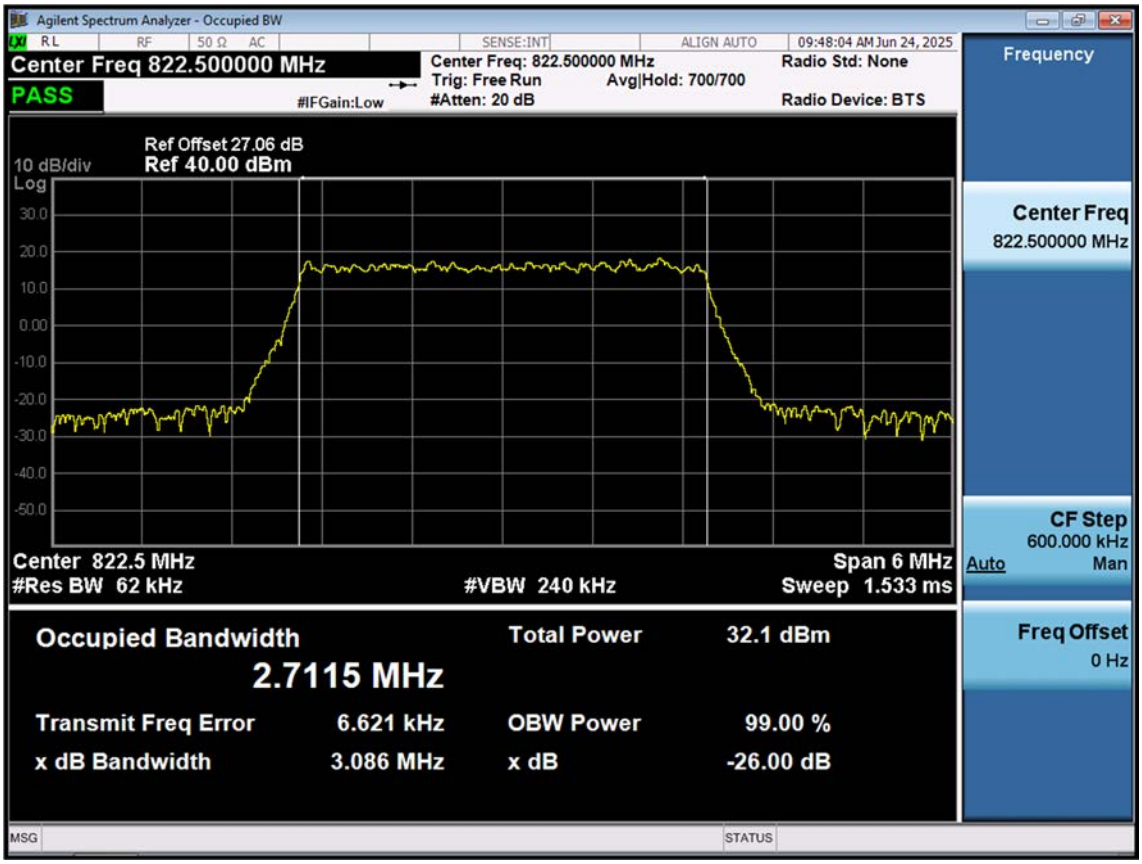
LTE B26_3 M_OBW_Mid_16QAM_FullRB



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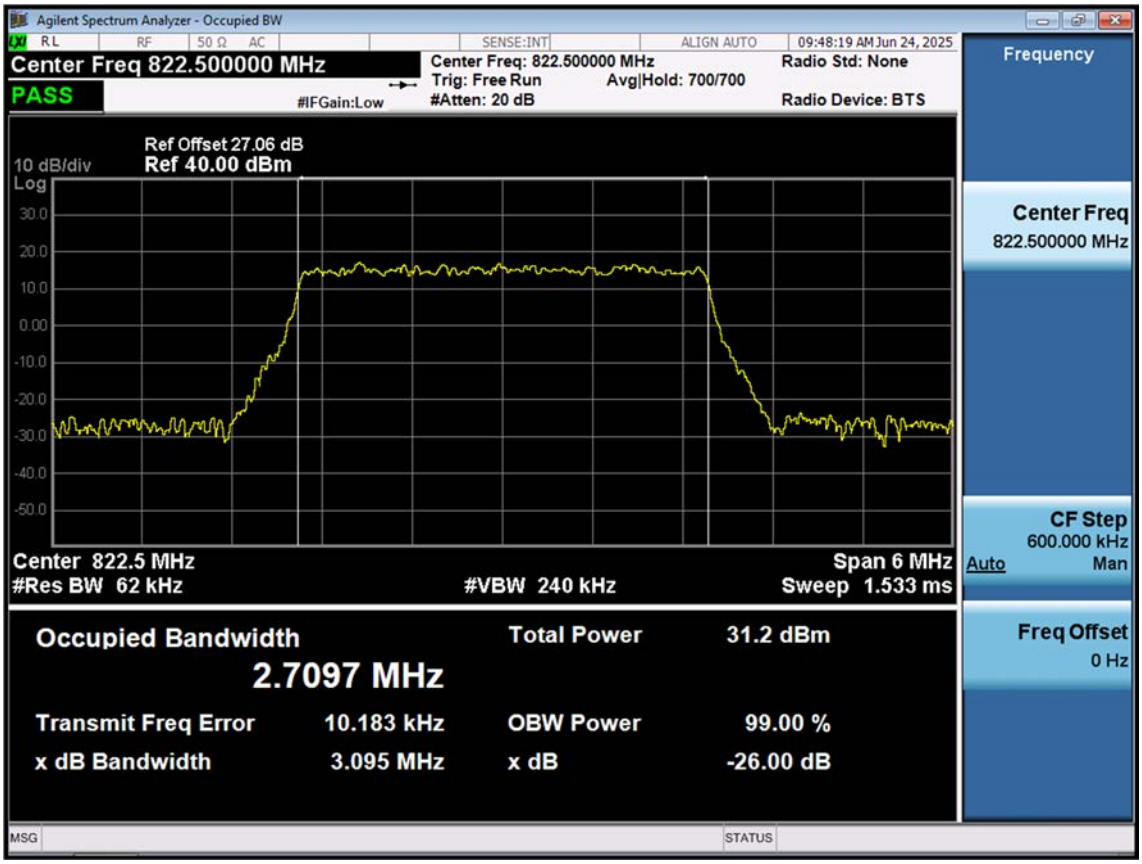
LTE B26_3 M_OBW_Mid_64QAM_FullRB



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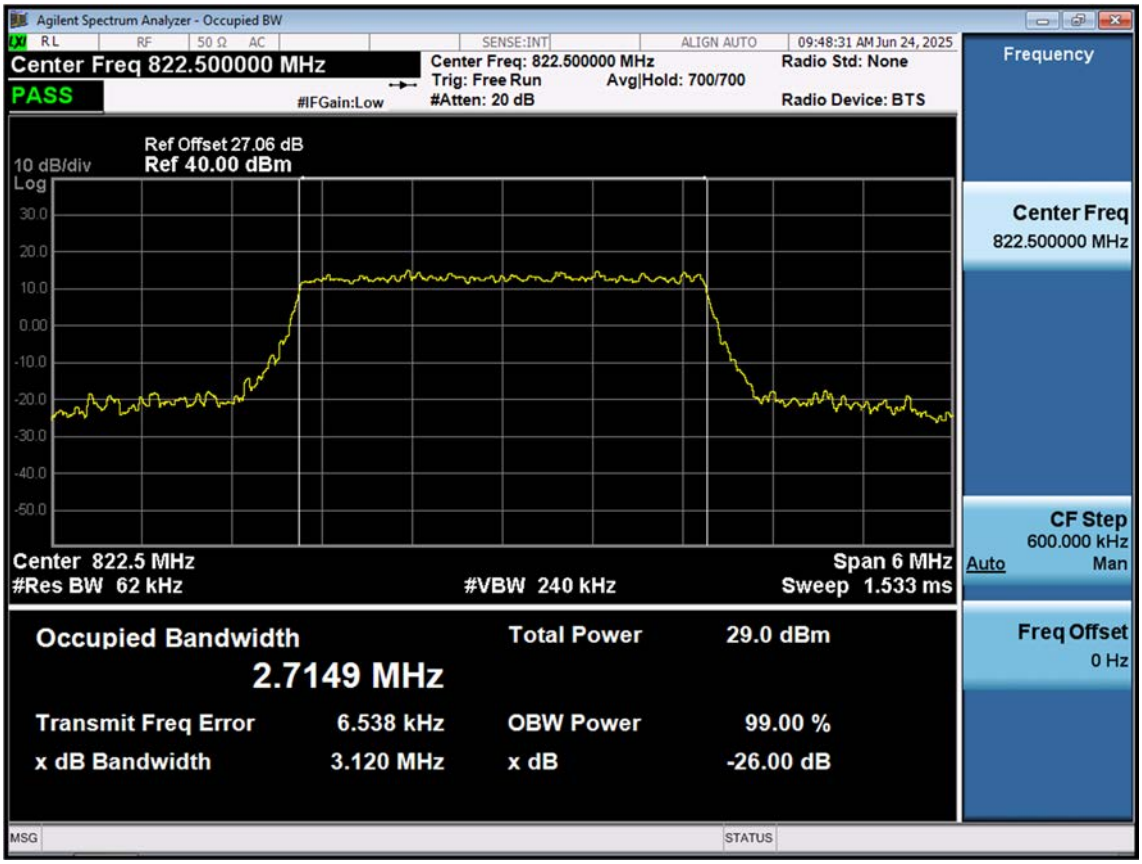
LTE B26_3 M_OBW_Mid_256QAM_FullRB



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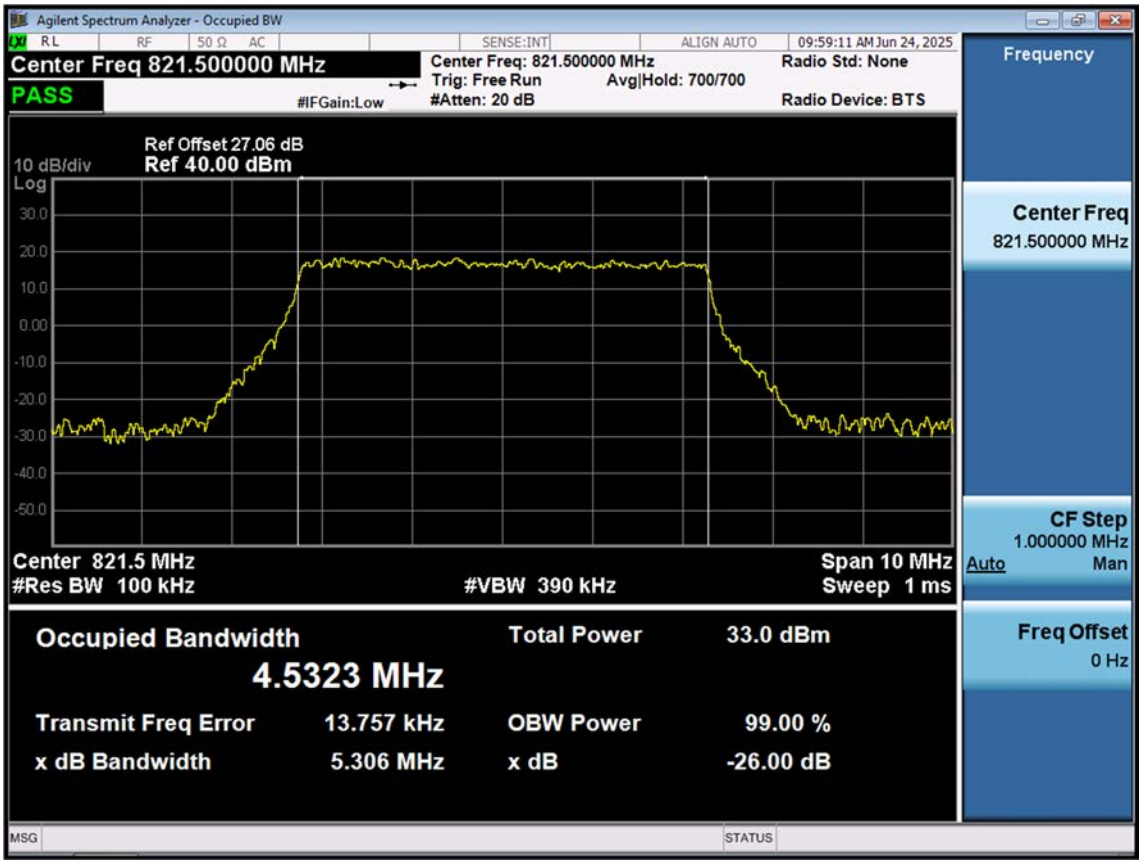
LTE B26_5 M_OBW_Mid_QPSK_FullRB



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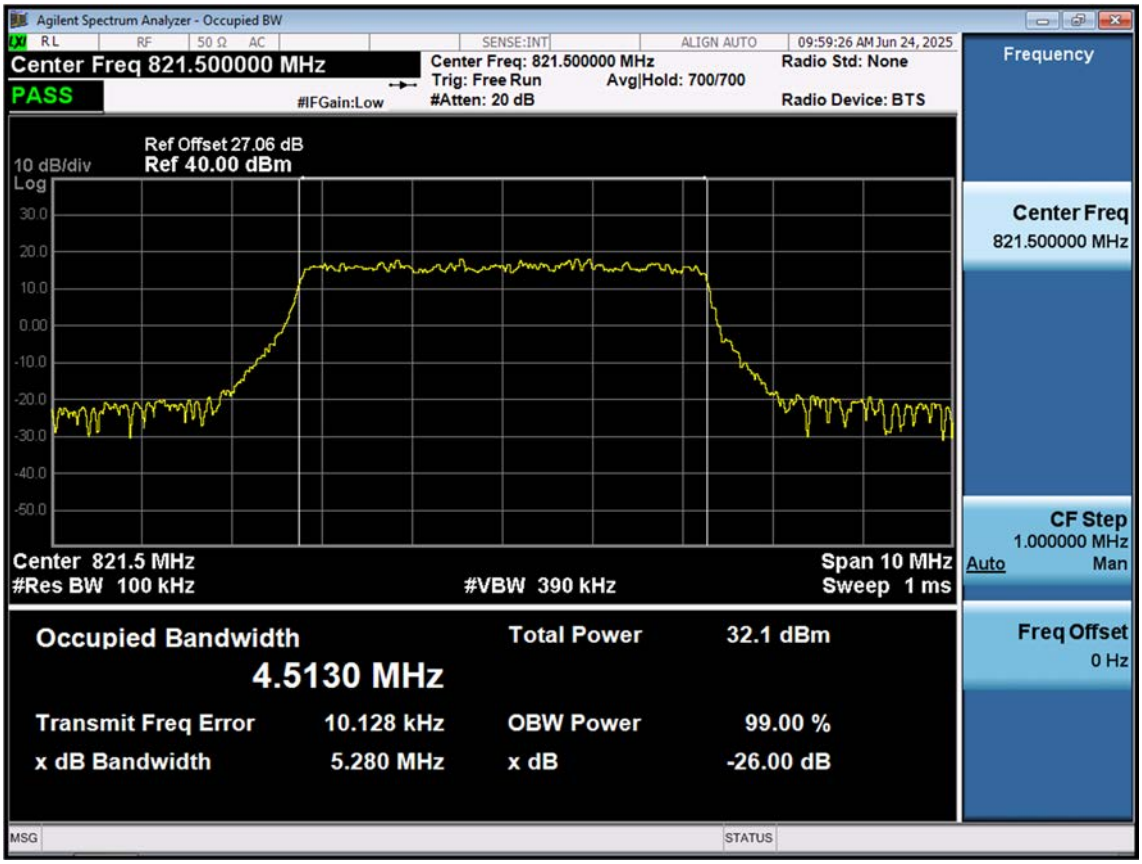
LTE B26_5 M_OBW_Mid_16QAM_FullRB



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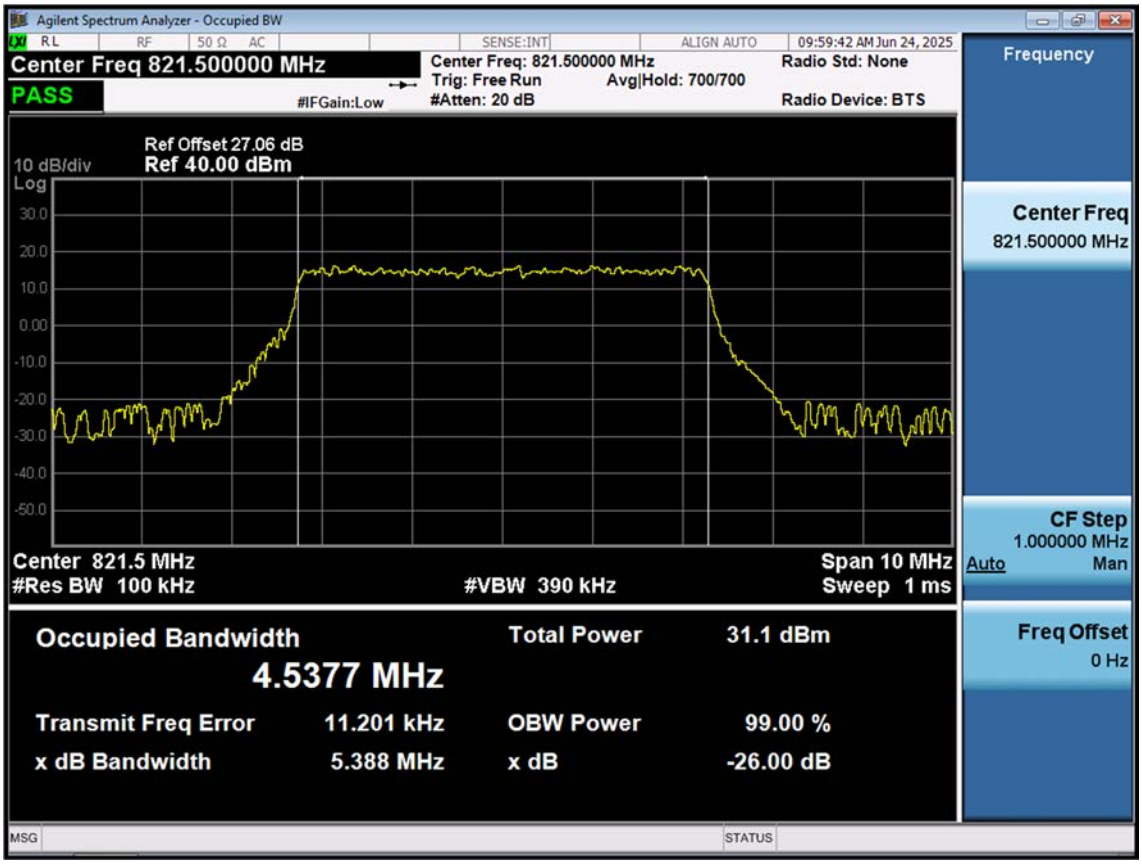
LTE B26_5 M_OBW_Mid_64QAM_FullRB



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

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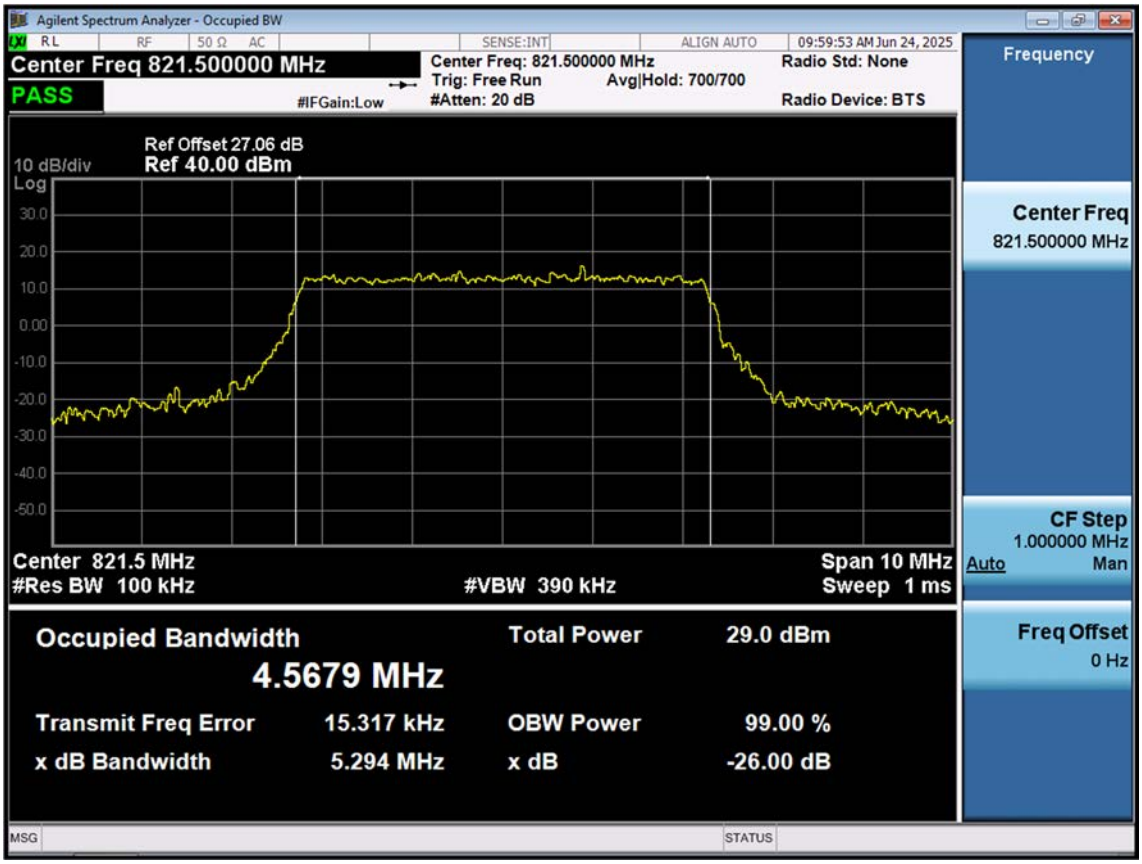

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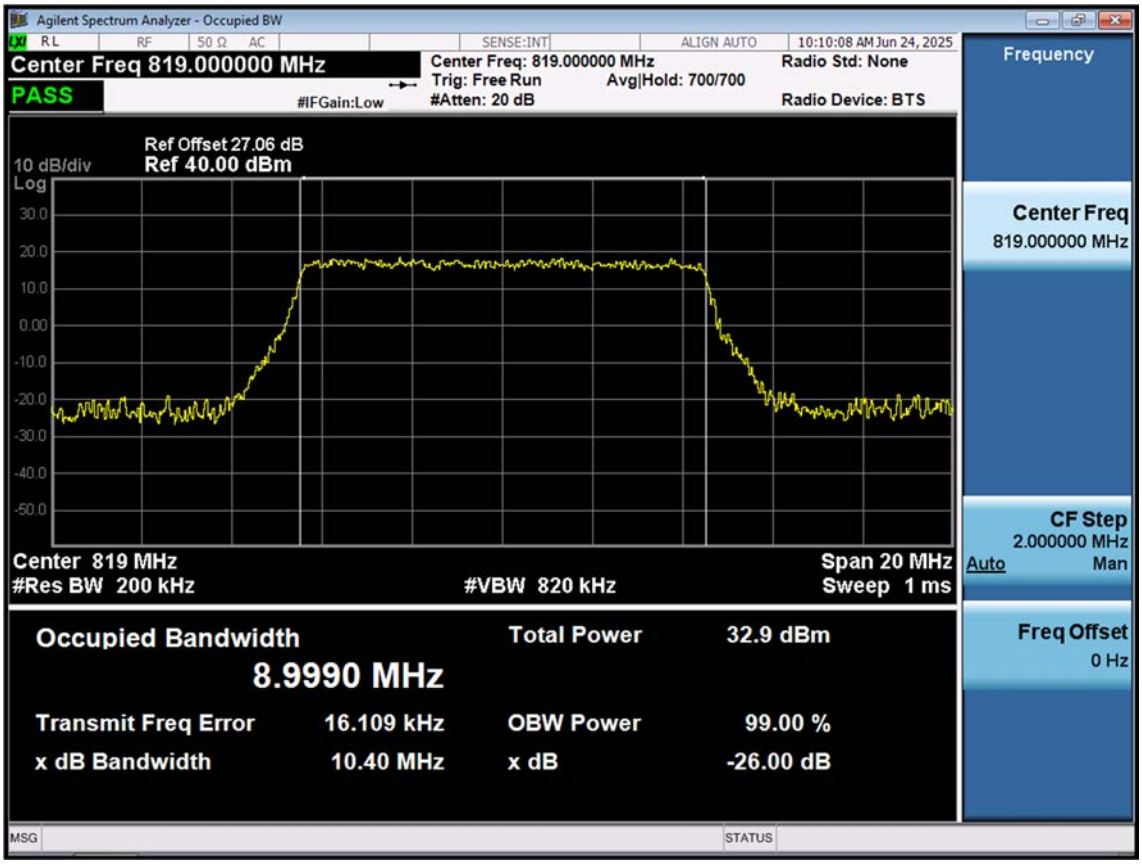
LTE B26_10 M_OBW_Mid_QPSK_FullRB



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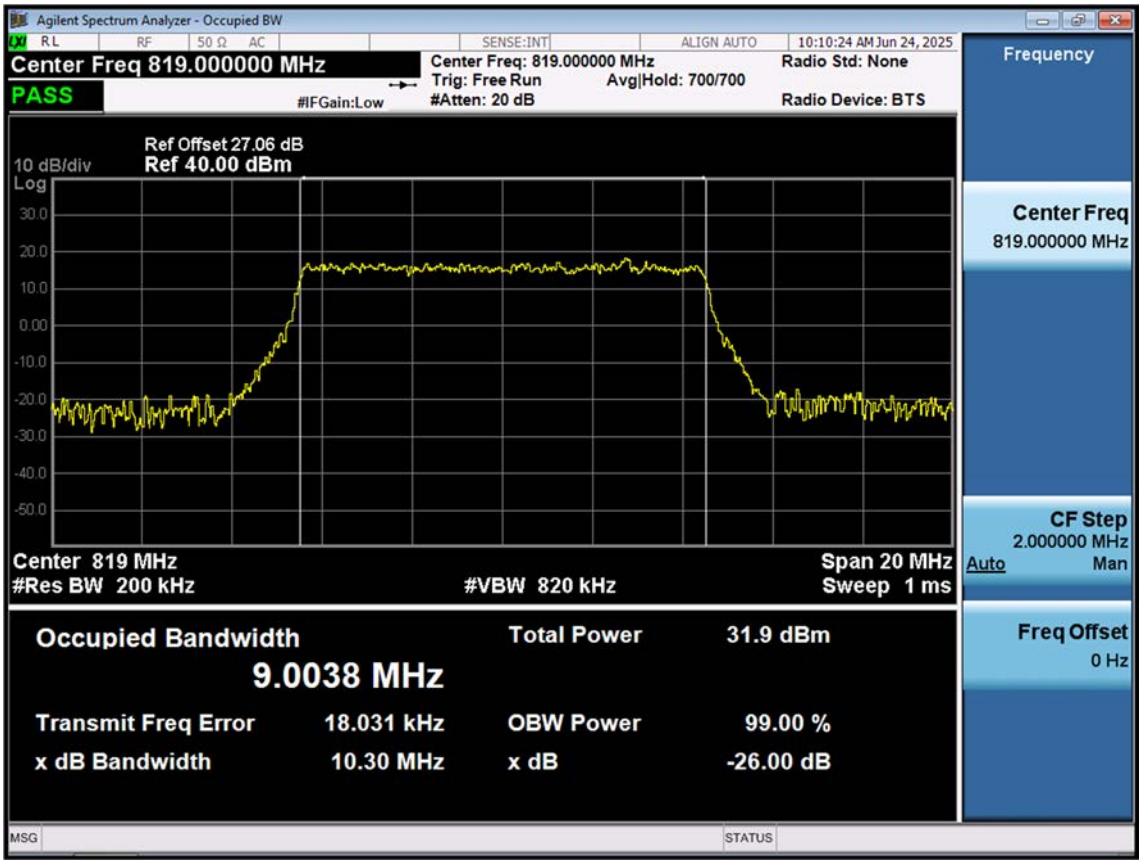
LTE B26_10 M_OBW_Mid_16QAM_FullRB



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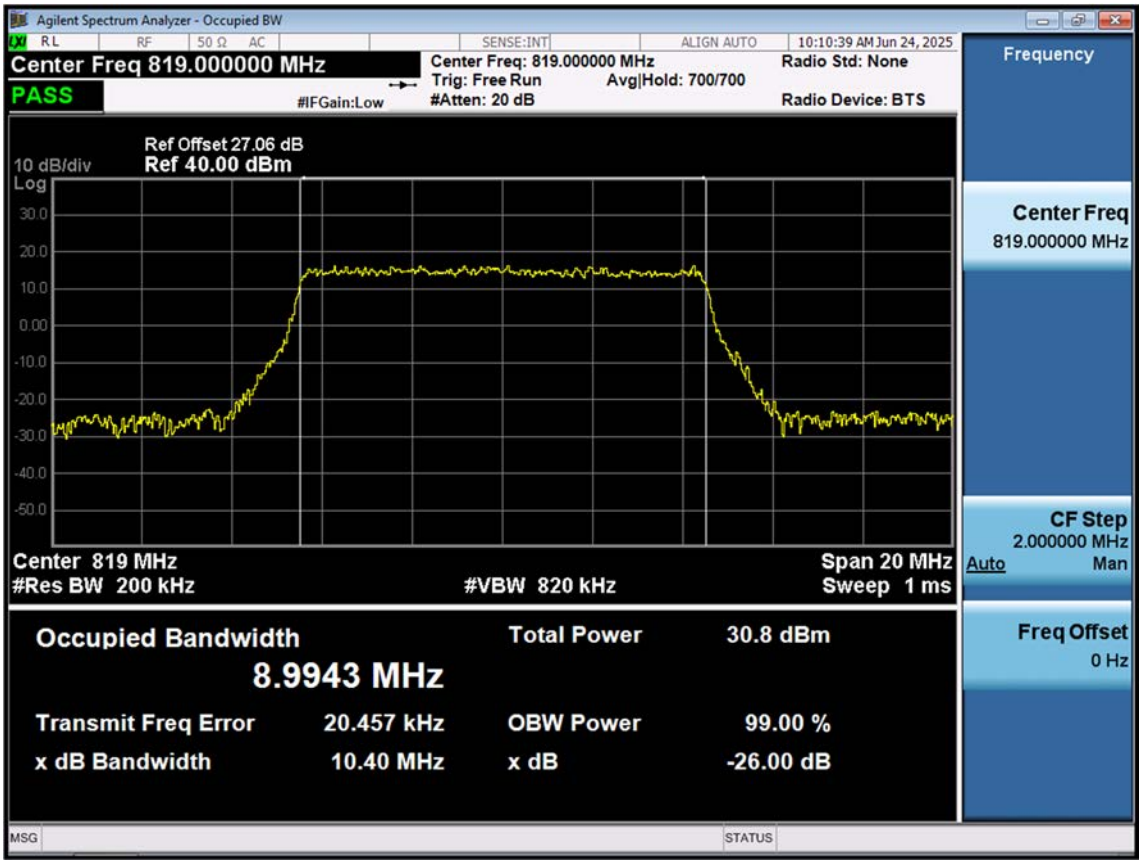
LTE B26_10 M_OBW_Mid_64QAM_FullRB



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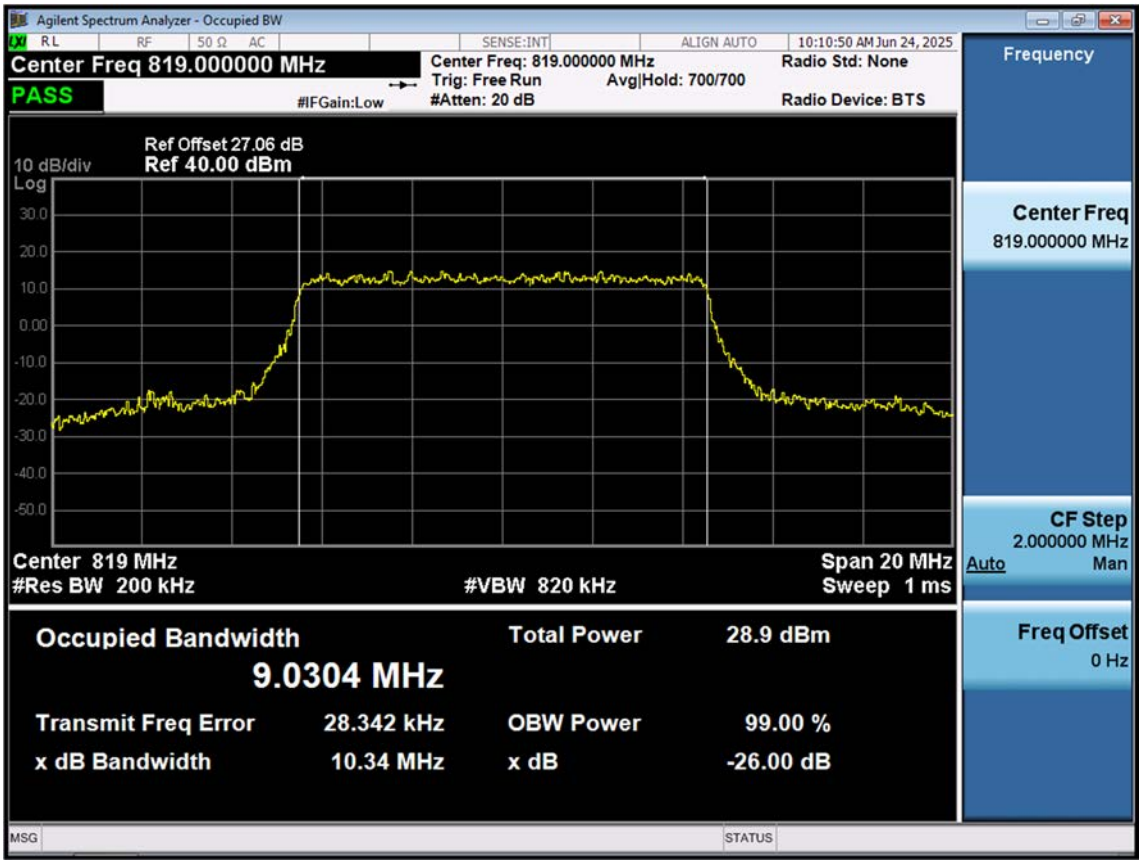
LTE B26_10 M_OBW_Mid_256QAM_FullRB



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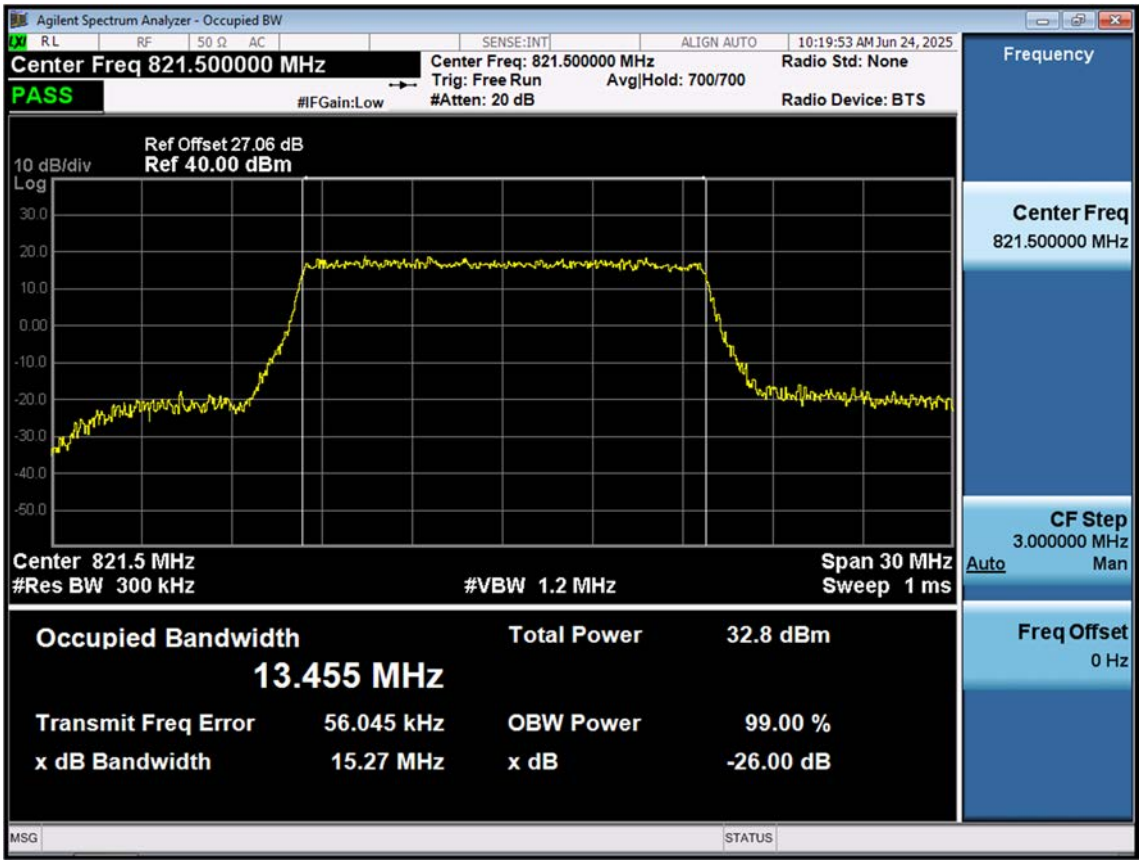
LTE B26_15 M_OBW_Mid_QPSK_FullRB



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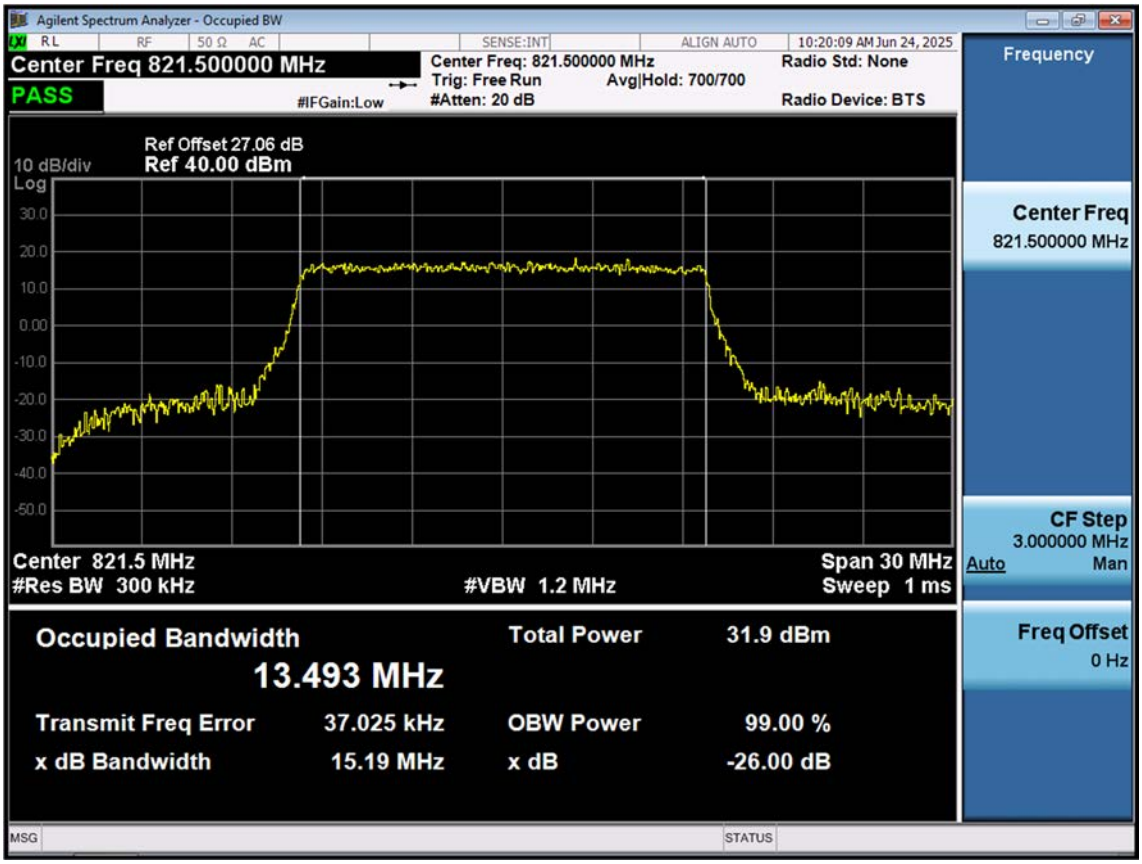
LTE B26_15 M_OBW_Mid_16QAM_FullRB



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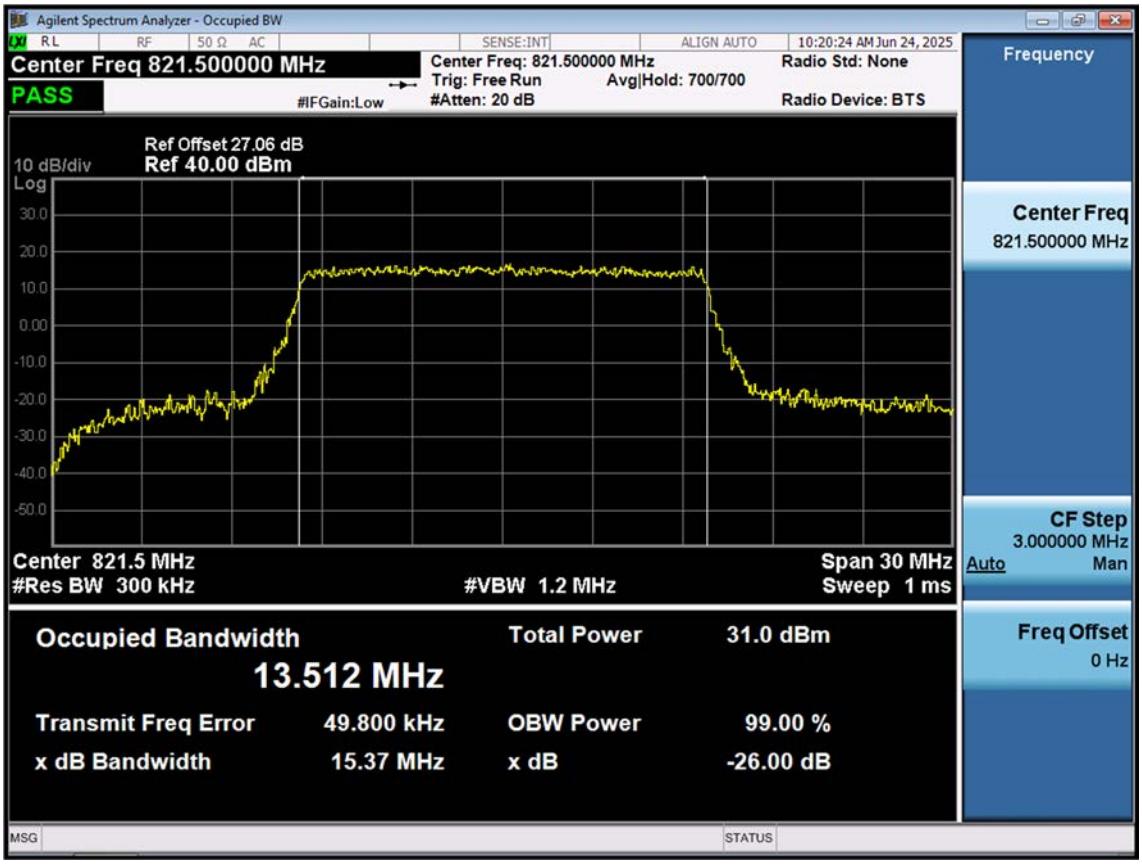
LTE B26_15 M_OBW_Mid_64QAM_FullRB



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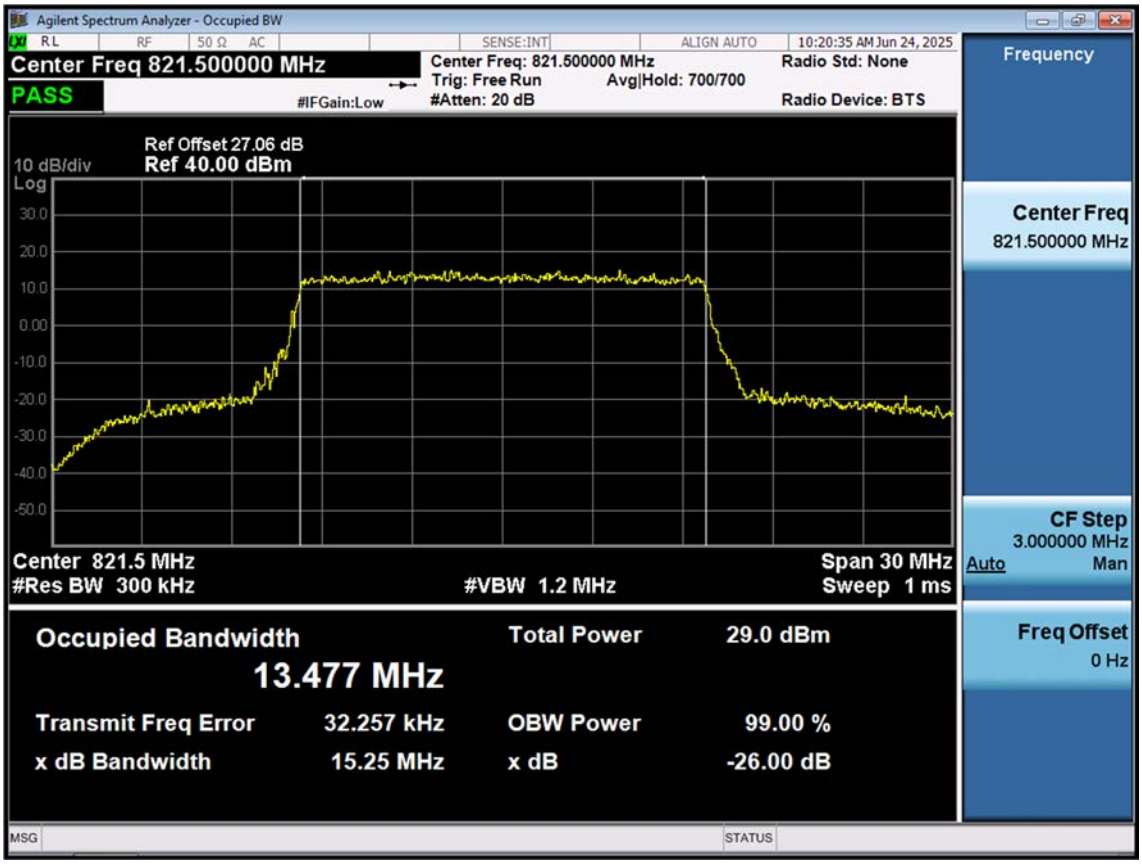
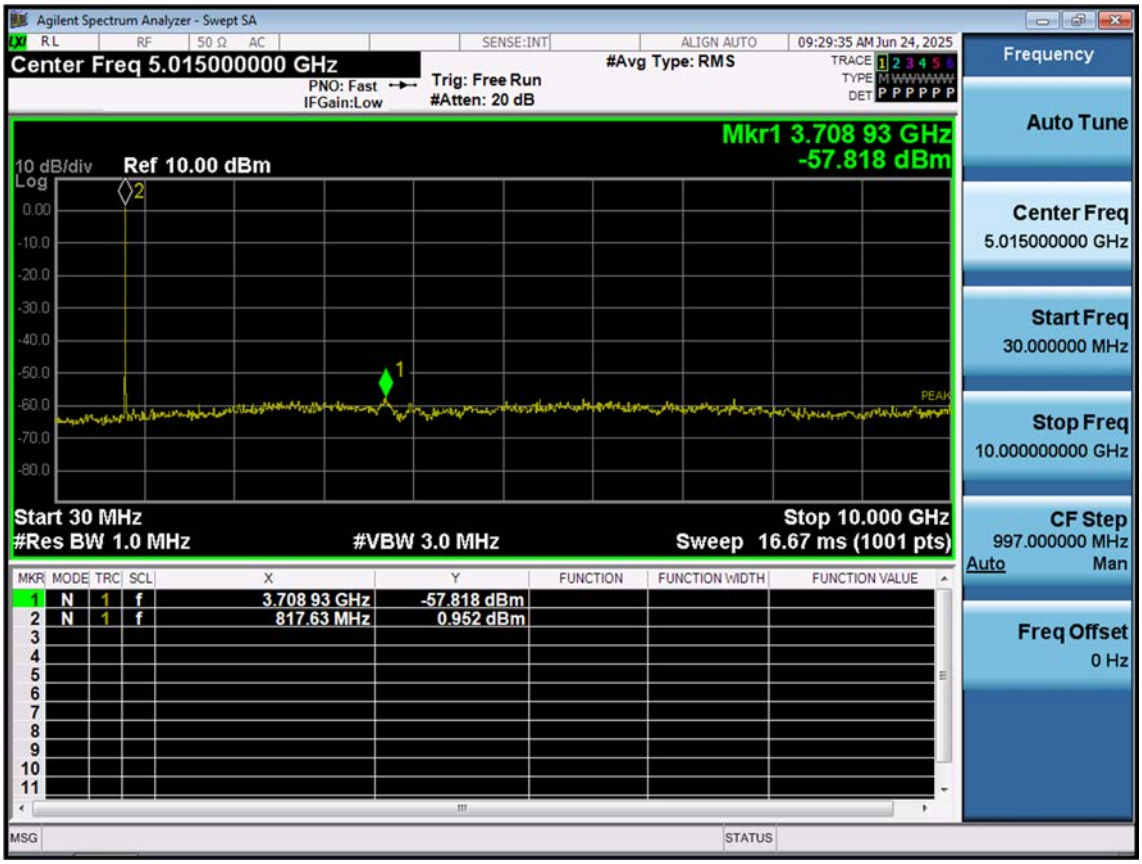
LTE B26_15 M_OBW_Mid_256QAM_FullRB



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

LTE B26_1.4 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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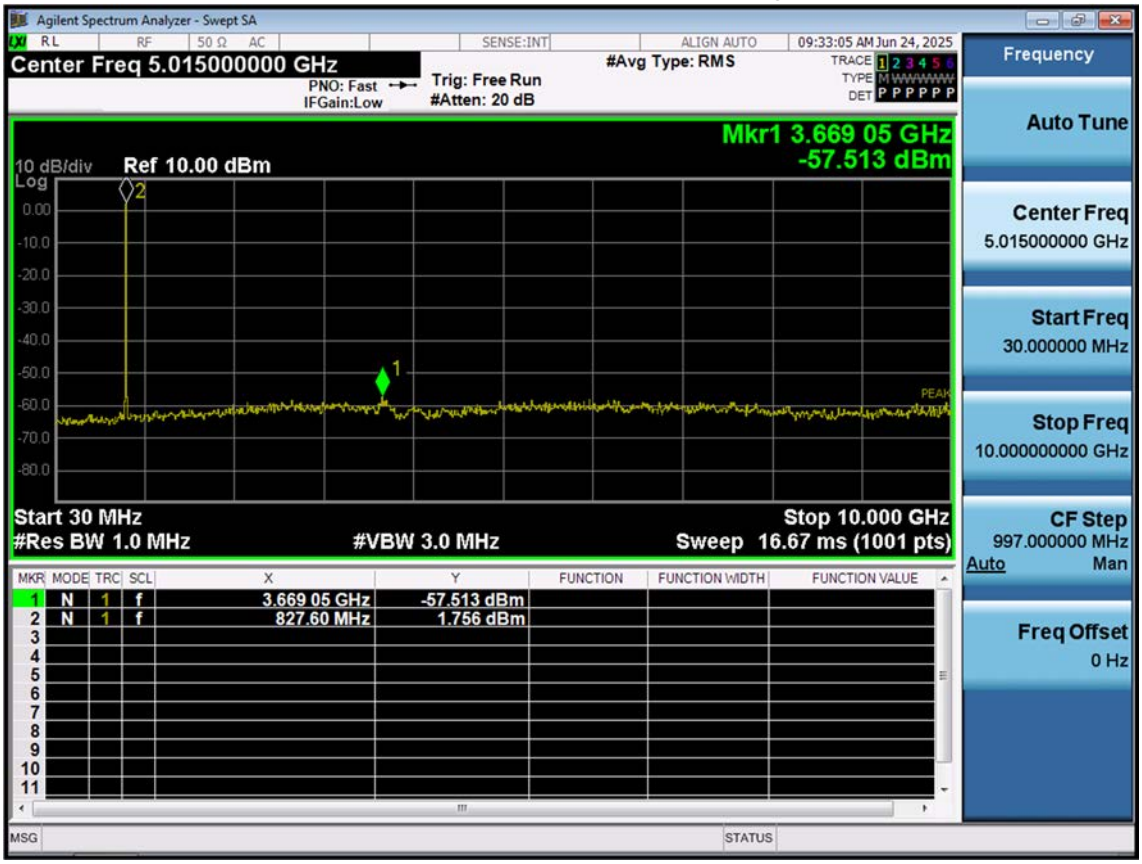
LTE B26_1.4 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



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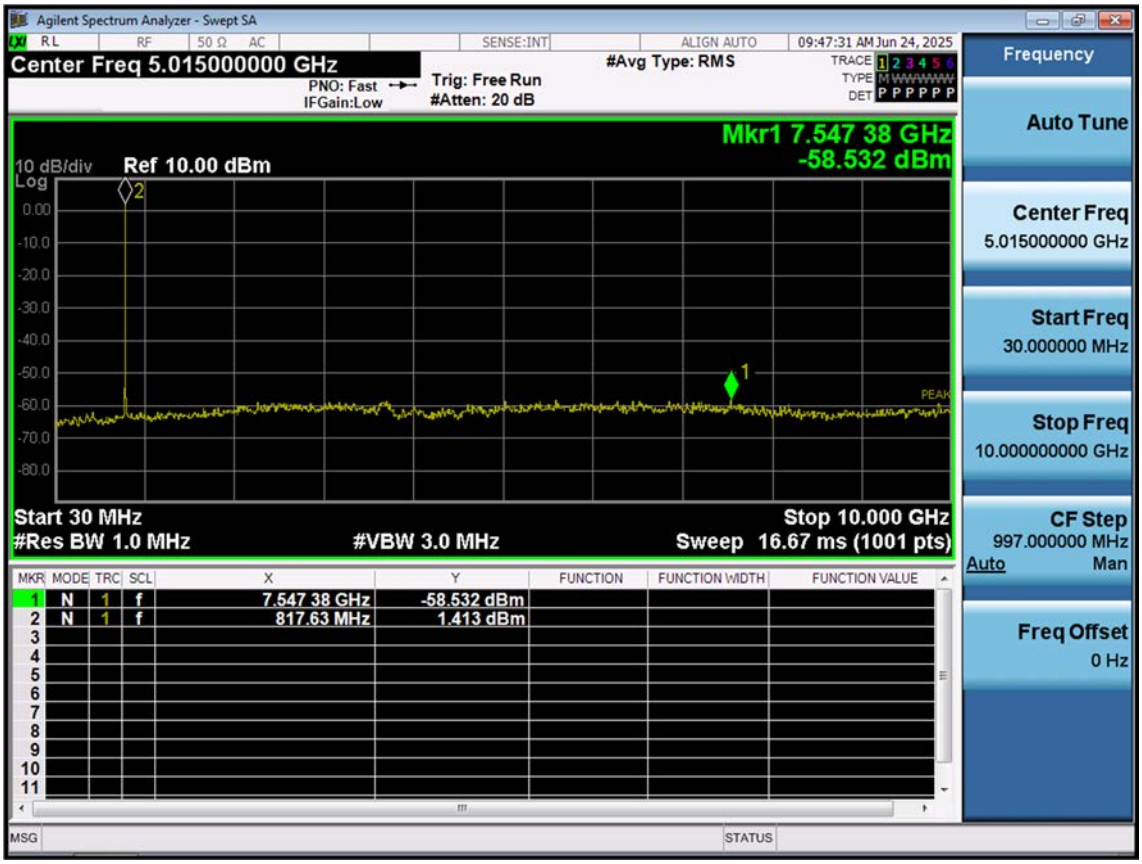
LTE B26_3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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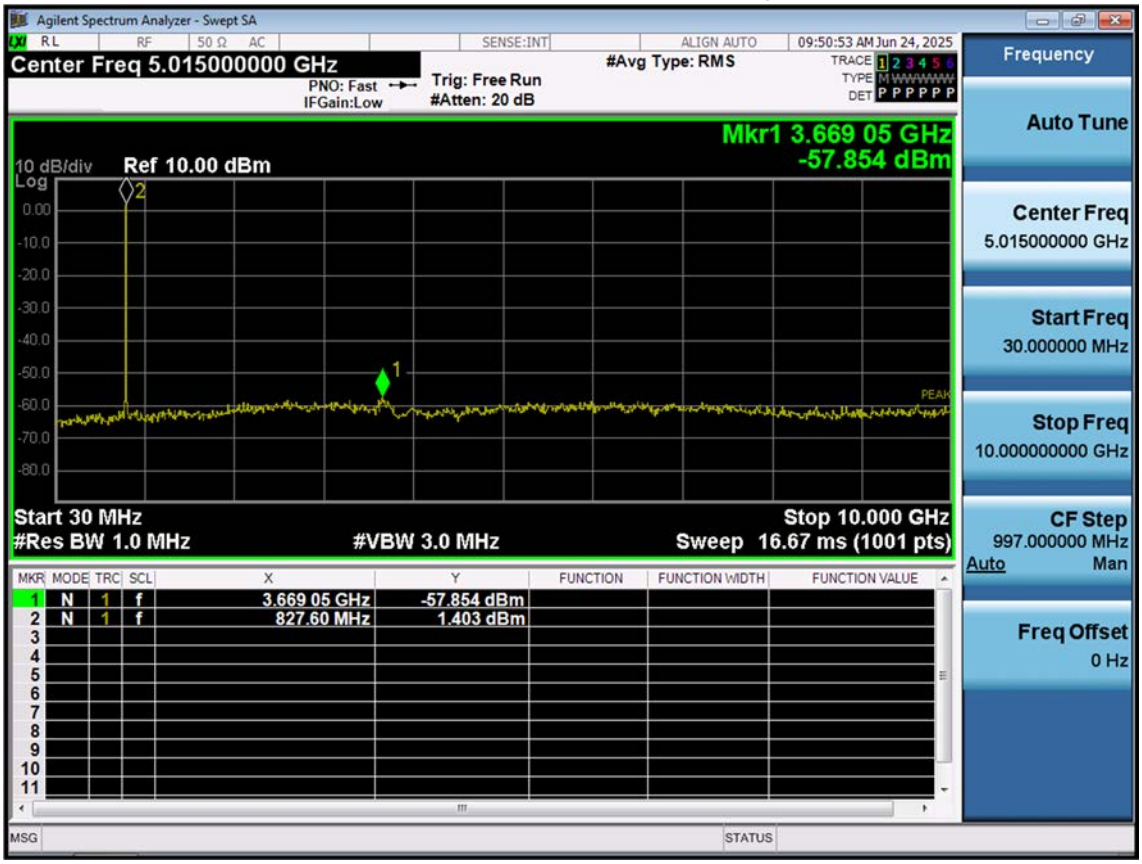
LTE B26_3 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



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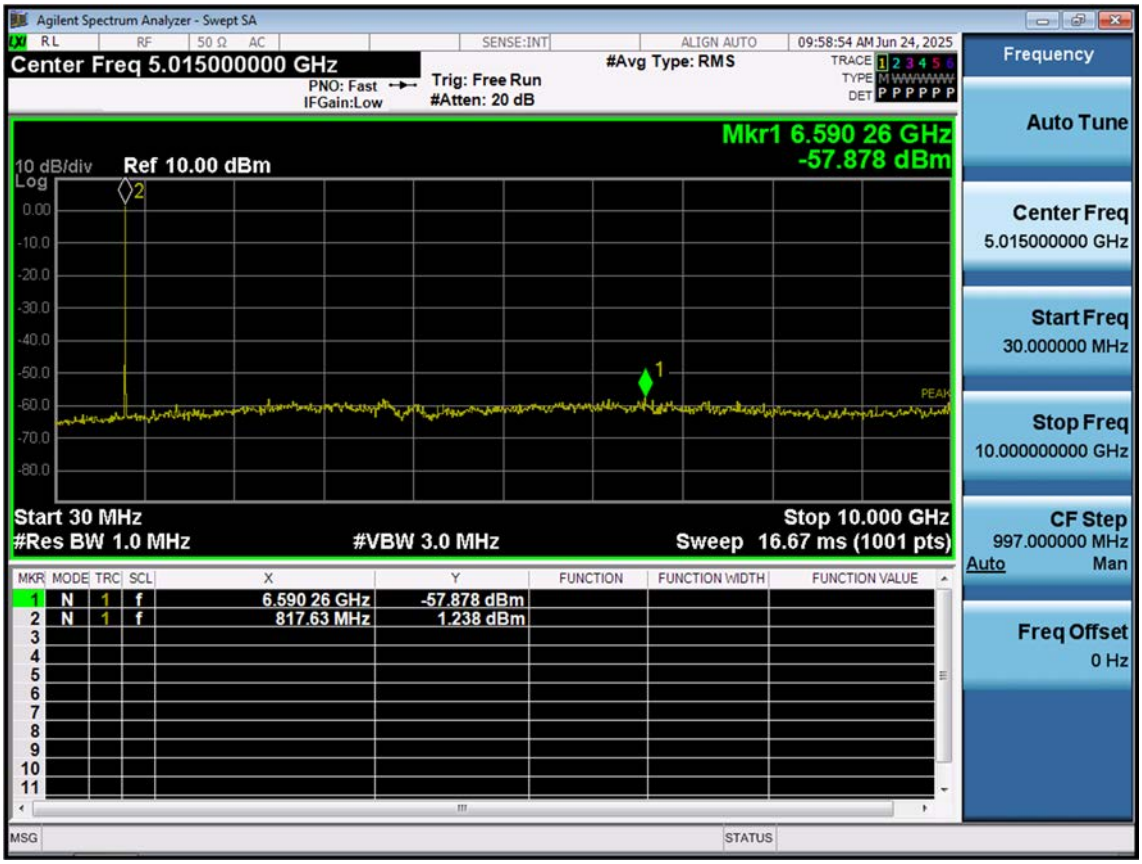
LTE B26_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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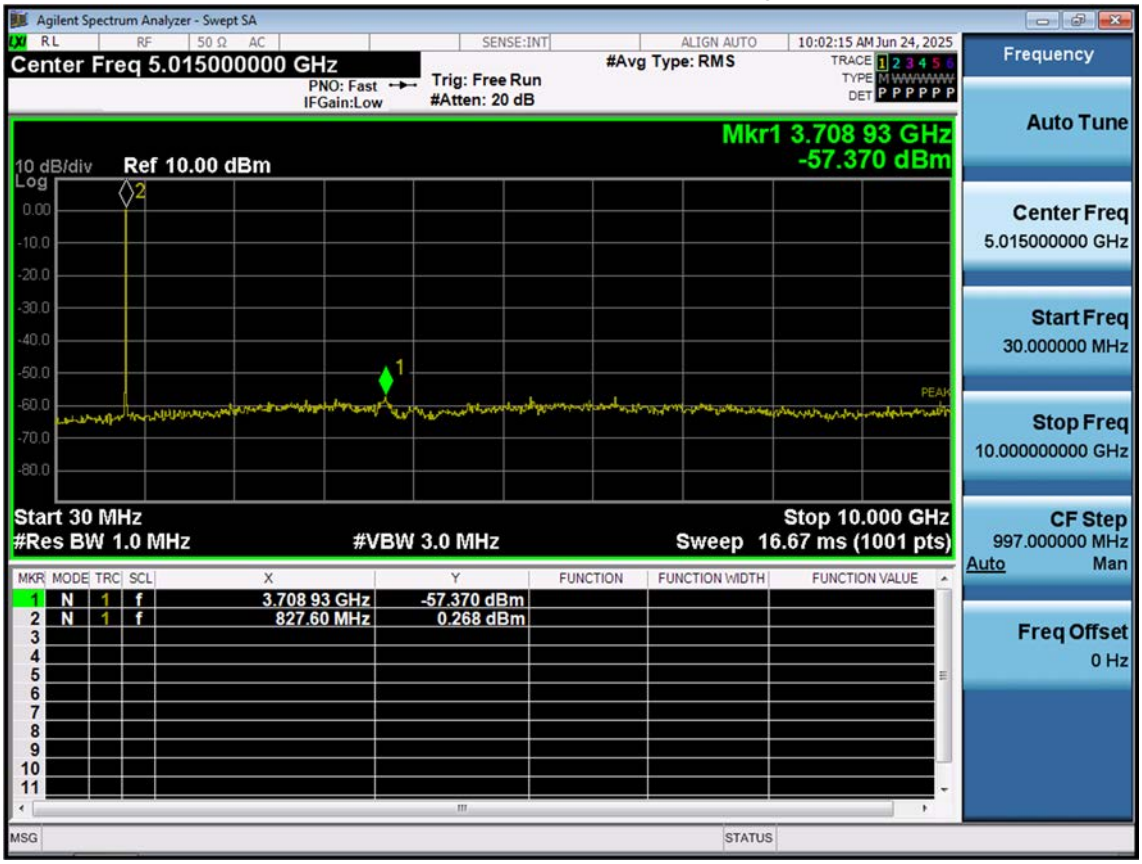
LTE B26_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



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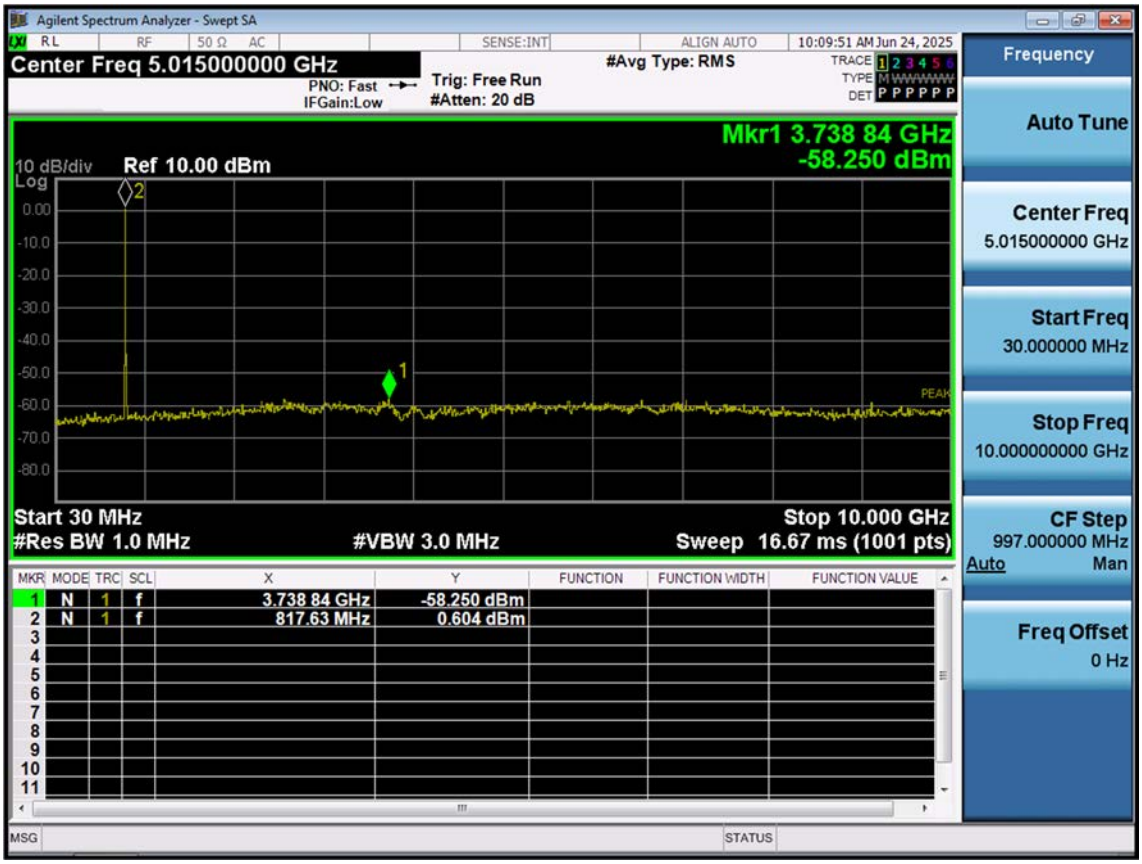
LTE B26_10 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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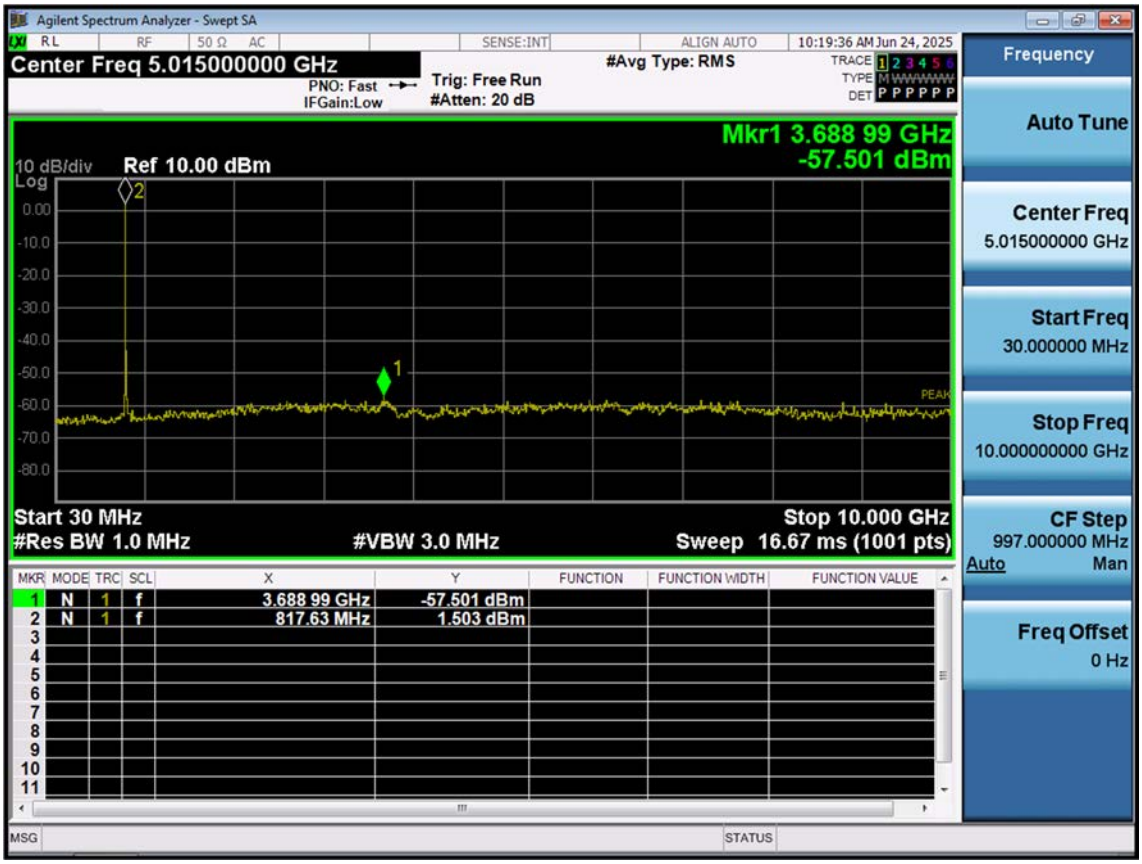
LTE B26_15 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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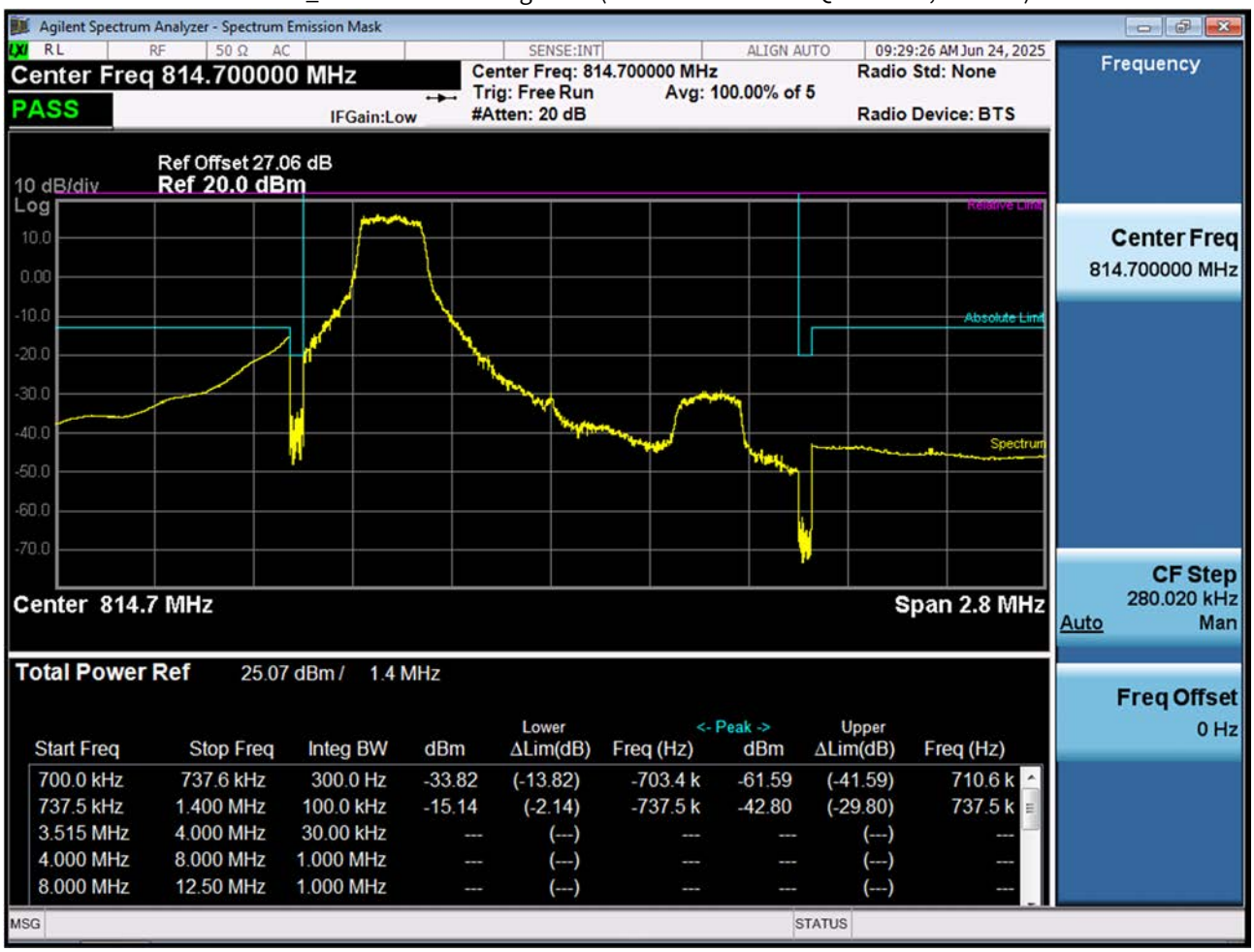
LTE B26_ Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK RB 1, Offset 0)



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LTE B26_ Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK_RB6_Offset 0)

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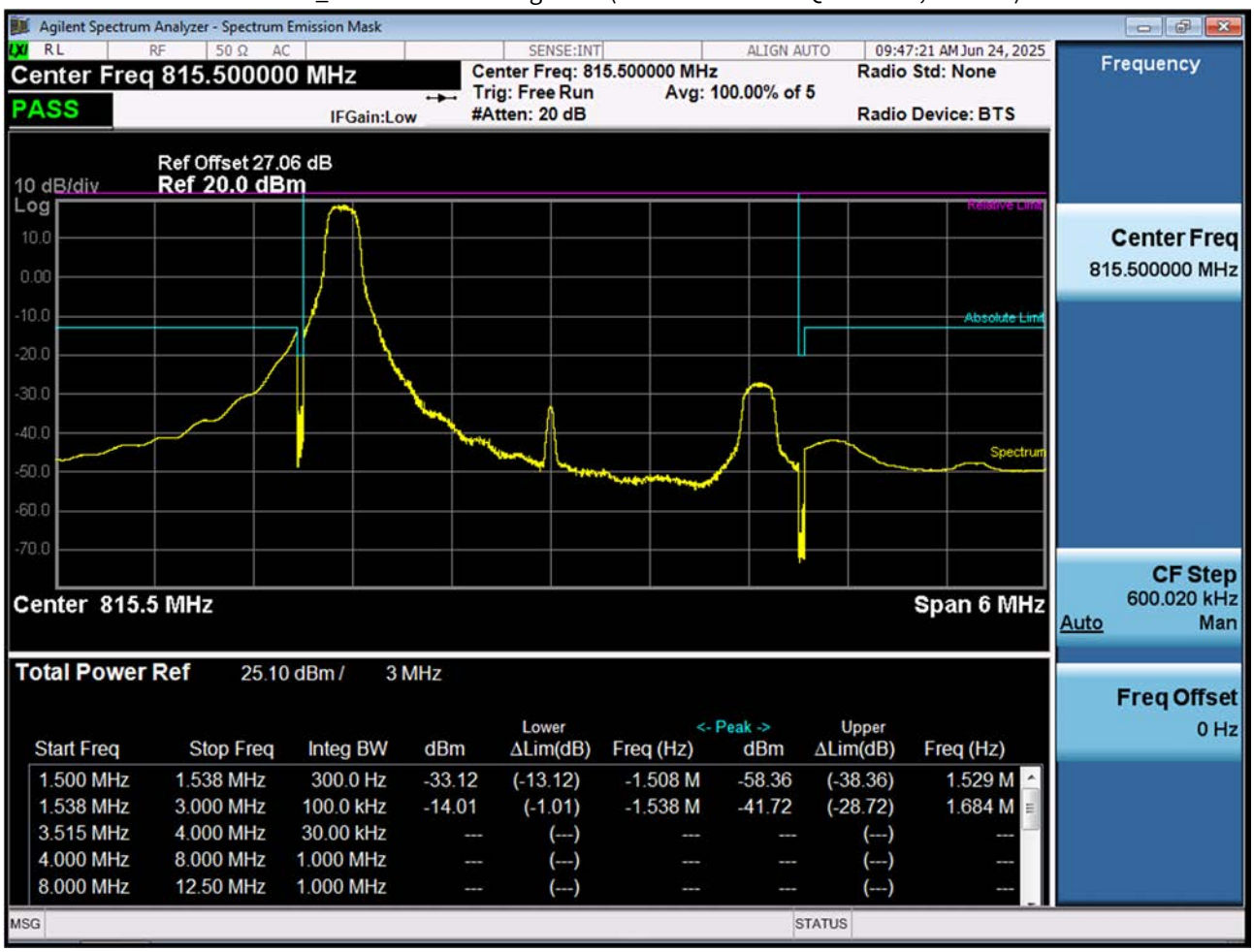
LTE B26_ Lower Channel Edge Plot (3 M BW Ch.26705 QPSK RB 1, Offset 0)



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

LTE B26_ 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	-35.80	(-15.80)	-1.503 M	-37.55	(-17.55)	1.500 M
1.538 MHz	3.000 MHz	100.0 kHz	-19.29	(-6.29)	-1.538 M	-19.69	(-6.69)	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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LTE B26_ Lower Channel Edge Plot (5 M BW Ch.26715 QPSK RB 1, Offset 0)

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LTE B26_ Lower Channel Edge Plot (5 M BW Ch.26715 QPSK_RB25_Offset 0)

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LTE B26_ Low Channel Edge Plot (10 M BW Ch.26740 QPSK RB 1, Offset 0)

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LTE B26_ Low Channel Edge Plot (10 M BW Ch.26740 QPSK_RB50_Offset 0)

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
5.000 MHz	5.038 MHz	300.0 Hz	-47.98	(-27.98)	-5.027 M	-48.88	(-28.88)	5.015 M
5.038 MHz	10.00 MHz	100.0 kHz	-28.24	(-15.24)	-5.038 M	-28.16	(-15.16)	5.038 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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LTE B26_ Mid Channel Edge Plot (10 M BW Ch. 26740 QPSK_RB1_Offset 49)

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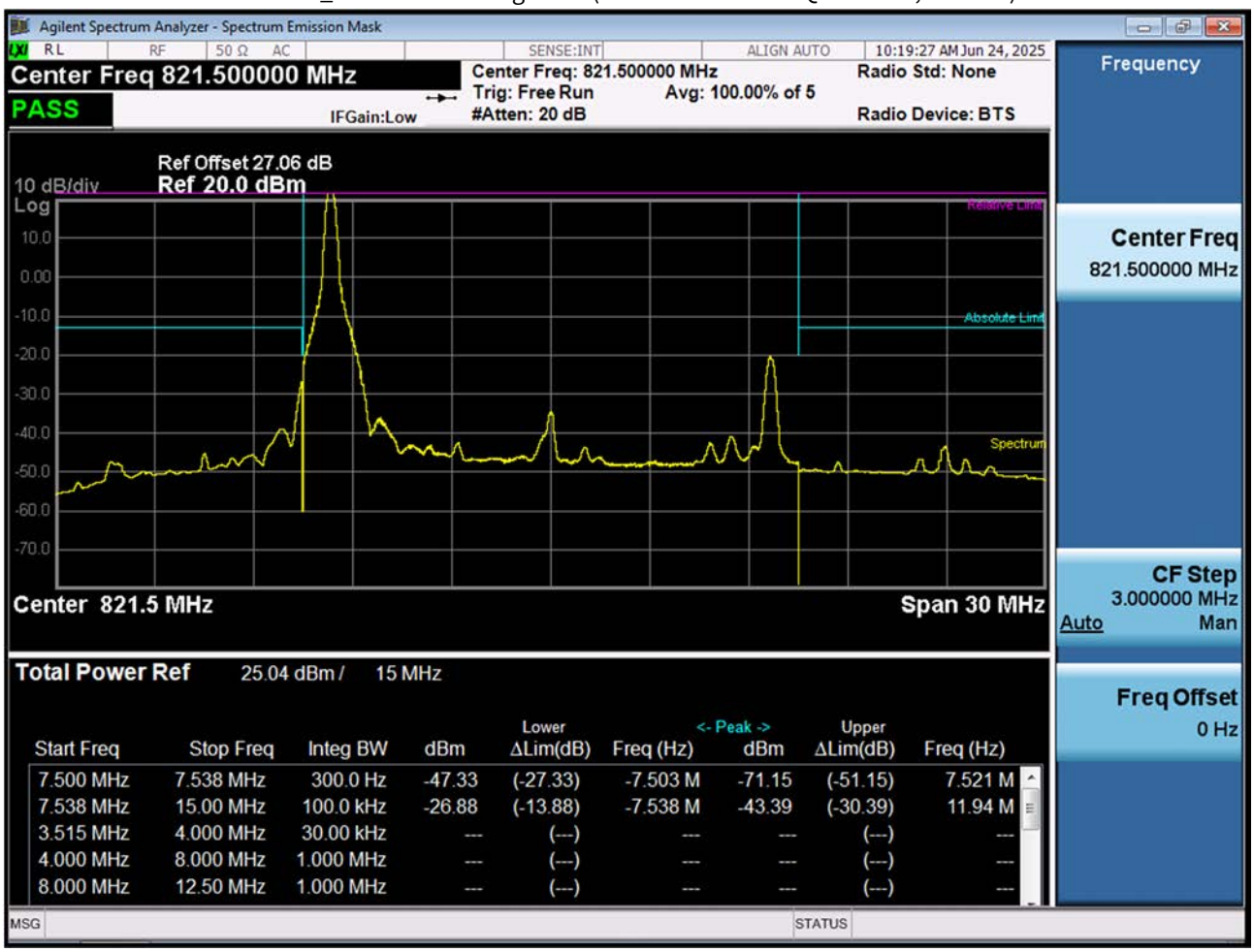
LTE B26_ Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset 0)



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LTE B26_ Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 75, Offset0)

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LTE B26_ Mid Channel Edge Plot (15 M BW Ch.26765 QPSK_RB1_Offset 74)

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LTE B26_ Mid Band Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset74)

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LTE B26_ Mid Band Edge Plot (15 M BW Ch.26765 QPSK_RB75_Offset 0)

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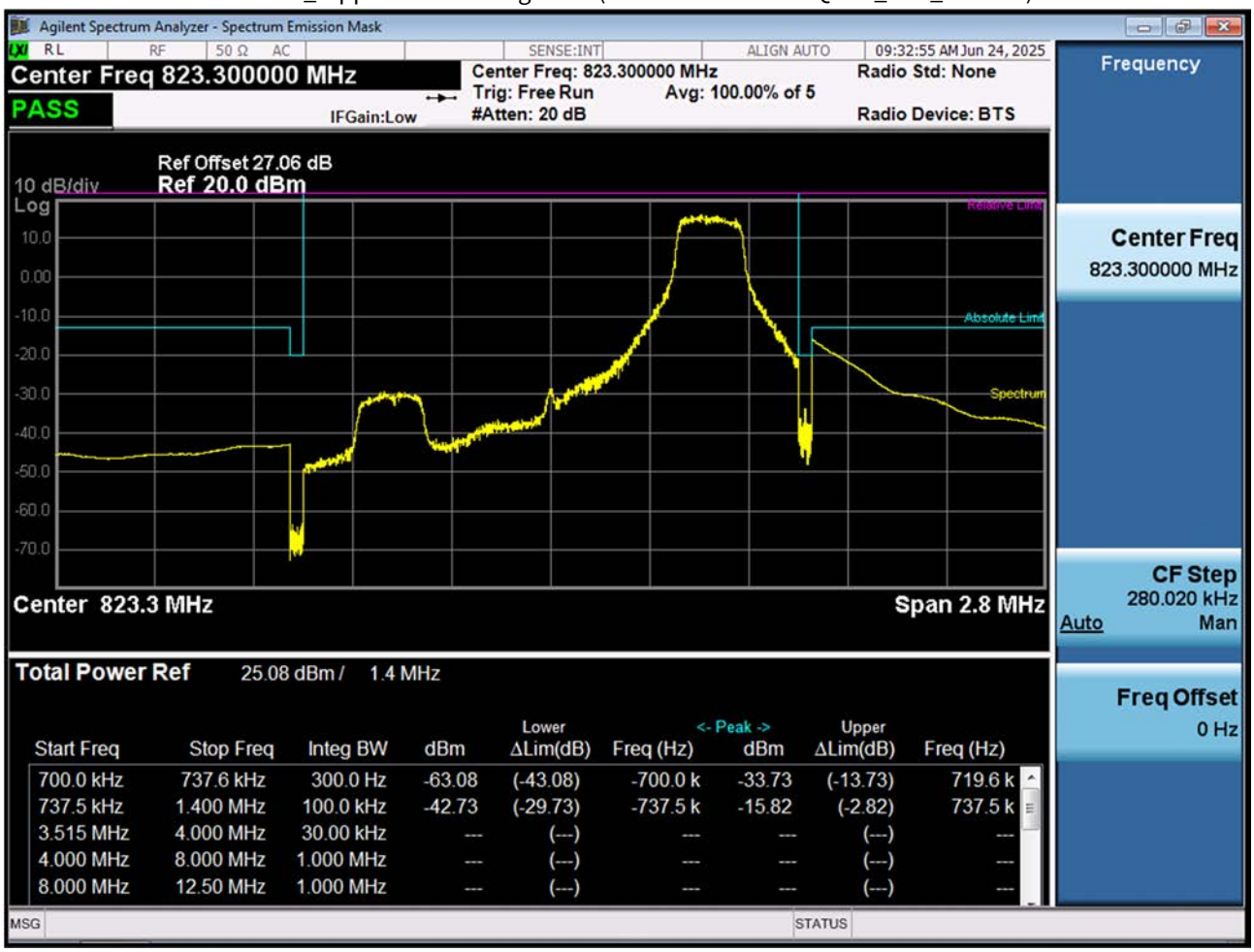
LTE B26_ Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB1_Offset 5)



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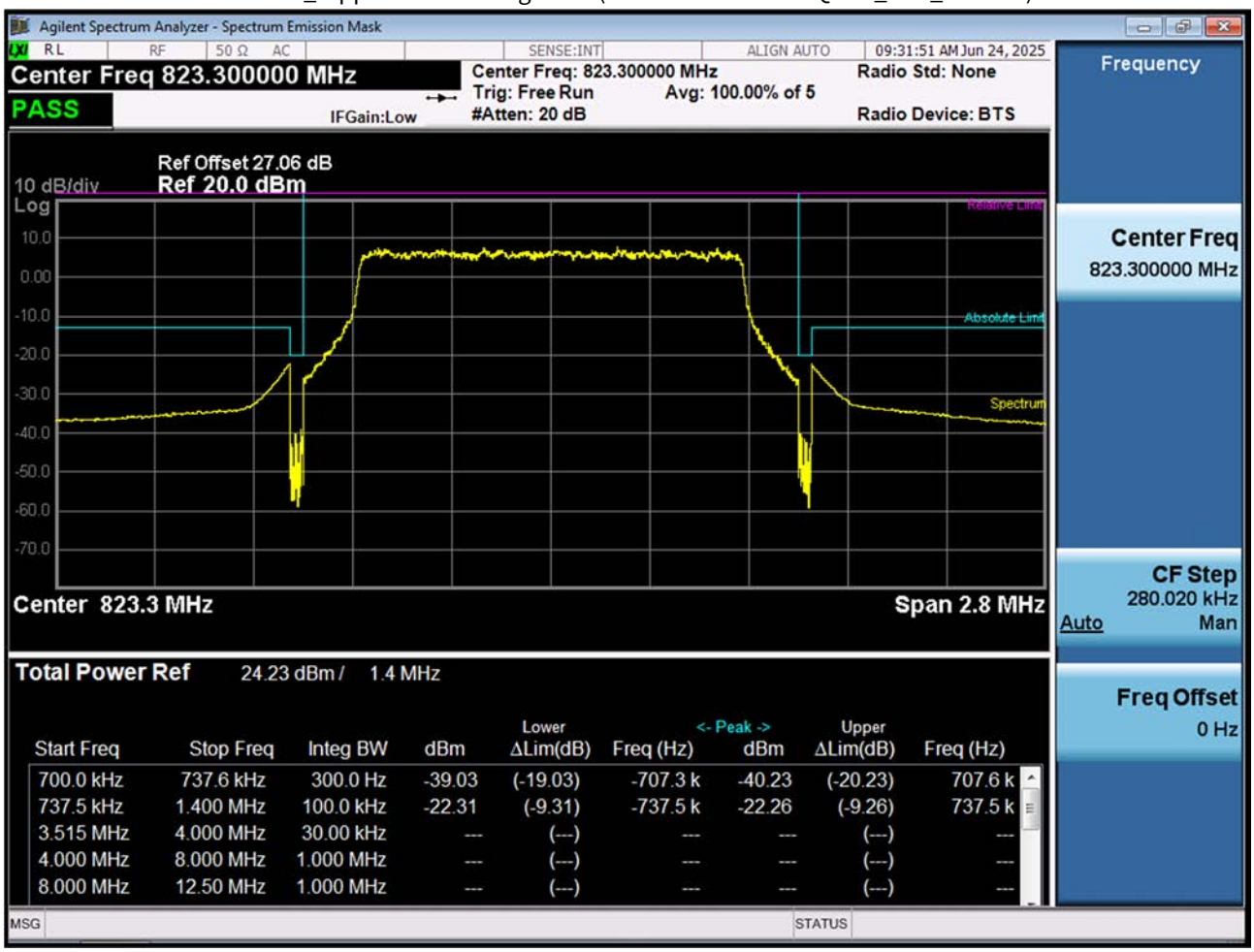
LTE B26_ Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB6_Offset 0)



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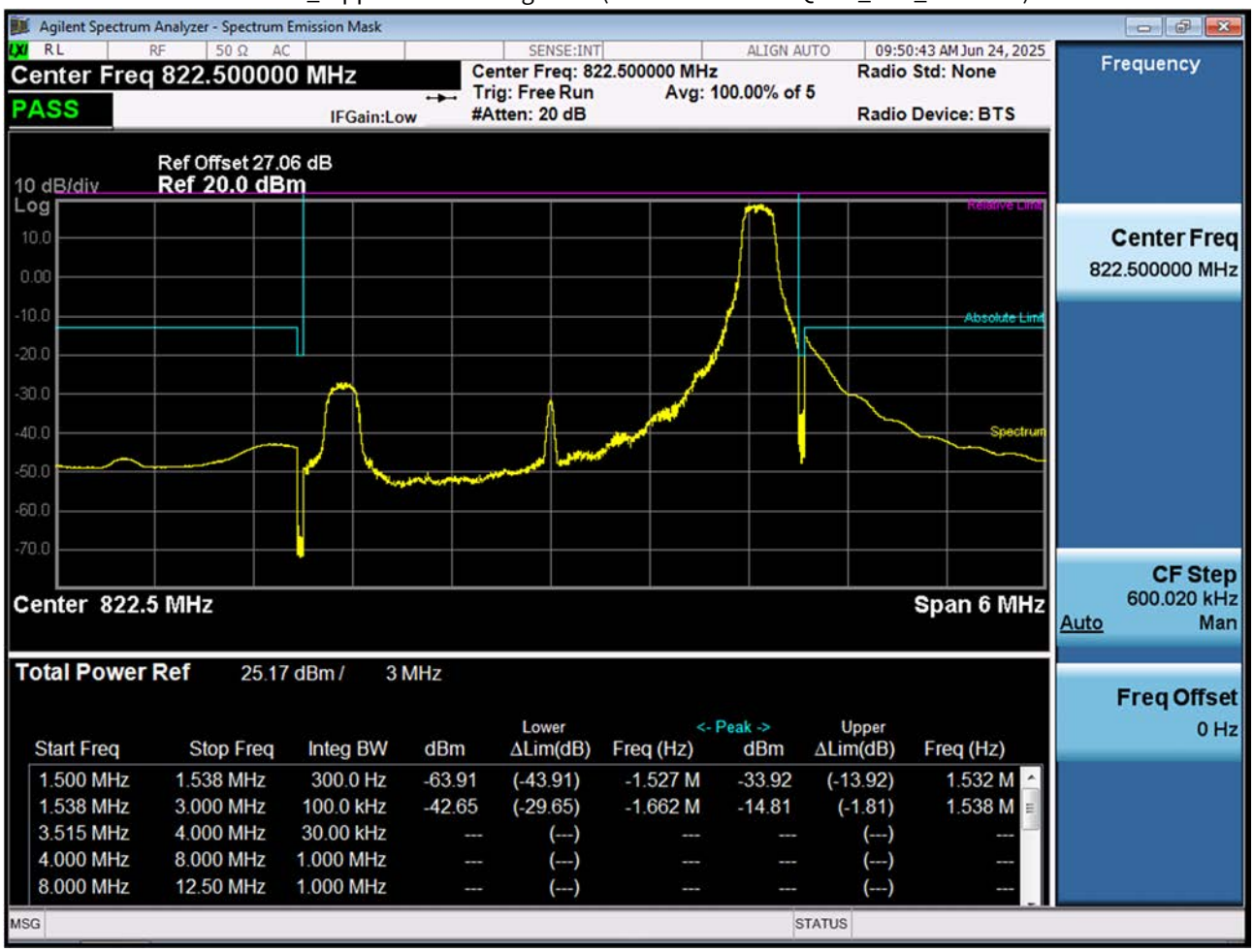
LTE B26_ Upper Channel Edge Plot (3 M BW Ch.26775 QPSK_RB1_Offset 14)



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LTE B26_ Upper Channel Edge Plot (3 M BW Ch.26775 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	-37.10	(-17.10)	-1.503 M	-37.80	(-17.80)	1.500 M
1.538 MHz	3.000 MHz	100.0 kHz	-19.69	(-6.69)	-1.538 M	-20.29	(-7.29)	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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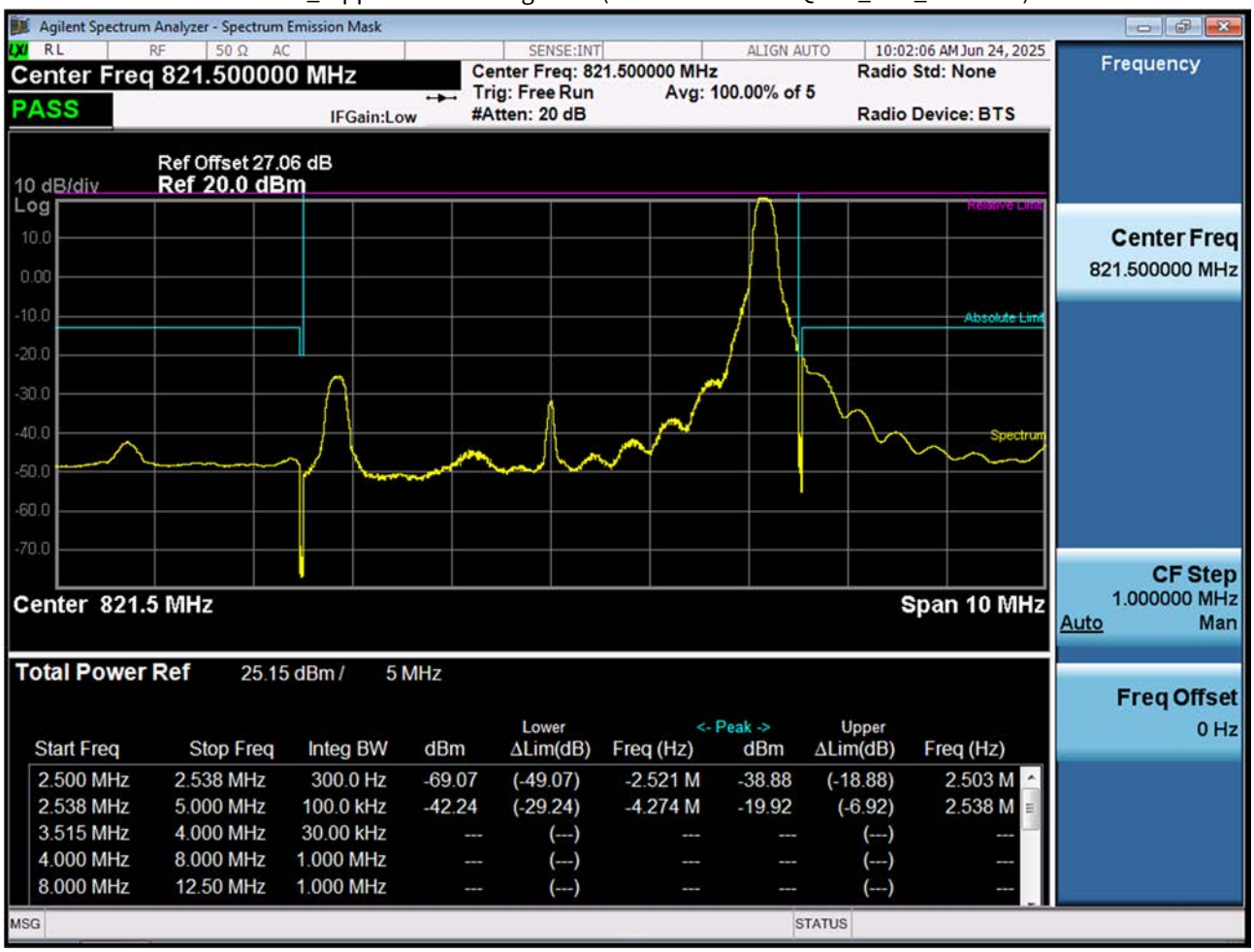
LTE B26_ Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB1_Offset 24)



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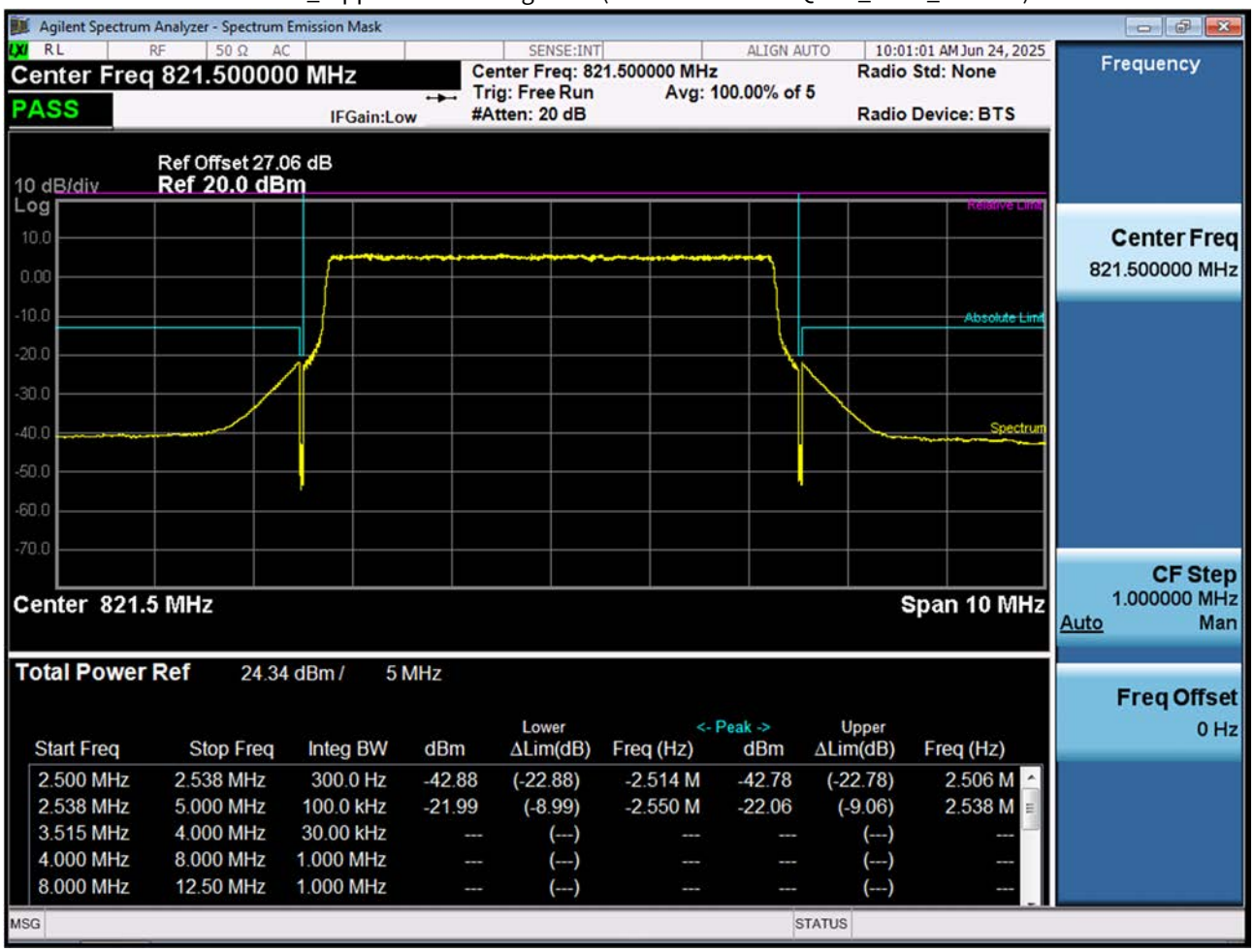
LTE B26_ Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB25_Offset 0)



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11. TEST PLOTS (STRADDLE CHANNEL)

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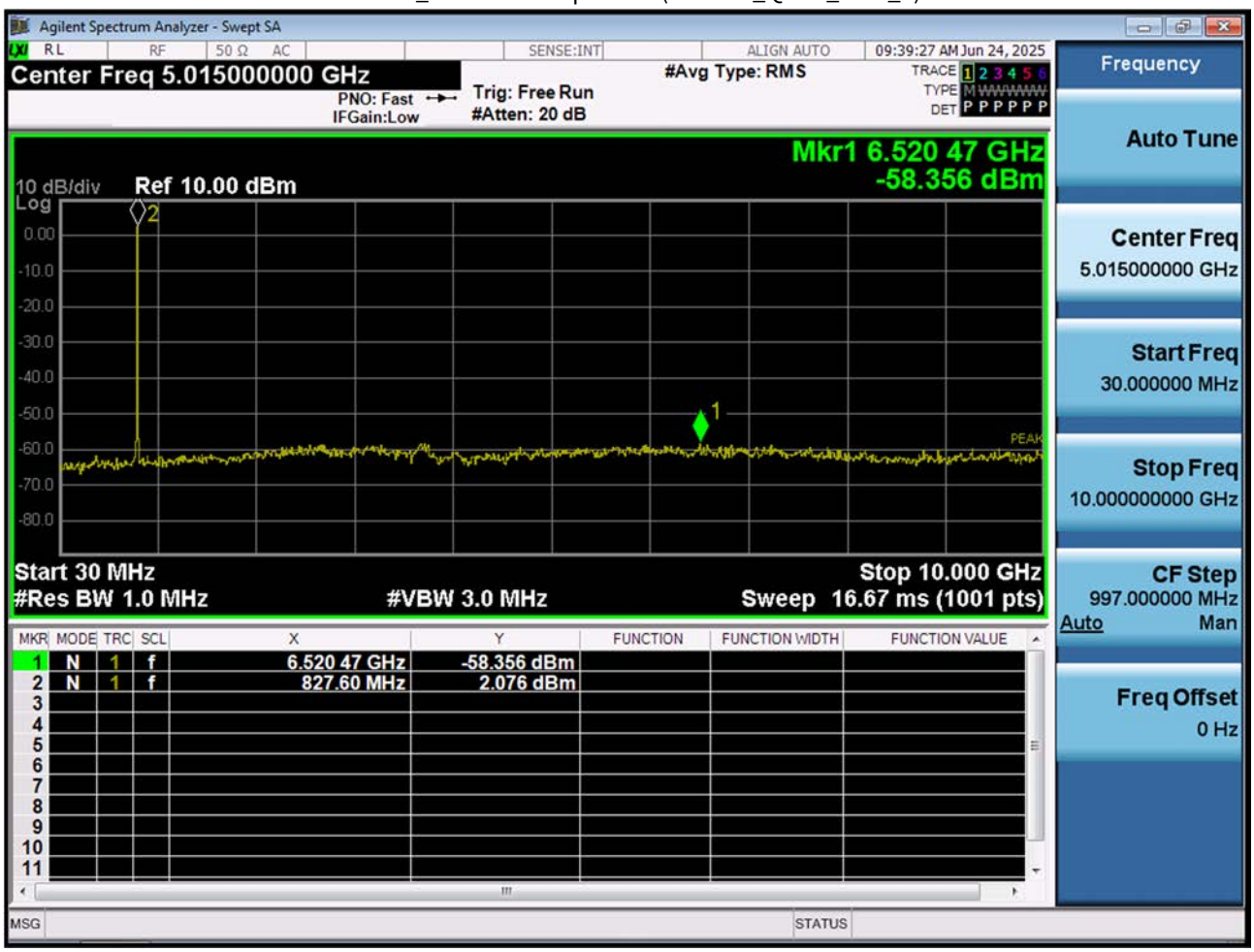
LTE B26_ Conducted Spurious (1.4 MHz_QPSK_RB 1_0)



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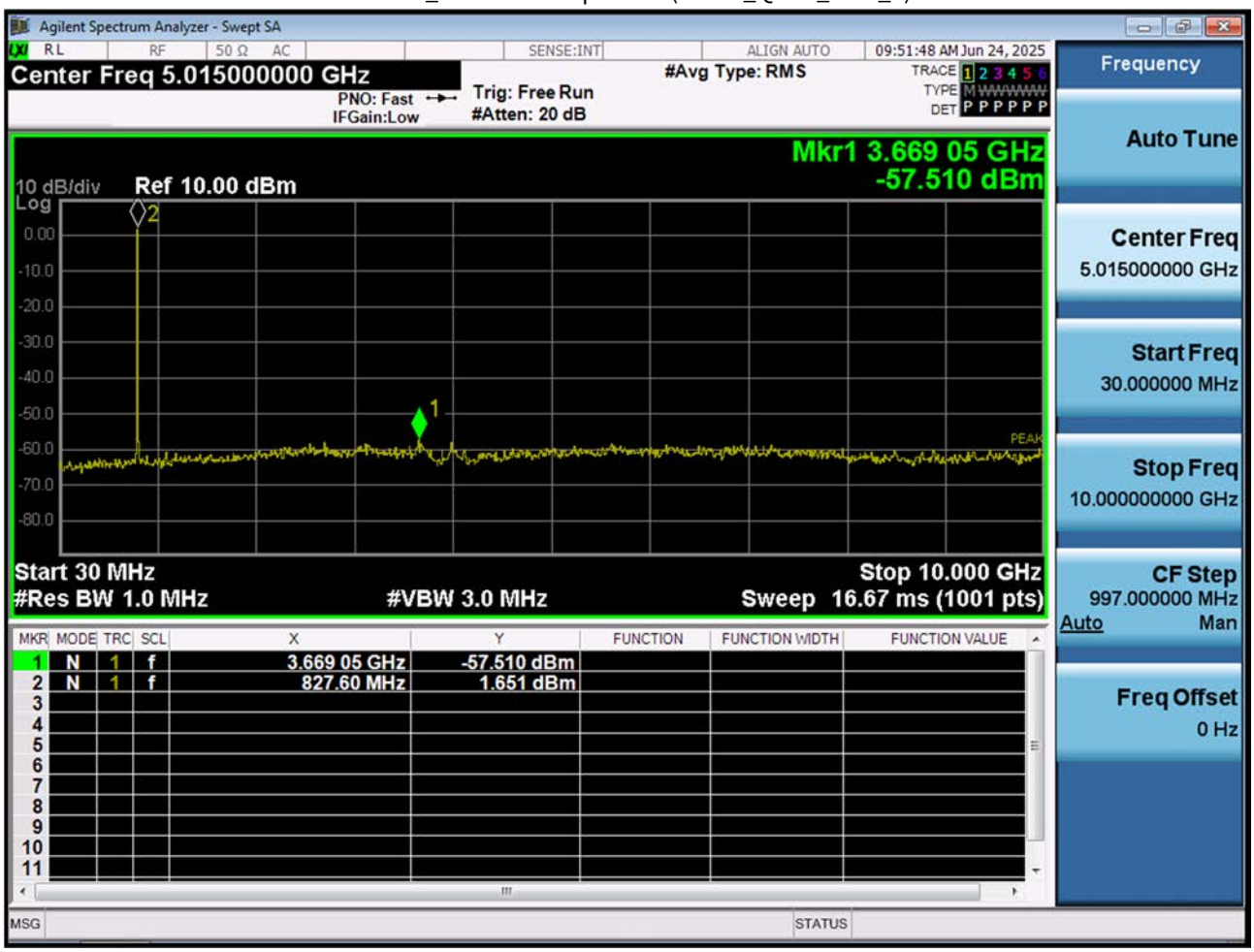
LTE B26_ Conducted Spurious (3 MHz_QPSK_RB 1_0)



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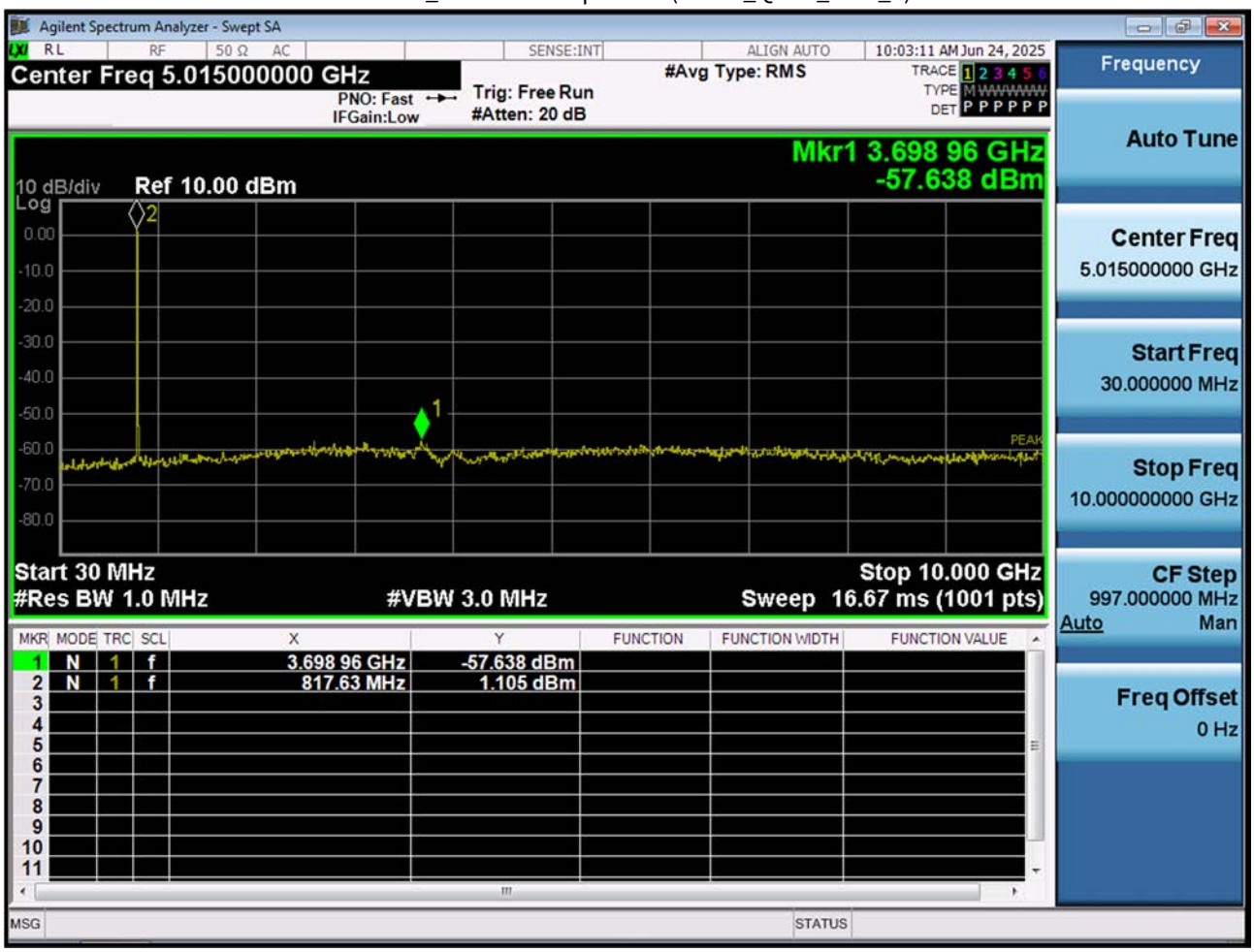
LTE B26_ Conducted Spurious (5 MHz_QPSK_RB 1_0)



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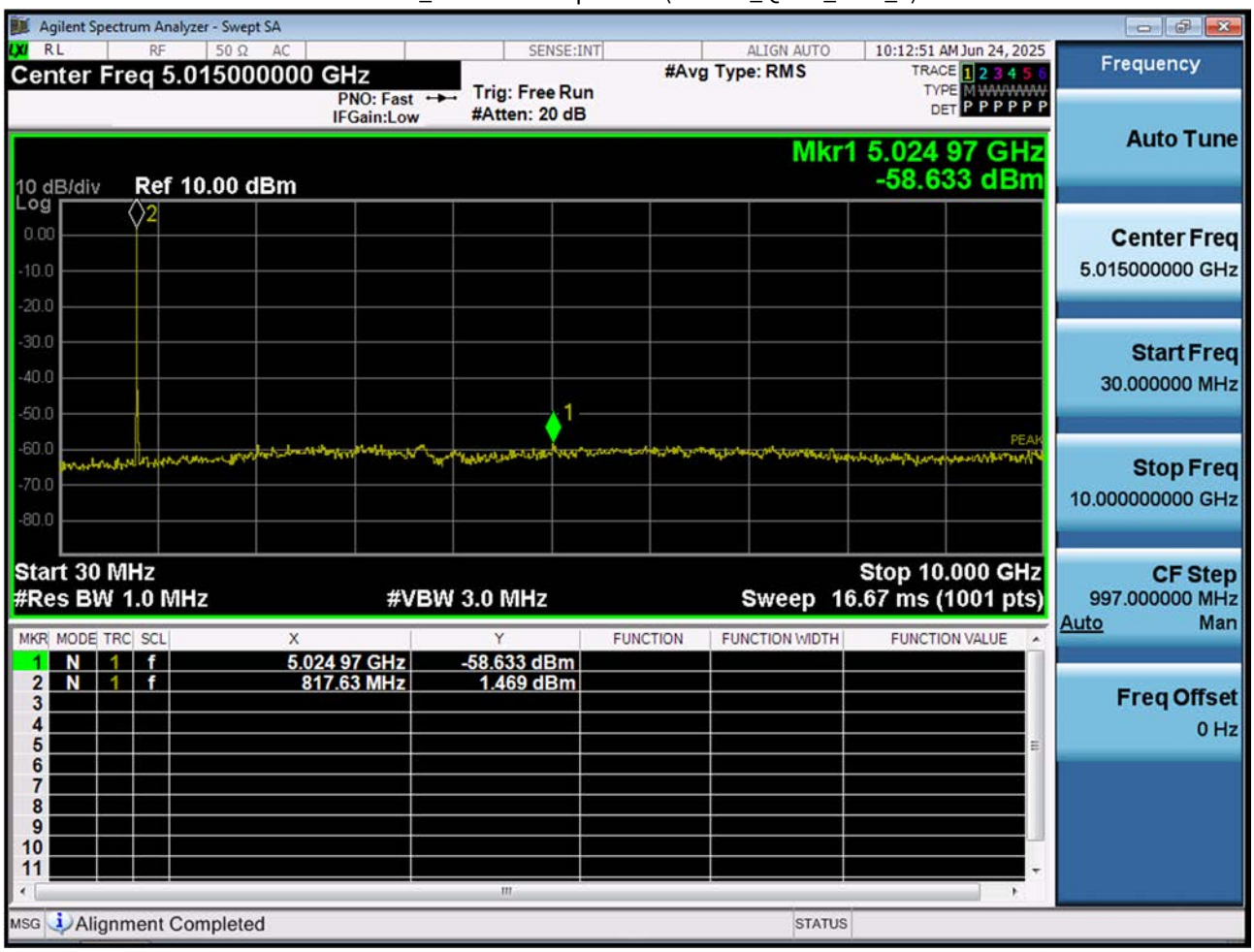
LTE B26_ Conducted Spurious (10 MHz_QPSK_RB 1_0)



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