TEST REPORT

FCC LTE B26(Part90) Test for TM18FNROBM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2507-FC089

DATE OF ISSUE
July 22, 2025

Tested by
Jae Ryang Do

Technical Manager
Jong Seok Lee

Accredited by KOLAS, Republic of KOREA

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Applicant	LG Electronics Inc. 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM18FNROBM0
Date of Test	May 16, 2025 ~ July 22, 2025
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 ID	2BO3LTM18FNROBM0
FCC Classification:	PCS Licensed Transmitter (PCB)
Test Standard Used	FCC Rule Part: § 90, § 22
Test Results	PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	July 22, 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).

CONTENTS

MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	TM18FNROBM0
Voltage:	4.2V
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))
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #7 Conducted : BMW ICON-25SF Conducted #18
Antenna Information	Please refer to the Antenna Specification document.

1.1 SUPPORTED BANDS PER ANTENNA PORT

Antenna Port	Supported bands
MIMO 1	- GSM850, 1900 - WCDMA: B2, 4, 5 - LTE: B4, 7, 12(17), 25(2), 26(5), 41(38), 42 - NR: n7, 41, 77(78) - ULCA: 7C
MIMO 2	- LTE: B42 - NR: n77(78)
MIMO 3	Only RX
MIMO 4	Only RX
Int. BUA (Back Up Antenna)	- GSM850, 1900 - WCDMA: B2, 4, 5 - LTE: B4, 7, 25(2), 26(5), 41(38) - NR: n7, 41 - ULCA: 7C

Note:

1. Since the Int. BUA uses the same antenna port as MIMO1, only radiated testing was performed.

1.2 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	0.252	24.01
		1M09W7D	16QAM	0.221	23.45
		1M09W7D	64QAM	0.164	22.16
		1M09W7D	256QAM	0.081	19.06
LTE – Band26 (3)	815.5 – 824.0	2M70G7D	QPSK	0.245	23.89
		2M69W7D	16QAM	0.215	23.32
		2M70W7D	64QAM	0.162	22.10
		2M70W7D	256QAM	0.082	19.13
LTE – Band26 (5)	816.5 – 824.0	4M50G7D	QPSK	0.249	23.97
		4M48W7D	16QAM	0.216	23.34
		4M49W7D	64QAM	0.163	22.13
		4M50W7D	256QAM	0.080	19.05
LTE – Band26 (10)	819.0 – 824.0	8M96G7D	QPSK	0.249	23.97
		8M96W7D	16QAM	0.211	23.25
		8M97W7D	64QAM	0.161	22.06
		8M97W7D	256QAM	0.079	18.99
LTE – Band26 (15)	821.5	13M4G7D	QPSK	0.243	23.85
		13M4W7D	16QAM	0.212	23.26
		13M5W7D	64QAM	0.161	22.08
		13M4W7D	256QAM	0.079	18.95

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).

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
Channel 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
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

3.2 CONDUCTED OUTPUT POWER

Test Overview

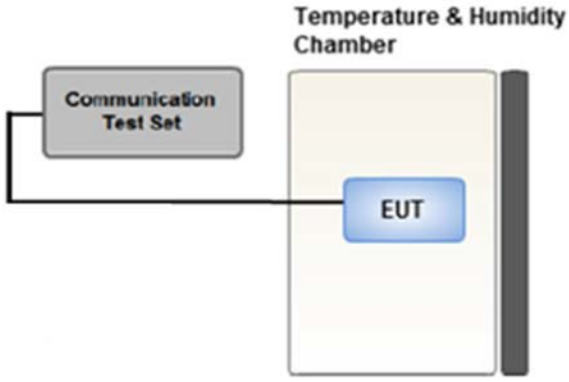
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base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



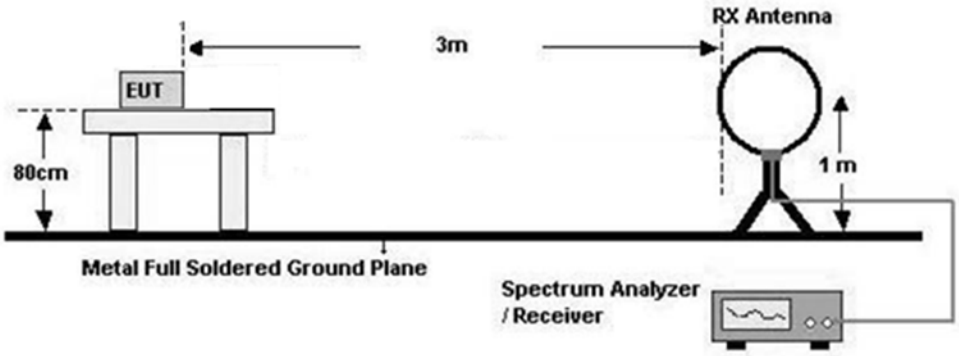
3.3 RADIATED POWER

Test Overview

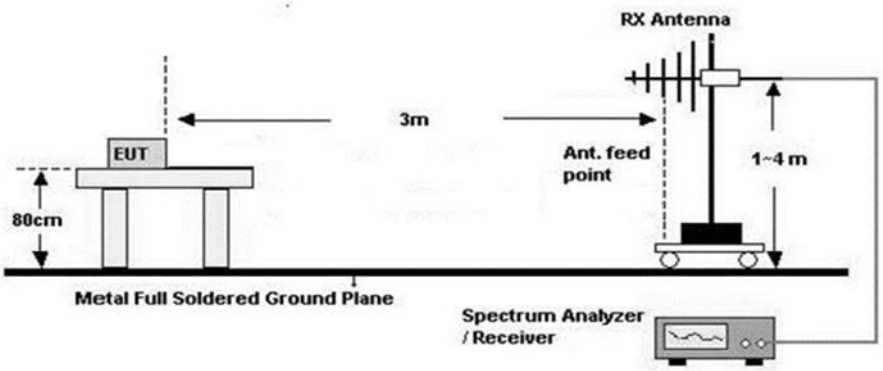
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

Test Configuration

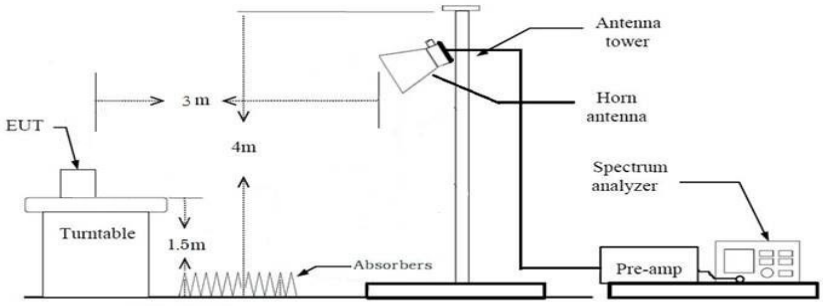
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



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 EUT is placed on a turntable, which is 0.8 m above ground plane. (Below 1 GHz)
2. The EUT is placed on a turntable, which is 1.5 m above ground plane. (Above 1 GHz)
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
6. 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.
7. Total(dBμV/m) = Measured Value(dBμV) + Cable Loss(dB) + Antenna Factor(dB/m) + Distance Factor(D.F)
8. EIRP (dBm)
   = Total (dBμV/m) + 20 log D − 104.8 (where D is the measurement distance in meters. D=3)
   = Total (dBμV/m) - 95.2(dB)
9. ERP(dBm) = EIRP(dBm) - 2.15(dB)

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 10^{th} harmonics from 9 kHz.

Test Note

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

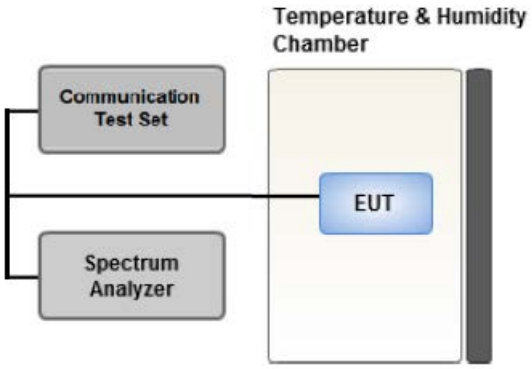
$$\text{Result}_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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.

$$EIRP_{(dBm)} = ERP_{(dBm)} + 2.15$$

3.5 OCCUPIED BANDWIDTH.



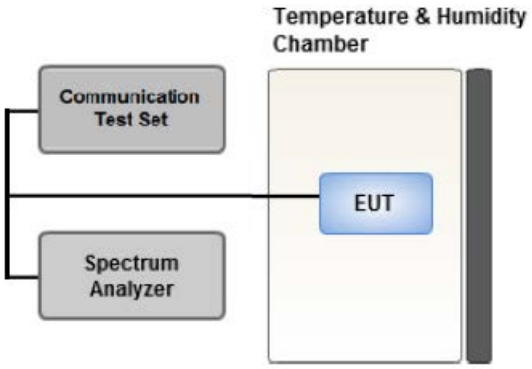
Test setup

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

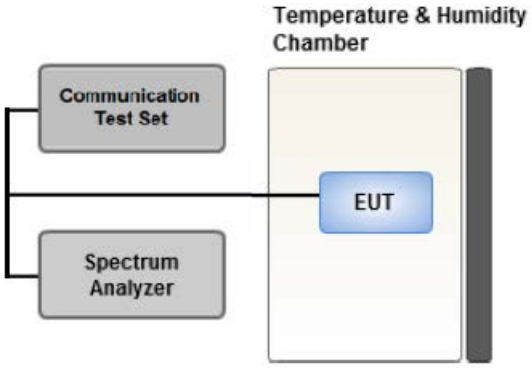
Test Overview

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

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

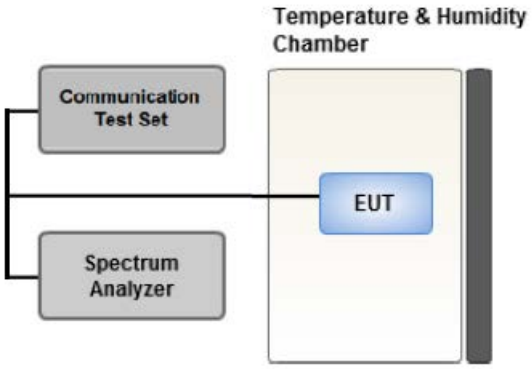
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW :
   .- EA licensee's frequency block by up to and including 37.5 kHz : 300 Hz
   .- EA licensee's frequency 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 in sweep × 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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:
   The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.
2. Primary Supply Voltage:
   .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
   .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
- 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.
- All modes of operation were tested and the worst case results are reported. Please refer to the table below.
- MIMO3 and MIMO4 have three types of Rx antennas. Operating modes were investigated for all Rx antennas, and the worst-case configuration results were reported.

(Worst-case: FSA antenna)

[External(MIMO1) Worst case]

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

[Internal(BUA) Worst case]

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

3.10 WORST CASE(CONDUCTED TEST)

- Worst case : Of all modulation, We have tested modulation of the high Conducted Output Power.
- Both 85% and 115% conditions were measured for the Frequency Stability test, and results for the worst-case configuration (85%) were reported.
- In accordance with the customer's specification of 3.7V as the lowest operating voltage, testing was performed at 3.7V instead of 85% (3.57V).

[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

4. LIST OF TEST EQUIPMENT

[Radiated]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	03/12/2026	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	03/12/2026	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	03/12/2026	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	03/12/2026	Annual
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/ 48920320/P	N/A	-
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	-
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
HIGHPASS FILTER	WHKX10-900-1000-15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
LOW NOISE AMPLIFIER	310N	SONOMA Instrument	186169	02/05/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	10/11/2025	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
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(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	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	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

[Conducted]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Power Splitter (DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
ATTENUATOR (20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262094331	11/13/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer (2 Hz ~ 50.0 GHz)	N9030B	KEYSIGHT	MY56320554	02/03/2026	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.	-	-	-
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. MEASUREMENT UNCERTAINTY

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

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{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)

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW
GSM BW = 249 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W
GSM BW = 249 kHz
G = Phase Modulation
7 = Quantized/Digital Info
W = Combination (Audio/Data)

WCDMA Emission Designator

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

QPSK Modulation

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

QAM Modulation

Emission Designator = 4M48W7D
LTE BW = 4.48 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

8. TEST DATA (MIMO1)

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	24.01	0.252	23.92	0.247	100
		1	3	23.83	0.242	23.97	0.249	100
		1	5	23.83	0.242	23.93	0.247	100
		3	0	23.84	0.242	23.80	0.240	100
		3	1	23.79	0.239	24.01	0.252	100
		3	3	23.80	0.240	23.85	0.243	100
		6	0	22.84	0.192	22.93	0.196	100
	16QAM	1	0	23.10	0.204	23.33	0.215	100
		1	3	23.18	0.208	23.25	0.211	100
		1	5	23.17	0.207	23.45	0.221	100
		3	0	22.94	0.197	23.06	0.202	100
		3	1	23.00	0.200	22.98	0.199	100
		3	3	22.96	0.198	22.99	0.199	100
		6	0	21.90	0.155	21.87	0.154	100
	64QAM	1	0	22.05	0.160	22.15	0.164	100
		1	3	22.06	0.161	22.09	0.162	100
		1	5	22.02	0.159	22.16	0.165	100
		3	0	21.84	0.153	22.06	0.161	100
		3	1	21.87	0.154	22.07	0.161	100
		3	3	21.87	0.154	21.96	0.157	100
		6	0	20.89	0.123	21.00	0.126	100
	256QAM	1	0	18.96	0.079	18.99	0.079	100
		1	3	19.06	0.081	19.03	0.080	100
		1	5	18.95	0.079	18.89	0.077	100
		3	0	18.96	0.079	18.95	0.078	100
		3	1	18.83	0.076	18.94	0.078	100
		3	3	18.83	0.076	18.96	0.079	100
		6	0	18.81	0.076	19.03	0.080	100

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	23.89	0.245	23.83	0.242	100
		1	7	23.81	0.240	23.69	0.234	100
		1	14	23.73	0.236	23.77	0.238	100
		8	0	22.86	0.193	22.84	0.192	100
		8	3	22.87	0.194	22.83	0.192	100
		8	7	22.82	0.191	22.73	0.187	100
		15	0	22.82	0.191	22.80	0.190	100
	16QAM	1	0	23.12	0.205	23.25	0.211	100
		1	7	23.29	0.213	23.23	0.210	100
		1	14	23.19	0.208	23.32	0.215	100
		8	0	21.94	0.156	21.74	0.149	100
		8	3	21.92	0.156	21.84	0.153	100
		8	7	21.92	0.156	21.87	0.154	100
		15	0	21.86	0.153	21.88	0.154	100
	64QAM	1	0	22.06	0.161	22.03	0.160	100
		1	7	22.10	0.162	22.04	0.160	100
		1	14	22.00	0.158	21.98	0.158	100
		8	0	20.89	0.123	20.80	0.120	100
		8	3	20.83	0.121	20.76	0.119	100
		8	7	20.85	0.122	20.90	0.123	100
		15	0	20.83	0.121	20.92	0.124	100
	256QAM	1	0	18.95	0.079	19.13	0.082	100
		1	7	18.95	0.079	18.91	0.078	100
		1	14	18.95	0.079	18.84	0.077	100
		8	0	18.95	0.079	18.87	0.077	100
		8	3	18.95	0.079	18.80	0.076	100
		8	7	18.95	0.079	18.83	0.076	100
		15	0	18.95	0.079	18.84	0.077	100

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	23.91	0.246	23.97	0.249	100
		1	12	23.88	0.244	23.97	0.249	100
		1	24	23.78	0.239	23.84	0.242	100
		12	0	22.74	0.188	23.00	0.200	100
		12	6	22.84	0.192	22.93	0.196	100
		12	11	22.82	0.191	22.82	0.192	100
		25	0	22.86	0.193	22.81	0.191	100
	16QAM	1	0	23.24	0.211	23.13	0.206	100
		1	12	23.34	0.216	23.31	0.214	100
		1	24	23.07	0.203	23.17	0.208	100
		12	0	21.86	0.153	22.00	0.159	100
		12	6	21.94	0.156	22.01	0.159	100
		12	11	21.87	0.154	21.85	0.153	100
		25	0	21.79	0.151	21.86	0.153	100
	64QAM	1	0	22.09	0.162	22.13	0.163	100
		1	12	22.05	0.160	22.05	0.160	100
		1	24	21.98	0.158	22.00	0.159	100
		12	0	20.87	0.122	21.02	0.126	100
		12	6	20.84	0.121	20.81	0.120	100
		12	11	20.82	0.121	20.88	0.123	100
		25	0	20.83	0.121	20.89	0.123	100
	256QAM	1	0	18.97	0.079	18.93	0.078	100
		1	12	19.03	0.080	18.75	0.075	100
		1	24	18.88	0.077	18.83	0.076	100
		12	0	18.83	0.076	18.96	0.079	100
		12	6	18.80	0.076	18.92	0.078	100
		12	11	18.78	0.076	18.93	0.078	100
		25	0	18.75	0.075	19.05	0.080	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	23.97	0.249	100
		1	24	23.83	0.242	100
		1	49	23.68	0.233	100
		25	0	22.66	0.184	100
		25	12	22.78	0.190	100
		25	24	22.78	0.189	100
		50	0	22.73	0.188	100
	16QAM	1	0	23.23	0.210	100
		1	24	23.10	0.204	100
		1	49	23.25	0.211	100
		25	0	21.73	0.149	100
		25	12	21.81	0.152	100
		25	24	21.72	0.149	100
		50	0	21.77	0.150	100
	64QAM	1	0	21.82	0.152	100
		1	24	22.06	0.161	100
		1	49	22.03	0.160	100
		25	0	20.78	0.120	100
		25	12	20.80	0.120	100
		25	24	20.61	0.115	100
		50	0	20.71	0.118	100
	256QAM	1	0	18.94	0.078	100
		1	24	18.99	0.079	100
		1	49	18.81	0.076	100
		25	0	18.70	0.074	100
		25	12	18.81	0.076	100
		25	24	18.73	0.075	100
		50	0	18.79	0.076	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm) 821.5 MHz		Limit (W)
				dBm	W	
15	QPSK	1	0	23.82	0.241	100
		1	36	23.85	0.243	100
		1	74	23.77	0.238	100
		36	0	22.79	0.190	100
		36	18	22.74	0.188	100
		36	39	22.79	0.190	100
		75	0	22.85	0.193	100
	16QAM	1	0	23.26	0.212	100
		1	36	23.24	0.211	100
		1	74	23.25	0.211	100
		36	0	21.85	0.153	100
		36	18	21.81	0.152	100
		36	39	21.91	0.155	100
		75	0	21.81	0.152	100
	64QAM	1	0	21.86	0.153	100
		1	36	22.08	0.162	100
		1	74	21.95	0.157	100
		36	0	20.99	0.126	100
		36	18	20.97	0.125	100
		36	39	20.83	0.121	100
		75	0	20.77	0.119	100
	256QAM	1	0	18.80	0.076	100
		1	36	18.88	0.077	100
		1	74	18.95	0.078	100
		36	0	18.90	0.078	100
		36	18	18.72	0.074	100
		36	39	18.83	0.076	100
		75	0	18.84	0.077	100

8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
814.7	LTE B26/ 1.4 MHz	QPSK	87.83	29.84	1.53	119.20	H	< 100	0.153	21.85	1	3
		16QAM	87.18	29.84	1.53	118.55	H		0.132	21.20		
		64QAM	85.84	29.84	1.53	117.21	H		0.097	19.86		
		256QAM	82.91	29.84	1.53	114.28	H		0.049	16.93		
823.3		QPSK	88.05	29.84	1.56	119.44	H		0.162	22.09	1	0
		16QAM	87.32	29.84	1.56	118.72	H		0.137	21.37		
		64QAM	86.18	29.84	1.56	117.58	H		0.106	20.23		
		256QAM	83.16	29.84	1.56	114.56	H		0.053	17.21		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
815.5	LTE B26/ 3 MHz	QPSK	87.93	29.84	1.53	119.30	H	< 100	0.157	21.95	1	14
		16QAM	87.25	29.84	1.53	118.62	H		0.134	21.27		
		64QAM	85.94	29.84	1.53	117.31	H		0.099	19.96		
		256QAM	83.03	29.84	1.53	114.40	H		0.051	17.05		
822.5		QPSK	88.15	29.84	1.56	119.55	H		0.166	22.20	1	14
		16QAM	87.42	29.84	1.56	118.82	H		0.140	21.47		
		64QAM	86.33	29.84	1.56	117.72	H		0.109	20.37		
		256QAM	83.21	29.84	1.56	114.60	H		0.053	17.25		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
816.5	LTE B26/ 5 MHz	QPSK	88.11	29.84	1.53	119.48	H	< 100	0.163	22.13	1	24
		16QAM	87.49	29.84	1.53	118.86	H		0.142	21.51		
		64QAM	86.31	29.84	1.53	117.68	H		0.108	20.33		
		256QAM	83.16	29.84	1.53	114.53	H		0.052	17.18		
821.5		QPSK	88.15	29.84	1.56	119.55	H		0.166	22.20	1	24
		16QAM	87.38	29.84	1.56	118.78	H		0.139	21.43		
		64QAM	86.26	29.84	1.56	117.66	H		0.107	20.31		
		256QAM	83.19	29.84	1.56	114.59	H		0.053	17.24		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	88.13	29.84	1.53	119.50	H	< 100	0.164	22.15	1	49
		16QAM	87.41	29.84	1.53	118.78	H		0.139	21.43		
		64QAM	86.31	29.84	1.53	117.68	H		0.108	20.33		
		256QAM	83.27	29.84	1.53	114.64	H		0.054	17.29		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
821.5	LTE B26/ 15 MHz	QPSK	88.23	29.84	1.53	119.60	H	< 7.00	0.168	22.25	1	74
		16QAM	87.45	29.84	1.53	118.81	H		0.140	21.46		
		64QAM	86.41	29.84	1.53	117.78	H		0.110	20.43		
		256QAM	83.19	29.84	1.53	114.56	H		0.053	17.21		

Note

1. Limit: None (for reporting purposes only)

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	-40.69	9.39	-55.53	2.00	H	-48.14	-13.00	1	74
	2 464.50	-22.31	10.37	-33.47	2.59	V	-25.69	-13.00		
	3 286.00	-53.33	10.98	-61.44	2.95	V	-53.41	-13.00		
	4 107.50	-38.25	11.63	-44.57	3.33	V	-36.27	-13.00		
	4 929.00	-55.28	11.31	-56.94	3.64	V	-49.27	-13.00		

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	1.0953
			16QAM			1.0895
			64QAM			1.0922
			256QAM			1.0895
	3 MHz	822.5	QPSK	15		2.7029
			16QAM			2.6930
			64QAM			2.6952
			256QAM			2.6991
	5 MHz	821.5	QPSK	25		4.5015
			16QAM			4.4798
			64QAM			4.4924
			256QAM			4.4998
	10 MHz	819.0	QPSK	50		8.9582
			16QAM			8.9592
			64QAM			8.9647
			256QAM			8.9699
	15 MHz	821.5	QPSK	75		13.383
			16QAM			13.439
			64QAM			13.445
			256QAM			13.380

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 55 ~ 74.

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	4.96515	28.590	-55.92	-27.332	-13.00
		823.3	3.78869	28.590	-56.56	-27.974	
	3	815.5	3.84851	28.590	-55.68	-27.093	
		822.5	9.79063	29.190	-56.88	-27.686	
	5	816.5	4.67602	28.590	-55.81	-27.223	
		821.5	4.85548	28.590	-55.79	-27.197	
	10	819.0	5.48359	29.190	-56.01	-26.818	
	15	821.5	7.19843	29.190	-55.72	-26.529	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 75 ~ 82.
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	27.65
1 – 5	28.59
5 – 10	29.19
10 – 15	29.71
15 – 20	30.08
Above 20(26.5)	30.73

8.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 83 ~ 102.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ MODE: LTE 26

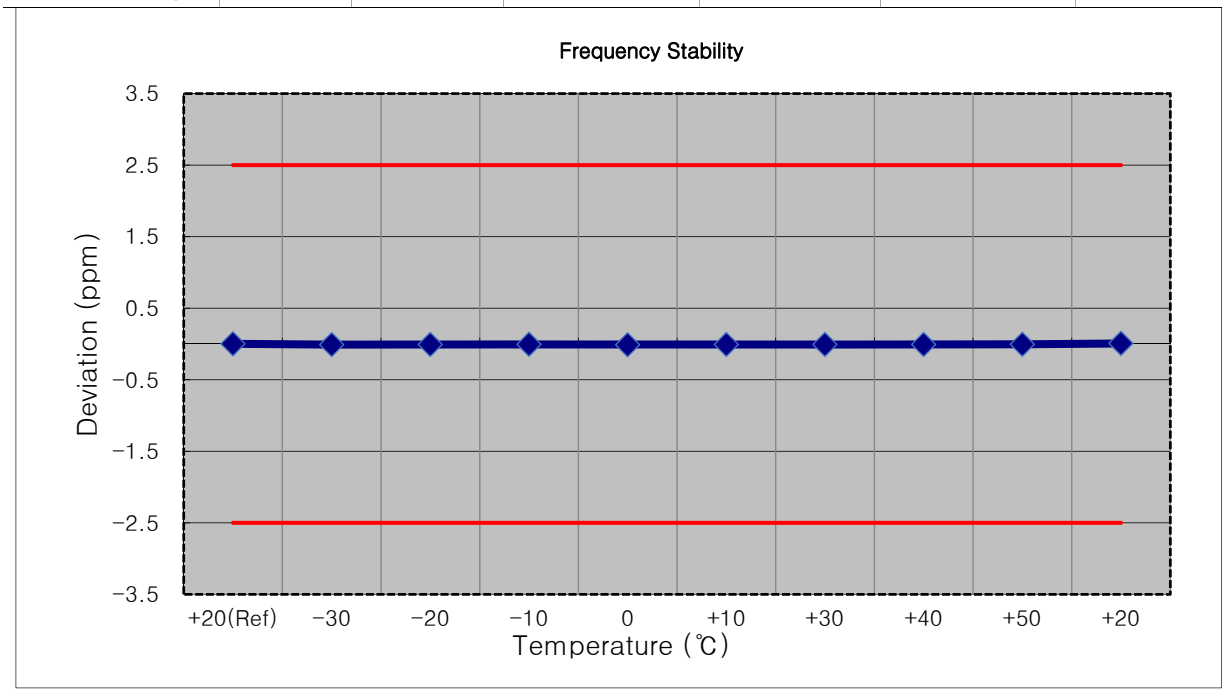
▣ OPERATING FREQUENCY: 814,700,000 Hz

▣ CHANNEL: 26697(1.4 MHz)

▣ REFERENCE VOLTAGE: 4.200 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	814 699 993	0.0	0.000 000	0.000
100 %		-30	814 699 985	-7.9	-0.000 001	-0.010
100 %		-20	814 699 987	-5.9	-0.000 001	-0.007
100 %		-10	814 699 989	-3.9	0.000 000	-0.005
100 %		0	814 699 984	-9.7	-0.000 001	-0.012
100 %		+10	814 699 987	-6.1	-0.000 001	-0.007
100 %		+30	814 699 986	-7.5	-0.000 001	-0.009
100 %		+40	814 699 986	-6.9	-0.000 001	-0.008
100 %		+50	814 699 988	-4.8	-0.000 001	-0.006
Lowest voltage	3.700	+20	814 699 999	5.9	0.000 001	0.007



▣ MODE: LTE 26

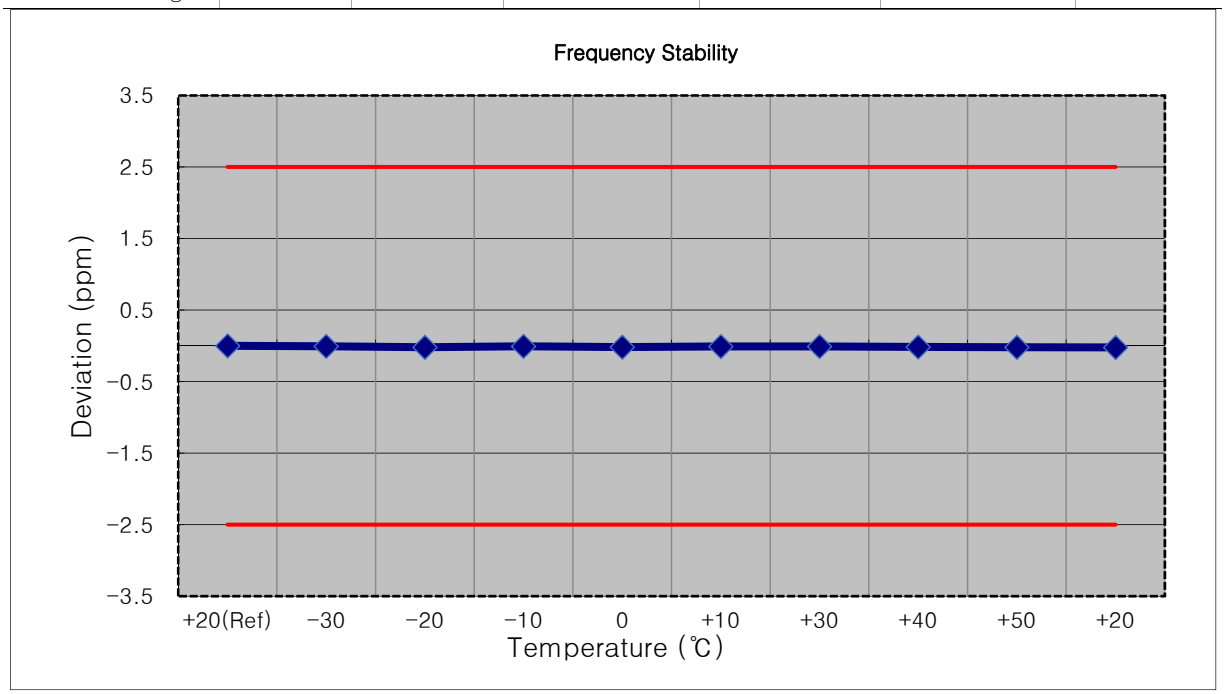
▣ OPERATING FREQUENCY: 815,500,000 Hz

▣ CHANNEL: 26705(3 MHz)

▣ REFERENCE VOLTAGE: 4.200 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	815 499 986	0.0	0.000 000	0.000
100 %		-30	815 499 980	-6.4	-0.000 001	-0.008
100 %		-20	815 499 969	-17.2	-0.000 002	-0.021
100 %		-10	815 499 981	-4.8	-0.000 001	-0.006
100 %		0	815 499 971	-15.2	-0.000 002	-0.018
100 %		+10	815 499 978	-8.3	-0.000 001	-0.010
100 %		+30	815 499 979	-6.8	-0.000 001	-0.008
100 %		+40	815 499 973	-13.0	-0.000 002	-0.016
100 %		+50	815 499 969	-16.6	-0.000 002	-0.020
Lowest voltage	3.700	+20	815 499 968	-17.8	-0.000 002	-0.022



▣ MODE: LTE 26

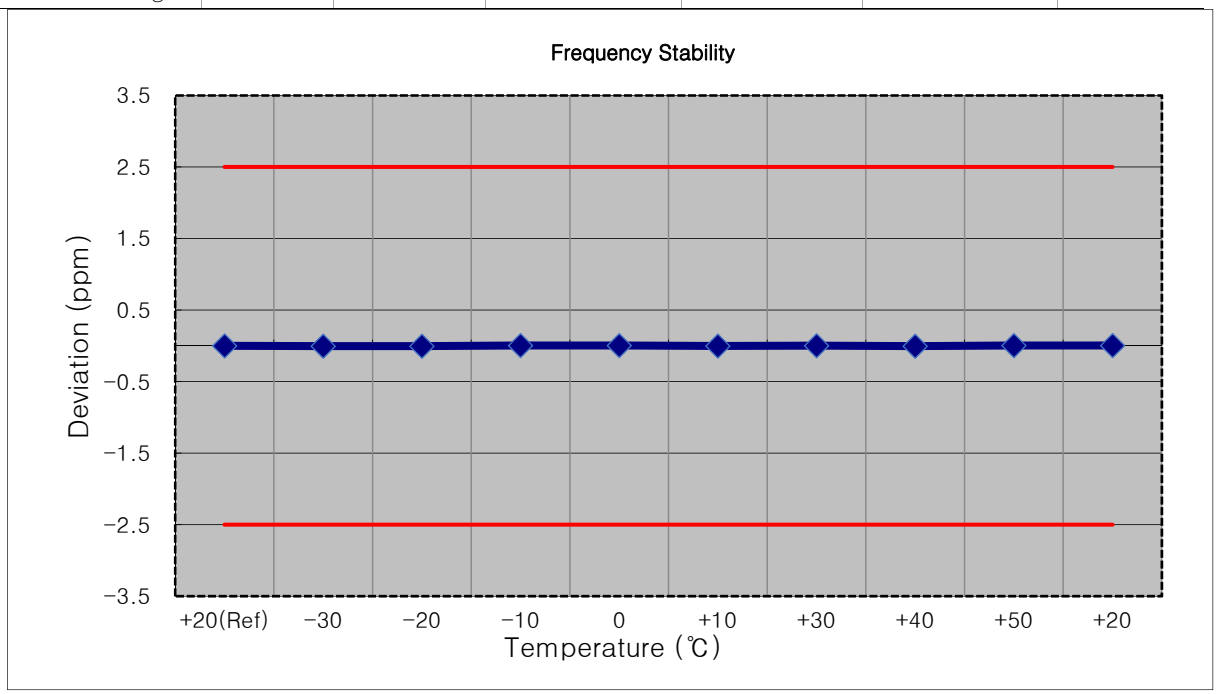
▣ OPERATING FREQUENCY: 816,500,000 Hz

▣ CHANNEL: 26715(5 MHz)

▣ REFERENCE VOLTAGE: 4.200 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	816 499 996	0.0	0.000 000	0.000
100 %		-30	816 499 992	-3.6	0.000 000	-0.004
100 %		-20	816 499 993	-3.1	0.000 000	-0.004
100 %		-10	816 499 999	3.1	0.000 000	0.004
100 %		0	816 500 000	3.7	0.000 000	0.005
100 %		+10	816 499 993	-2.6	0.000 000	-0.003
100 %		+30	816 499 998	2.1	0.000 000	0.003
100 %		+40	816 499 992	-3.6	0.000 000	-0.004
100 %		+50	816 500 000	4.0	0.000 000	0.005
Lowest voltage	3.700	+20	816 499 999	3.0	0.000 000	0.004



▣ MODE: LTE 26

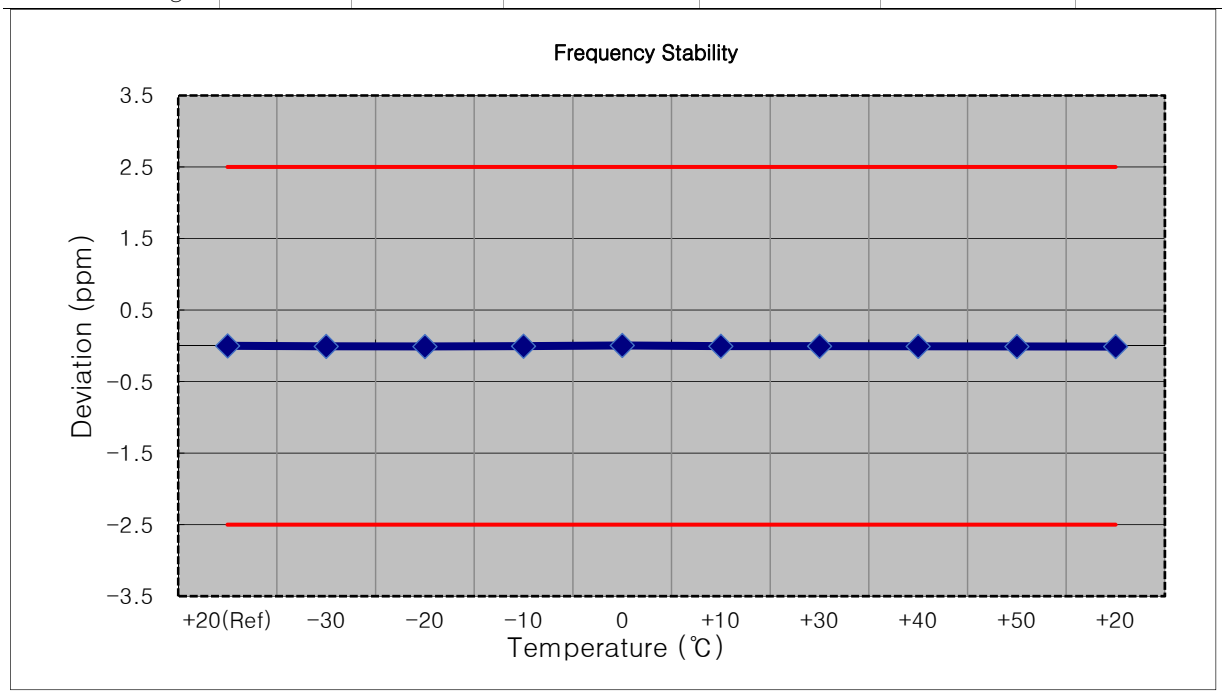
▣ OPERATING FREQUENCY: 819,000,000 Hz

▣ CHANNEL: 26740(10 MHz)

▣ REFERENCE VOLTAGE: 4.200 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	818 999 996	0.0	0.000 000	0.000
100 %		-30	818 999 990	-5.2	-0.000 001	-0.006
100 %		-20	818 999 989	-6.6	-0.000 001	-0.008
100 %		-10	818 999 992	-3.1	0.000 000	-0.004
100 %		0	819 000 001	5.0	0.000 001	0.006
100 %		+10	818 999 991	-4.3	-0.000 001	-0.005
100 %		+30	818 999 991	-4.6	-0.000 001	-0.006
100 %		+40	818 999 990	-5.1	-0.000 001	-0.006
100 %		+50	818 999 988	-7.9	-0.000 001	-0.010
Lowest voltage	3.700	+20	818 999 987	-8.1	-0.000 001	-0.010



▣ MODE: LTE 26

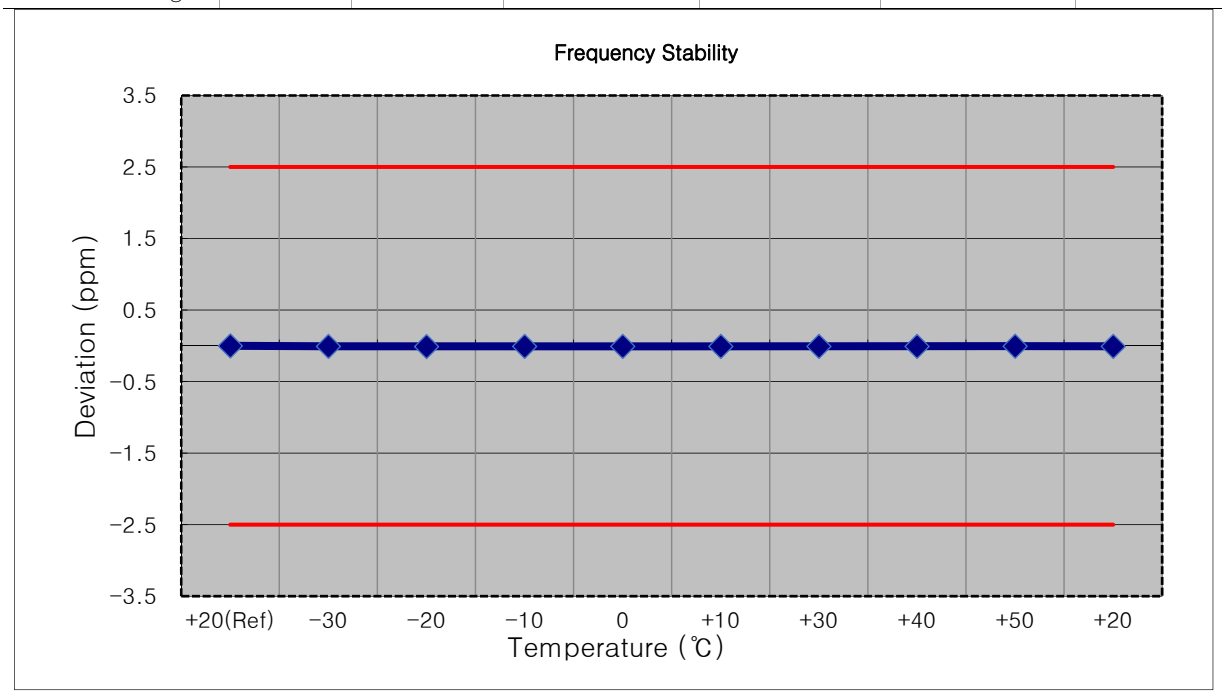
▣ OPERATING FREQUENCY: 821,500,000 Hz

▣ CHANNEL: 26765(15 MHz)

▣ REFERENCE VOLTAGE: 4.200 VDC

▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	821 499 996	0.0	0.000 000	0.000
100 %		-30	821 499 990	-5.2	-0.000 001	-0.006
100 %		-20	821 499 989	-7.0	-0.000 001	-0.009
100 %		-10	821 499 989	-6.2	-0.000 001	-0.008
100 %		0	821 499 989	-6.2	-0.000 001	-0.008
100 %		+10	821 499 990	-5.3	-0.000 001	-0.006
100 %		+30	821 499 991	-4.8	-0.000 001	-0.006
100 %		+40	821 499 990	-6.1	-0.000 001	-0.007
100 %		+50	821 499 991	-4.6	-0.000 001	-0.006
Lowest voltage	3.700	+20	821 499 990	-5.9	-0.000 001	-0.007



8.8 STRADDLE CHANNEL

8.8.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
1.4	QPSK	1	0	23.90	0.245	100
		1	3	23.96	0.249	100
		1	5	23.96	0.249	100
		3	0	23.83	0.241	100
		3	1	24.00	0.251	100
		3	3	23.85	0.243	100
		6	0	22.91	0.195	100
	16QAM	1	0	23.29	0.214	100
		1	3	23.22	0.210	100
		1	5	23.43	0.220	100
		3	0	23.09	0.204	100
		3	1	23.00	0.199	100
		3	3	23.02	0.201	100
		6	0	21.88	0.154	100
	64QAM	1	0	22.20	0.166	100
		1	3	22.08	0.162	100
		1	5	22.14	0.164	100
		3	0	22.01	0.159	100
		3	1	22.07	0.161	100
		3	3	22.00	0.158	100
		6	0	20.98	0.125	100
	256QAM	1	0	19.01	0.080	100
		1	3	19.01	0.080	100
		1	5	18.87	0.077	100
		3	0	19.01	0.080	100
		3	1	18.97	0.079	100
		3	3	19.02	0.080	100
		6	0	18.96	0.079	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	23.92	0.247	100
		1	7	23.72	0.235	100
		1	14	23.78	0.239	100
		8	0	22.85	0.193	100
		8	3	22.81	0.191	100
		8	7	22.72	0.187	100
		15	0	22.77	0.189	100
	16QAM	1	0	23.22	0.210	100
		1	7	23.27	0.212	100
		1	14	23.31	0.214	100
		8	0	21.73	0.149	100
		8	3	21.90	0.155	100
		8	7	21.94	0.156	100
		15	0	21.83	0.152	100
	64QAM	1	0	21.96	0.157	100
		1	7	22.06	0.161	100
		1	14	21.99	0.158	100
		8	0	20.81	0.121	100
		8	3	20.76	0.119	100
		8	7	20.84	0.121	100
		15	0	20.93	0.124	100
	256QAM	1	0	19.12	0.082	100
		1	7	18.92	0.078	100
		1	14	18.91	0.078	100
		8	0	18.90	0.078	100
		8	3	18.84	0.077	100
		8	7	18.76	0.075	100
		15	0	18.83	0.076	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	23.99	0.251	100
		1	12	24.02	0.252	100
		1	24	23.85	0.243	100
		12	0	22.91	0.196	100
		12	6	22.93	0.196	100
		12	11	22.86	0.193	100
		25	0	22.89	0.195	100
	16QAM	1	0	23.12	0.205	100
		1	12	23.40	0.219	100
		1	24	23.14	0.206	100
		12	0	21.97	0.157	100
		12	6	21.98	0.158	100
		12	11	21.86	0.153	100
		25	0	21.90	0.155	100
	64QAM	1	0	22.16	0.164	100
		1	12	22.10	0.162	100
		1	24	21.95	0.157	100
		12	0	21.03	0.127	100
		12	6	20.87	0.122	100
		12	11	20.90	0.123	100
		25	0	20.85	0.121	100
	256QAM	1	0	18.96	0.079	100
		1	12	18.82	0.076	100
		1	24	18.81	0.076	100
		12	0	18.92	0.078	100
		12	6	18.97	0.079	100
		12	11	18.87	0.077	100
		25	0	19.06	0.080	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	23.99	0.250	100
		1	24	23.87	0.244	100
		1	49	23.71	0.235	100
		25	0	22.65	0.184	100
		25	12	22.82	0.191	100
		25	24	22.69	0.186	100
		50	0	22.70	0.186	100
	16QAM	1	0	23.28	0.213	100
		1	24	23.14	0.206	100
		1	49	23.26	0.212	100
		25	0	21.80	0.151	100
		25	12	21.79	0.151	100
		25	24	21.73	0.149	100
		50	0	21.75	0.150	100
	64QAM	1	0	21.77	0.150	100
		1	24	22.01	0.159	100
		1	49	22.09	0.162	100
		25	0	20.78	0.120	100
		25	12	20.74	0.119	100
		25	24	20.60	0.115	100
		50	0	20.75	0.119	100
	256QAM	1	0	18.98	0.079	100
		1	24	18.89	0.077	100
		1	49	18.86	0.077	100
		25	0	18.69	0.074	100
		25	12	18.79	0.076	100
		25	24	18.66	0.074	100
		50	0	18.77	0.075	100

8.8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 1.4 MHz	QPSK	88.03	29.84	1.56	119.43	H	< 7.00	0.161	22.08	1	0
		16QAM	87.46	29.84	1.56	118.86	H		0.141	21.51		
		64QAM	86.23	29.84	1.56	117.63	H		0.107	20.28		
		256QAM	83.16	29.84	1.56	114.56	H		0.053	17.21		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 3 MHz	QPSK	88.08	29.84	1.56	119.48	H	< 7.00	0.163	22.13	1	14
		16QAM	87.37	29.84	1.56	118.77	H		0.139	21.42		
		64QAM	86.23	29.84	1.56	117.63	H		0.107	20.28		
		256QAM	83.19	29.84	1.56	114.59	H		0.053	17.24		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 5 MHz	QPSK	88.19	29.84	1.56	119.59	H	< 7.00	0.168	22.24	1	13
		16QAM	87.44	29.84	1.56	118.84	H		0.141	21.49		
		64QAM	86.36	29.84	1.56	117.76	H		0.110	20.41		
		256QAM	83.21	29.84	1.56	114.61	H		0.053	17.26		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 10 MHz	QPSK	88.18	29.84	1.56	119.58	H	< 7.00	0.167	22.23	1	25
		16QAM	87.47	29.84	1.56	118.87	H		0.142	21.52		
		64QAM	86.32	29.84	1.56	117.72	H		0.109	20.37		
		256QAM	83.24	29.84	1.56	114.64	H		0.054	17.29		

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	-42.47	9.44	-57.41	2.02	H	-49.99	-13.00	1	13
	2 472.00	-20.64	10.35	-31.84	2.59	V	-24.08	-13.00		
	3 296.00	-53.72	11.06	-61.88	2.95	H	-53.77	-13.00		
	4 120.00	-40.59	11.65	-46.95	3.31	V	-38.61	-13.00		
	4 944.00	-54.42	11.28	-56.08	3.68	V	-48.48	-13.00		

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	4.0679	28.590	-56.194	-27.604	-13.00
	3		4.6062	28.590	-56.727	-28.137	
	5		9.6211	29.190	-56.116	-26.926	
	10		6.9093	29.190	-55.677	-26.487	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 104 ~ 107.
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	27.65
1 – 5	28.59
5 – 10	29.19
10 – 15	29.71
15 – 20	30.08
Above 20(26.5)	30.73

8.8.5 CHANNEL EDGE(Part90)

- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Band Edge are shown Page 108 ~ 119.

8.8.6 BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 120 ~ 127.

9. TEST DATA (Internal(BUA))

9.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
814.7	LTE B26/ 1.4 MHz	QPSK	83.00	29.84	1.53	114.37	H	< 100	0.050	17.02	1	3
		16QAM	82.41	29.84	1.53	113.78	H		0.044	16.43		
		64QAM	81.15	29.84	1.53	112.52	H		0.033	15.17		
		256QAM	78.08	29.84	1.53	109.45	H		0.016	12.10		
823.3		QPSK	83.82	29.84	1.56	115.22	H		0.061	17.87	1	0
		16QAM	83.23	29.84	1.56	114.63	H		0.053	17.28		
		64QAM	81.96	29.84	1.56	113.36	H		0.040	16.01		
		256QAM	78.94	29.84	1.56	110.34	H		0.020	12.99		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
815.5	LTE B26/ 3 MHz	QPSK	83.17	29.84	1.53	114.54	H	< 100	0.052	17.19	1	14
		16QAM	82.58	29.84	1.53	113.95	H		0.046	16.60		
		64QAM	81.34	29.84	1.53	112.71	H		0.034	15.36		
		256QAM	78.23	29.84	1.53	109.60	H		0.017	12.25		
822.5		QPSK	83.71	29.84	1.56	115.11	H		0.060	17.76	1	14
		16QAM	83.19	29.84	1.56	114.59	H		0.053	17.24		
		64QAM	81.91	29.84	1.56	113.31	H		0.039	15.96		
		256QAM	78.90	29.84	1.56	110.29	H		0.020	12.94		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
816.5	LTE B26/ 5 MHz	QPSK	83.47	29.84	1.53	114.84	H	< 100	0.056	17.49	1	24
		16QAM	82.70	29.84	1.53	114.06	H		0.047	16.71		
		64QAM	81.53	29.84	1.53	112.90	H		0.036	15.55		
		256QAM	78.30	29.84	1.53	109.67	H		0.017	12.32		
821.5		QPSK	83.83	29.84	1.56	115.23	H		0.061	17.88	1	24
		16QAM	83.04	29.84	1.56	114.44	H		0.051	17.09		
		64QAM	81.94	29.84	1.56	113.33	H		0.040	15.98		
		256QAM	78.85	29.84	1.56	110.25	H		0.019	12.90		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	83.83	29.84	1.53	115.20	H	< 100	0.061	17.85	1	49
		16QAM	83.06	29.84	1.53	114.43	H		0.051	17.08		
		64QAM	81.91	29.84	1.53	113.28	H		0.039	15.93		
		256QAM	78.86	29.84	1.53	110.23	H		0.019	12.88		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
821.5	LTE B26/ 15 MHz	QPSK	84.23	29.84	1.53	115.60	H	< 7.00	0.067	18.25	1	74
		16QAM	83.51	29.84	1.53	114.87	H		0.057	17.52		
		64QAM	82.38	29.84	1.53	113.75	H		0.044	16.40		
		256QAM	79.32	29.84	1.53	110.69	H		0.022	13.34		

Note

1. Limit: None (for reporting purposes only)

9.2 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	-52.53	9.39	-67.37	2.00	V	-59.98	-13.00	1	74
	2 464.50	-53.83	10.37	-64.99	2.59	H	-57.21	-13.00		
	3 286.00	-54.35	10.98	-62.46	2.95	H	-54.43	-13.00		
	4 107.50	-54.16	11.63	-60.48	3.33	H	-52.18	-13.00		
	4 929.00	-55.05	11.31	-56.71	3.64	H	-49.04	-13.00		

9.3 STRADDLE CHANNEL

9.3.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 1.4 MHz	QPSK	83.80	29.84	1.56	115.20	H	< 7.00	0.061	17.85	1	0
		16QAM	83.27	29.84	1.56	114.67	H		0.054	17.32		
		64QAM	82.00	29.84	1.56	113.40	H		0.040	16.05		
		256QAM	78.99	29.84	1.56	110.39	H		0.020	13.04		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 3 MHz	QPSK	83.96	29.84	1.56	115.36	H	< 7.00	0.063	18.01	1	14
		16QAM	83.32	29.84	1.56	114.72	H		0.055	17.37		
		64QAM	82.17	29.84	1.56	113.57	H		0.042	16.22		
		256QAM	79.05	29.84	1.56	110.45	H		0.020	13.10		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 5 MHz	QPSK	84.12	29.84	1.56	115.52	H	< 7.00	0.066	18.17	1	13
		16QAM	83.30	29.84	1.56	114.70	H		0.054	17.35		
		64QAM	82.24	29.84	1.56	113.64	H		0.043	16.29		
		256QAM	79.15	29.84	1.56	110.55	H		0.021	13.20		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 10 MHz	QPSK	84.23	29.84	1.56	115.63	H	< 7.00	0.067	18.28	1	25
		16QAM	83.64	29.84	1.56	115.04	H		0.059	17.69		
		64QAM	82.36	29.84	1.56	113.76	H		0.044	16.41		
		256QAM	79.28	29.84	1.56	110.68	H		0.022	13.33		

9.3.2 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	-51.42	9.44	-66.36	2.02	V	-58.94	-13.00	1	25
	2 472.00	-54.90	10.35	-66.10	2.59	H	-58.34	-13.00		
	3 296.00	-54.54	11.06	-62.70	2.95	H	-54.59	-13.00		
	4 120.00	-54.52	11.65	-60.88	3.31	V	-52.54	-13.00		
	4 944.00	-56.32	11.28	-57.98	3.68	V	-50.38	-13.00		

10. TEST PLOTS

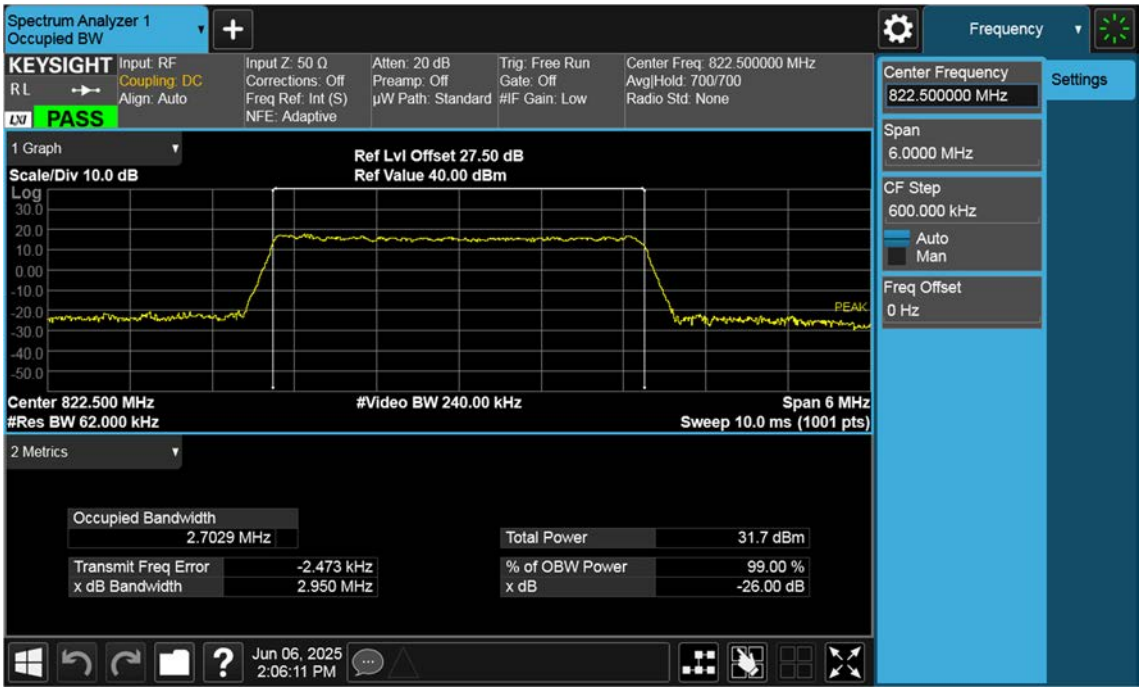
LTE B26_1.4M_OBW_Mid_QPSK_FullRB

LTE B26_1.4M_OBW_Mid_16QAM_FullRB

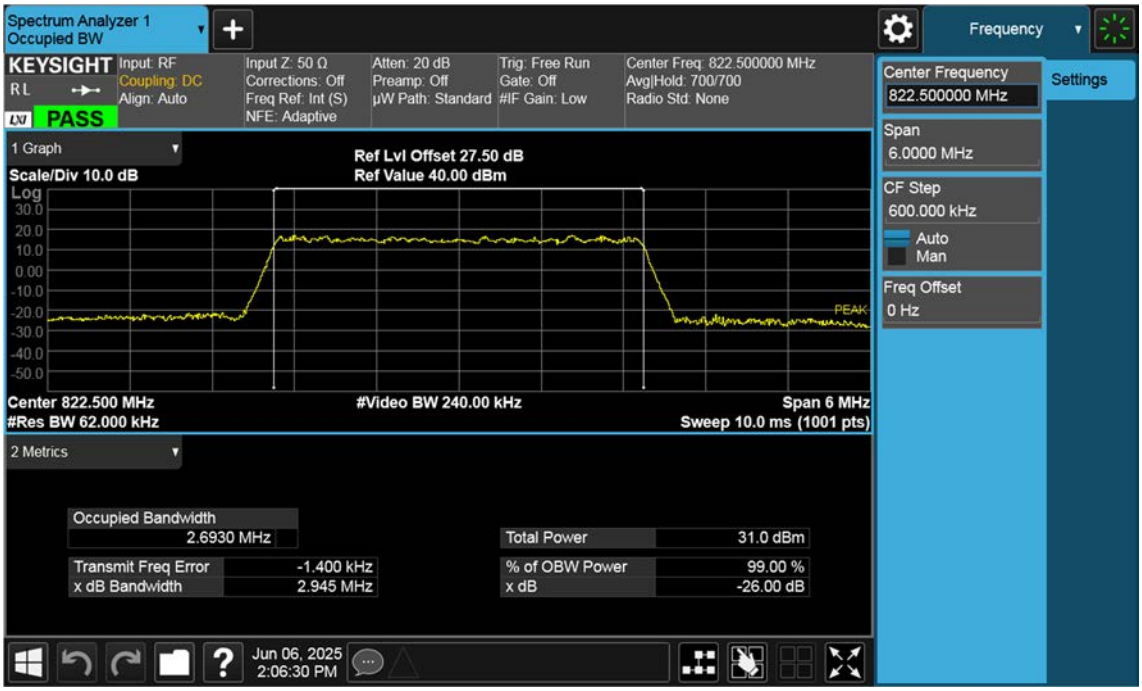
LTE B26_1.4M_OBW_Mid_64QAM_FullRB

LTE B26_1.4M_OBW_Mid_256QAM_FullRB

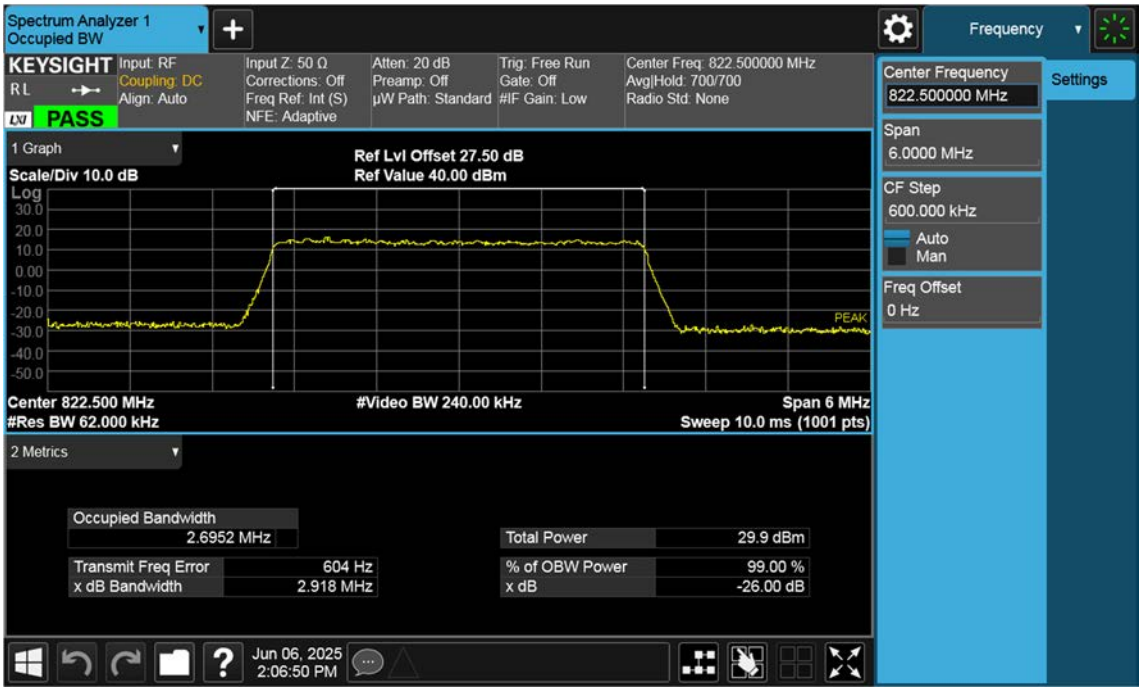
LTE B26_3 M_OBW_Mid_QPSK_FullRB



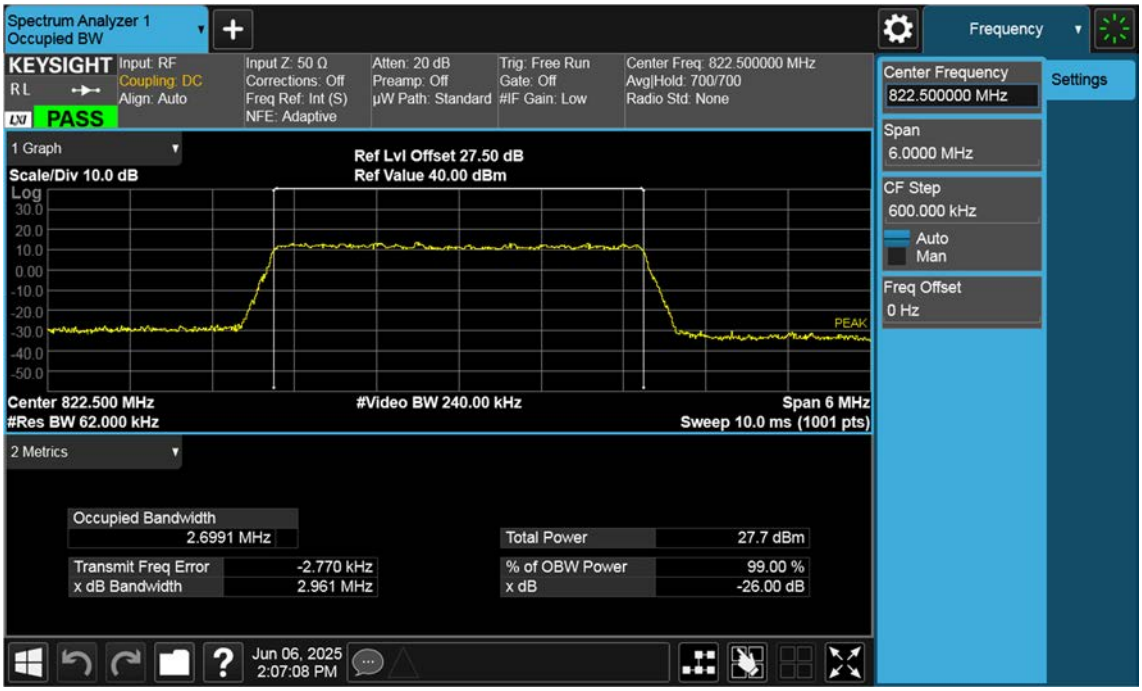
LTE B26_3 M_OBW_Mid_16QAM_FullRB



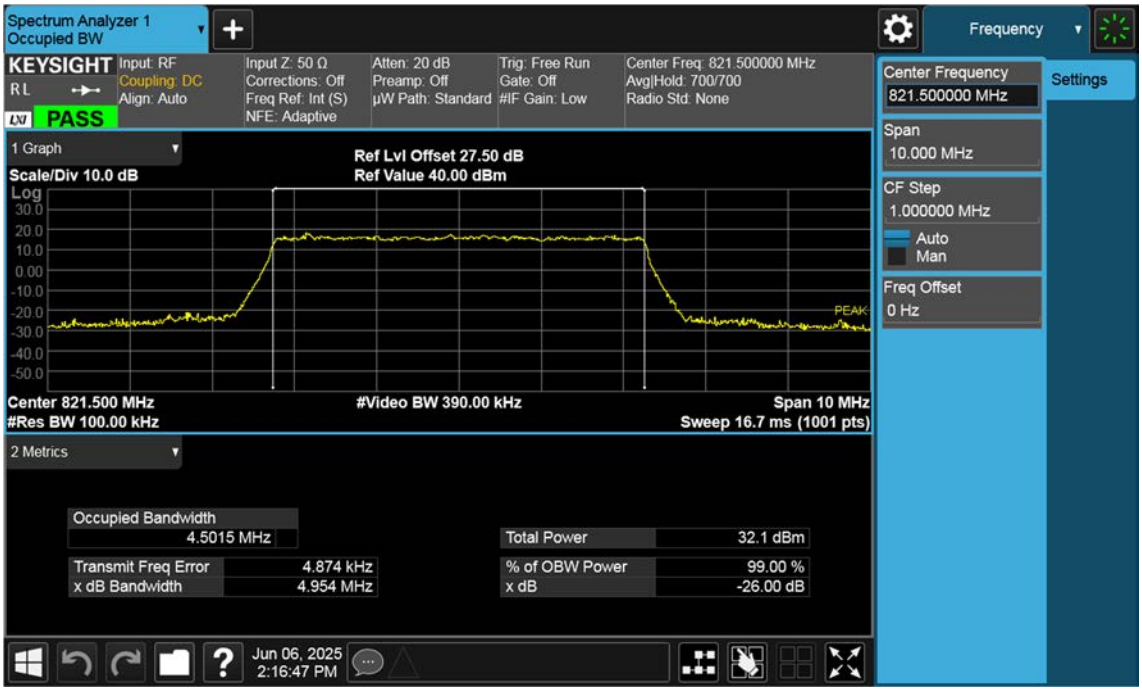
LTE B26_3 M_OBW_Mid_64QAM_FullRB



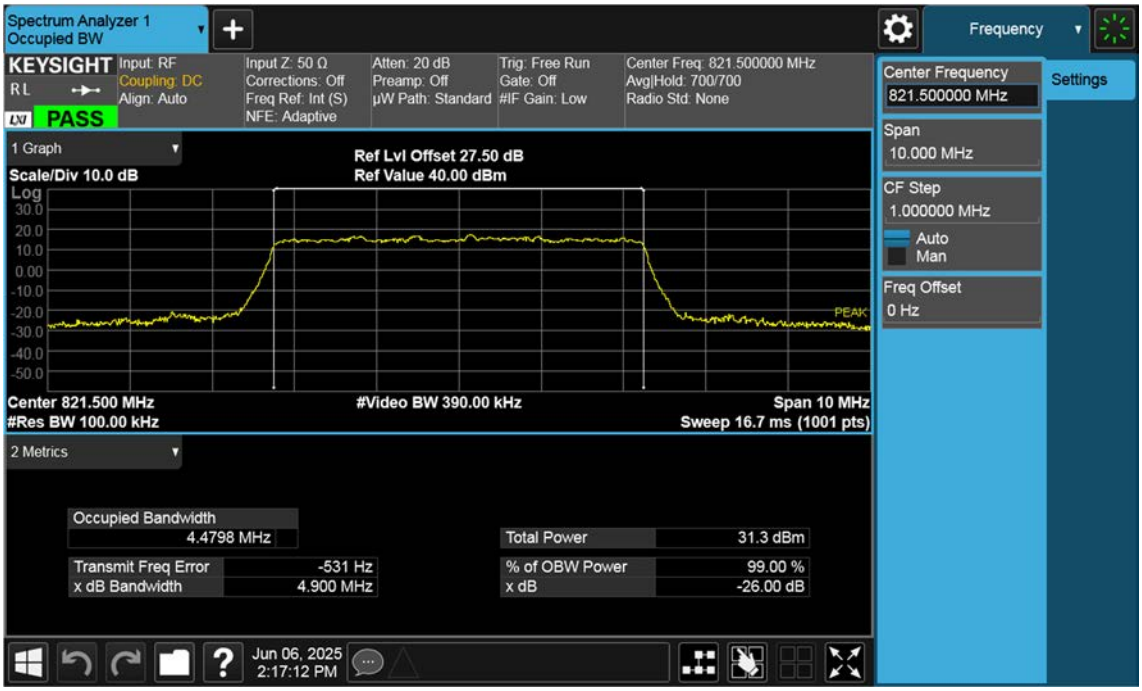
LTE B26_3 M_OBW_Mid_256QAM_FullRB



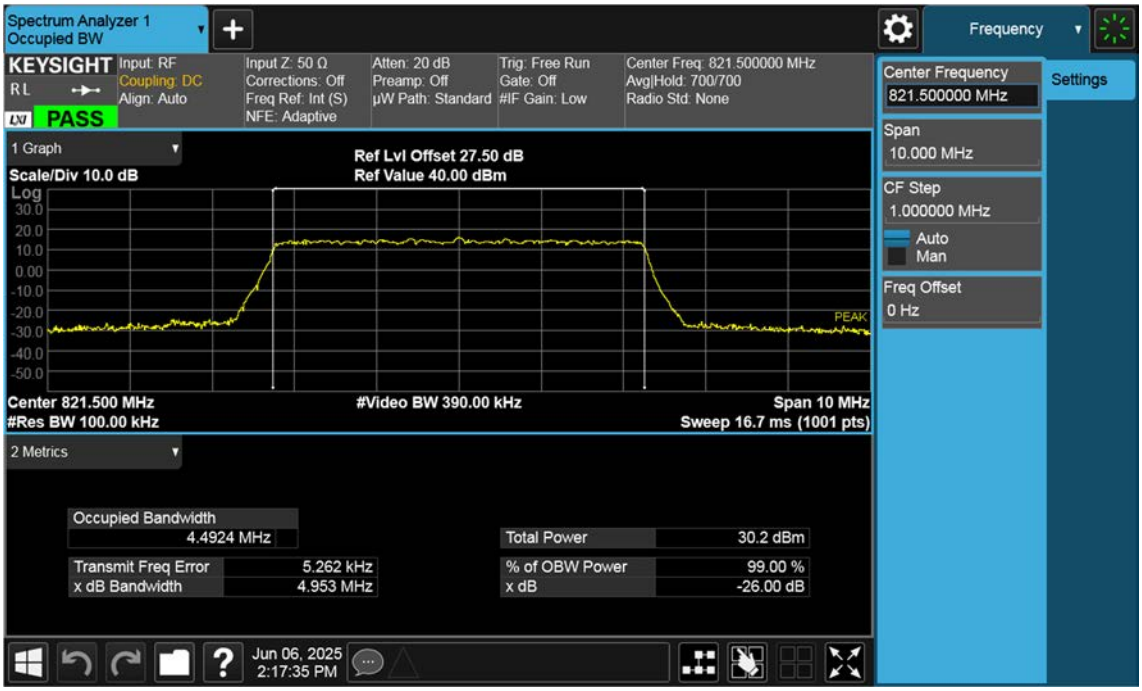
LTE B26_5 M_OBW_Mid_QPSK_FullRB



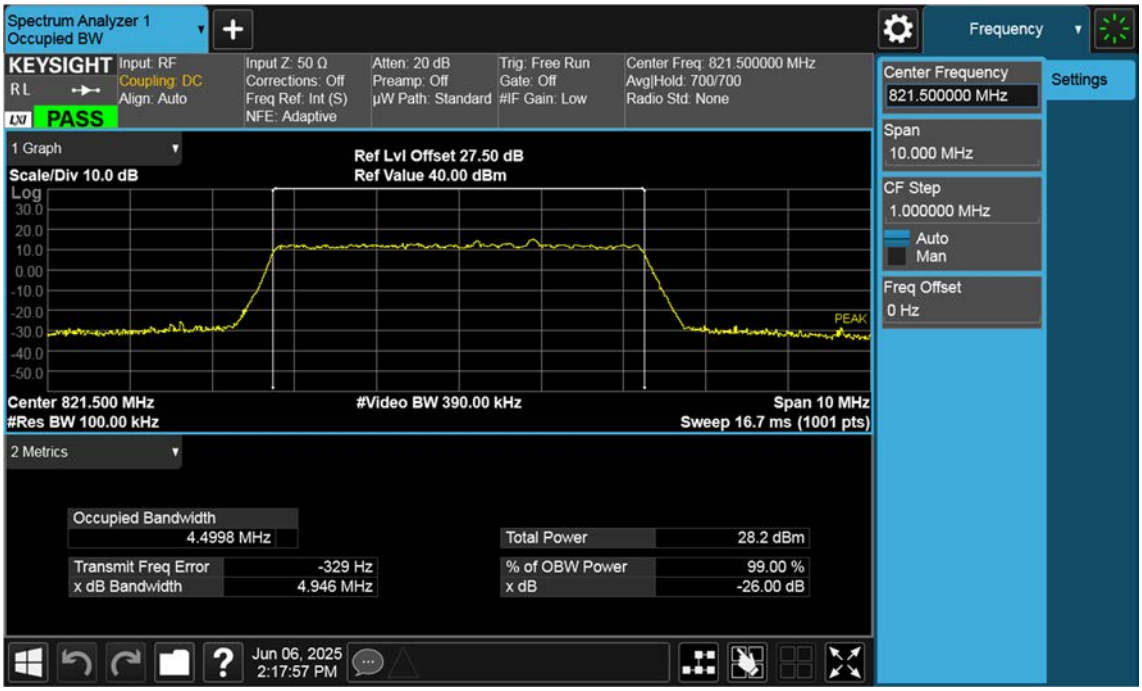
LTE B26_5 M_OBW_Mid_16QAM_FullRB



LTE B26_5 M_OBW_Mid_64QAM_FullRB



LTE B26_5 M_OBW_Mid_256QAM_FullRB

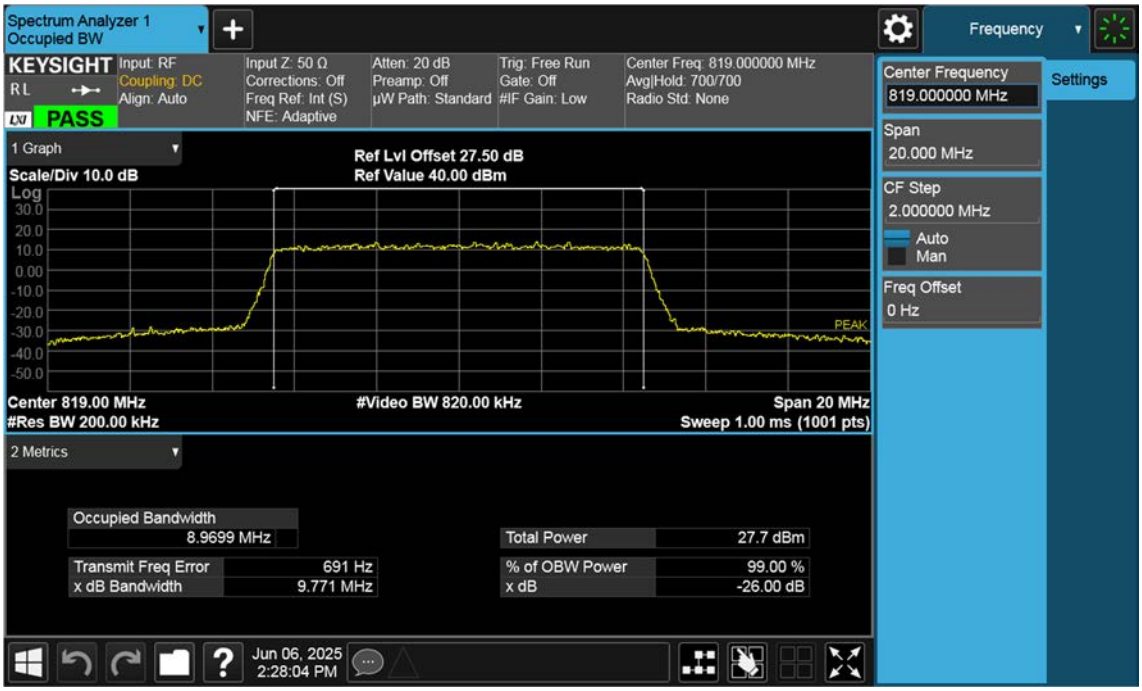


LTE B26_10 M_OBW_Mid_QPSK_FullRB

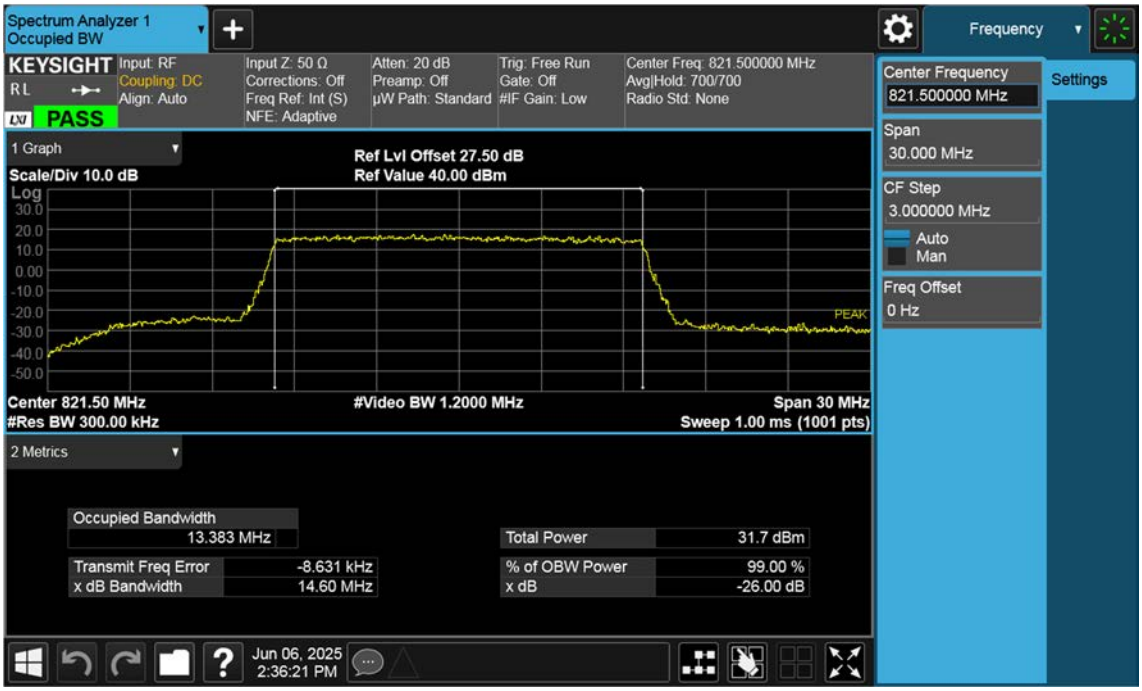
LTE B26_10 M_OBW_Mid_16QAM_FullRB

LTE B26_10 M_OBW_Mid_64QAM_FullRB

LTE B26_10 M_OBW_Mid_256QAM_FullRB



LTE B26_15 M_OBW_Mid_QPSK_FullRB

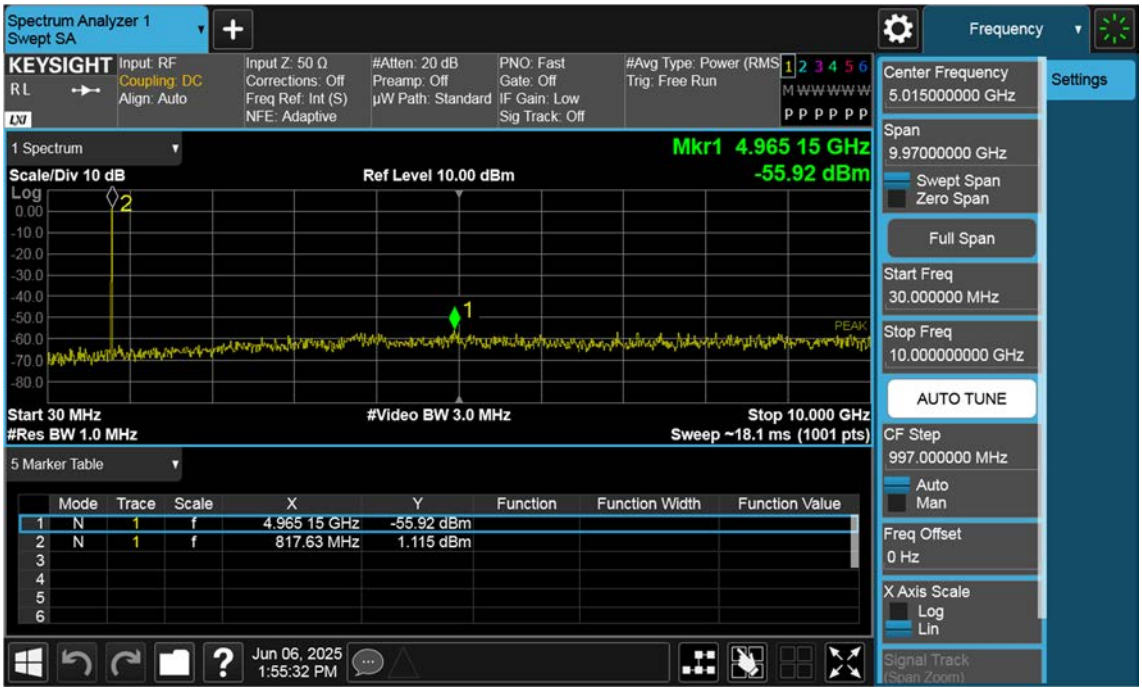


LTE B26_15 M_OBW_Mid_16QAM_FullRB

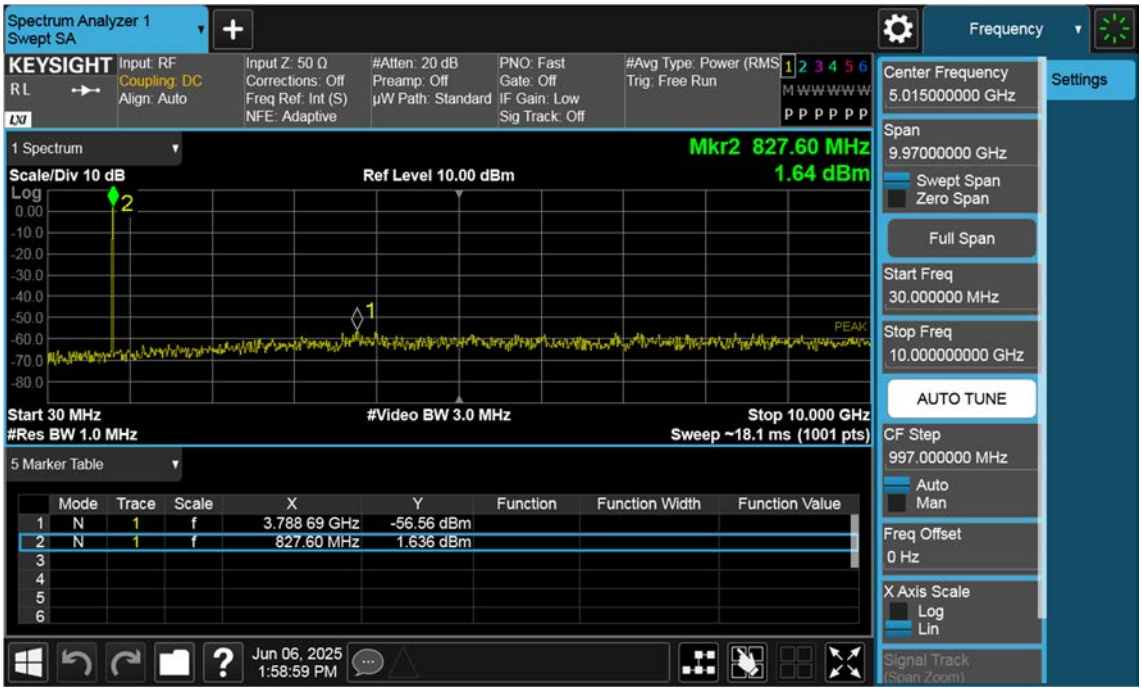
LTE B26_15 M_OBW_Mid_64QAM_FullRB

LTE B26_15 M_OBW_Mid_256QAM_FullRB

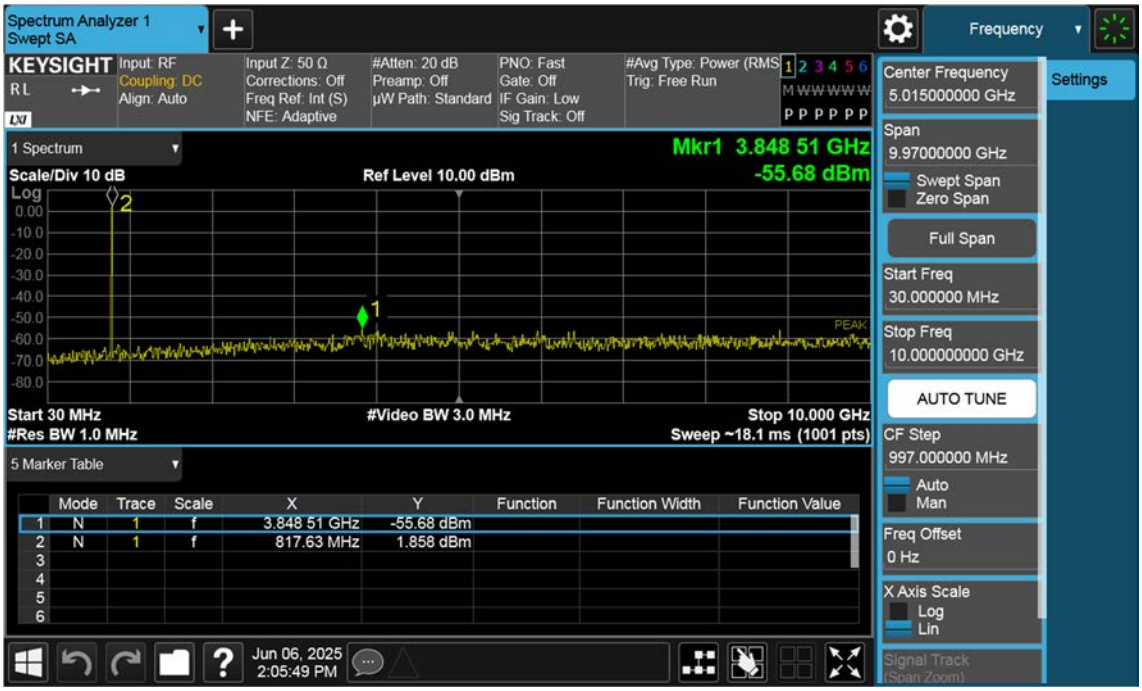
LTE B26_1.4M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



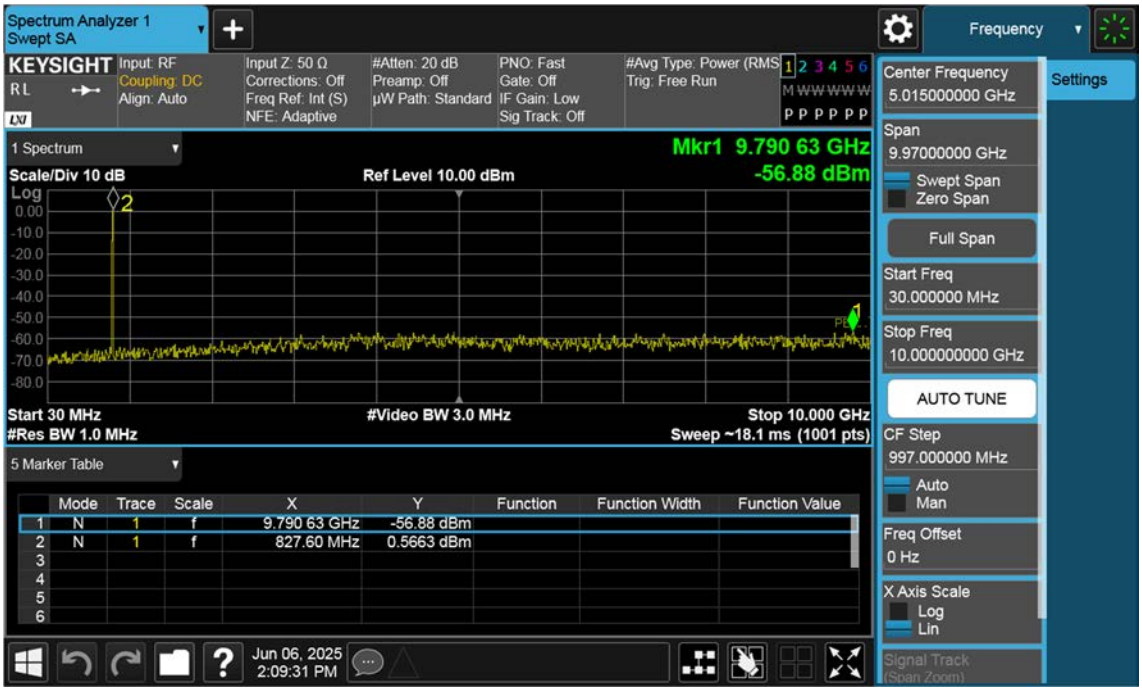
LTE B26_1.4M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



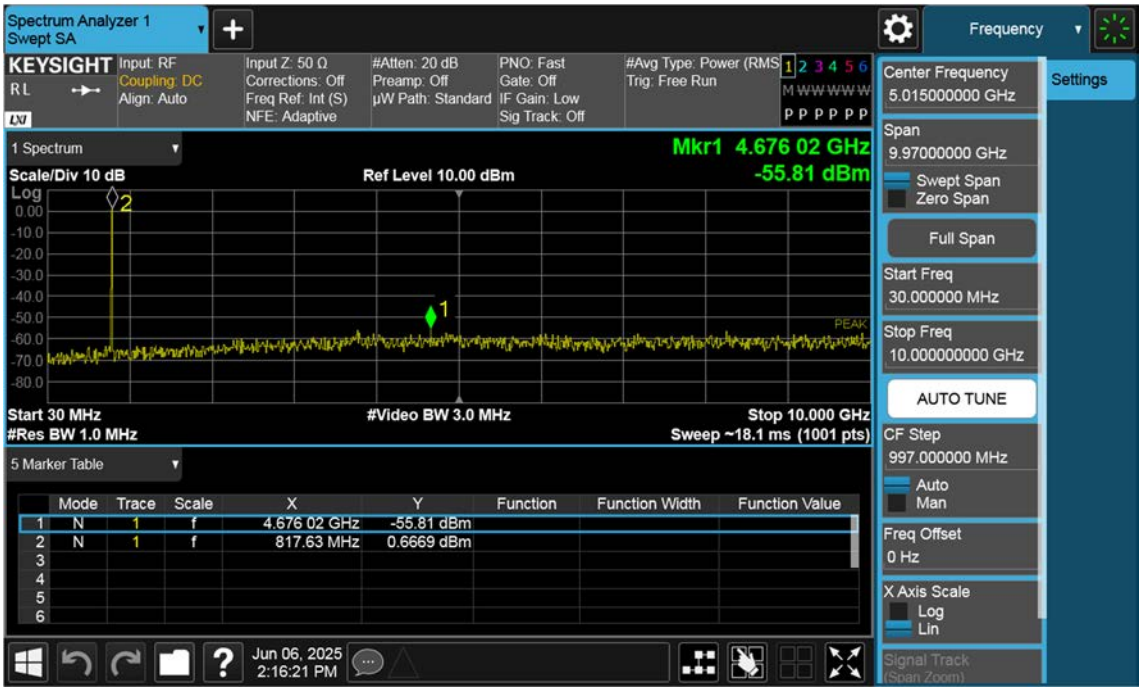
LTE B26_3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



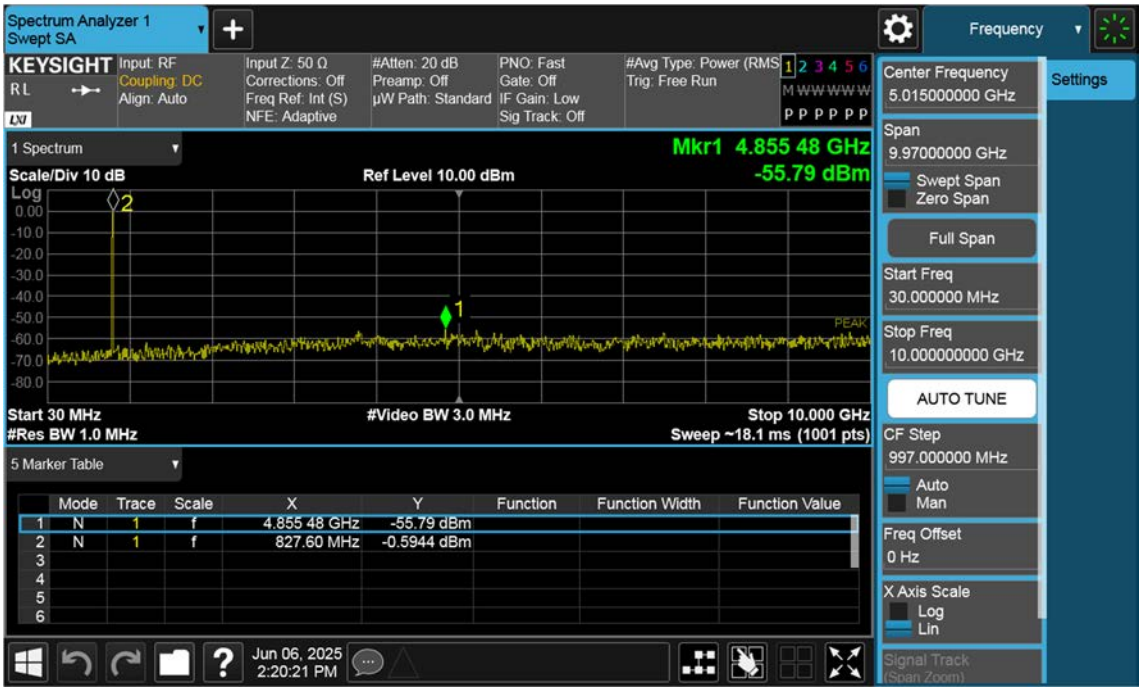
LTE B26_3 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



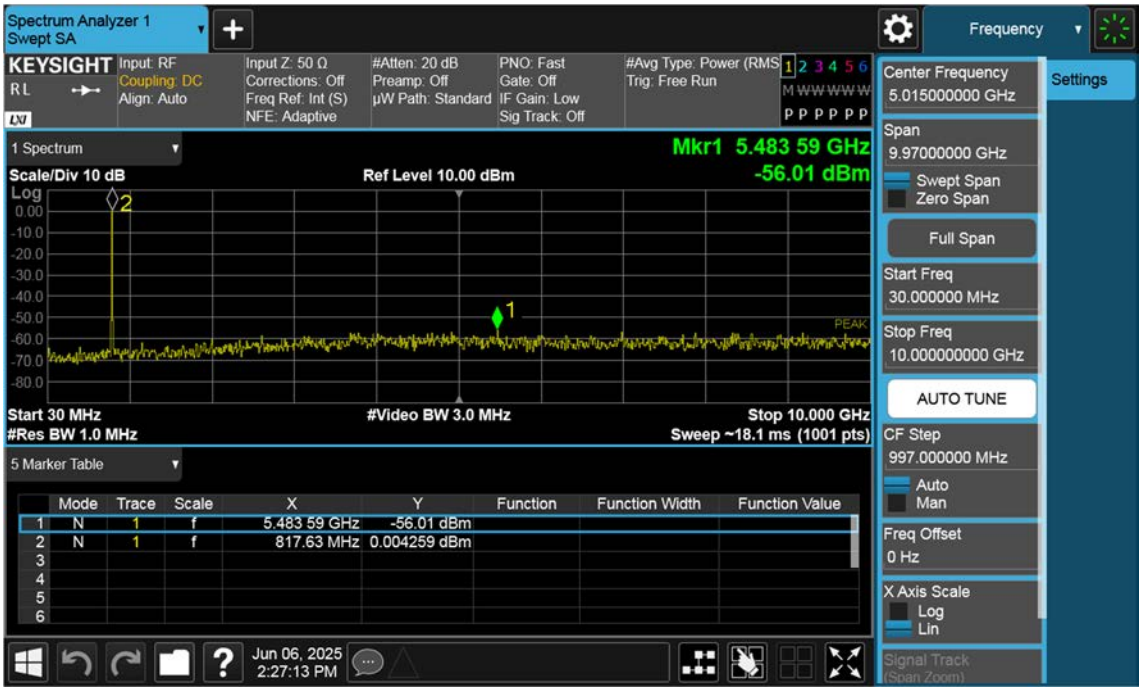
LTE B26_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



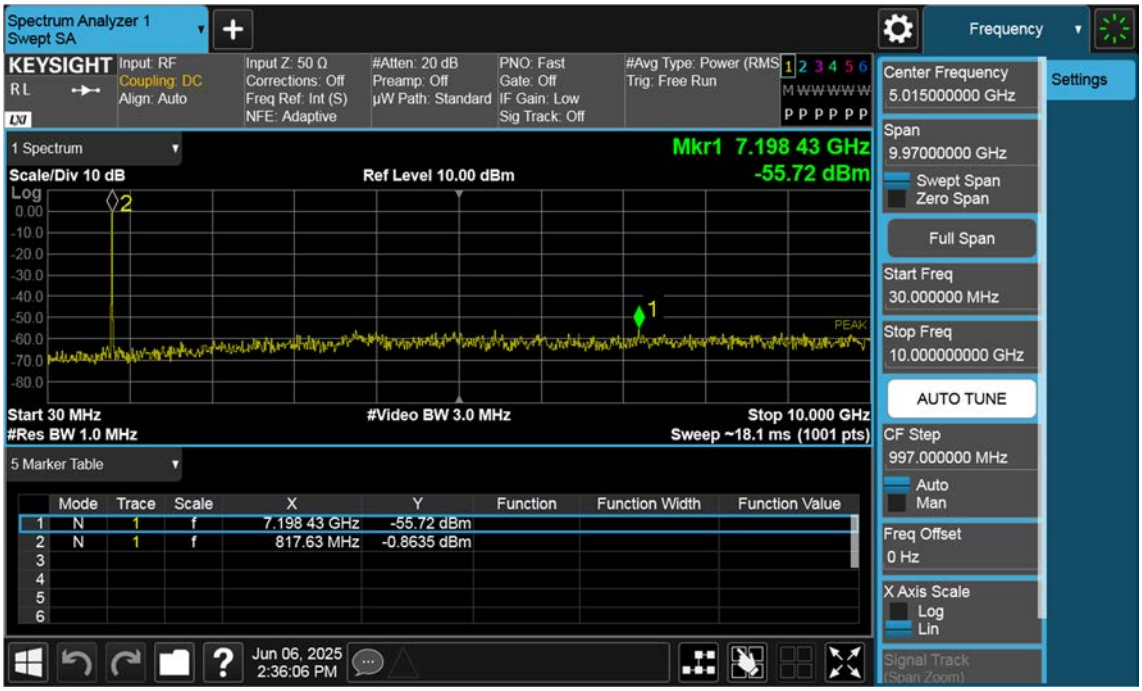
LTE B26_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



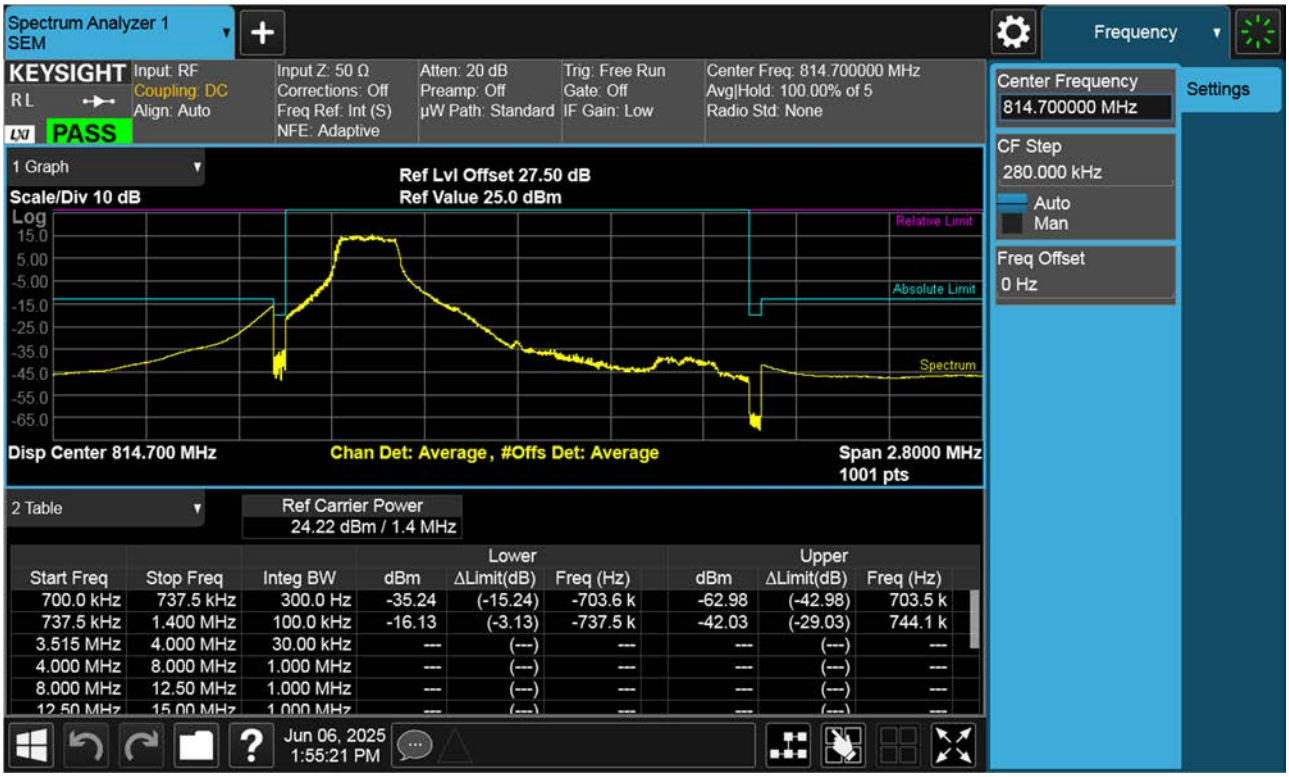
LTE B26_10 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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



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

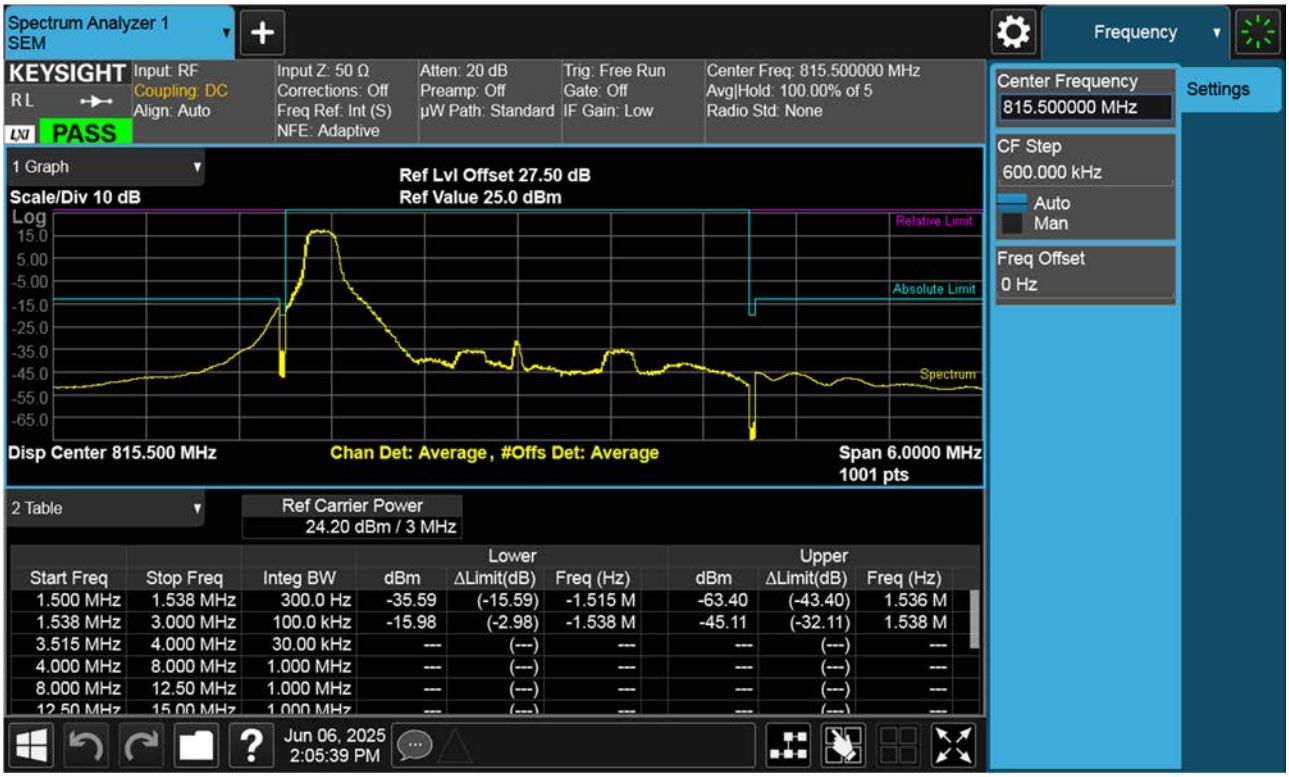


			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
700.0 kHz	737.5 kHz	300.0 Hz	-35.24	(-15.24)	-703.6 k	-62.98	(-42.98)	703.5 k
737.5 kHz	1.400 MHz	100.0 kHz	-16.13	(-3.13)	-737.5 k	-42.03	(-29.03)	744.1 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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

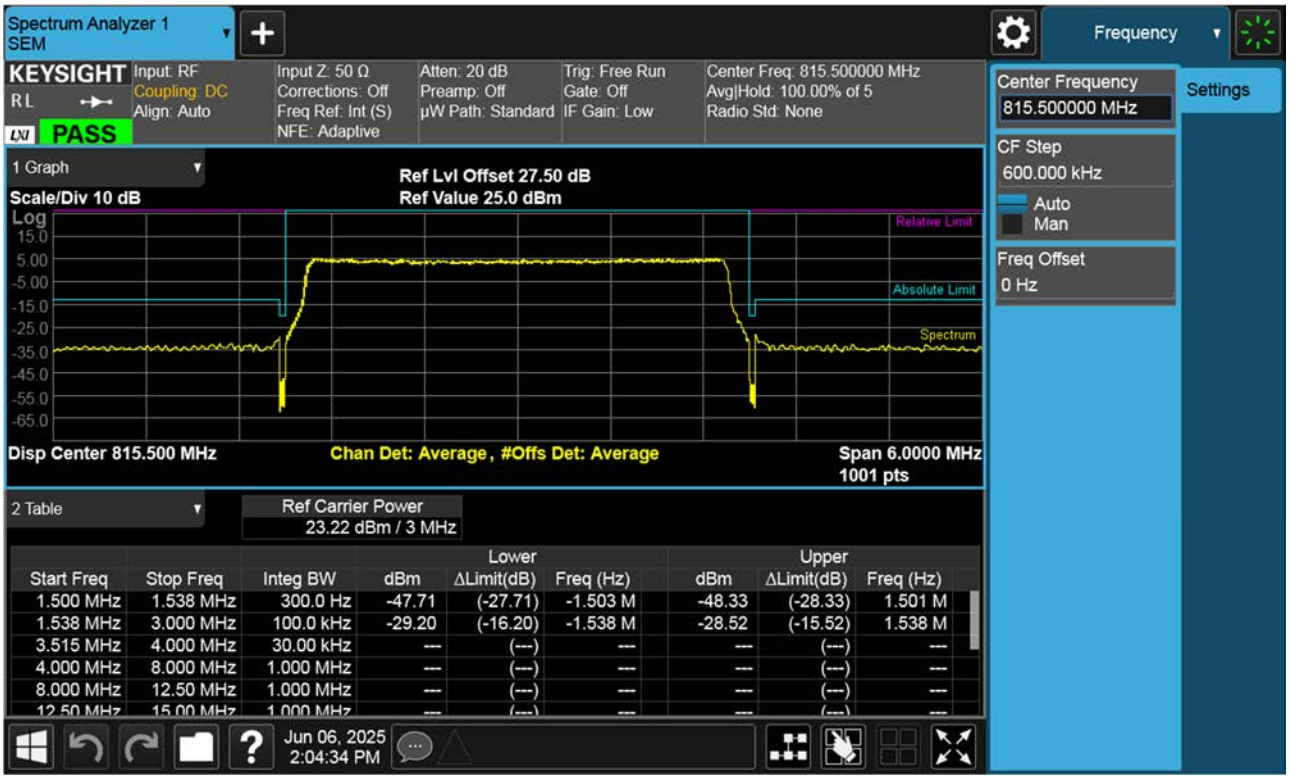
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
700.0 kHz	737.5 kHz	300.0 Hz	-44.09	(-24.09)	-708.1 k	-44.87	(-24.87)	702.3 k
737.5 kHz	1.400 MHz	100.0 kHz	-25.48	(-12.48)	-737.5 k	-25.20	(-12.20)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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

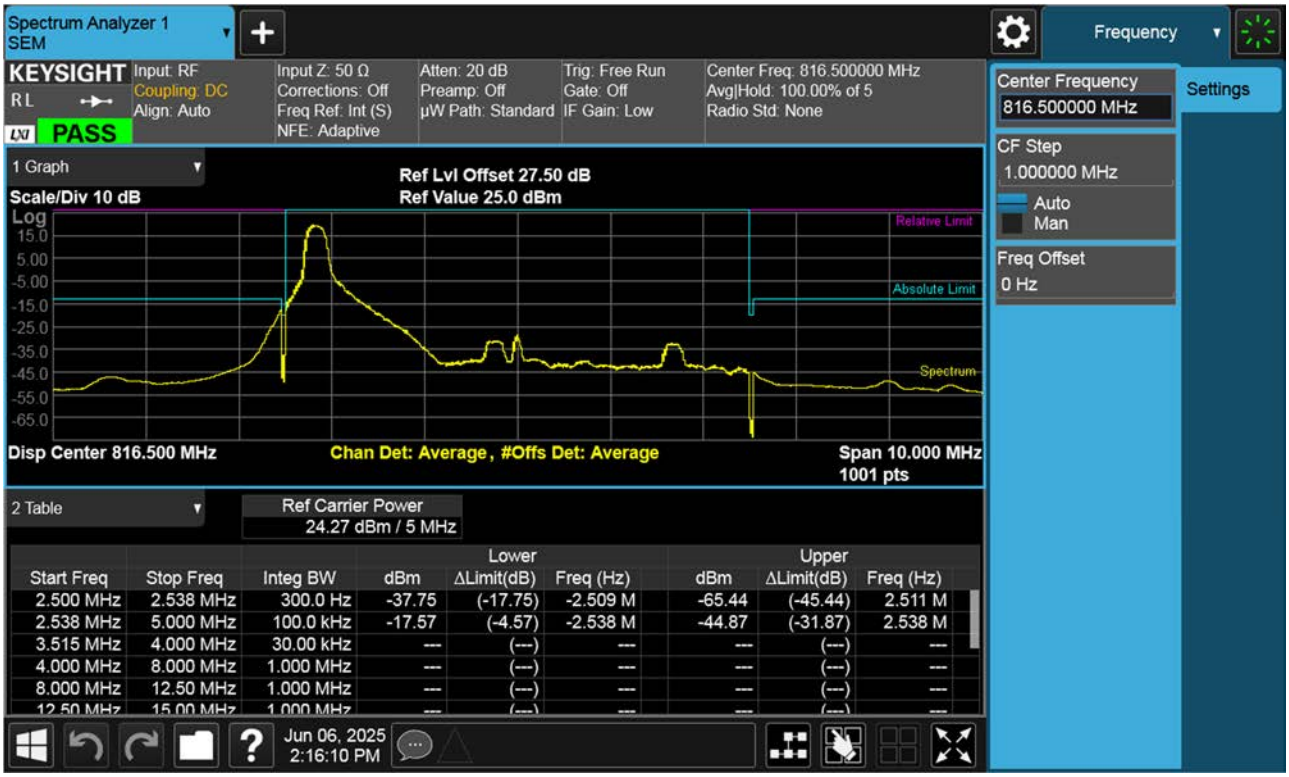


			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-35.59	(-15.59)	-1.515 M	-63.40	(-43.40)	1.536 M
1.538 MHz	3.000 MHz	100.0 kHz	-15.98	(-2.98)	-1.538 M	-45.11	(-32.11)	1.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Lower Channel Edge Plot (3 M BW Ch.26705 QPSK_RB15_Offset 0)

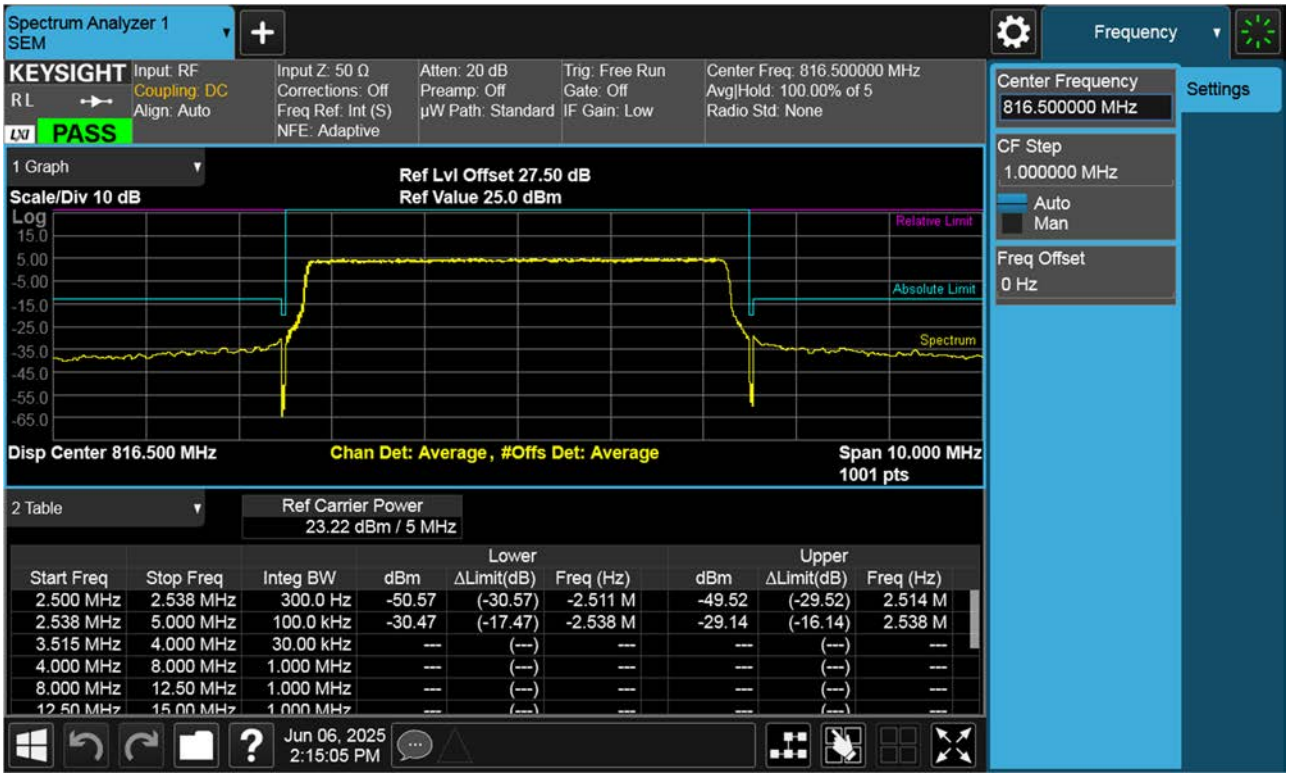


LTE B26_ Lower Channel Edge Plot (5 M BW Ch.26715 QPSK RB 1, Offset 0)

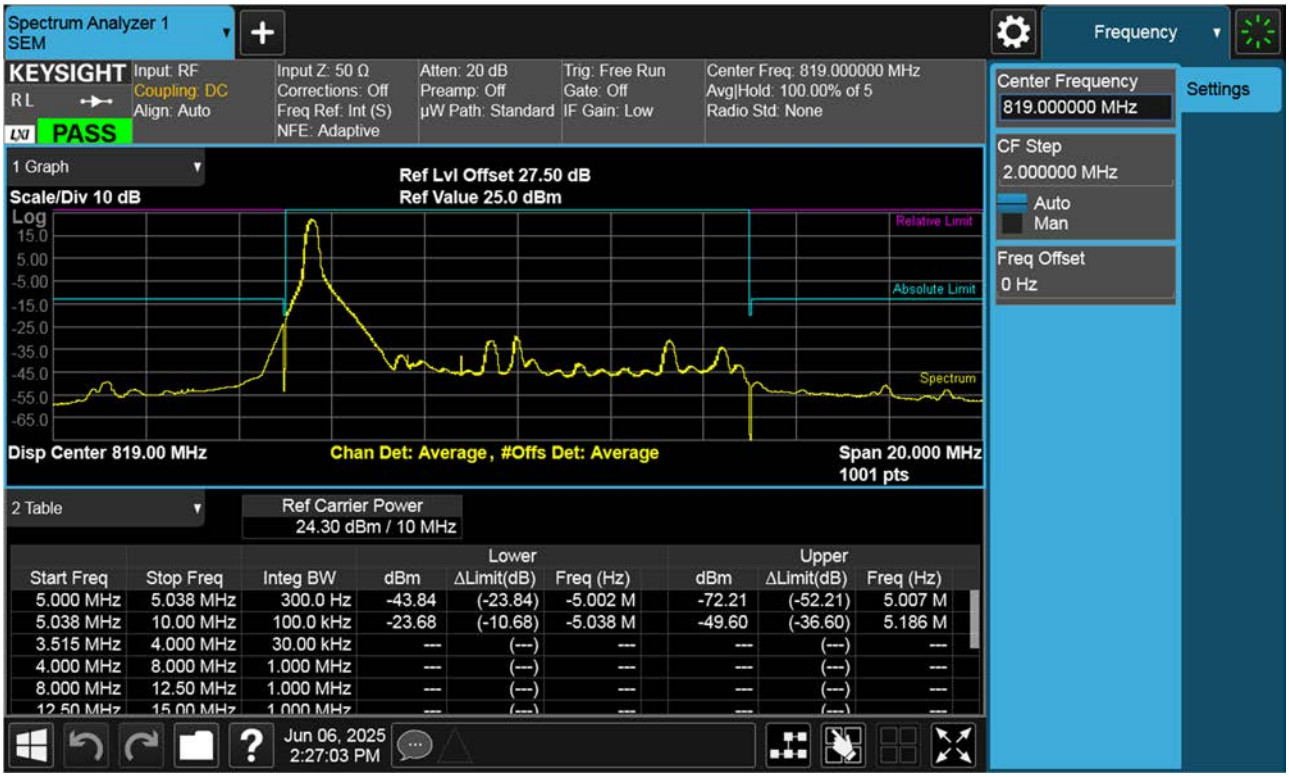


			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
2.500 MHz	2.538 MHz	300.0 Hz	-37.75	(-17.75)	-2.509 M	-65.44	(-45.44)	2.511 M
2.538 MHz	5.000 MHz	100.0 kHz	-17.57	(-4.57)	-2.538 M	-44.87	(-31.87)	2.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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

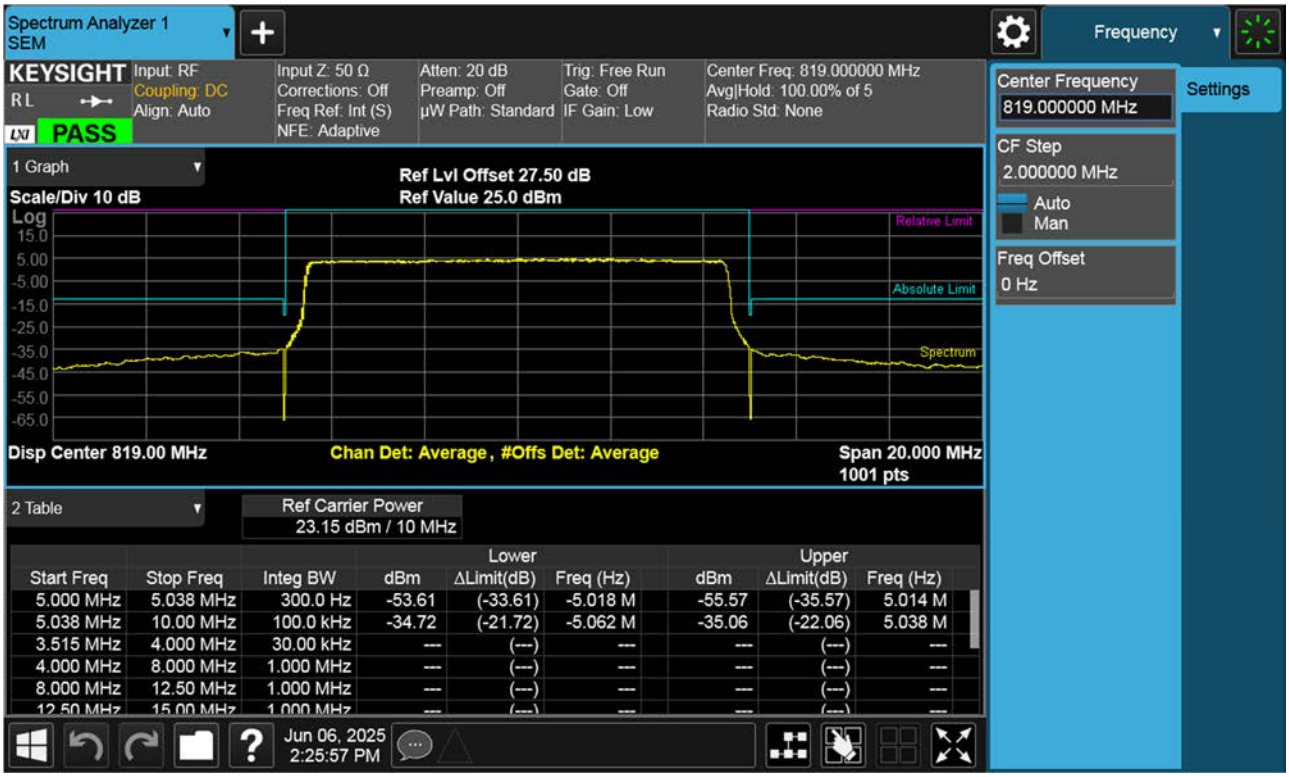


LTE B26_ Low Channel Edge Plot (10 M BW Ch.26740 QPSK RB 1, Offset 0)



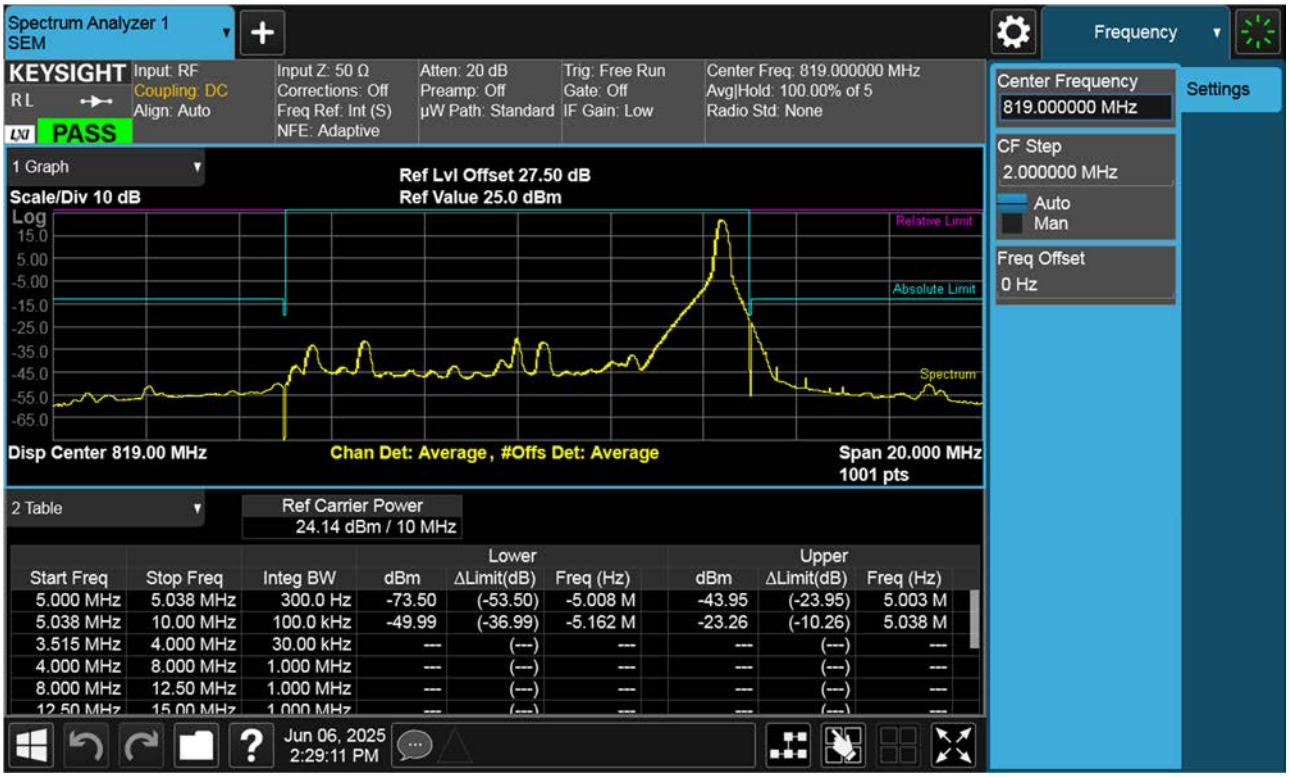
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
5.000 MHz	5.038 MHz	300.0 Hz	-43.84	(-23.84)	-5.002 M	-72.21	(-52.21)	5.007 M
5.038 MHz	10.00 MHz	100.0 kHz	-23.68	(-10.68)	-5.038 M	-49.60	(-36.60)	5.186 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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



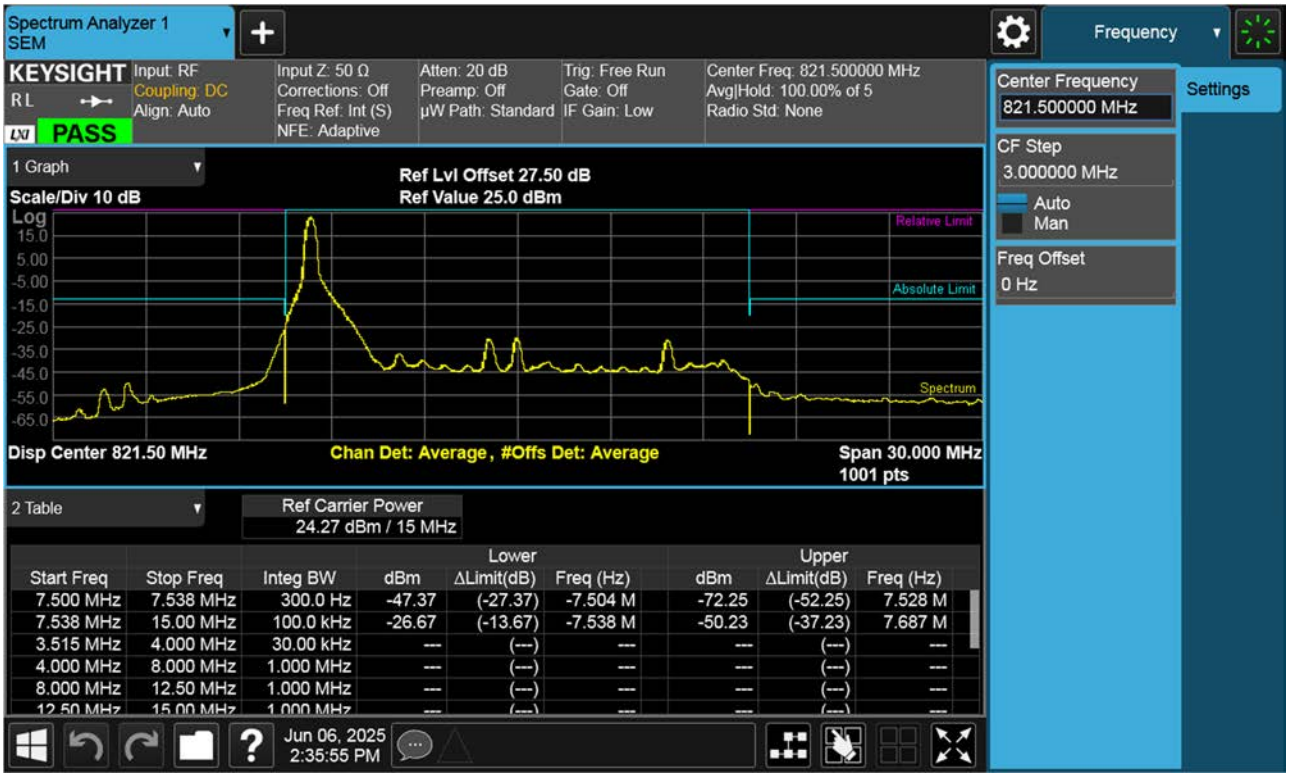
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
5.000 MHz	5.038 MHz	300.0 Hz	-53.61	(-33.61)	-5.018 M	-55.57	(-35.57)	5.014 M
5.038 MHz	10.00 MHz	100.0 kHz	-34.72	(-21.72)	-5.062 M	-35.06	(-22.06)	5.038 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Mid Channel Edge Plot (10 M BW Ch. 26740 QPSK_RB1_Offset 49)



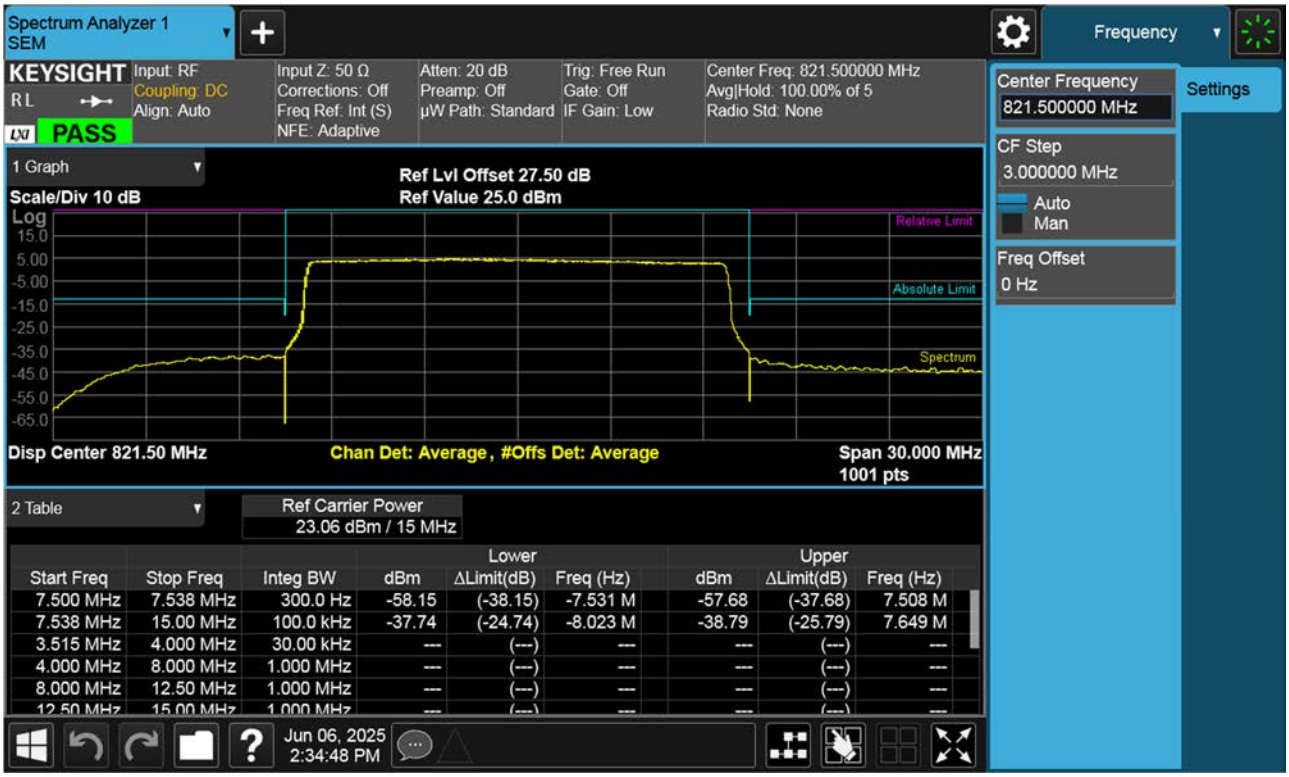
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
5.000 MHz	5.038 MHz	300.0 Hz	-73.50	(-53.50)	-5.008 M	-43.95	(-23.95)	5.003 M
5.038 MHz	10.00 MHz	100.0 kHz	-49.99	(-36.99)	-5.162 M	-23.26	(-10.26)	5.038 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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



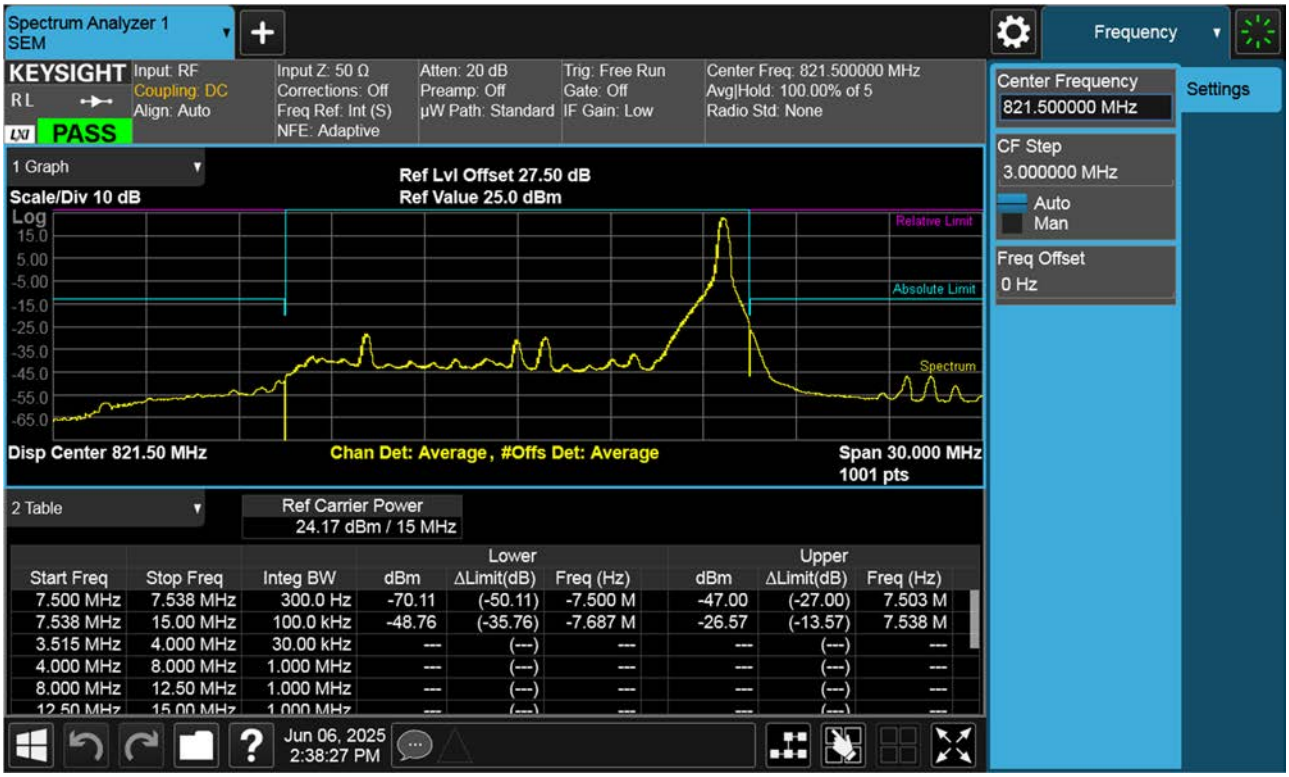
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
7.500 MHz	7.538 MHz	300.0 Hz	-47.37	(-27.37)	-7.504 M	-72.25	(-52.25)	7.528 M
7.538 MHz	15.00 MHz	100.0 kHz	-26.67	(-13.67)	-7.538 M	-50.23	(-37.23)	7.687 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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



			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
7.500 MHz	7.538 MHz	300.0 Hz	-58.15	(-38.15)	-7.531 M	-57.68	(-37.68)	7.508 M
7.538 MHz	15.00 MHz	100.0 kHz	-37.74	(-24.74)	-8.023 M	-38.79	(-25.79)	7.649 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	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

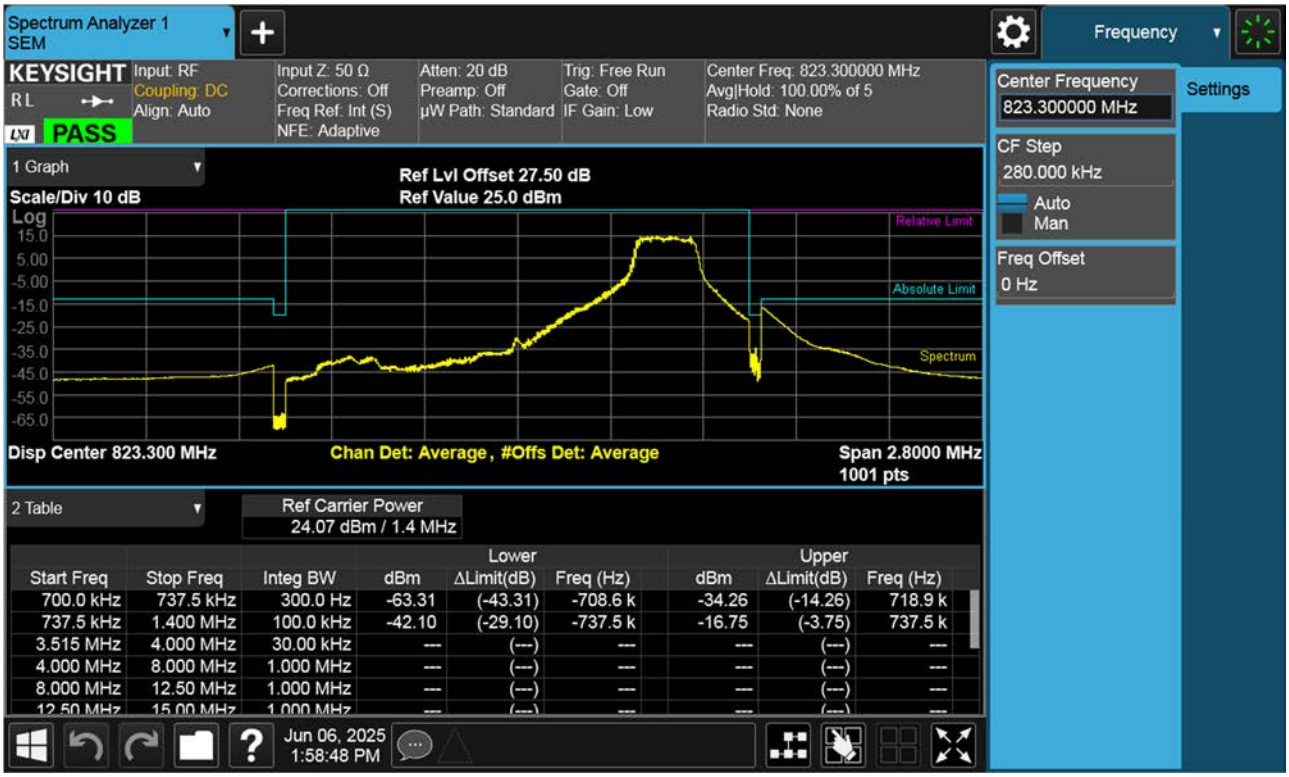
LTE B26_ Mid Channel Edge Plot (15 M BW Ch.26765 QPSK_RB1_Offset 74)



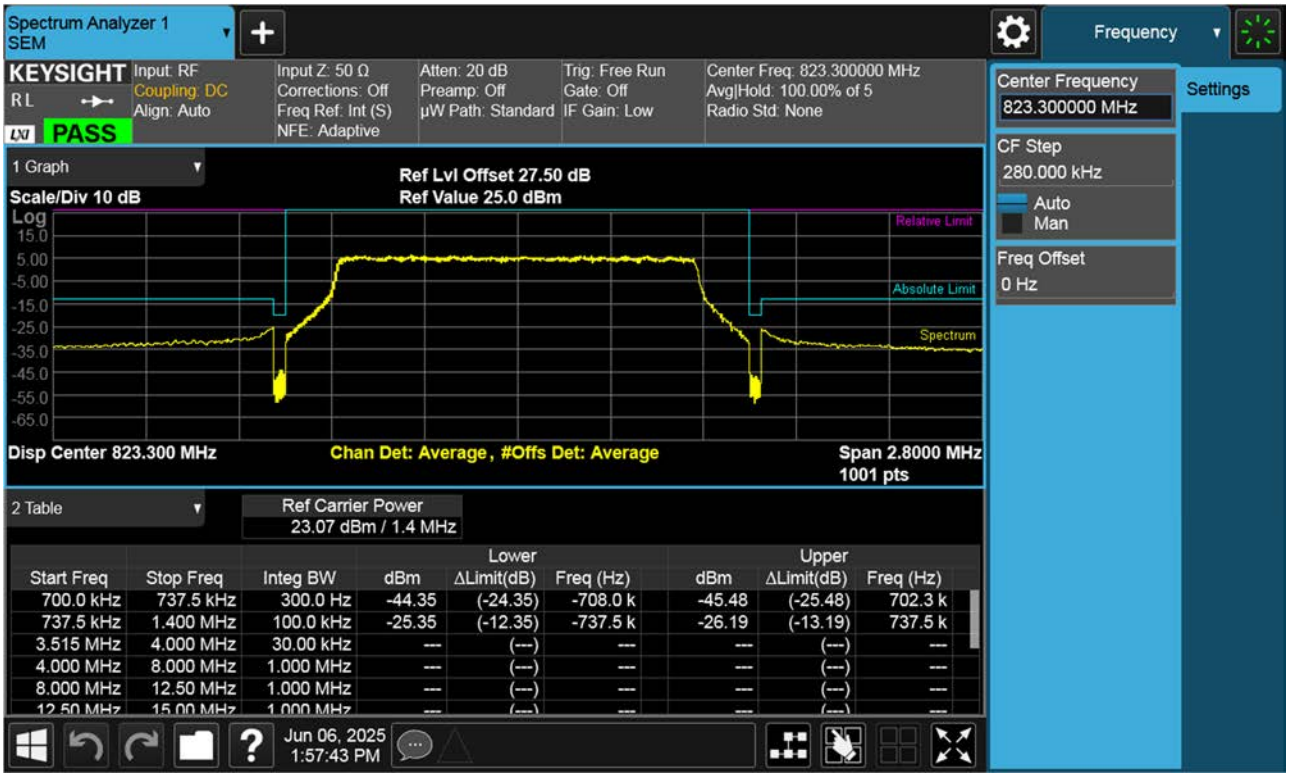
LTE B26_ Mid Band Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset74)

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

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

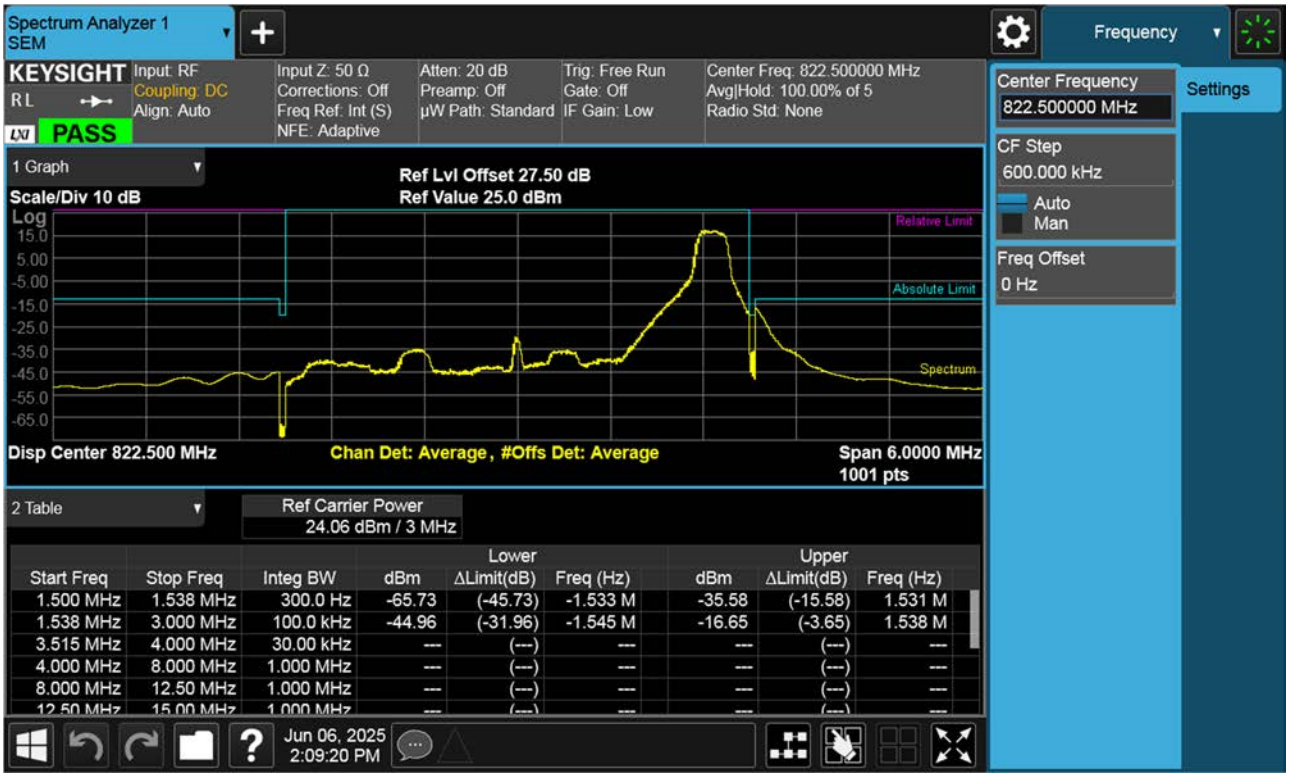


LTE B26_ Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB6_Offset 0)



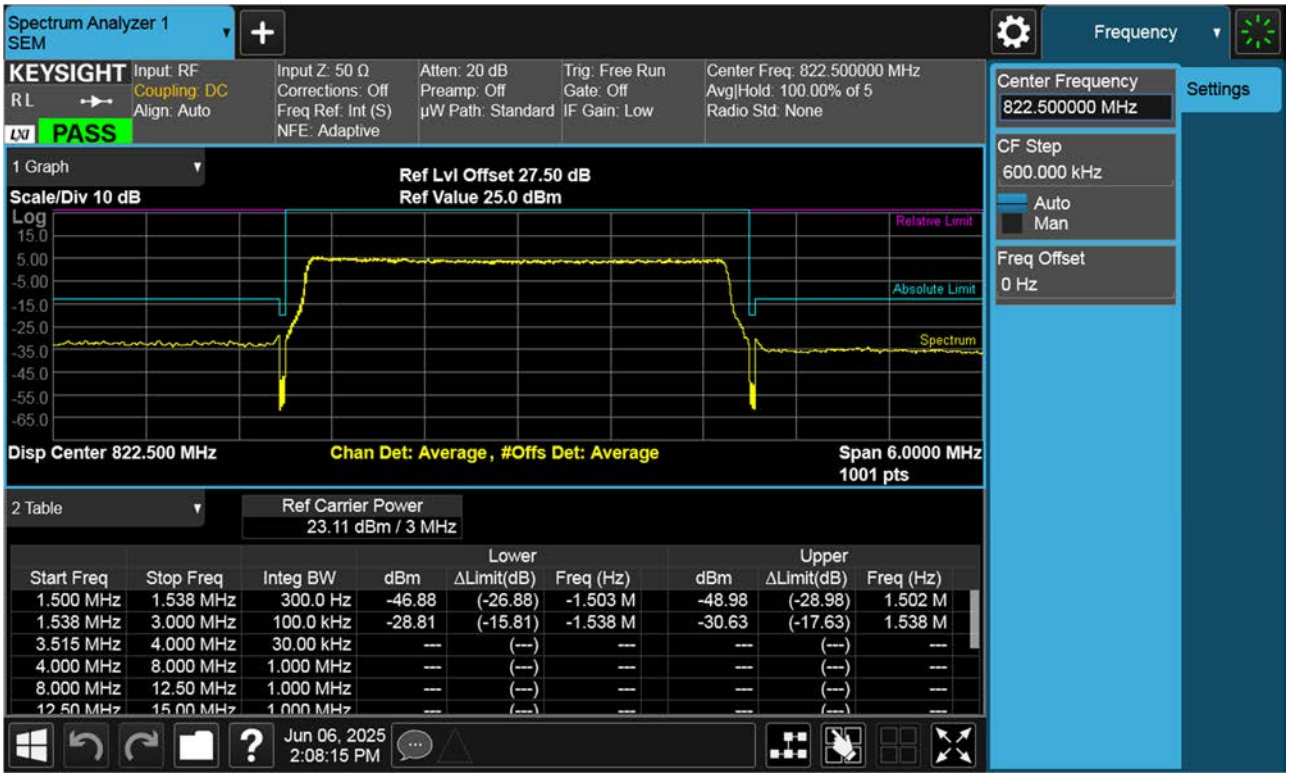
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
700.0 kHz	737.5 kHz	300.0 Hz	-44.35	(-24.35)	-708.0 k	-45.48	(-25.48)	702.3 k
737.5 kHz	1.400 MHz	100.0 kHz	-25.35	(-12.35)	-737.5 k	-26.19	(-13.19)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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



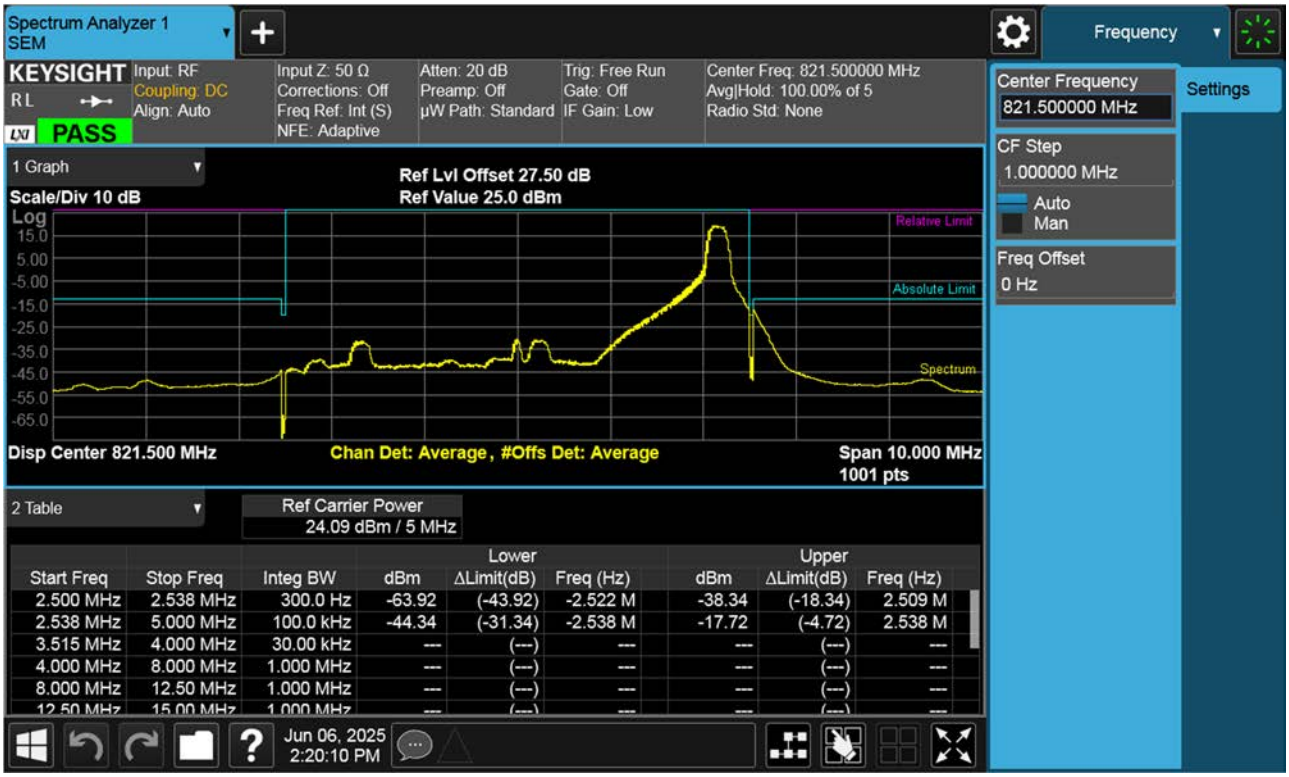
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-65.73	(-45.73)	-1.533 M	-35.58	(-15.58)	1.531 M
1.538 MHz	3.000 MHz	100.0 kHz	-44.96	(-31.96)	-1.545 M	-16.65	(-3.65)	1.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Upper Channel Edge Plot (3 M BW Ch.26775 QPSK_RB15_Offset 0)



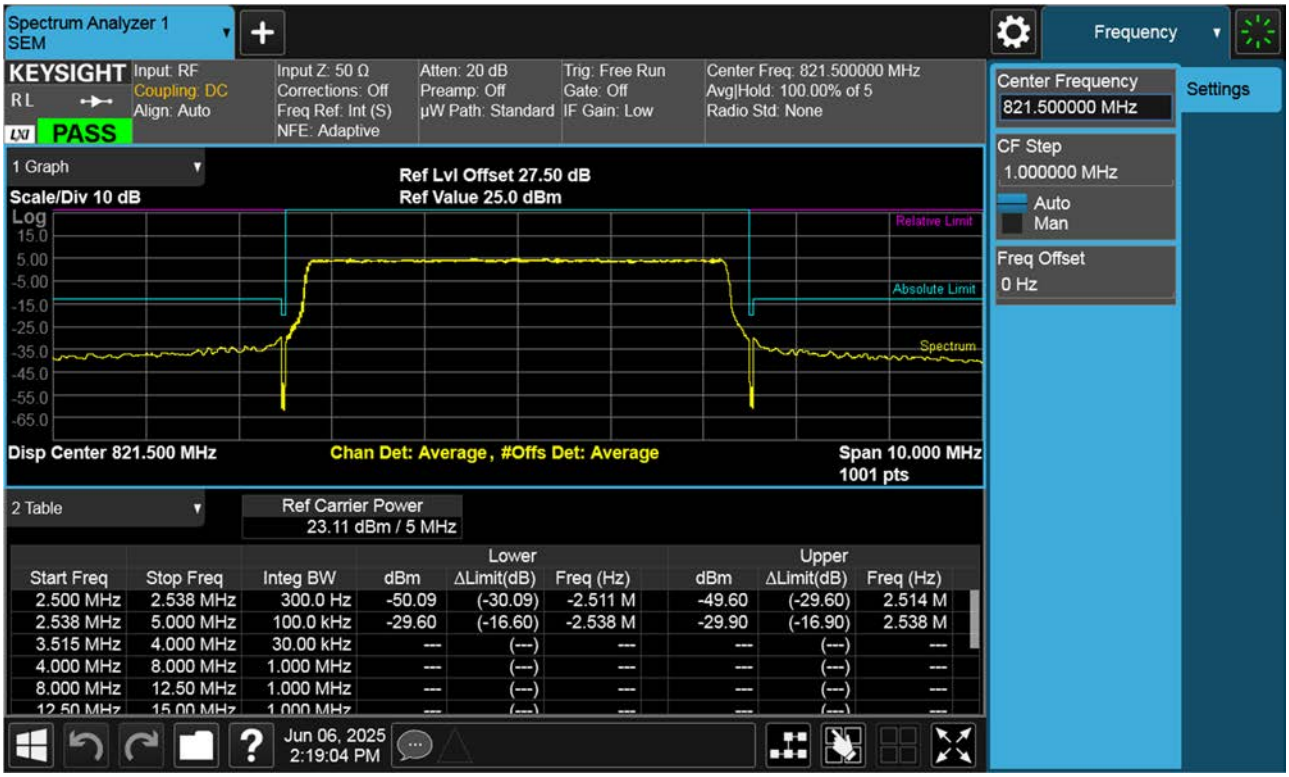
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-46.88	(-26.88)	-1.503 M	-48.98	(-28.98)	1.502 M
1.538 MHz	3.000 MHz	100.0 kHz	-28.81	(-15.81)	-1.538 M	-30.63	(-17.63)	1.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB1_Offset 24)



			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
2.500 MHz	2.538 MHz	300.0 Hz	-63.92	(-43.92)	-2.522 M	-38.34	(-18.34)	2.509 M
2.538 MHz	5.000 MHz	100.0 kHz	-44.34	(-31.34)	-2.538 M	-17.72	(-4.72)	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	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

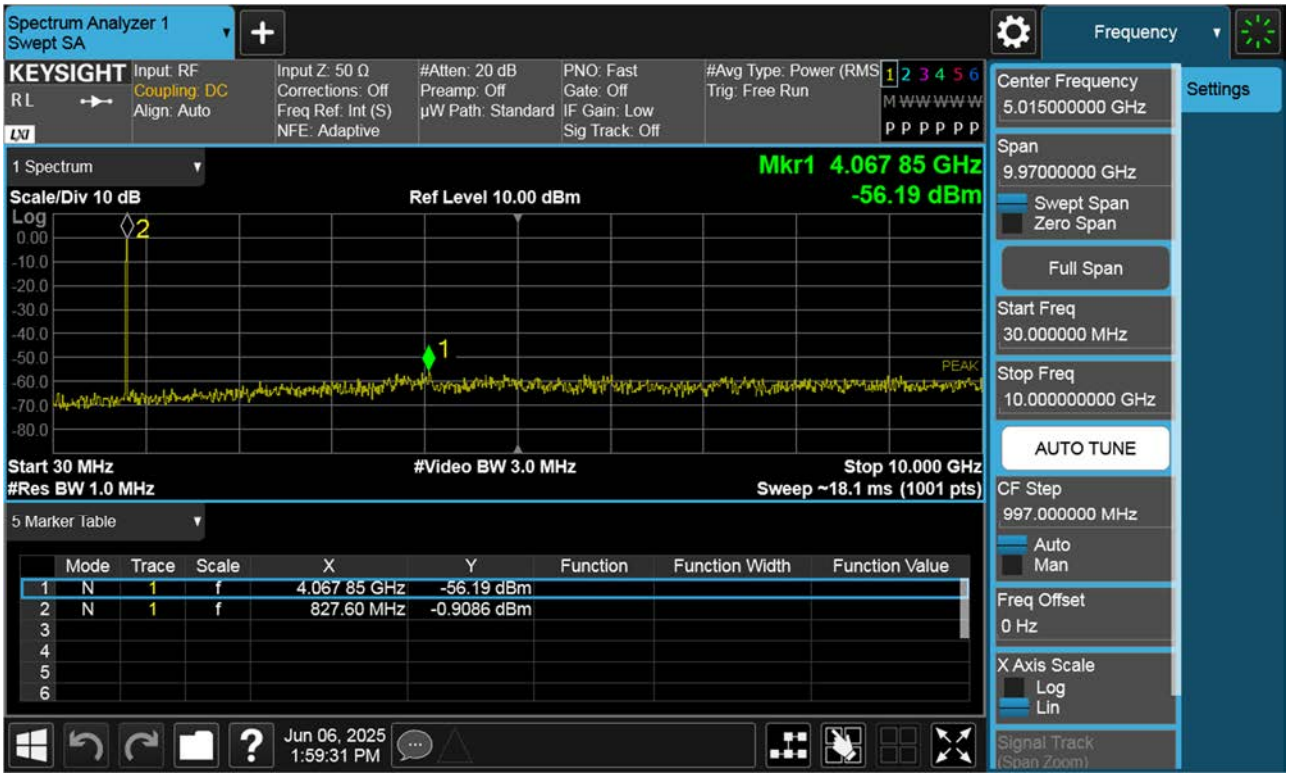
LTE B26_ Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB25_Offset 0)



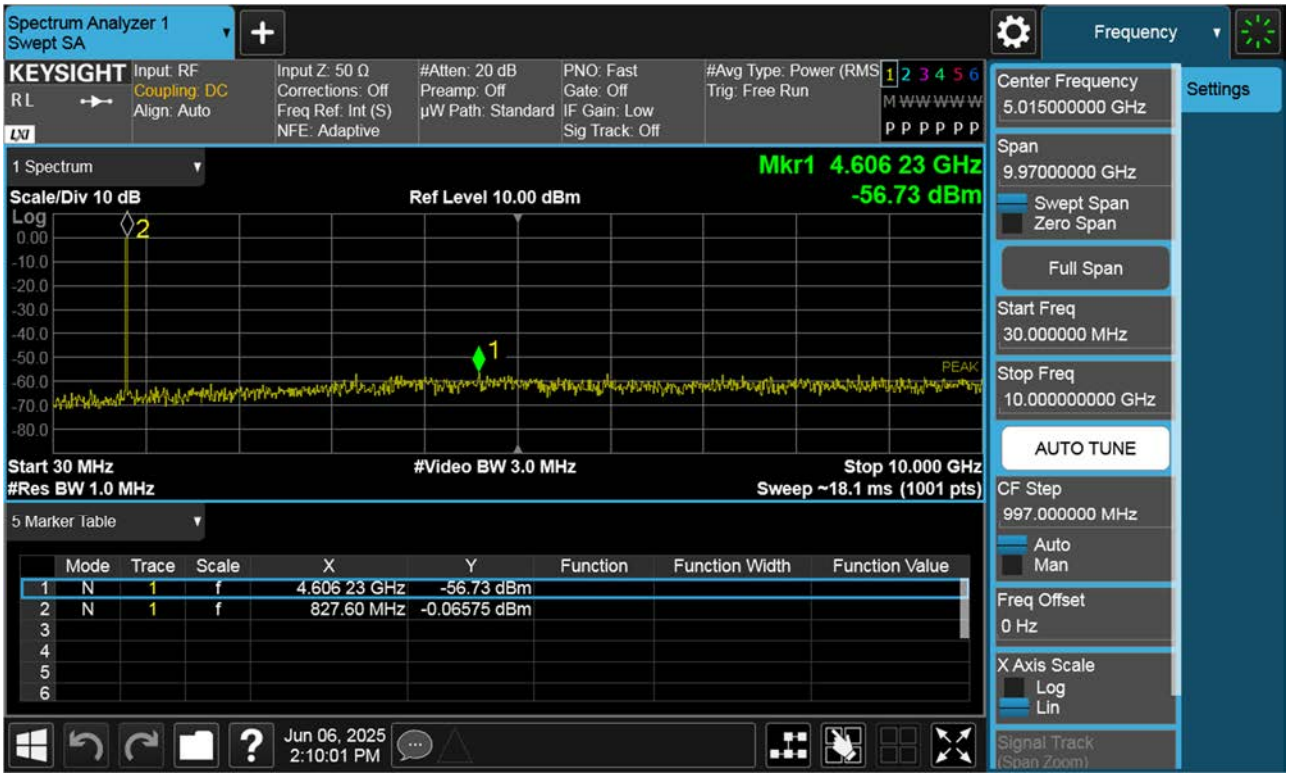
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
2.500 MHz	2.538 MHz	300.0 Hz	-50.09	(-30.09)	-2.511 M	-49.60	(-29.60)	2.514 M
2.538 MHz	5.000 MHz	100.0 kHz	-29.60	(-16.60)	-2.538 M	-29.90	(-16.90)	2.538 M
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

11. TEST PLOTS (STRADDLE CHANNEL)

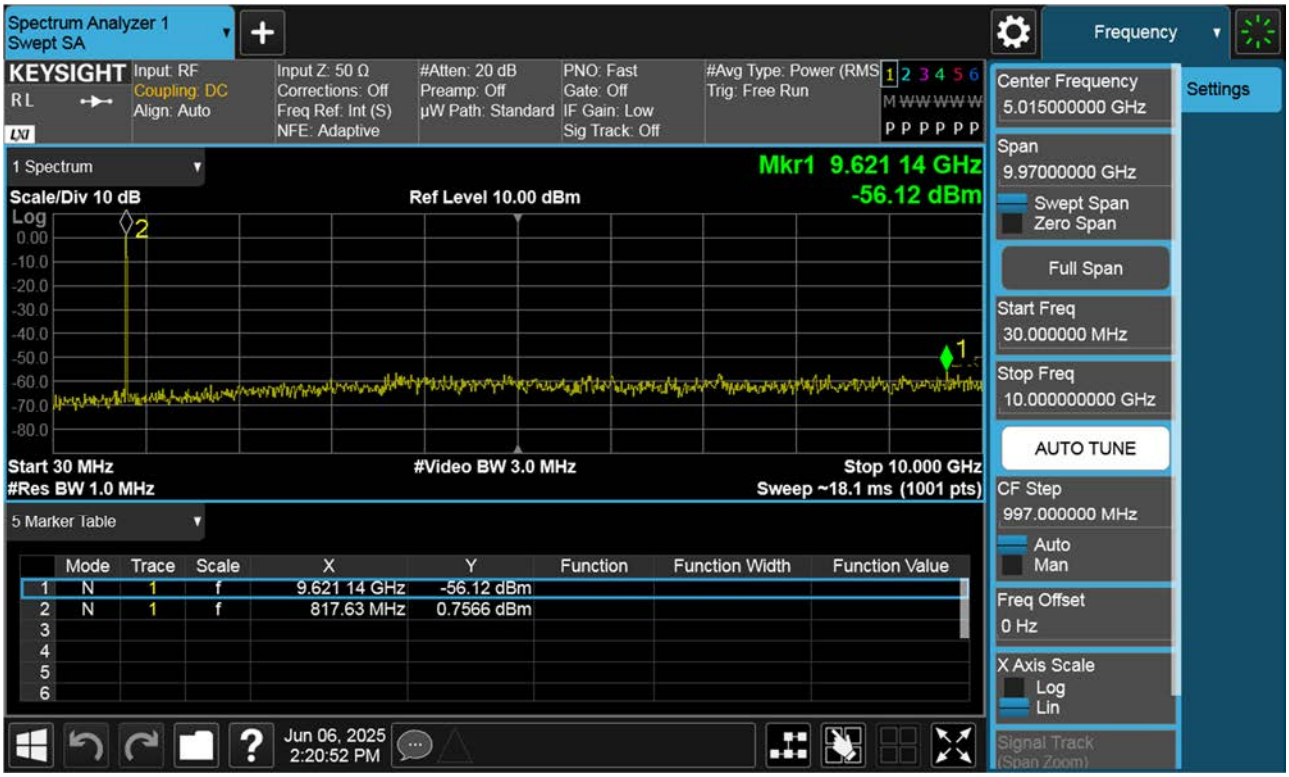
LTE B26_ Conducted Spurious (1.4 MHz_QPSK_RB 1_0)



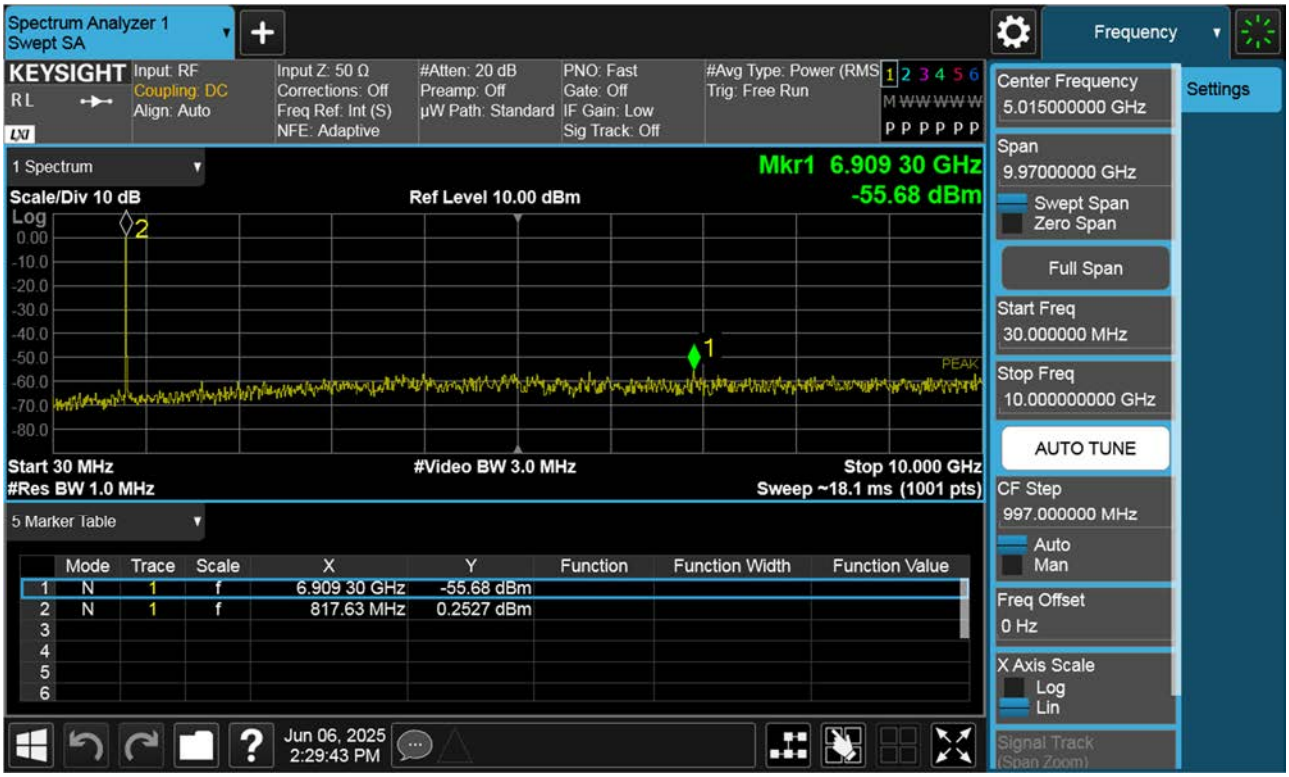
LTE B26_ Conducted Spurious (3 MHz_QPSK_RB 1_0)



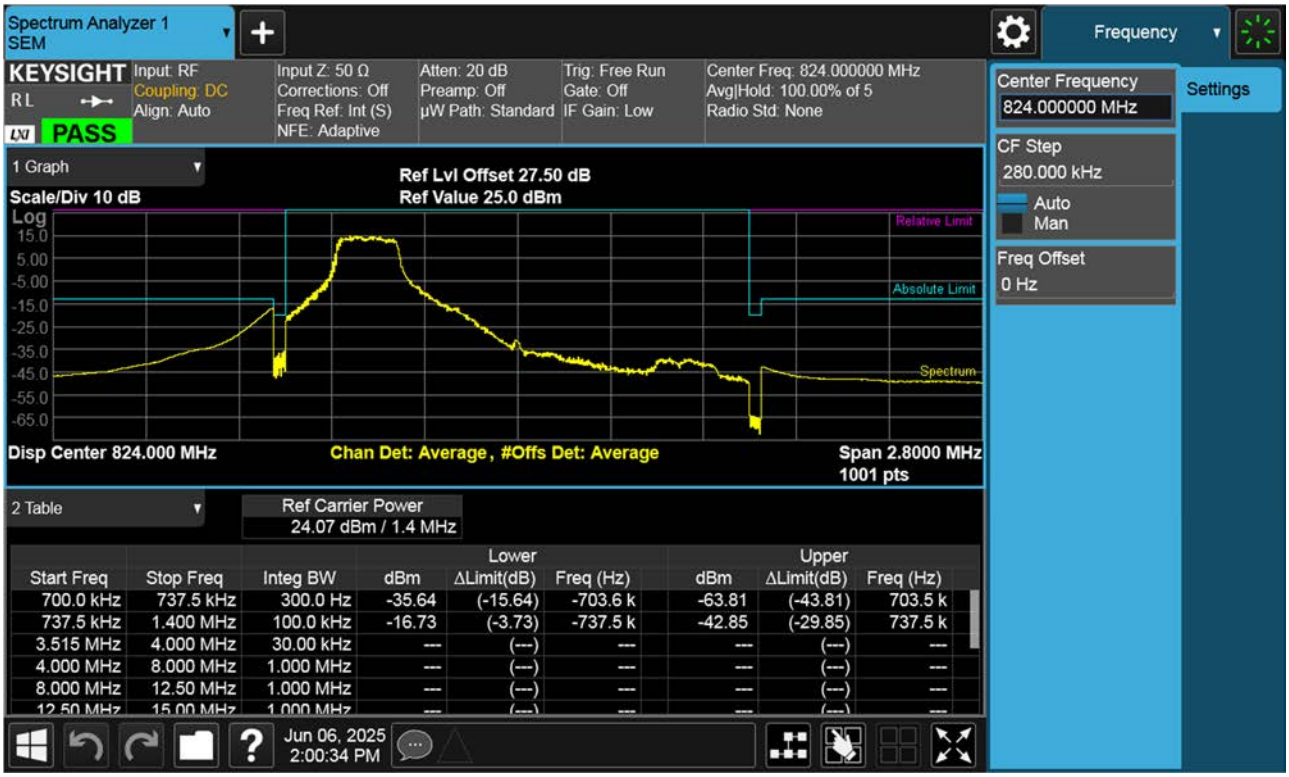
LTE B26_ Conducted Spurious (5 MHz_QPSK_RB 1_0)



LTE B26_ Conducted Spurious (10 MHz_QPSK_RB 1_0)



LTE B26_ Channel Edge (1.4 MHz_QPSK_RB 1_0)

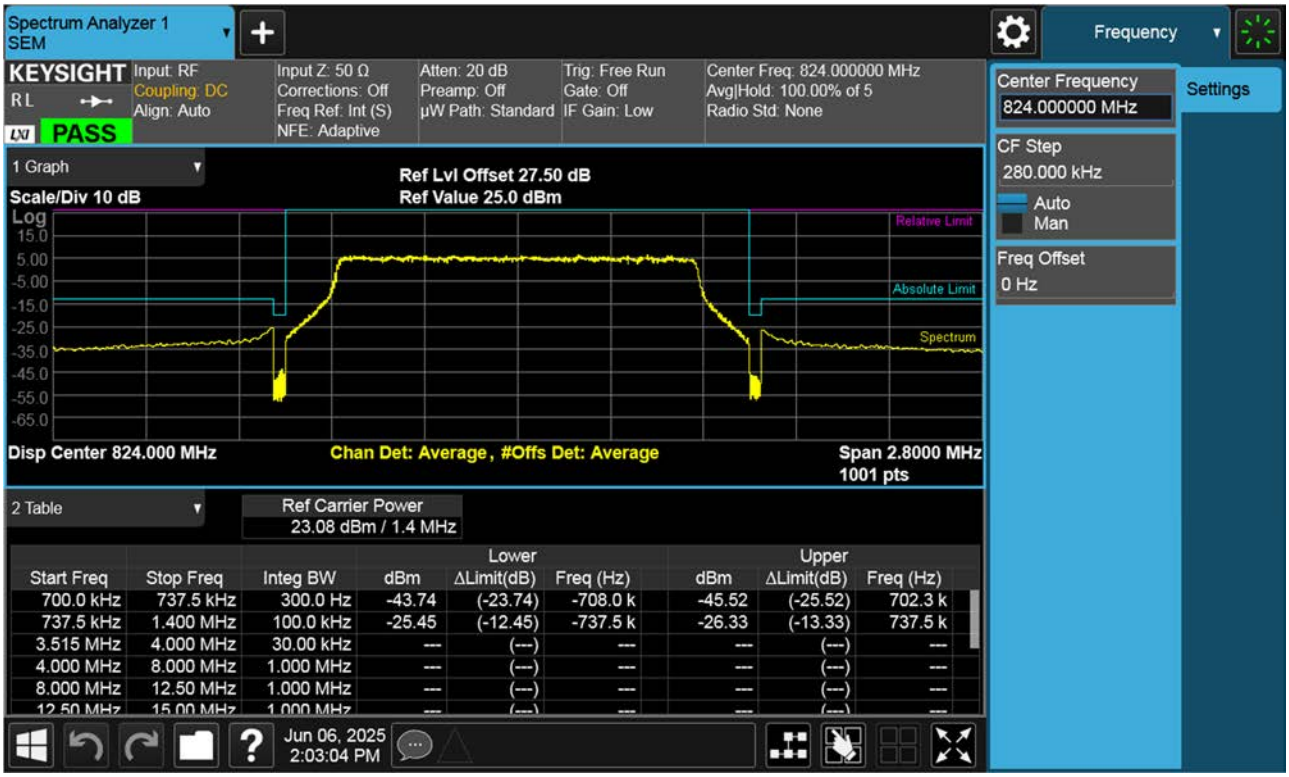


			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
700.0 kHz	737.5 kHz	300.0 Hz	-35.64	(-15.64)	-703.6 k	-63.81	(-43.81)	703.5 k
737.5 kHz	1.400 MHz	100.0 kHz	-16.73	(-3.73)	-737.5 k	-42.85	(-29.85)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Channel Edge (1.4 MHz_QPSK_RB 1_5)

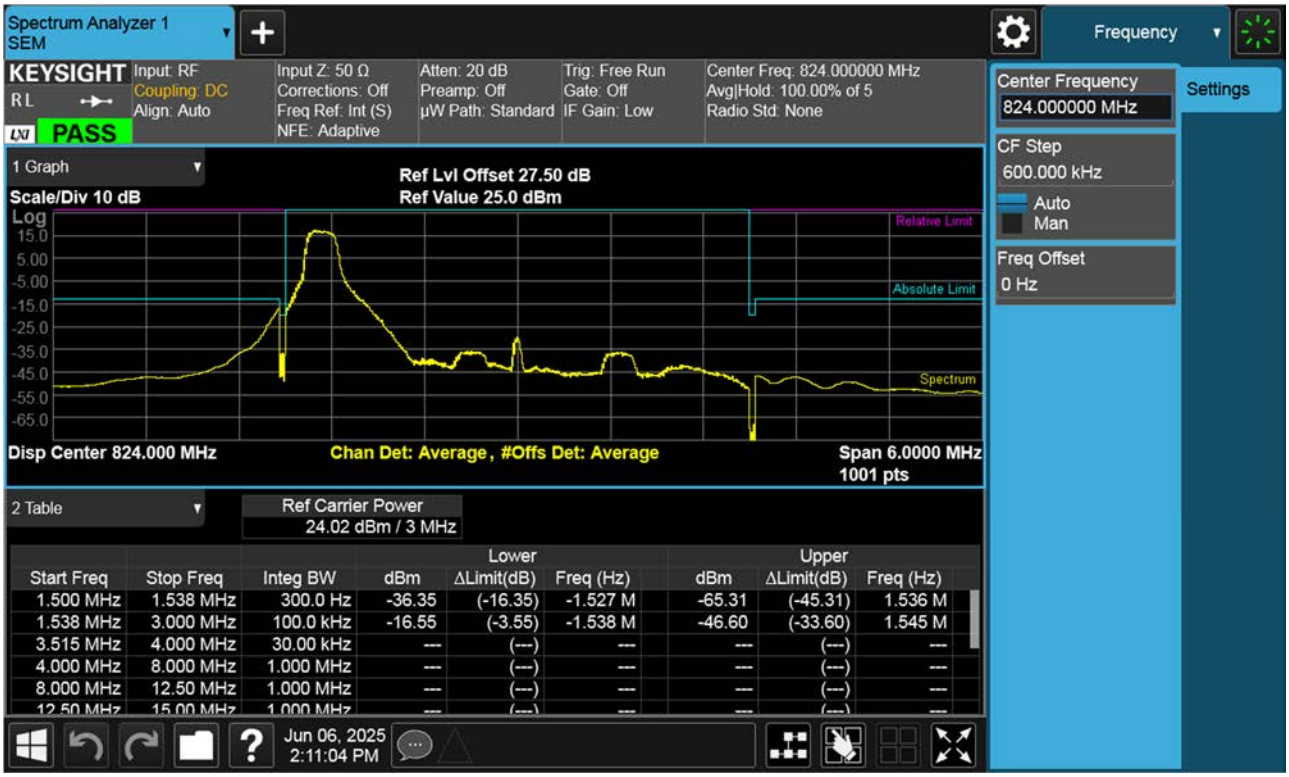
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
700.0 kHz	737.5 kHz	300.0 Hz	-62.23	(-42.23)	-708.6 k	-34.57	(-14.57)	718.9 k
737.5 kHz	1.400 MHz	100.0 kHz	-41.99	(-28.99)	-740.8 k	-16.59	(-3.59)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Channel Edge (1.4 MHz_QPSK_Full RB)



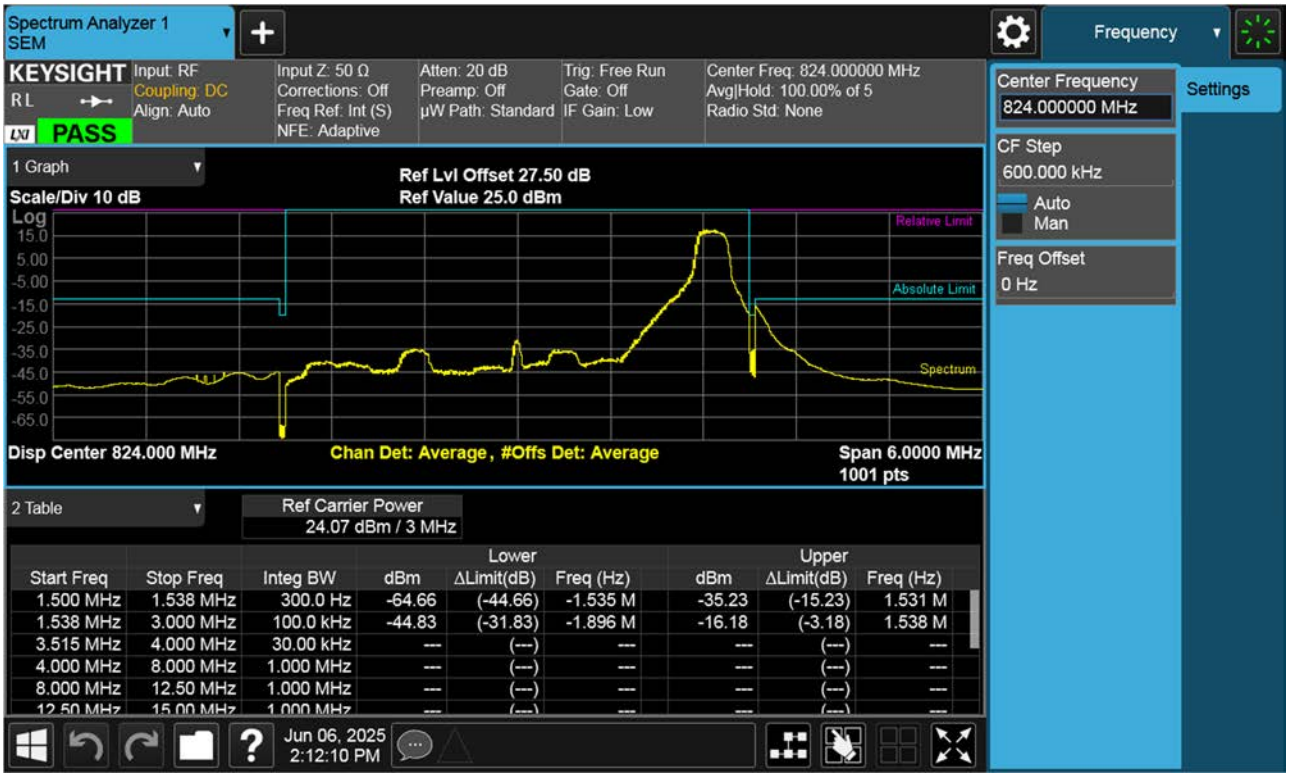
			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
700.0 kHz	737.5 kHz	300.0 Hz	-43.74	(-23.74)	-708.0 k	-45.52	(-25.52)	702.3 k
737.5 kHz	1.400 MHz	100.0 kHz	-25.45	(-12.45)	-737.5 k	-26.33	(-13.33)	737.5 k
3.515 MHz	4.000 MHz	30.00 kHz	---	(---)	---	---	(---)	---
4.000 MHz	8.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Channel Edge (3 MHz_QPSK_RB 1_0)



			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-36.35	(-16.35)	-1.527 M	-65.31	(-45.31)	1.536 M
1.538 MHz	3.000 MHz	100.0 kHz	-16.55	(-3.55)	-1.538 M	-46.60	(-33.60)	1.545 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	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

LTE B26_ Channel Edge (3 MHz_QPSK_RB 1_14)



			Lower			Upper		
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)
1.500 MHz	1.538 MHz	300.0 Hz	-64.66	(-44.66)	-1.535 M	-35.23	(-15.23)	1.531 M
1.538 MHz	3.000 MHz	100.0 kHz	-44.83	(-31.83)	-1.896 M	-16.18	(-3.18)	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	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---