

TEST REPORT

FCC LTE B26(Part90) Test for SM-F766U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2504-FC011-R1

DATE OF ISSUE
May 23, 2025

Tested by
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TEST REPORT

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Additional Model

SM-F766U1

Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Mobile Phone

Model Name

SM-F766U

Date of Test

February 24, 2025 ~ April 21, 2025

FCC ID

A3LSMF766U

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

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 22, 2025	Initial Release
1	May 23, 2025	Revised the Power Supply Voltage. (DC 3.88 V → DC 3.90 V)

Notice

Content

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C.853(a)

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMF766U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 90, § 22
EUT Type:	Mobile Phone
Model(s):	SM-F766U
Additional Model(s)	SM-F766U1
Tx Frequency:	814.7 MHz – 824.0 MHz (LTE – Band 26 (1.4 MHz)) 815.5 MHz – 824.0 MHz (LTE – Band 26 (3 MHz)) 816.5 MHz – 824.0 MHz (LTE – Band 26 (5 MHz)) 819.0 MHz – 824.0 MHz (LTE – Band 26 (10 MHz)) 821.5 MHz (LTE – Band 26 (15 MHz))
Date(s) of Tests:	February 24, 2025 ~ April 21, 2025
Serial number:	Radiated : R3CY209A7NT (Main 1 ANT), R3CY207MAGN (Sub 1 ANT) Conducted : R3CY209A7CH (Main 1 ANT), R3CY209A7FF (Sub 1 ANT)
Antenna Information	Please refer to the Antenna Specification document.

1.1 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	0.294	24.69
		1M09W7D	16QAM	0.245	23.89
		1M09W7D	64QAM	0.192	22.83
		1M09W7D	256QAM	0.094	19.75
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.299	24.76
		2M71W7D	16QAM	0.255	24.06
		2M70W7D	64QAM	0.191	22.80
		2M71W7D	256QAM	0.097	19.85
LTE – Band26 (5)	816.5 – 824.0	4M54G7D	QPSK	0.299	24.76
		4M52W7D	16QAM	0.249	23.96
		4M54W7D	64QAM	0.192	22.83
		4M56W7D	256QAM	0.095	19.79
LTE – Band26 (10)	819.0 – 824.0	9M01G7D	QPSK	0.295	24.70
		8M99W7D	16QAM	0.246	23.91
		9M00W7D	64QAM	0.191	22.81
		9M01W7D	256QAM	0.094	19.72
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.294	24.69
		13M5W7D	16QAM	0.246	23.91
		13M5W7D	64QAM	0.191	22.82
		13M5W7D	256QAM	0.094	19.73

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	0.236	23.72
		1M09W7D	16QAM	0.200	23.00
		1M09W7D	64QAM	0.153	21.85
		1M09W7D	256QAM	0.075	18.74
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.238	23.76
		2M71W7D	16QAM	0.202	23.05
		2M71W7D	64QAM	0.155	21.90
		2M71W7D	256QAM	0.074	18.71
LTE – Band26 (5)	816.5 – 824.0	4M54G7D	QPSK	0.238	23.76
		4M52W7D	16QAM	0.203	23.07
		4M53W7D	64QAM	0.155	21.91
		4M56W7D	256QAM	0.075	18.76
LTE – Band26 (10)	819.0 – 824.0	9M01G7D	QPSK	0.238	23.77
		9M00W7D	16QAM	0.198	22.96
		9M00W7D	64QAM	0.151	21.79
		9M01W7D	256QAM	0.074	18.72
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.237	23.74
		13M5W7D	16QAM	0.196	22.92
		13M5W7D	64QAM	0.150	21.75
		13M5W7D	256QAM	0.074	18.71

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**

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

3.2 CONDUCTED OUTPUT POWER

Test Overview

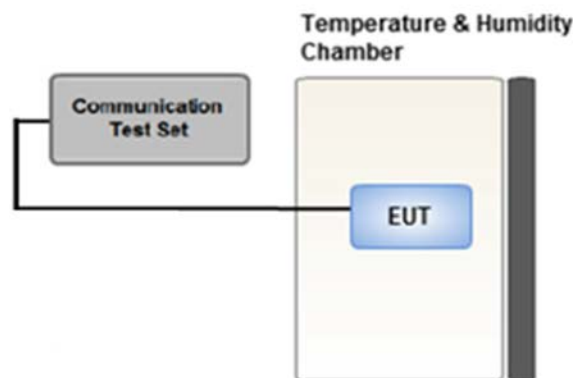
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base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

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna.

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW $\geq$ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

Test Note

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

The power is calculated by the following formula;

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

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

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

These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

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

3.4 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 $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

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

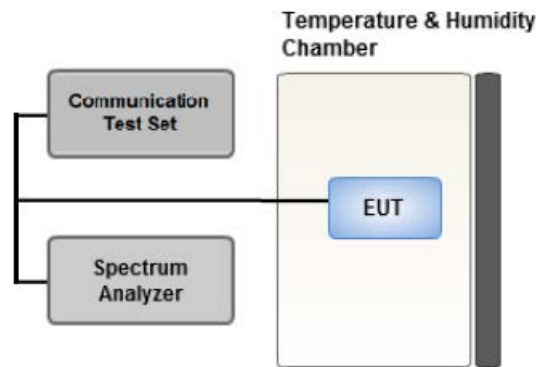
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

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

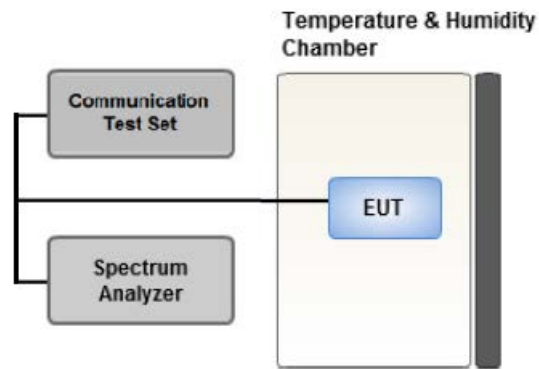
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

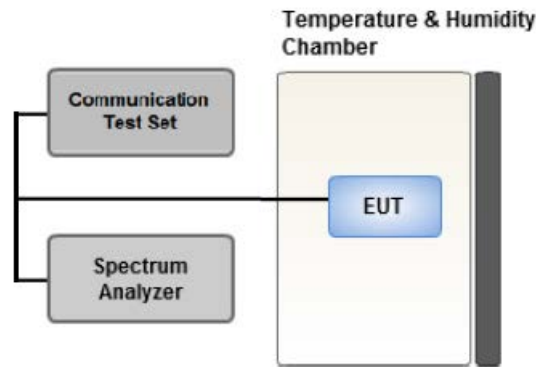
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep $\geq$ 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

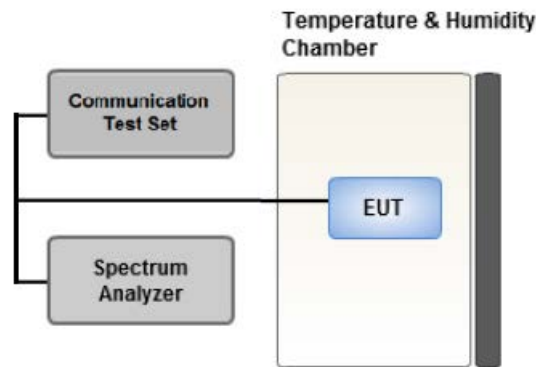
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW :
 - .
 - EA licensee's frequency block by up to and including 37.5 kHz : 300 Hz
 - .- EA licensee's frequency block greater than 37.5 kHz : 100 kHz
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

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

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode : Stand alone, Stand alone + External accessories (Earphone, Keyboard, 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 : 10 MHz(Main 1 ANT), 3 MHz(Sub 1 ANT))
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- The EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported.
(Worst case: Open mode)
- Please refer to the table below.
- SM-F766U & additional models were tested and the worst case results are reported.
(Worst case : SM- SM-F766U)

[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		X

3.10 WORST CASE(CONDUCTED TEST)

- Worst case : Of all modulation, We have tested modulation of the high Conducted Output Power.
 - SM-F766U & additional models were tested and the worst case results are reported.
- (Worst case : SM- SM-F766U)

[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
Band Edge (Straddle Channel)	QPSK	1.4, 3, 5	Low, High	Full RB	0
		10, 15	Mid	Full RB	0
		1.4	Mid	1	5
		3	Mid	1	14
		5	Mid	1	24
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

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	Switch box(1.2 G HPF+LNA)	HCT CO., LTD.	F1L1	11/11/2025	Annual
RF Switching System	Switch box(3.3 G HPF+LNA)	HCT CO., LTD.	F1L2	11/11/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.	F1L4	11/11/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.	F1L7	11/11/2025	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
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/14/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
Signal Analyzer(2 Hz ~ 50.0 GHz)	N9040B	KEYSIGHT	US55230216	12/09/2025	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- 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 ($\pm$ kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, $k=2$)
Frequency stability	28 (Confidence level about 95 %, $k=2$)

Parameter	Expanded Uncertainty ($\pm$ 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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 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(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	24.69	0.294	24.66	0.292	100
		1	3	24.58	0.287	24.57	0.287	100
		1	5	24.67	0.293	24.63	0.290	100
		3	0	24.66	0.292	24.57	0.286	100
		3	1	24.55	0.285	24.57	0.286	100
		3	3	24.64	0.291	24.52	0.283	100
		6	0	23.54	0.226	23.53	0.225	100
	16QAM	1	0	23.86	0.243	23.86	0.243	100
		1	3	23.89	0.245	23.86	0.243	100
		1	5	23.89	0.245	23.79	0.239	100
		3	0	23.69	0.234	23.63	0.230	100
		3	1	23.60	0.229	23.58	0.228	100
		3	3	23.66	0.232	23.62	0.230	100
		6	0	22.65	0.184	22.62	0.183	100
	64QAM	1	0	22.83	0.192	22.75	0.188	100
		1	3	22.68	0.185	22.70	0.186	100
		1	5	22.70	0.186	22.71	0.186	100
		3	0	22.61	0.182	22.59	0.181	100
		3	1	22.60	0.182	22.64	0.184	100
		3	3	22.63	0.183	22.59	0.182	100
		6	0	21.60	0.145	21.56	0.143	100
	256QAM	1	0	19.73	0.094	19.67	0.093	100
		1	3	19.66	0.092	19.62	0.092	100
		1	5	19.67	0.093	19.42	0.087	100
		3	0	19.66	0.092	19.53	0.090	100
		3	1	19.60	0.091	19.61	0.091	100
		3	3	19.75	0.094	19.59	0.091	100
		6	0	19.63	0.092	19.48	0.089	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	24.76	0.299	24.71	0.296	100
		1	7	24.63	0.290	24.62	0.290	100
		1	14	24.70	0.295	24.71	0.296	100
		8	0	23.64	0.231	23.61	0.230	100
		8	3	23.63	0.231	23.62	0.230	100
		8	7	23.61	0.230	23.59	0.229	100
		15	0	23.65	0.232	23.61	0.230	100
	16QAM	1	0	24.06	0.255	23.86	0.243	100
		1	7	23.94	0.248	23.89	0.245	100
		1	14	23.89	0.245	23.84	0.242	100
		8	0	22.72	0.187	22.69	0.186	100
		8	3	22.73	0.187	22.67	0.185	100
		8	7	22.70	0.186	22.70	0.186	100
		15	0	22.62	0.183	22.60	0.182	100
	64QAM	1	0	22.80	0.191	22.76	0.189	100
		1	7	22.70	0.186	22.69	0.186	100
		1	14	22.61	0.182	22.65	0.184	100
		8	0	21.71	0.148	21.65	0.146	100
		8	3	21.59	0.144	21.55	0.143	100
		8	7	21.65	0.146	21.61	0.145	100
		15	0	21.66	0.147	21.59	0.144	100
	256QAM	1	0	19.82	0.096	19.75	0.094	100
		1	7	19.67	0.093	19.65	0.092	100
		1	14	19.69	0.093	19.85	0.097	100
		8	0	19.68	0.093	19.65	0.092	100
		8	3	19.62	0.092	19.60	0.091	100
		8	7	19.62	0.092	19.59	0.091	100
		15	0	19.65	0.092	19.61	0.091	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	24.76	0.299	24.72	0.297	100
		1	12	24.56	0.286	24.58	0.287	100
		1	24	24.67	0.293	24.65	0.292	100
		12	0	23.68	0.233	23.54	0.226	100
		12	6	23.66	0.232	23.59	0.229	100
		12	11	23.62	0.230	23.61	0.229	100
		25	0	23.65	0.232	23.64	0.231	100
	16QAM	1	0	23.96	0.249	23.92	0.246	100
		1	12	23.90	0.245	23.84	0.242	100
		1	24	23.83	0.242	23.89	0.245	100
		12	0	22.70	0.186	22.65	0.184	100
		12	6	22.62	0.183	22.61	0.182	100
		12	11	22.61	0.182	22.58	0.181	100
		25	0	22.64	0.184	22.59	0.182	100
	64QAM	1	0	22.83	0.192	22.77	0.189	100
		1	12	22.64	0.184	22.64	0.184	100
		1	24	22.72	0.187	22.75	0.188	100
		12	0	21.65	0.146	21.60	0.144	100
		12	6	21.65	0.146	21.59	0.144	100
		12	11	21.59	0.144	21.55	0.143	100
		25	0	21.63	0.146	21.55	0.143	100
	256QAM	1	0	19.79	0.095	19.71	0.094	100
		1	12	19.67	0.093	19.59	0.091	100
		1	24	19.74	0.094	19.66	0.093	100
		12	0	19.63	0.092	19.58	0.091	100
		12	6	19.63	0.092	19.58	0.091	100
		12	11	19.58	0.091	19.54	0.090	100
		25	0	19.62	0.092	19.55	0.090	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	24.70	0.295	100
		1	24	24.68	0.294	100
		1	49	24.65	0.292	100
		25	0	23.64	0.231	100
		25	12	23.63	0.231	100
		25	24	23.60	0.229	100
		50	0	23.69	0.234	100
	16QAM	1	0	23.88	0.244	100
		1	24	23.82	0.241	100
		1	49	23.91	0.246	100
		25	0	22.61	0.182	100
		25	12	22.60	0.182	100
		25	24	22.59	0.182	100
		50	0	22.61	0.182	100
	64QAM	1	0	22.74	0.188	100
		1	24	22.81	0.191	100
		1	49	22.78	0.190	100
		25	0	21.59	0.144	100
		25	12	21.58	0.144	100
		25	24	21.55	0.143	100
		50	0	21.60	0.144	100
	256QAM	1	0	19.68	0.093	100
		1	24	19.72	0.094	100
		1	49	19.64	0.092	100
		25	0	19.57	0.091	100
		25	12	19.57	0.091	100
		25	24	19.55	0.090	100
		50	0	19.57	0.091	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				821.5 MHz		
				dBm	W	
15	QPSK	1	0	24.68	0.294	100
		1	36	24.69	0.294	100
		1	74	24.63	0.290	100
		36	0	23.60	0.229	100
		36	18	23.62	0.230	100
		36	39	23.61	0.230	100
		75	0	23.68	0.233	100
	16QAM	1	0	23.89	0.245	100
		1	36	23.81	0.240	100
		1	74	23.91	0.246	100
		36	0	22.60	0.182	100
		36	18	22.61	0.182	100
		36	39	22.60	0.182	100
		75	0	22.61	0.182	100
	64QAM	1	0	22.73	0.187	100
		1	36	22.82	0.192	100
		1	74	22.77	0.189	100
		36	0	21.56	0.143	100
		36	18	21.56	0.143	100
		36	39	21.54	0.143	100
		75	0	21.59	0.144	100
	256QAM	1	0	19.63	0.092	100
		1	36	19.73	0.094	100
		1	74	19.64	0.092	100
		36	0	19.56	0.090	100
		36	18	19.56	0.090	100
		36	39	19.55	0.090	100
		75	0	19.56	0.090	100

8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)				W	W	dBm	Size
814.7	LTE B26/ 1.4 MHz	QPSK	-30.74	32.47	-10.05	1.44	H	< 100	0.125	20.98	1	0
		16QAM	-31.48	31.73	-10.05	1.44	H		0.106	20.24		
		64QAM	-32.66	30.55	-10.05	1.44	H		0.081	19.06		
		256QAM	-35.76	27.45	-10.05	1.44	H		0.039	15.96		
823.3		QPSK	-30.86	32.17	-9.95	1.44	H		0.120	20.78	1	0
		16QAM	-31.63	31.40	-9.95	1.44	H		0.100	20.01		
		64QAM	-32.80	30.23	-9.95	1.44	H		0.077	18.84		
		256QAM	-35.88	27.15	-9.95	1.44	H		0.038	15.76		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)				W	W	dBm	Size
815.5	LTE B26/ 3 MHz	QPSK	-31.09	32.13	-10.05	1.44	H	< 100	0.116	20.64	1	0
		16QAM	-31.82	31.40	-10.05	1.44	H		0.098	19.91		
		64QAM	-32.98	30.24	-10.05	1.44	H		0.075	18.75		
		256QAM	-36.09	27.13	-10.05	1.44	H		0.037	15.64		
822.5		QPSK	-31.13	31.93	-9.95	1.44	H		0.113	20.54	1	0
		16QAM	-31.87	31.19	-9.95	1.44	H		0.096	19.80		
		64QAM	-33.02	30.04	-9.95	1.44	H		0.073	18.65		
		256QAM	-36.11	26.95	-9.95	1.44	H		0.036	15.56		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
816.5	LTE B26/ 5 MHz	QPSK	-31.03	32.17	-10.05	1.44	H	< 100	0.117	20.68	1	0
		16QAM	-31.80	31.40	-10.05	1.44	H		0.098	19.91		
		64QAM	-32.97	30.23	-10.05	1.44	H		0.075	18.74		
		256QAM	-36.03	27.17	-10.05	1.44	H		0.037	15.68		
821.5	LTE B26/ 5 MHz	QPSK	-30.98	32.12	-9.95	1.44	H		0.118	20.73	1	0
		16QAM	-31.81	31.29	-9.95	1.44	H		0.098	19.90		
		64QAM	-33.00	30.10	-9.95	1.44	H		0.074	18.71		
		256QAM	-35.99	27.11	-9.95	1.44	H		0.037	15.72		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	-30.39	32.77	-10.05	1.44	H	< 100	0.134	21.28	1	0
		16QAM	-31.21	31.95	-10.05	1.44	H		0.111	20.46		
		64QAM	-32.31	30.85	-10.05	1.44	H		0.086	19.36		
		256QAM	-35.40	27.76	-10.05	1.44	H		0.042	16.27		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
821.5	LTE B26/ 15 MHz	QPSK	-30.46	32.64	-9.95	1.44	H	< 100	0.133	21.25	1	0
		16QAM	-31.15	31.95	-9.95	1.44	H		0.114	20.56		
		64QAM	-32.29	30.81	-9.95	1.44	H		0.088	19.42		
		256QAM	-35.38	27.72	-9.95	1.44	H		0.043	16.33		

Note

1. Limit: None (for reporting purposes only)

8.3 RADIATED SPURIOUS EMISSIONS

■ MODE: LTE B26
 ■ 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	Size	
									Size	Offset
26740 (819.0)	1 638.00	-47.31	9.34	-62.05	1.98	V	-54.69	-13.00	1	0
	2 457.00	-52.13	10.40	-63.27	2.56	V	-55.43	-13.00		
	3 276.00	-53.11	10.91	-61.28	2.95	V	-53.32	-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	1.0987
			16QAM			1.0938
			64QAM			1.0925
			256QAM			1.0936
	3 MHz	822.5	QPSK	15		2.7195
			16QAM			2.7065
			64QAM			2.7044
			256QAM			2.7133
	5 MHz	821.5	QPSK	25		4.5397
			16QAM			4.5200
			64QAM			4.5357
			256QAM			4.5578
	10 MHz	819.0	QPSK	50		9.0107
			16QAM			8.9930
			64QAM			9.0022
			256QAM			9.0131
	15 MHz	821.5	QPSK	75		13.504
			16QAM			13.525
			64QAM			13.496
			256QAM			13.473

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 70 ~ 89.

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	5.9921	28.591	-57.060	-28.469	-13.00
		823.3	9.2223	28.591	-57.621	-29.030	
	3	815.5	9.4616	28.591	-57.506	-28.915	
		822.5	9.5214	28.591	-58.623	-30.032	
	5	816.5	9.8804	28.591	-57.129	-28.538	
		821.5	9.9601	28.591	-57.151	-28.560	
	10	819.0	3.2005	27.976	-57.249	-29.273	
	15	821.5	9.9601	28.591	-56.693	-28.102	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 110 ~ 117.
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

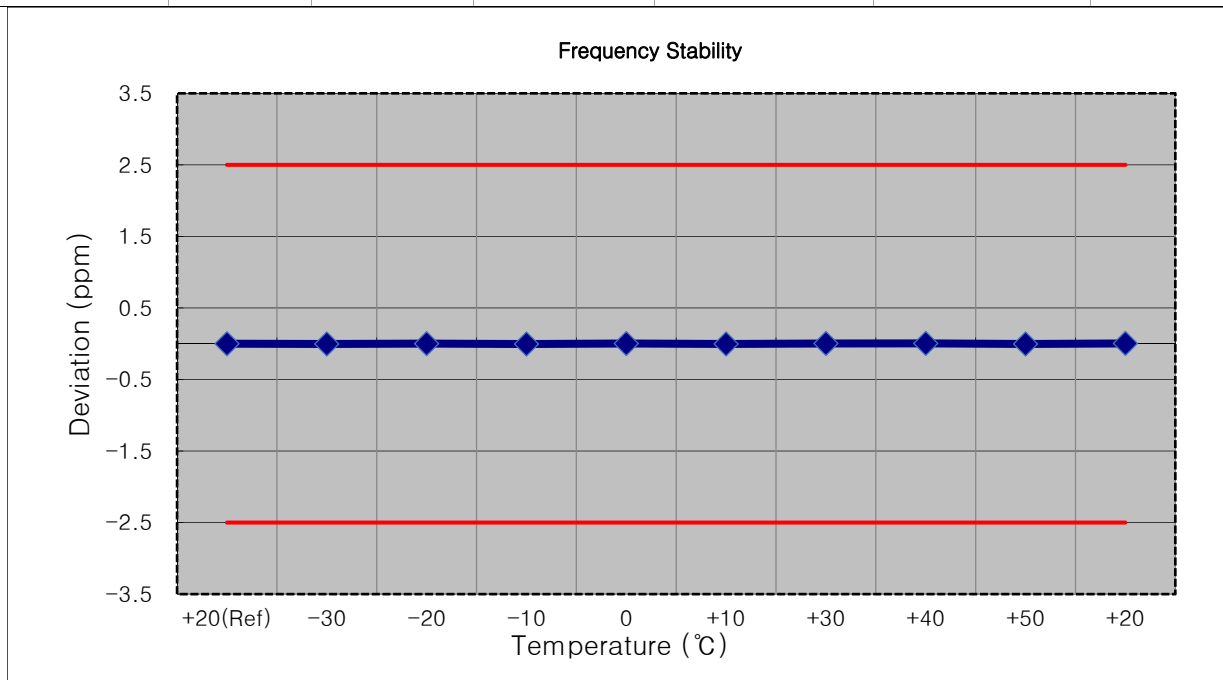
8.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 90 ~ 109.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

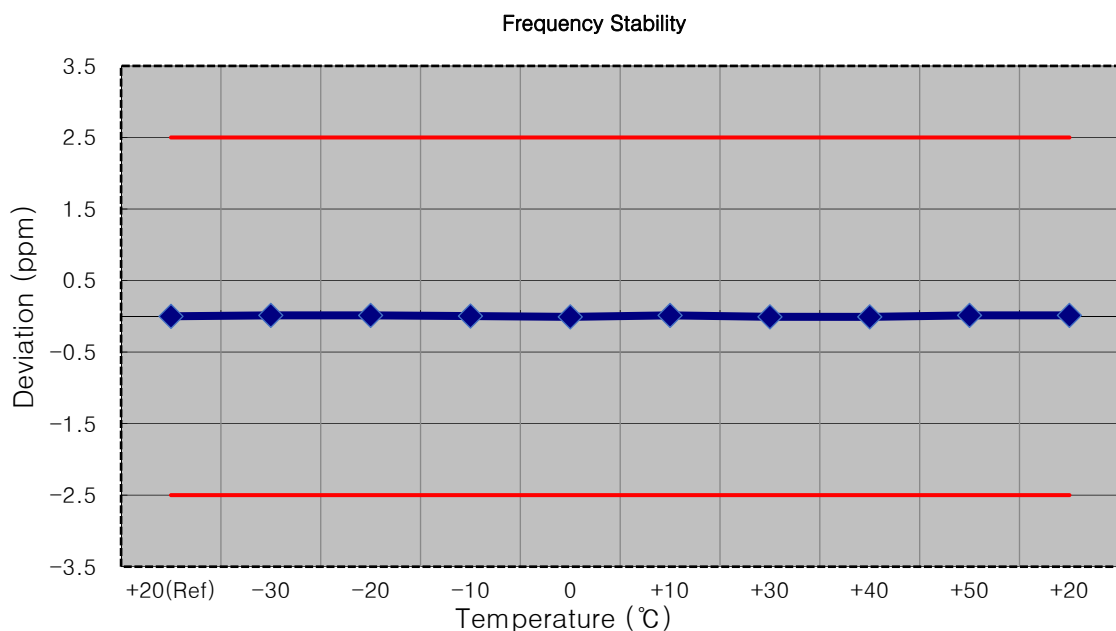
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>814,700,000 Hz</u>
CHANNEL:	<u>26697(1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	814 699 997	0.0	0.000 000	0.000
100 %		-30	814 699 994	-2.9	0.000 000	-0.004
100 %		-20	814 699 999	1.3	0.000 000	0.002
100 %		-10	814 699 994	-3.4	0.000 000	-0.004
100 %		0	814 700 000	2.6	0.000 000	0.003
100 %		+10	814 699 995	-2.6	0.000 000	-0.003
100 %		+30	814 700 000	2.8	0.000 000	0.003
100 %		+40	814 700 001	3.7	0.000 000	0.005
100 %		+50	814 699 994	-2.9	0.000 000	-0.004
Batt. Endpoint	3.300	+20	814 700 001	3.4	0.000 000	0.004



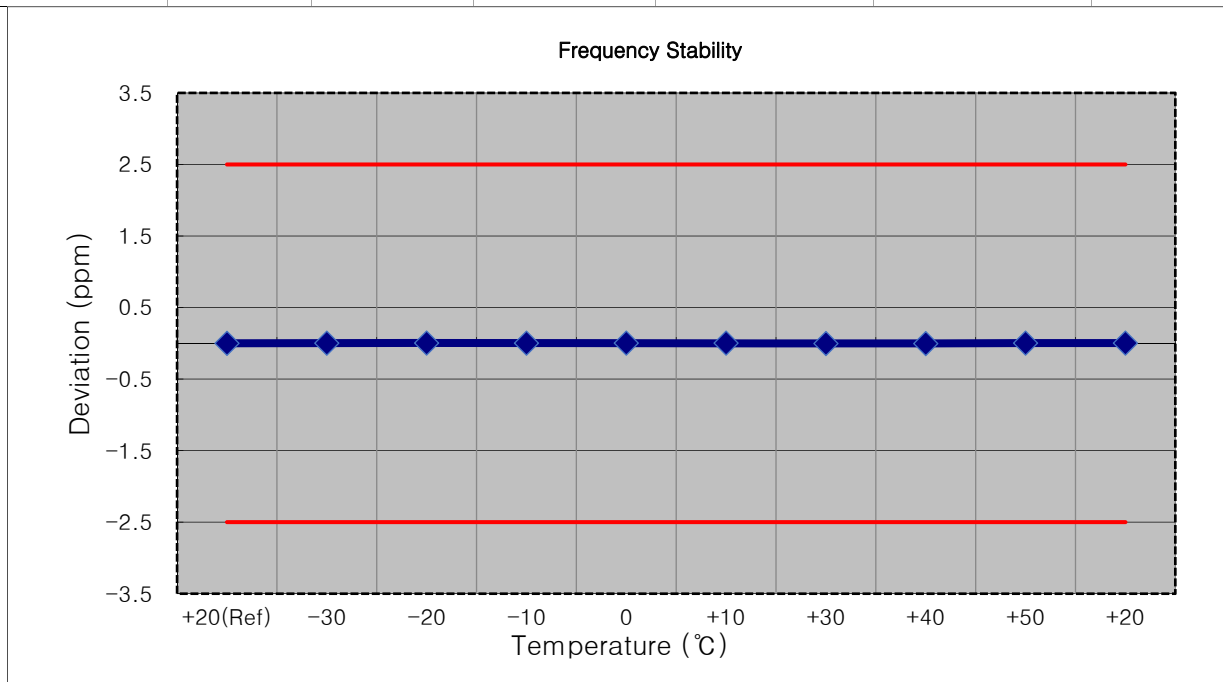
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>815,500,000 Hz</u>
CHANNEL:	<u>26705(3 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	815 499 993	0.0	0.000 000	0.000
100 %		-30	815 500 004	10.9	0.000 001	0.013
100 %		-20	815 500 004	10.6	0.000 001	0.013
100 %		-10	815 499 996	2.9	0.000 000	0.004
100 %		0	815 499 987	-6.2	-0.000 001	-0.008
100 %		+10	815 500 004	10.6	0.000 001	0.013
100 %		+30	815 499 987	-5.9	-0.000 001	-0.007
100 %		+40	815 499 987	-6.3	-0.000 001	-0.008
100 %		+50	815 500 004	11.0	0.000 001	0.013
Batt. Endpoint	3.300	+20	815 500 004	10.8	0.000 001	0.013



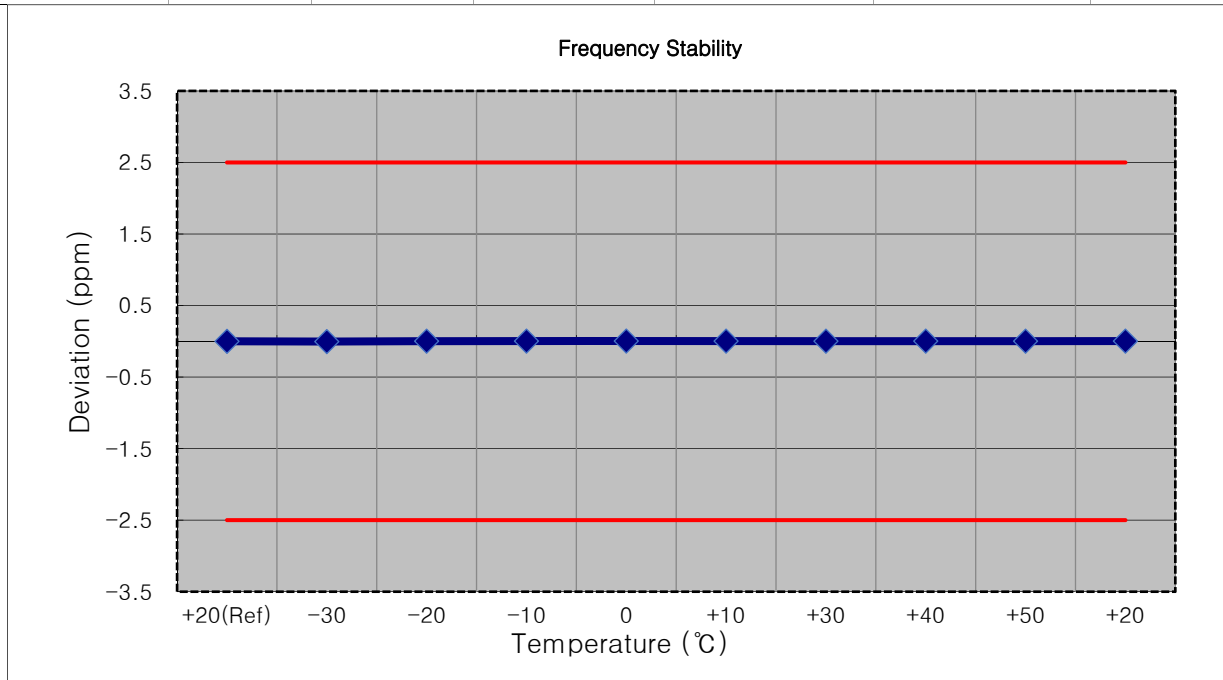
MODE: LTE 26
 OPERATING FREQUENCY: 816,500,000 Hz
 CHANNEL: 26715(5 MHz)
 REFERENCE VOLTAGE: 3.900 VDC
 DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	816 499 997	0.0	0.000 000	0.000
100 %		-30	816 499 999	1.9	0.000 000	0.002
100 %		-20	816 500 000	2.9	0.000 000	0.004
100 %		-10	816 499 999	1.6	0.000 000	0.002
100 %		0	816 500 000	2.7	0.000 000	0.003
100 %		+10	816 500 000	2.2	0.000 000	0.003
100 %		+30	816 499 995	-2.6	0.000 000	-0.003
100 %		+40	816 499 994	-2.9	0.000 000	-0.004
100 %		+50	816 500 000	2.5	0.000 000	0.003
Batt. Endpoint	3.300	+20	816 500 000	2.7	0.000 000	0.003



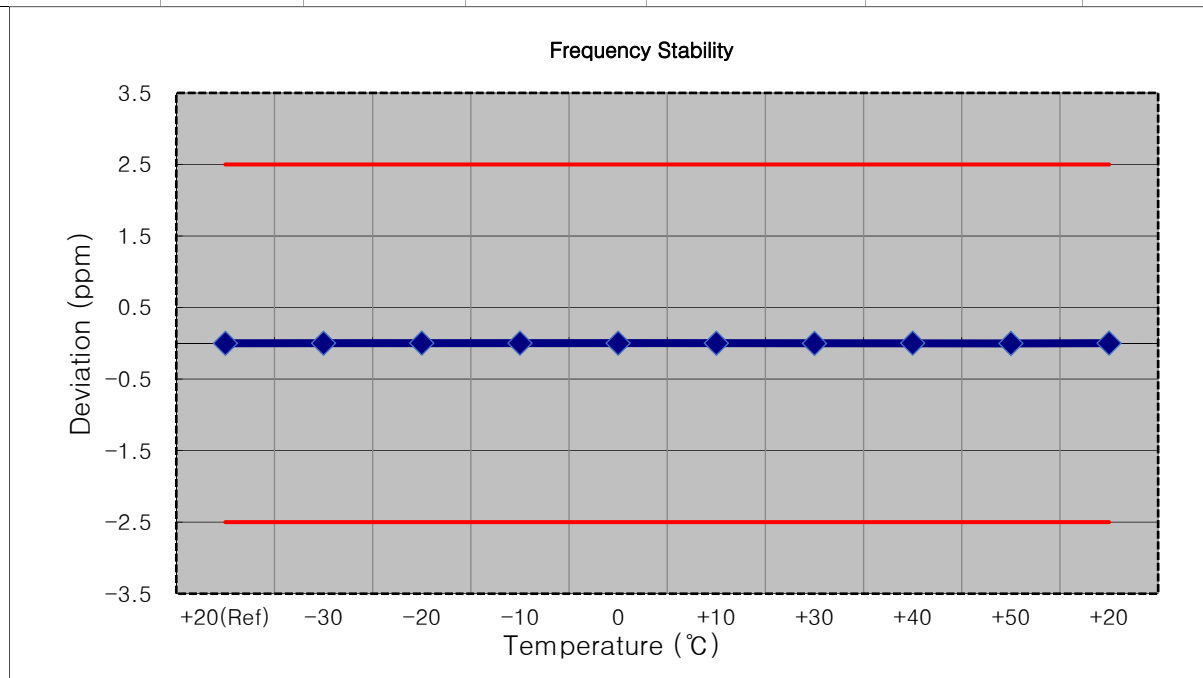
MODE: LTE 26
 OPERATING FREQUENCY: 819,000,000 Hz
 CHANNEL: 26740(10 MHz)
 REFERENCE VOLTAGE: 3.900 VDC
 DEVIATION LIMIT: $\pm 0.00025\%$ or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	818 999 998	0.0	0.000 000	0.000
100 %		-30	818 999 995	-2.8	0.000 000	-0.003
100 %		-20	819 000 000	2.0	0.000 000	0.002
100 %		-10	819 000 001	2.6	0.000 000	0.003
100 %		0	819 000 001	3.1	0.000 000	0.004
100 %		+10	819 000 000	2.3	0.000 000	0.003
100 %		+30	819 000 000	2.1	0.000 000	0.003
100 %		+40	819 000 000	2.3	0.000 000	0.003
100 %		+50	819 000 000	1.8	0.000 000	0.002
Batt. Endpoint	3.300	+20	819 000 001	2.6	0.000 000	0.003



MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>821,500,000 Hz</u>
CHANNEL:	<u>26765(15 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	$\pm 0.000\ 25\ \%$ or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	821 500 002	0.0	0.000 000	0.000
100 %		-30	821 500 003	1.5	0.000 000	0.002
100 %		-20	821 500 004	2.3	0.000 000	0.003
100 %		-10	821 500 004	2.2	0.000 000	0.003
100 %		0	821 500 004	2.1	0.000 000	0.003
100 %		+10	821 500 003	1.5	0.000 000	0.002
100 %		+30	821 500 000	-1.3	0.000 000	-0.002
100 %		+40	821 500 004	2.6	0.000 000	0.003
100 %		+50	821 500 000	-1.3	0.000 000	-0.002
Batt. Endpoint	3.300	+20	821 500 003	1.8	0.000 000	0.002



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	24.62	0.290	100
		1	3	24.56	0.286	100
		1	5	24.60	0.288	100
		3	0	24.60	0.288	100
		3	1	24.51	0.283	100
		3	3	24.58	0.287	100
		6	0	23.55	0.226	100
	16QAM	1	0	23.83	0.241	100
		1	3	23.80	0.240	100
		1	5	23.84	0.242	100
		3	0	23.61	0.229	100
		3	1	23.61	0.230	100
		3	3	23.58	0.228	100
		6	0	22.60	0.182	100
	64QAM	1	0	22.73	0.188	100
		1	3	22.66	0.185	100
		1	5	22.68	0.185	100
		3	0	22.55	0.180	100
		3	1	22.61	0.182	100
		3	3	22.59	0.181	100
		6	0	21.54	0.143	100
	256QAM	1	0	19.66	0.092	100
		1	3	19.59	0.091	100
		1	5	19.62	0.092	100
		3	0	19.61	0.092	100
		3	1	19.54	0.090	100
		3	3	19.63	0.092	100
		6	0	19.50	0.089	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	24.71	0.296	100
		1	7	24.60	0.288	100
		1	14	24.68	0.293	100
		8	0	23.59	0.228	100
		8	3	23.59	0.228	100
		8	7	23.57	0.227	100
		15	0	23.60	0.229	100
	16QAM	1	0	23.88	0.245	100
		1	7	23.86	0.243	100
		1	14	23.80	0.240	100
		8	0	22.66	0.185	100
		8	3	22.65	0.184	100
		8	7	22.67	0.185	100
		15	0	22.57	0.181	100
	64QAM	1	0	22.73	0.188	100
		1	7	22.64	0.184	100
		1	14	22.58	0.181	100
		8	0	21.64	0.146	100
		8	3	21.52	0.142	100
		8	7	21.59	0.144	100
		15	0	21.59	0.144	100
	256QAM	1	0	19.73	0.094	100
		1	7	19.61	0.091	100
		1	14	19.64	0.092	100
		8	0	19.63	0.092	100
		8	3	19.57	0.091	100
		8	7	19.55	0.090	100
		15	0	19.57	0.091	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	24.70	0.295	100
		1	12	24.53	0.284	100
		1	24	24.62	0.289	100
		12	0	23.60	0.229	100
		12	6	23.57	0.227	100
		12	11	23.58	0.228	100
		25	0	23.61	0.230	100
	16QAM	1	0	23.87	0.244	100
		1	12	23.79	0.239	100
		1	24	23.83	0.242	100
		12	0	22.62	0.183	100
		12	6	22.55	0.180	100
		12	11	22.52	0.178	100
		25	0	22.54	0.180	100
	64QAM	1	0	22.71	0.186	100
		1	12	22.63	0.183	100
		1	24	22.69	0.186	100
		12	0	21.56	0.143	100
		12	6	21.55	0.143	100
		12	11	21.51	0.142	100
		25	0	21.52	0.142	100
	256QAM	1	0	19.69	0.093	100
		1	12	19.58	0.091	100
		1	24	19.64	0.092	100
		12	0	19.55	0.090	100
		12	6	19.54	0.090	100
		12	11	19.51	0.089	100
		25	0	19.52	0.090	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	24.69	0.295	100
		1	24	24.64	0.291	100
		1	49	24.64	0.291	100
		25	0	23.64	0.231	100
		25	12	23.60	0.229	100
		25	24	23.57	0.228	100
		50	0	23.65	0.232	100
	16QAM	1	0	23.86	0.243	100
		1	24	23.80	0.240	100
		1	49	23.90	0.245	100
		25	0	22.60	0.182	100
		25	12	22.57	0.181	100
		25	24	22.56	0.180	100
		50	0	22.57	0.181	100
	64QAM	1	0	22.72	0.187	100
		1	24	22.74	0.188	100
		1	49	22.75	0.188	100
		25	0	21.59	0.144	100
		25	12	21.56	0.143	100
		25	24	21.52	0.142	100
		50	0	21.56	0.143	100
	256QAM	1	0	19.69	0.093	100
		1	24	19.65	0.092	100
		1	49	19.59	0.091	100
		25	0	19.56	0.090	100
		25	12	19.55	0.090	100
		25	24	19.51	0.089	100
		50	0	19.53	0.090	100

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	-30.74	32.26	-9.95	1.44	H	< 7.00	0.122	20.87	1	0
		16QAM	-31.60	31.40	-9.95	1.44	H		0.100	20.01		
		64QAM	-32.73	30.27	-9.95	1.44	H		0.077	18.88		
		256QAM	-35.82	27.18	-9.95	1.44	H		0.038	15.79		

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	-31.19	31.81	-9.95	1.44	H	< 7.00	0.110	20.42	1	0
		16QAM	-31.92	31.08	-9.95	1.44	H		0.093	19.69		
		64QAM	-33.08	29.92	-9.95	1.44	H		0.071	18.53		
		256QAM	-36.18	26.82	-9.95	1.44	H		0.035	15.43		

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	-31.08	31.92	-9.95	1.44	H	< 7.00	0.113	20.53	1	0
		16QAM	-31.93	31.07	-9.95	1.44	H		0.093	19.68		
		64QAM	-33.09	29.91	-9.95	1.44	H		0.071	18.52		
		256QAM	-36.11	26.89	-9.95	1.44	H		0.035	15.50		

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	-30.42	32.58	-9.95	1.44	H	< 7.00	0.132	21.19	1	0
		16QAM	-31.28	31.72	-9.95	1.44	H		0.108	20.33		
		64QAM	-32.39	30.61	-9.95	1.44	H		0.084	19.22		
		256QAM	-35.39	27.61	-9.95	1.44	H		0.042	16.22		

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	-47.63	9.44	-62.57	2.02	H	-55.15	-13.00	1	0
	2 472.00	-53.01	10.35	-64.21	2.59	H	-56.45	-13.00		
	3 296.00	-53.26	11.06	-61.42	2.95	V	-53.31	-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	9.7009	28.591	-58.279	-29.688	-13.00
	3		4.0280	27.976	-57.086	-29.110	
	5		9.6610	28.591	-56.556	-27.965	
	10		5.5035	28.591	-56.100	-27.509	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 119 ~ 122.
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 123 ~ 134.

8.8.6 BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 135 ~ 142.

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	23.69	0.234	23.60	0.229	100
		1	3	23.67	0.233	23.62	0.230	100
		1	5	23.72	0.236	23.66	0.232	100
		3	0	23.65	0.232	23.55	0.226	100
		3	1	23.55	0.226	23.49	0.223	100
		3	3	23.58	0.228	23.54	0.226	100
		6	0	22.56	0.180	22.52	0.179	100
	16QAM	1	0	23.00	0.200	22.89	0.195	100
		1	3	22.82	0.191	22.81	0.191	100
		1	5	22.94	0.197	22.86	0.193	100
		3	0	22.63	0.183	22.50	0.178	100
		3	1	22.72	0.187	22.65	0.184	100
		3	3	22.68	0.185	22.63	0.183	100
		6	0	21.60	0.145	21.57	0.143	100
	64QAM	1	0	21.80	0.151	21.75	0.150	100
		1	3	21.85	0.153	21.76	0.150	100
		1	5	21.81	0.152	21.76	0.150	100
		3	0	21.67	0.147	21.59	0.144	100
		3	1	21.61	0.145	21.57	0.143	100
		3	3	21.66	0.147	21.57	0.144	100
		6	0	20.54	0.113	20.49	0.112	100
	256QAM	1	0	18.63	0.073	18.59	0.072	100
		1	3	18.65	0.073	18.54	0.071	100
		1	5	18.74	0.075	18.63	0.073	100
		3	0	18.68	0.074	18.58	0.072	100
		3	1	18.63	0.073	18.53	0.071	100
		3	3	18.73	0.075	18.58	0.072	100
		6	0	18.67	0.074	18.48	0.071	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	23.76	0.238	23.63	0.230	100
		1	7	23.67	0.233	23.59	0.228	100
		1	14	23.69	0.234	23.63	0.231	100
		8	0	22.63	0.183	22.56	0.180	100
		8	3	22.67	0.185	22.59	0.182	100
		8	7	22.64	0.184	22.56	0.180	100
		15	0	22.65	0.184	22.60	0.182	100
	16QAM	1	0	23.05	0.202	22.93	0.196	100
		1	7	23.05	0.202	22.89	0.195	100
		1	14	22.98	0.199	22.91	0.196	100
		8	0	21.76	0.150	21.65	0.146	100
		8	3	21.71	0.148	21.64	0.146	100
		8	7	21.76	0.150	21.69	0.147	100
		15	0	21.62	0.145	21.54	0.143	100
	64QAM	1	0	21.90	0.155	21.77	0.150	100
		1	7	21.70	0.148	21.63	0.145	100
		1	14	21.86	0.153	21.83	0.153	100
		8	0	20.66	0.116	20.57	0.114	100
		8	3	20.69	0.117	20.58	0.114	100
		8	7	20.69	0.117	20.59	0.115	100
		15	0	20.67	0.117	20.56	0.114	100
	256QAM	1	0	18.71	0.074	18.61	0.073	100
		1	7	18.59	0.072	18.53	0.071	100
		1	14	18.66	0.073	18.60	0.072	100
		8	0	18.64	0.073	18.57	0.072	100
		8	3	18.61	0.073	18.53	0.071	100
		8	7	18.61	0.073	18.53	0.071	100
		15	0	18.51	0.071	18.45	0.070	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	23.76	0.238	23.67	0.233	100
		1	12	23.68	0.233	23.60	0.229	100
		1	24	23.68	0.233	23.66	0.232	100
		12	0	22.71	0.187	22.60	0.182	100
		12	6	22.67	0.185	22.56	0.180	100
		12	11	22.62	0.183	22.56	0.180	100
		25	0	22.62	0.183	22.56	0.180	100
	16QAM	1	0	23.07	0.203	22.89	0.195	100
		1	12	22.94	0.197	22.88	0.194	100
		1	24	22.90	0.195	22.87	0.194	100
		12	0	21.77	0.150	21.64	0.146	100
		12	6	21.66	0.147	21.60	0.145	100
		12	11	21.69	0.148	21.62	0.145	100
		25	0	21.63	0.146	21.56	0.143	100
	64QAM	1	0	21.91	0.155	21.77	0.150	100
		1	12	21.75	0.150	21.64	0.146	100
		1	24	21.78	0.151	21.77	0.150	100
		12	0	20.71	0.118	20.59	0.115	100
		12	6	20.69	0.117	20.60	0.115	100
		12	11	20.63	0.116	20.49	0.112	100
		25	0	20.62	0.115	20.54	0.113	100
	256QAM	1	0	18.76	0.075	18.67	0.074	100
		1	12	18.54	0.071	18.56	0.072	100
		1	24	18.67	0.074	18.63	0.073	100
		12	0	18.64	0.073	18.56	0.072	100
		12	6	18.63	0.073	18.54	0.072	100
		12	11	18.57	0.072	18.52	0.071	100
		25	0	18.60	0.072	18.51	0.071	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	23.70	0.234	100
		1	24	23.77	0.238	100
		1	49	23.64	0.231	100
		25	0	22.58	0.181	100
		25	12	22.62	0.183	100
		25	24	22.54	0.180	100
		50	0	22.59	0.182	100
	16QAM	1	0	22.93	0.196	100
		1	24	22.96	0.198	100
		1	49	22.88	0.194	100
		25	0	21.58	0.144	100
		25	12	21.57	0.144	100
		25	24	21.57	0.143	100
		50	0	21.58	0.144	100
	64QAM	1	0	21.79	0.151	100
		1	24	21.78	0.151	100
		1	49	21.72	0.149	100
		25	0	20.56	0.114	100
		25	12	20.54	0.113	100
		25	24	20.53	0.113	100
		50	0	20.58	0.114	100
	256QAM	1	0	18.72	0.074	100
		1	24	18.58	0.072	100
		1	49	18.64	0.073	100
		25	0	18.55	0.072	100
		25	12	18.54	0.071	100
		25	24	18.51	0.071	100
		50	0	18.55	0.072	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				821.5 MHz		
				dBm	W	
15	QPSK	1	0	23.68	0.234	100
		1	36	23.74	0.237	100
		1	74	23.65	0.232	100
		36	0	22.55	0.180	100
		36	18	22.59	0.182	100
		36	39	22.52	0.179	100
		75	0	22.58	0.181	100
	16QAM	1	0	22.91	0.195	100
		1	36	22.92	0.196	100
		1	74	22.87	0.194	100
		36	0	21.56	0.143	100
		36	18	21.55	0.143	100
		36	39	21.56	0.143	100
		75	0	21.57	0.144	100
	64QAM	1	0	21.74	0.149	100
		1	36	21.75	0.149	100
		1	74	21.74	0.149	100
		36	0	20.53	0.113	100
		36	18	20.52	0.113	100
		36	39	20.52	0.113	100
		75	0	20.56	0.114	100
	256QAM	1	0	18.71	0.074	100
		1	36	18.53	0.071	100
		1	74	18.62	0.073	100
		36	0	18.52	0.071	100
		36	18	18.51	0.071	100
		36	39	18.49	0.071	100
		75	0	18.52	0.071	100

9.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
814.7	LTE B26/ 1.4 MHz	QPSK	-35.43	27.78	-10.05	1.44	H	< 100	0.043	16.29	1	5
		16QAM	-36.26	26.95	-10.05	1.44	H		0.035	15.46		
		64QAM	-37.39	25.82	-10.05	1.44	H		0.027	14.33		
		256QAM	-40.37	22.84	-10.05	1.44	H		0.014	11.35		
823.3		QPSK	-35.12	27.91	-9.95	1.44	H		0.045	16.52	1	0
		16QAM	-35.90	27.13	-9.95	1.44	H		0.038	15.74		
		64QAM	-37.08	25.95	-9.95	1.44	H		0.029	14.56		
		256QAM	-40.25	22.78	-9.95	1.44	H		0.014	11.39		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
815.5	LTE B26/ 3 MHz	QPSK	-35.33	27.89	-10.05	1.44	H	< 100	0.044	16.40	1	14
		16QAM	-36.09	27.13	-10.05	1.44	H		0.037	15.64		
		64QAM	-37.23	25.99	-10.05	1.44	H		0.028	14.50		
		256QAM	-40.27	22.95	-10.05	1.44	H		0.014	11.46		
822.5		QPSK	-34.92	28.14	-9.95	1.44	H		0.047	16.75	1	0
		16QAM	-35.64	27.42	-9.95	1.44	H		0.040	16.03		
		64QAM	-36.81	26.25	-9.95	1.44	H		0.031	14.86		
		256QAM	-40.01	23.05	-9.95	1.44	H		0.015	11.66		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
816.5	LTE B26/ 5 MHz	QPSK	-35.08	28.12	-10.05	1.44	H	< 100	0.046	16.63	1	24
		16QAM	-35.84	27.36	-10.05	1.44	H		0.039	15.87		
		64QAM	-37.00	26.20	-10.05	1.44	H		0.030	14.71		
		256QAM	-40.08	23.12	-10.05	1.44	H		0.015	11.63		
821.5	LTE B26/ 5 MHz	QPSK	-34.99	28.11	-9.95	1.44	H		0.047	16.72	1	0
		16QAM	-35.75	27.35	-9.95	1.44	H		0.039	15.96		
		64QAM	-36.92	26.18	-9.95	1.44	H		0.030	14.79		
		256QAM	-40.03	23.07	-9.95	1.44	H		0.015	11.68		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	-34.94	28.22	-10.05	1.44	H	< 100	0.047	16.73	1	49
		16QAM	-35.78	27.38	-10.05	1.44	H		0.039	15.89		
		64QAM	-36.90	26.26	-10.05	1.44	H		0.030	14.77		
		256QAM	-40.04	23.12	-10.05	1.44	H		0.015	11.63		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
821.5	LTE B26/ 15 MHz	QPSK	-35.06	28.04	-9.95	1.44	H	< 7.00	0.046	16.65	1	74
		16QAM	-35.75	27.35	-9.95	1.44	H		0.039	15.96		
		64QAM	-36.90	26.20	-9.95	1.44	H		0.030	14.81		
		256QAM	-40.09	23.01	-9.95	1.44	H		0.015	11.62		

Note

1. Limit: None (for reporting purposes only)

9.3 RADIATED SPURIOUS EMISSIONS

■ MODE: LTE B26
 ■ MODULATION SIGNAL: 3 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
26705 (815.5)	1 631.00	-34.66	9.23	-49.16	1.98	H	-41.91	-13.00	1	14
	2 446.50	-32.46	10.41	-43.59	2.50	H	-35.68	-13.00		
	3 262.00	-52.77	10.80	-60.97	2.96	V	-53.13	-13.00		
26775 (822.5)	1 645.00	-30.20	9.39	-45.04	2.00	V	-37.65	-13.00	1	0
	2 467.50	-32.98	10.35	-44.18	2.59	H	-36.42	-13.00		
	3 290.00	-53.17	11.02	-61.27	2.94	H	-53.19	-13.00		

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	1.0973
			16QAM			1.0931
			64QAM			1.0943
			256QAM			1.0926
	3 MHz	822.5	QPSK	15		2.7202
			16QAM			2.7053
			64QAM			2.7068
			256QAM			2.7131
	5 MHz	821.5	QPSK	25		4.5352
			16QAM			4.5178
			64QAM			4.5334
			256QAM			4.5630
	10 MHz	819.0	QPSK	50		9.0047
			16QAM			8.9968
			64QAM			8.9990
			256QAM			9.0124
	15 MHz	821.5	QPSK	75		13.475
			16QAM			13.479
			64QAM			13.491
			256QAM			13.470

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 144 ~ 163.

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	9.1326	28.591	-57.543	-28.952	-13.00
		823.3	8.5444	28.591	-58.038	-29.447	
	3	815.5	3.9981	27.976	-58.121	-30.145	
		822.5	4.1775	27.976	-58.147	-30.171	
	5	816.5	9.4816	28.591	-57.820	-29.229	
		821.5	5.0349	28.591	-55.000	-26.409	
	10	819.0	4.0479	27.976	-57.869	-29.893	
	15	821.5	8.8435	28.591	-57.106	-28.515	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 184 ~ 191.
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

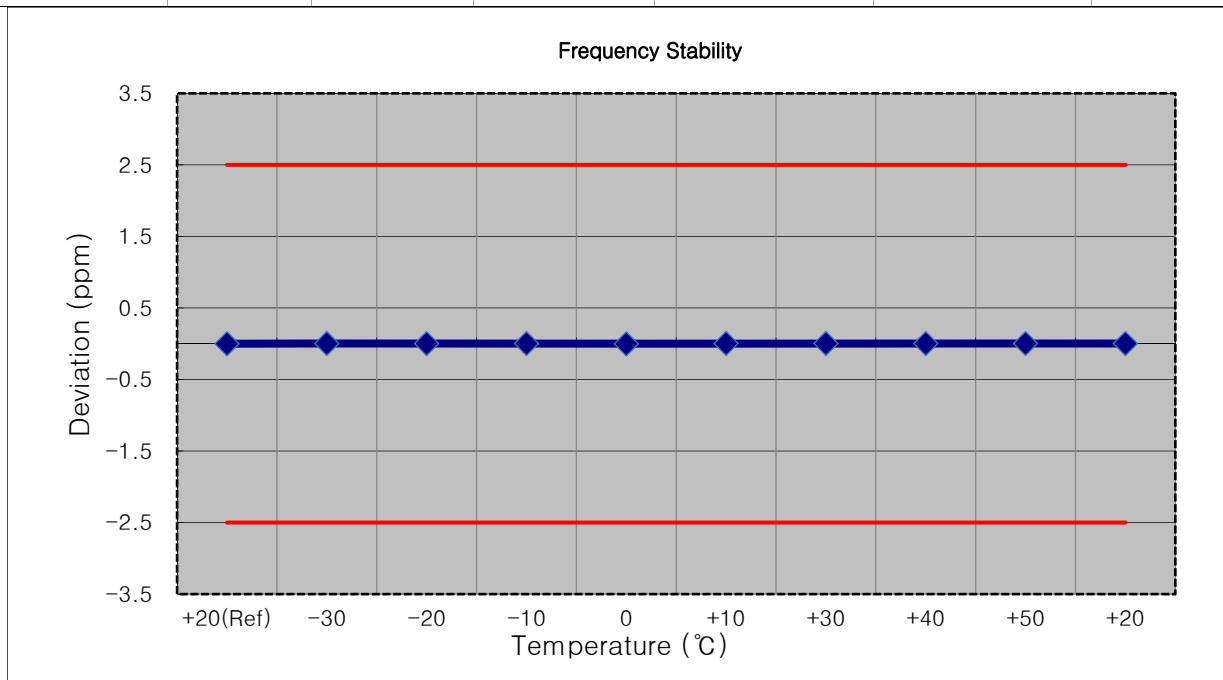
9.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 164 ~ 183.

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

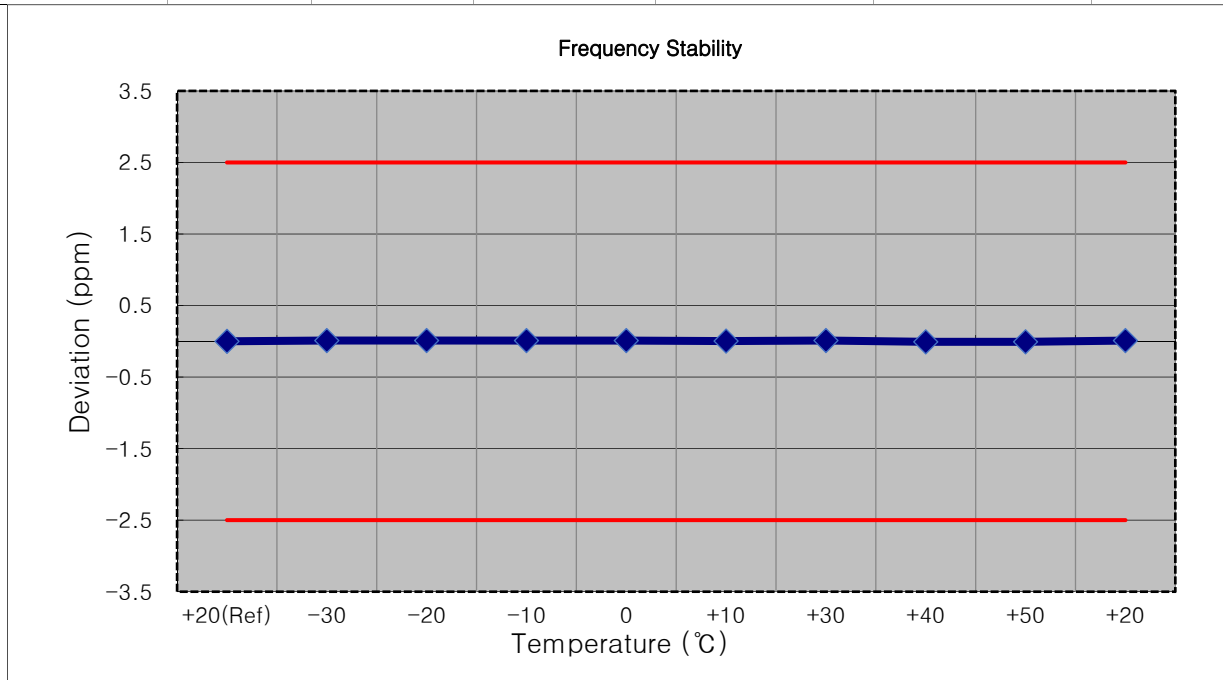
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>814,700,000 Hz</u>
CHANNEL:	<u>26697(1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	814 700 002	0.0	0.000 000	0.000
100 %		-30	814 700 005	2.9	0.000 000	0.004
100 %		-20	814 700 004	1.9	0.000 000	0.002
100 %		-10	814 700 004	2.2	0.000 000	0.003
100 %		0	814 700 000	-2.0	0.000 000	-0.002
100 %		+10	814 700 005	2.9	0.000 000	0.004
100 %		+30	814 700 005	2.7	0.000 000	0.003
100 %		+40	814 700 005	2.5	0.000 000	0.003
100 %		+50	814 700 005	2.7	0.000 000	0.003
100 %		+20	814 700 004	2.3	0.000 000	0.003
Batt. Endpoint	3.300	+20	814 700 004	2.3	0.000 000	0.003



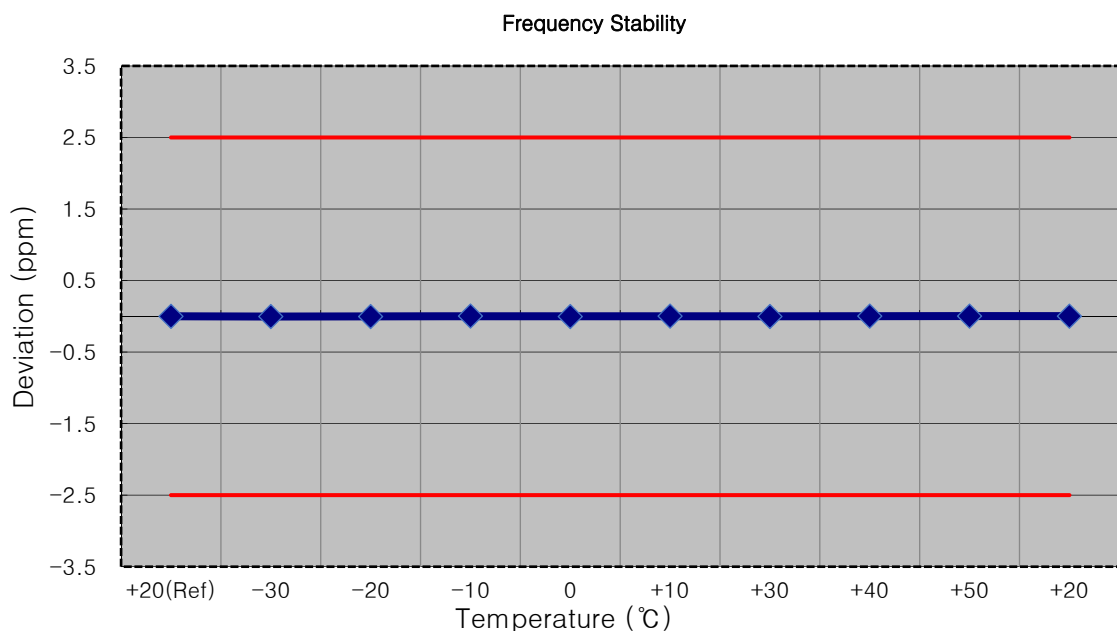
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>815,500,000 Hz</u>
CHANNEL:	<u>26705(3 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	815 499 994	0.0	0.000 000	0.000
100 %		-30	815 500 002	8.6	0.000 001	0.011
100 %		-20	815 500 003	9.0	0.000 001	0.011
100 %		-10	815 500 002	8.3	0.000 001	0.010
100 %		0	815 500 002	8.3	0.000 001	0.010
100 %		+10	815 499 997	2.9	0.000 000	0.004
100 %		+30	815 500 003	9.1	0.000 001	0.011
100 %		+40	815 499 988	-5.9	-0.000 001	-0.007
100 %		+50	815 499 988	-5.6	-0.000 001	-0.007
Batt. Endpoint	3.300	+20	815 500 002	8.5	0.000 001	0.010



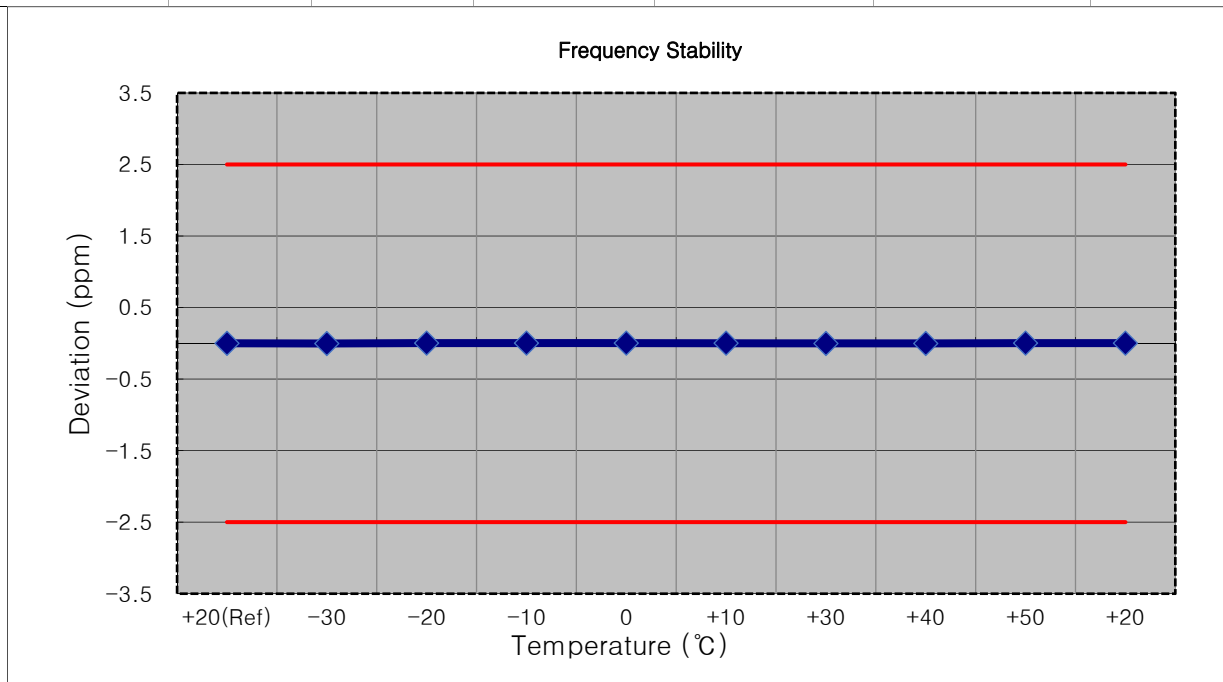
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>816,500,000 Hz</u>
CHANNEL:	<u>26715(5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	816 499 997	0.0	0.000 000	0.000
100 %		-30	816 499 995	-2.7	0.000 000	-0.003
100 %		-20	816 499 995	-2.5	0.000 000	-0.003
100 %		-10	816 500 000	3.1	0.000 000	0.004
100 %		0	816 499 995	-2.4	0.000 000	-0.003
100 %		+10	816 500 000	2.5	0.000 000	0.003
100 %		+30	816 499 995	-2.1	0.000 000	-0.003
100 %		+40	816 500 000	2.6	0.000 000	0.003
100 %		+50	816 500 000	2.7	0.000 000	0.003
Batt. Endpoint	3.300	+20	816 499 999	2.1	0.000 000	0.003



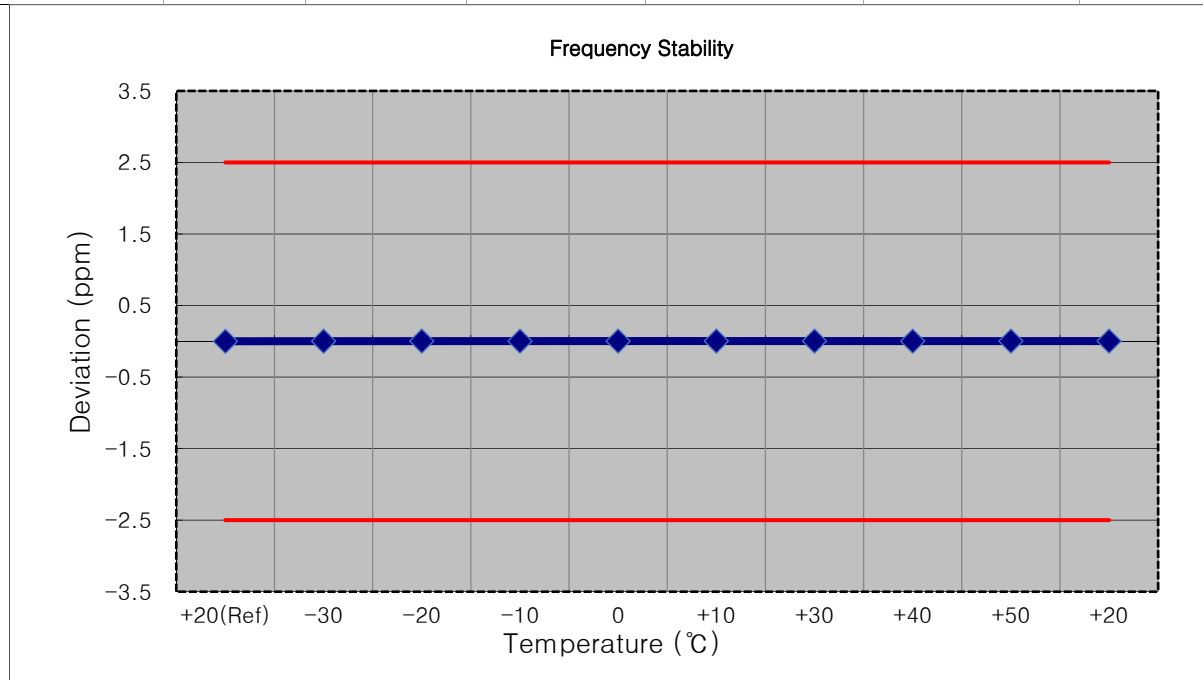
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>819,000,000 Hz</u>
CHANNEL:	<u>26740(10 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	819 000 002	0.0	0.000 000	0.000
100 %		-30	819 000 000	-2.4	0.000 000	-0.003
100 %		-20	819 000 005	2.2	0.000 000	0.003
100 %		-10	819 000 005	2.2	0.000 000	0.003
100 %		0	819 000 005	2.2	0.000 000	0.003
100 %		+10	819 000 004	1.9	0.000 000	0.002
100 %		+30	819 000 001	-1.8	0.000 000	-0.002
100 %		+40	819 000 001	-1.8	0.000 000	-0.002
100 %		+50	819 000 005	2.4	0.000 000	0.003
Batt. Endpoint	3.300	+20	819 000 004	1.9	0.000 000	0.002



MODE: LTE 26
 OPERATING FREQUENCY: 821,500,000 Hz
 CHANNEL: 26765(15 MHz)
 REFERENCE VOLTAGE: 3.900 VDC
 DEVIATION LIMIT: $\pm 0.000\ 25\ %$ or $2.5\ \text{ppm}$

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	821 500 002	0.0	0.000 000	0.000
100 %		-30	821 500 004	1.5	0.000 000	0.002
100 %		-20	821 500 005	3.0	0.000 000	0.004
100 %		-10	821 500 004	2.1	0.000 000	0.003
100 %		0	821 500 004	2.2	0.000 000	0.003
100 %		+10	821 500 005	3.1	0.000 000	0.004
100 %		+30	821 500 005	3.0	0.000 000	0.004
100 %		+40	821 500 004	1.6	0.000 000	0.002
100 %		+50	821 500 005	2.3	0.000 000	0.003
Batt. Endpoint	3.300	+20	821 500 005	2.7	0.000 000	0.003



9.8 STRADDLE CHANNEL

9.8.1 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	23.63	0.230	100
		1	3	23.61	0.230	100
		1	5	23.64	0.231	100
		3	0	23.57	0.228	100
		3	1	23.51	0.225	100
		3	3	23.56	0.227	100
		6	0	22.54	0.179	100
	16QAM	1	0	22.90	0.195	100
		1	3	22.81	0.191	100
		1	5	22.85	0.193	100
		3	0	22.48	0.177	100
		3	1	22.66	0.185	100
		3	3	22.64	0.183	100
		6	0	21.59	0.144	100
	64QAM	1	0	21.76	0.150	100
		1	3	21.78	0.150	100
		1	5	21.74	0.149	100
		3	0	21.60	0.145	100
		3	1	21.57	0.144	100
		3	3	21.57	0.144	100
		6	0	20.50	0.112	100
	256QAM	1	0	18.58	0.072	100
		1	3	18.55	0.072	100
		1	5	18.66	0.073	100
		3	0	18.62	0.073	100
		3	1	18.56	0.072	100
		3	3	18.59	0.072	100
		6	0	18.54	0.071	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	23.68	0.233	100
		1	7	23.62	0.230	100
		1	14	23.64	0.231	100
		8	0	22.57	0.181	100
		8	3	22.62	0.183	100
		8	7	22.59	0.181	100
		15	0	22.63	0.183	100
	16QAM	1	0	22.95	0.197	100
		1	7	22.89	0.195	100
		1	14	22.86	0.193	100
		8	0	21.69	0.147	100
		8	3	21.66	0.147	100
		8	7	21.70	0.148	100
		15	0	21.56	0.143	100
	64QAM	1	0	21.80	0.151	100
		1	7	21.65	0.146	100
		1	14	21.82	0.152	100
		8	0	20.59	0.114	100
		8	3	20.61	0.115	100
		8	7	20.62	0.115	100
		15	0	20.59	0.114	100
	256QAM	1	0	18.65	0.073	100
		1	7	18.55	0.072	100
		1	14	18.60	0.073	100
		8	0	18.59	0.072	100
		8	3	18.55	0.072	100
		8	7	18.55	0.072	100
		15	0	18.48	0.070	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	23.69	0.234	100
		1	12	23.64	0.231	100
		1	24	23.66	0.232	100
		12	0	22.63	0.183	100
		12	6	22.58	0.181	100
		12	11	22.58	0.181	100
		25	0	22.58	0.181	100
	16QAM	1	0	22.93	0.197	100
		1	12	22.94	0.197	100
		1	24	22.85	0.193	100
		12	0	21.69	0.148	100
		12	6	21.63	0.146	100
		12	11	21.63	0.146	100
		25	0	21.59	0.144	100
	64QAM	1	0	21.81	0.152	100
		1	12	21.68	0.147	100
		1	24	21.77	0.150	100
		12	0	20.63	0.115	100
		12	6	20.63	0.115	100
		12	11	20.48	0.112	100
		25	0	20.57	0.114	100
	256QAM	1	0	18.69	0.074	100
		1	12	18.55	0.072	100
		1	24	18.63	0.073	100
		12	0	18.58	0.072	100
		12	6	18.55	0.072	100
		12	11	18.53	0.071	100
		25	0	18.53	0.071	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	23.69	0.234	100
		1	24	23.70	0.234	100
		1	49	23.64	0.231	100
		25	0	22.59	0.181	100
		25	12	22.62	0.183	100
		25	24	22.55	0.180	100
		50	0	22.59	0.181	100
	16QAM	1	0	22.93	0.196	100
		1	24	22.95	0.197	100
		1	49	22.90	0.195	100
		25	0	21.58	0.144	100
		25	12	21.58	0.144	100
		25	24	21.57	0.144	100
		50	0	21.58	0.144	100
	64QAM	1	0	21.75	0.150	100
		1	24	21.77	0.150	100
		1	49	21.69	0.148	100
		25	0	20.57	0.114	100
		25	12	20.55	0.113	100
		25	24	20.54	0.113	100
		50	0	20.59	0.115	100
	256QAM	1	0	18.71	0.074	100
		1	24	18.61	0.073	100
		1	49	18.65	0.073	100
		25	0	18.57	0.072	100
		25	12	18.53	0.071	100
		25	24	18.53	0.071	100
		50	0	18.54	0.071	100

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	-35.06	27.94	-9.95	1.44	H	< 7.00	0.045	16.55	1	0
		16QAM	-35.81	27.19	-9.95	1.44	H		0.038	15.80		
		64QAM	-36.94	26.06	-9.95	1.44	H		0.029	14.67		
		256QAM	-40.11	22.89	-9.95	1.44	H		0.014	11.50		

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	-35.08	27.92	-9.95	1.44	H	< 7.00	0.045	16.53	1	0
		16QAM	-35.89	27.11	-9.95	1.44	H		0.037	15.72		
		64QAM	-36.98	26.02	-9.95	1.44	H		0.029	14.63		
		256QAM	-40.14	22.86	-9.95	1.44	H		0.014	11.47		

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	-34.98	28.02	-9.95	1.44	H	< 7.00	0.046	16.63	1	0
		16QAM	-35.83	27.17	-9.95	1.44	H		0.038	15.78		
		64QAM	-37.02	25.98	-9.95	1.44	H		0.029	14.59		
		256QAM	-40.09	22.91	-9.95	1.44	H		0.014	11.52		

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	-34.99	28.01	-9.95	1.44	H	< 7.00	0.046	16.62	1	0
		16QAM	-35.81	27.19	-9.95	1.44	H		0.038	15.80		
		64QAM	-36.96	26.04	-9.95	1.44	H		0.029	14.65		
		256QAM	-40.24	22.76	-9.95	1.44	H		0.014	11.37		

9.8.3 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	-33.80	9.44	-48.74	2.02	H	-41.32	-13.00	1	0
	2 472.00	-32.79	10.35	-43.99	2.59	V	-36.23	-13.00		
	3 296.00	-52.90	11.06	-61.06	2.95	H	-52.95	-13.00		

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	8.1755	28.591	-57.912	-29.321	-13.00
	3		6.3410	28.591	-57.370	-28.779	
	5		9.7009	28.591	-55.736	-27.145	
	10		4.0479	27.976	-56.258	-28.282	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 193 ~ 196.
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)

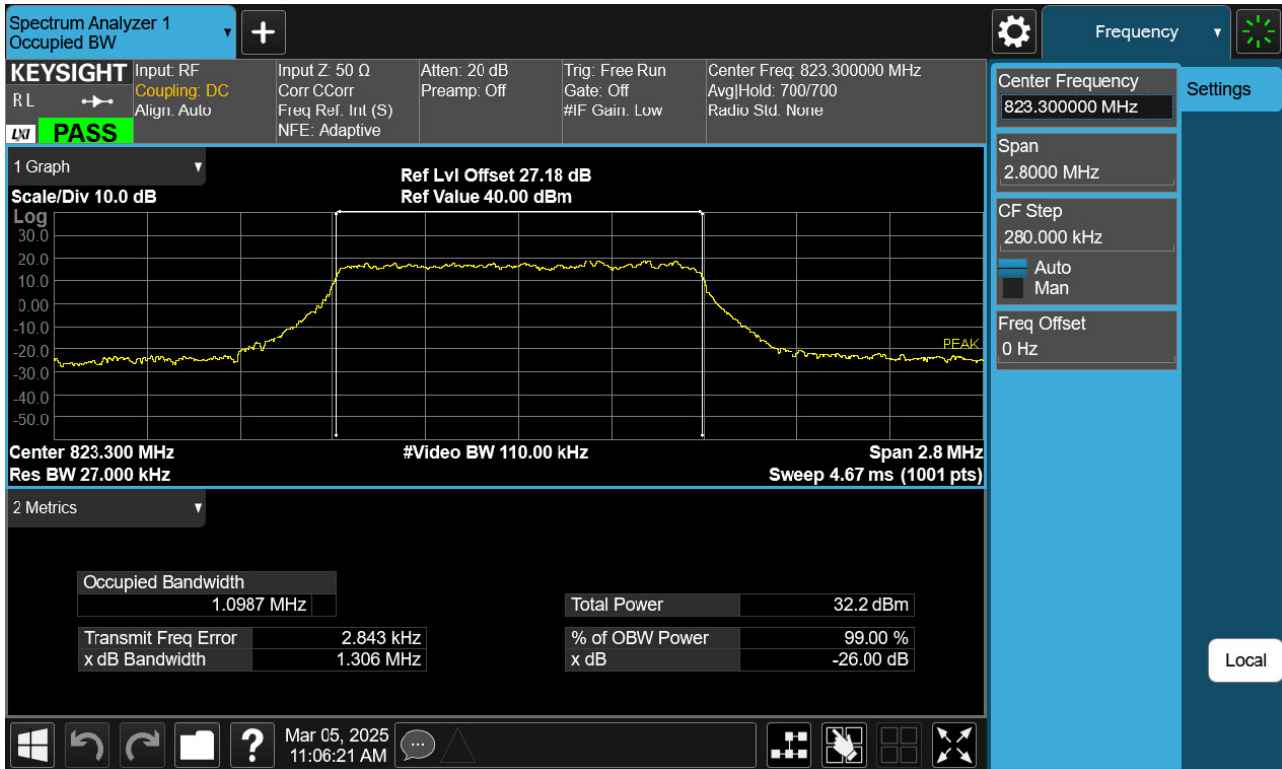
- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Band Edge are shown Page 197 ~ 208.

9.8.6 BAND EDGE(Part22)

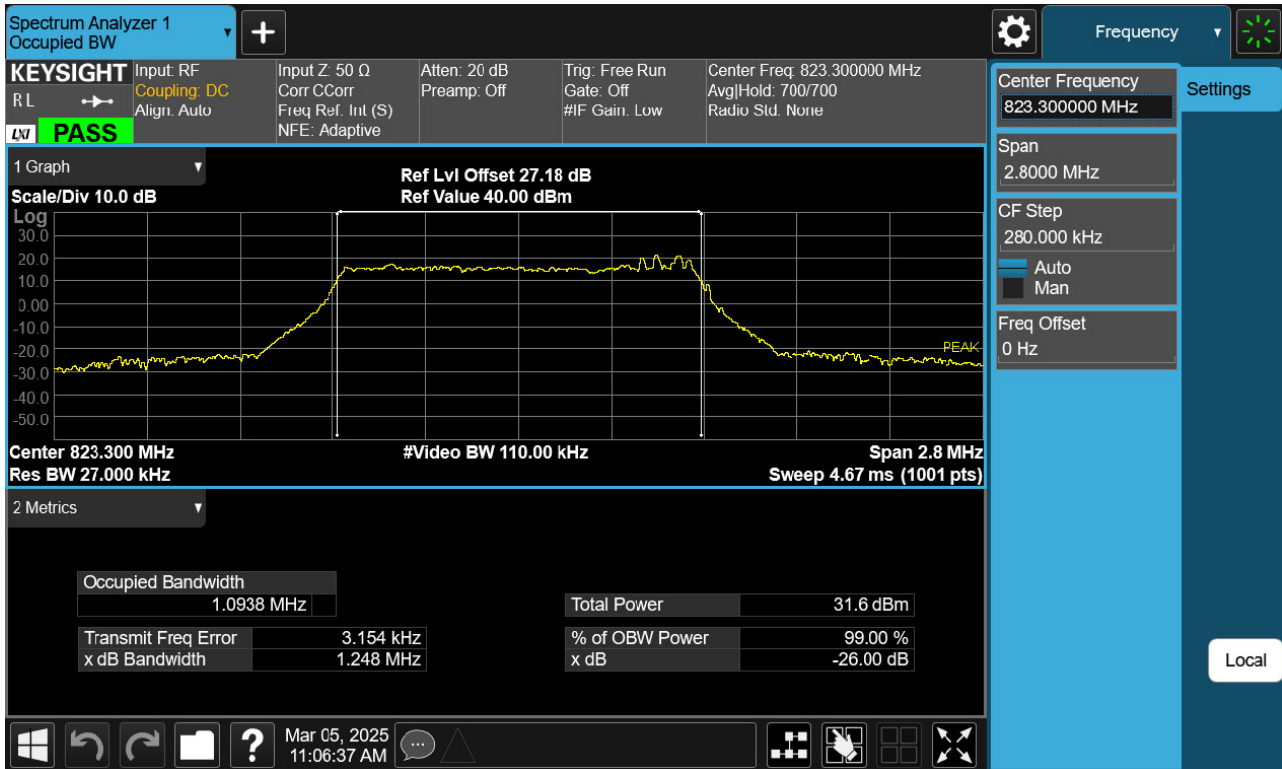
- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 209 ~ 216.

10. TEST PLOTS(Main 1 ANT)

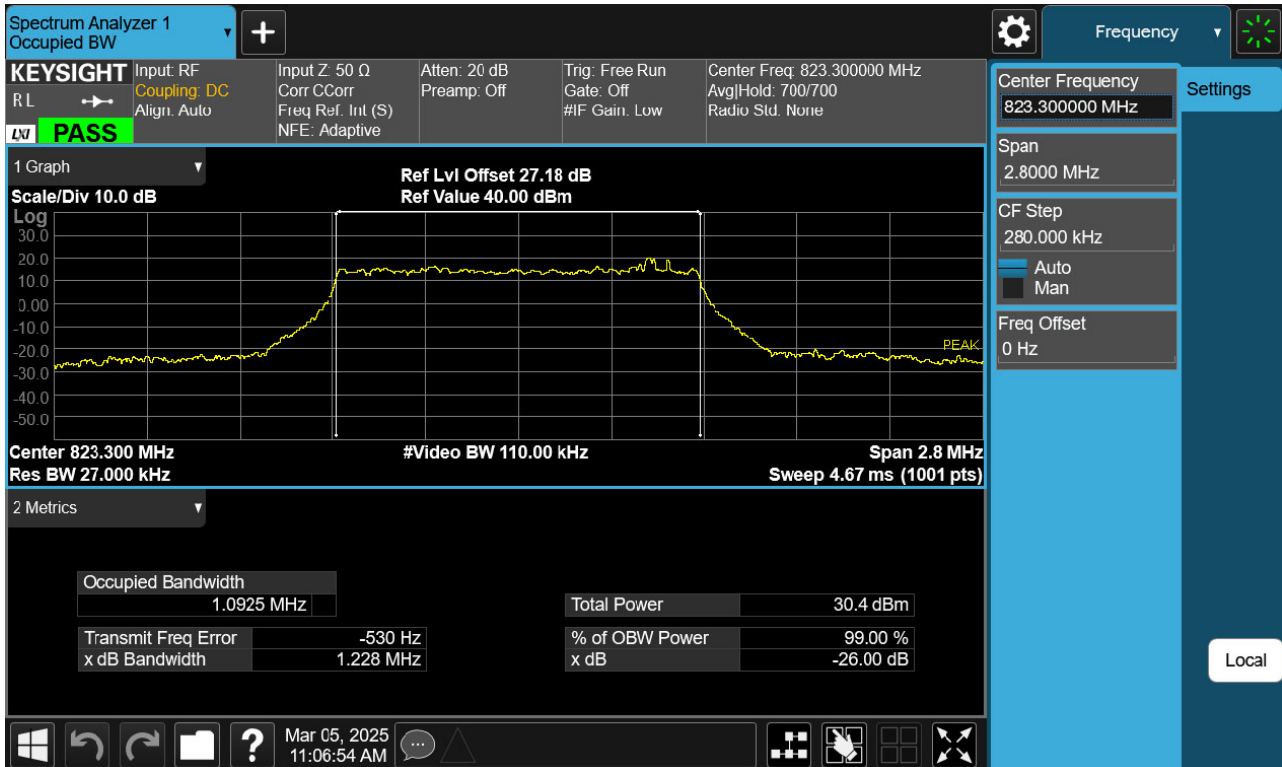
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 QPSK RB 6_0)



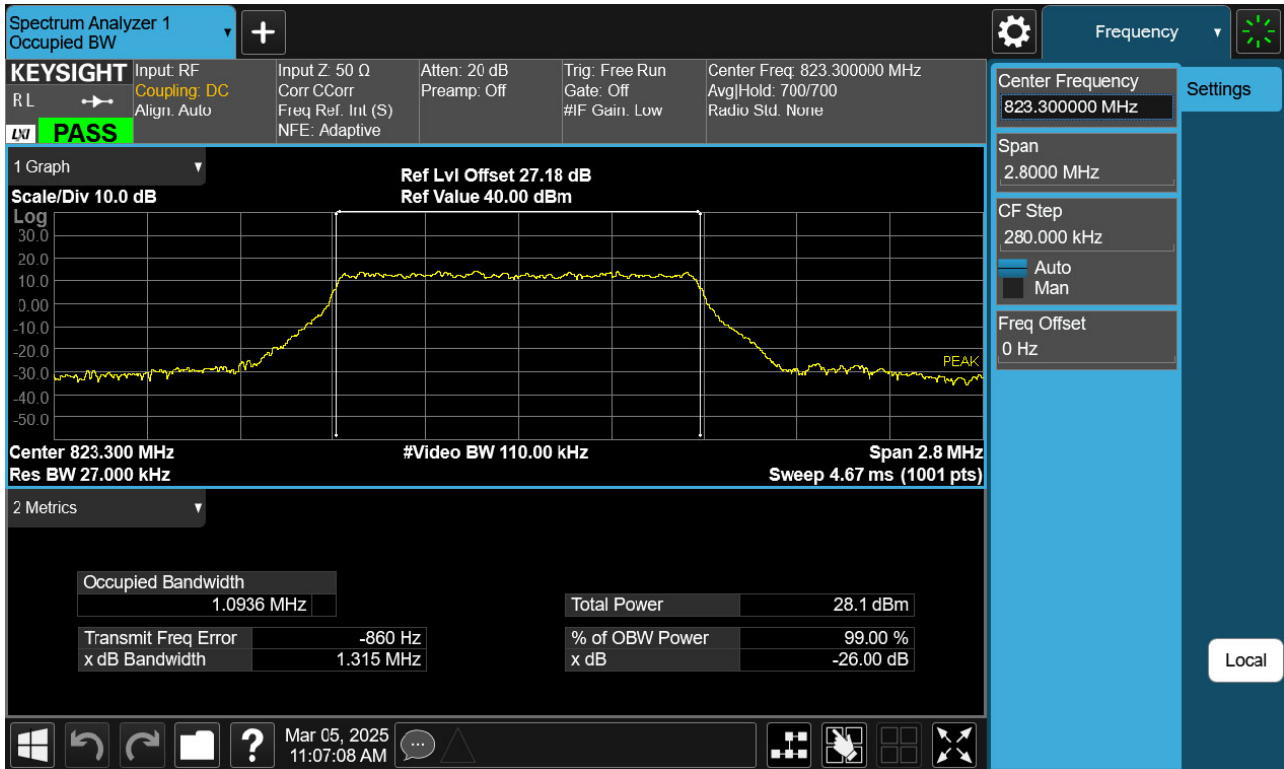
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 16QAM RB 6_0)



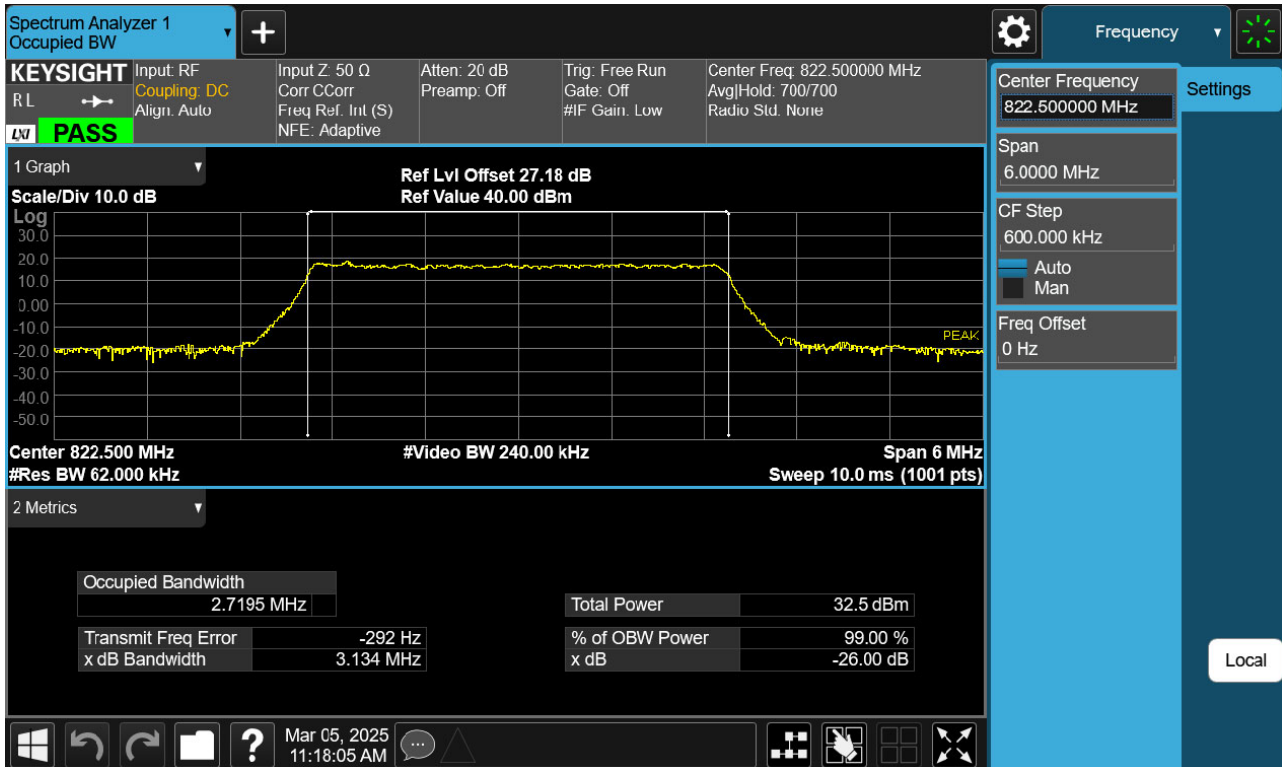
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 64QAM RB 6_0)



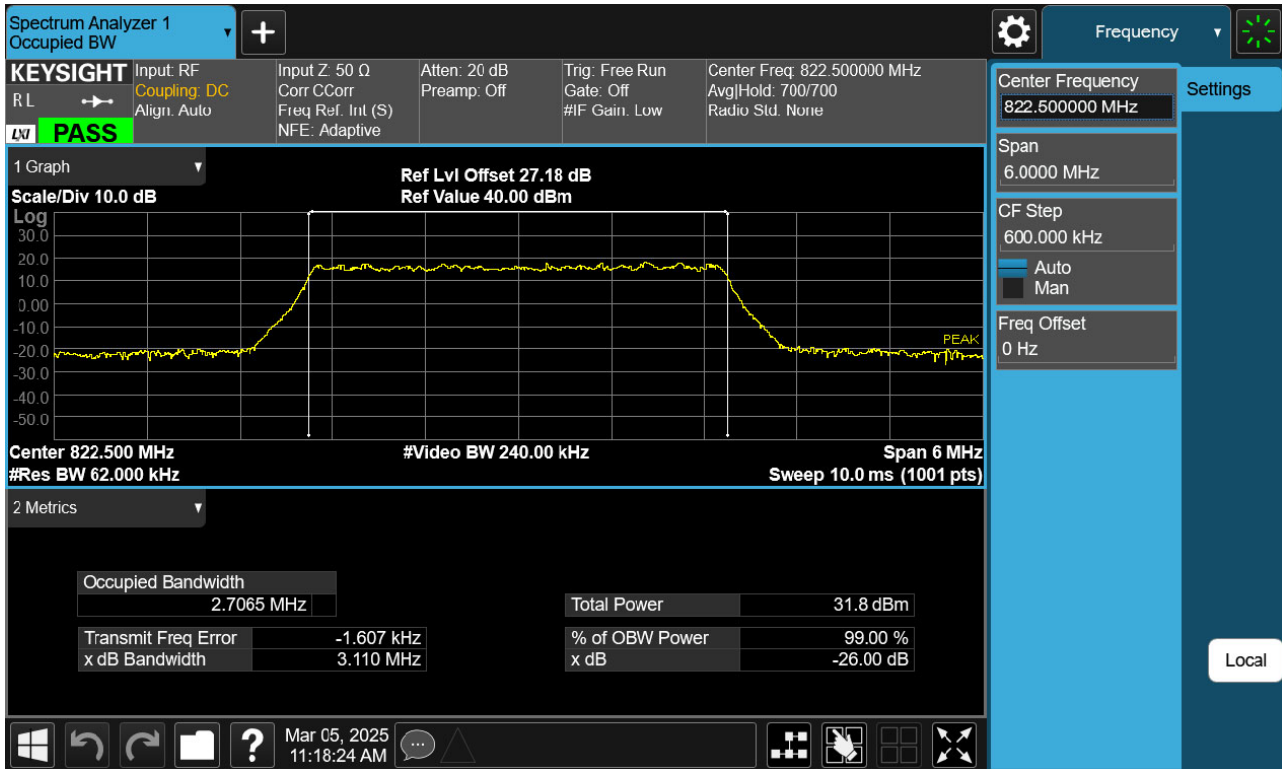
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 256QAM RB 6_0)



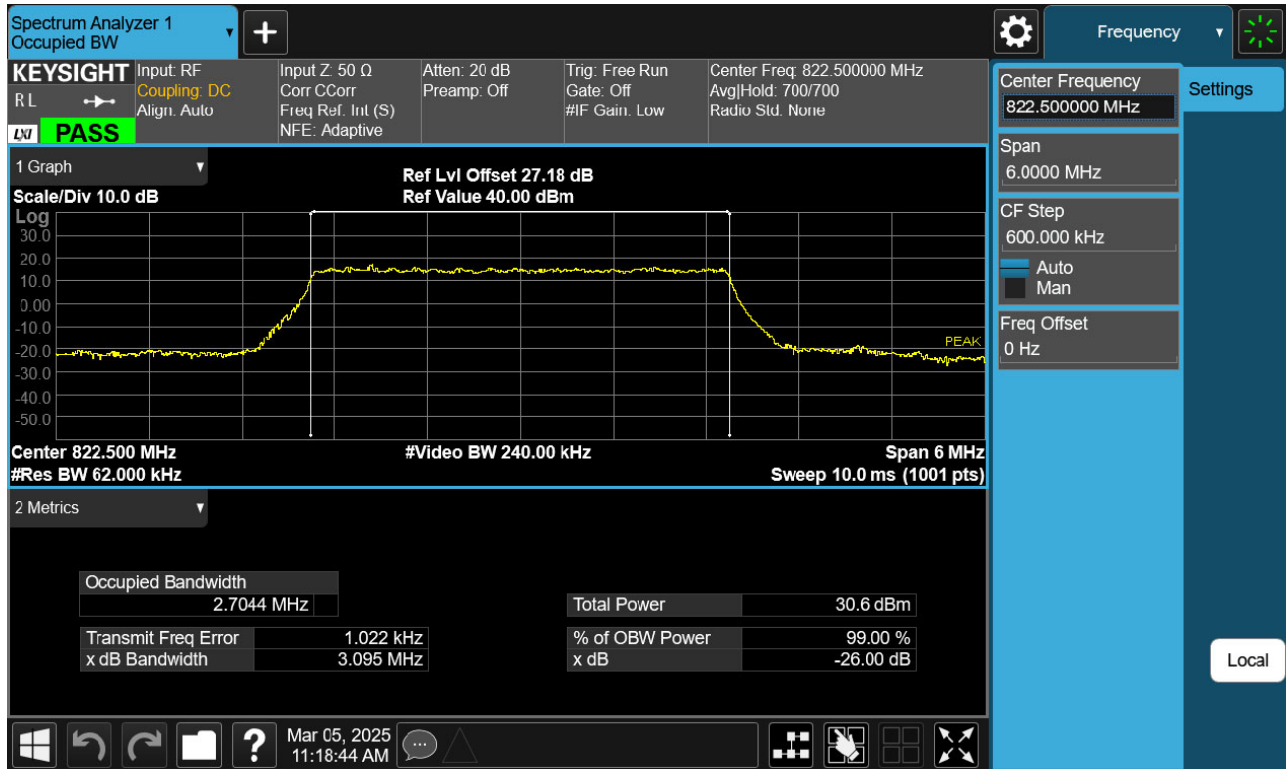
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 QPSK RB 15_0)



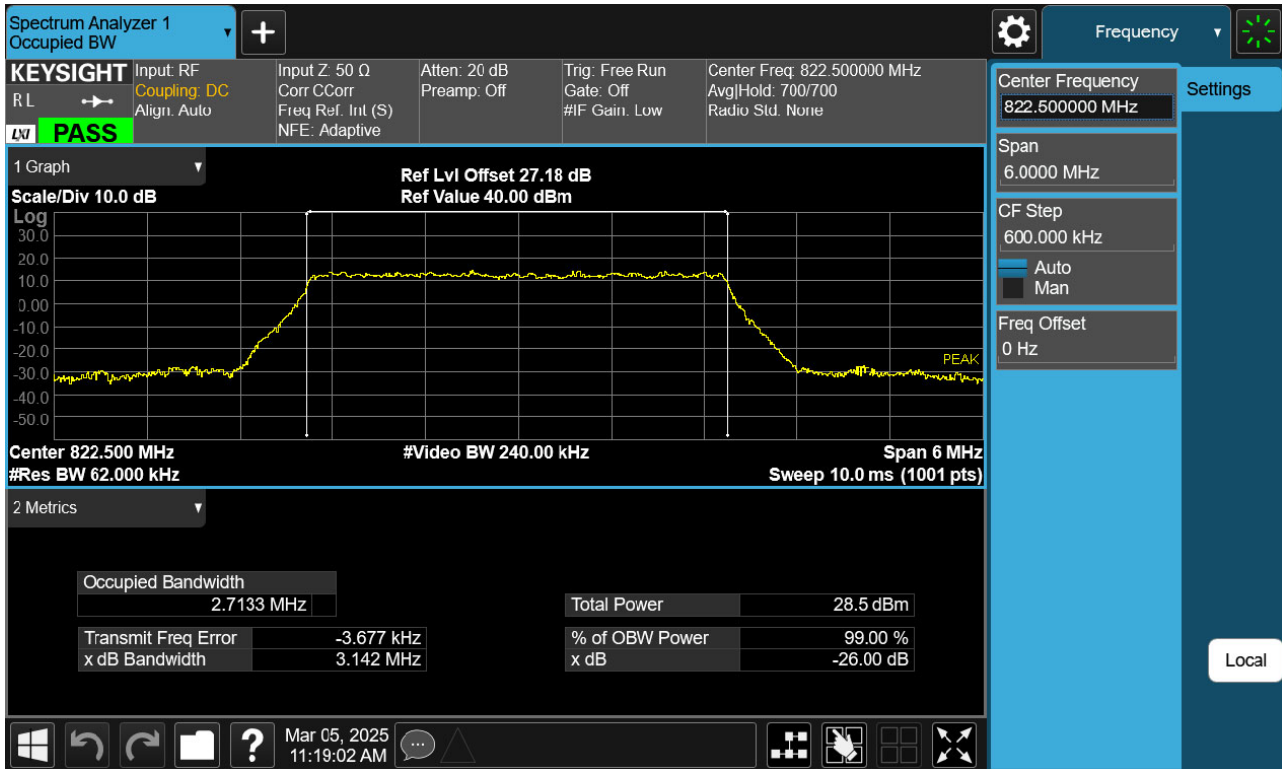
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 16QAM RB 15_0)



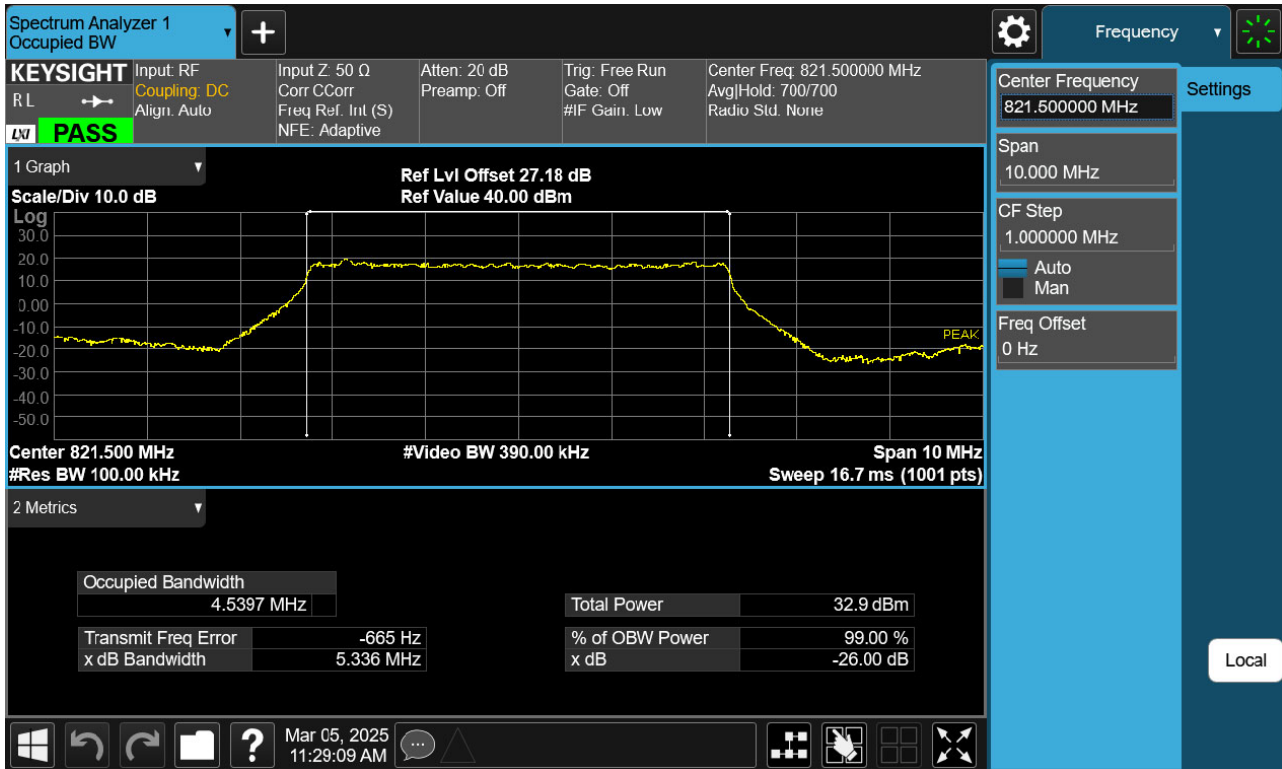
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 64QAM RB 15_0)



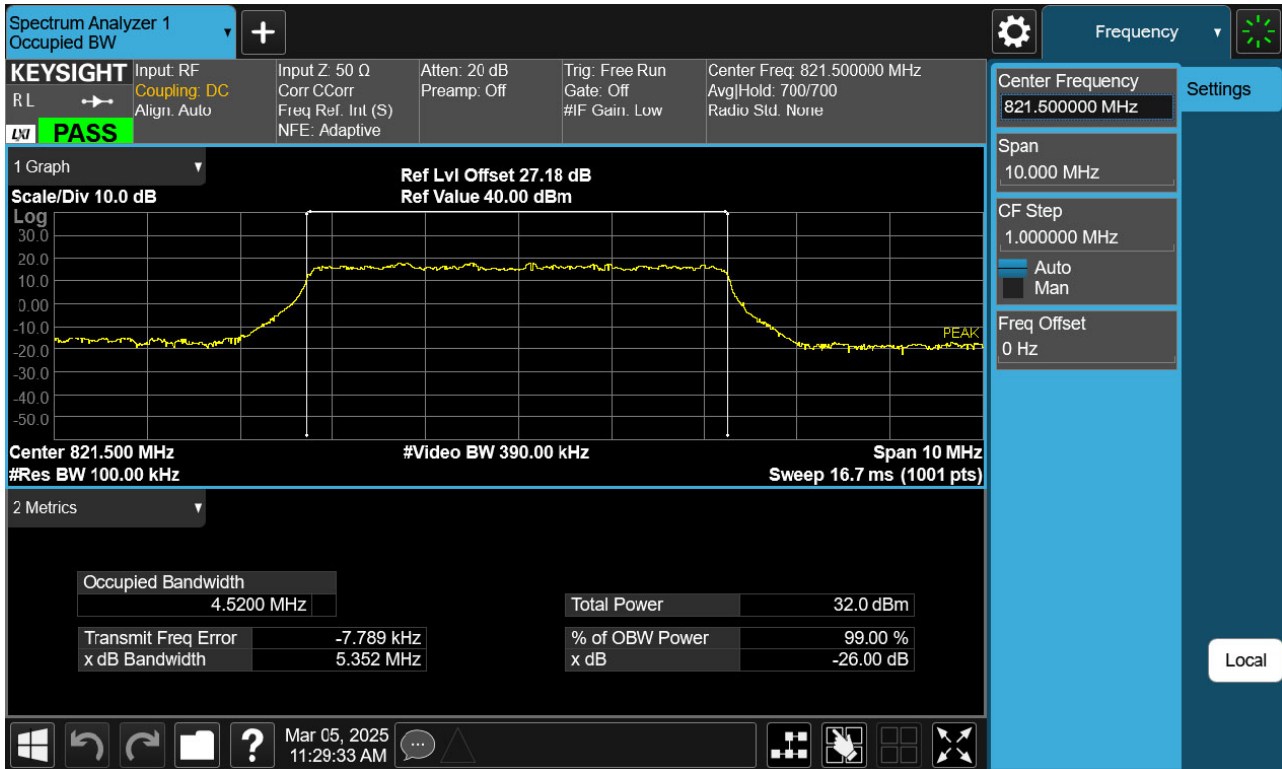
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 256QAM RB 15_0)



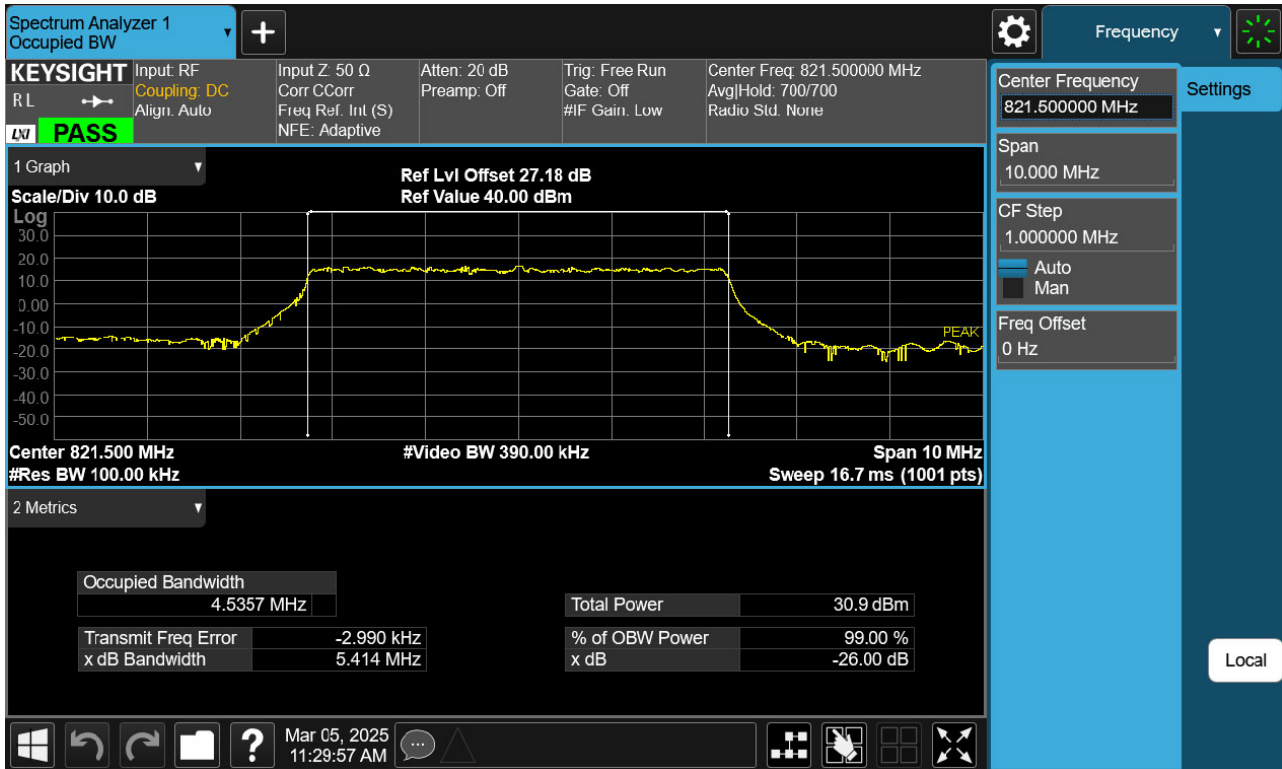
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 QPSK RB 25_0)



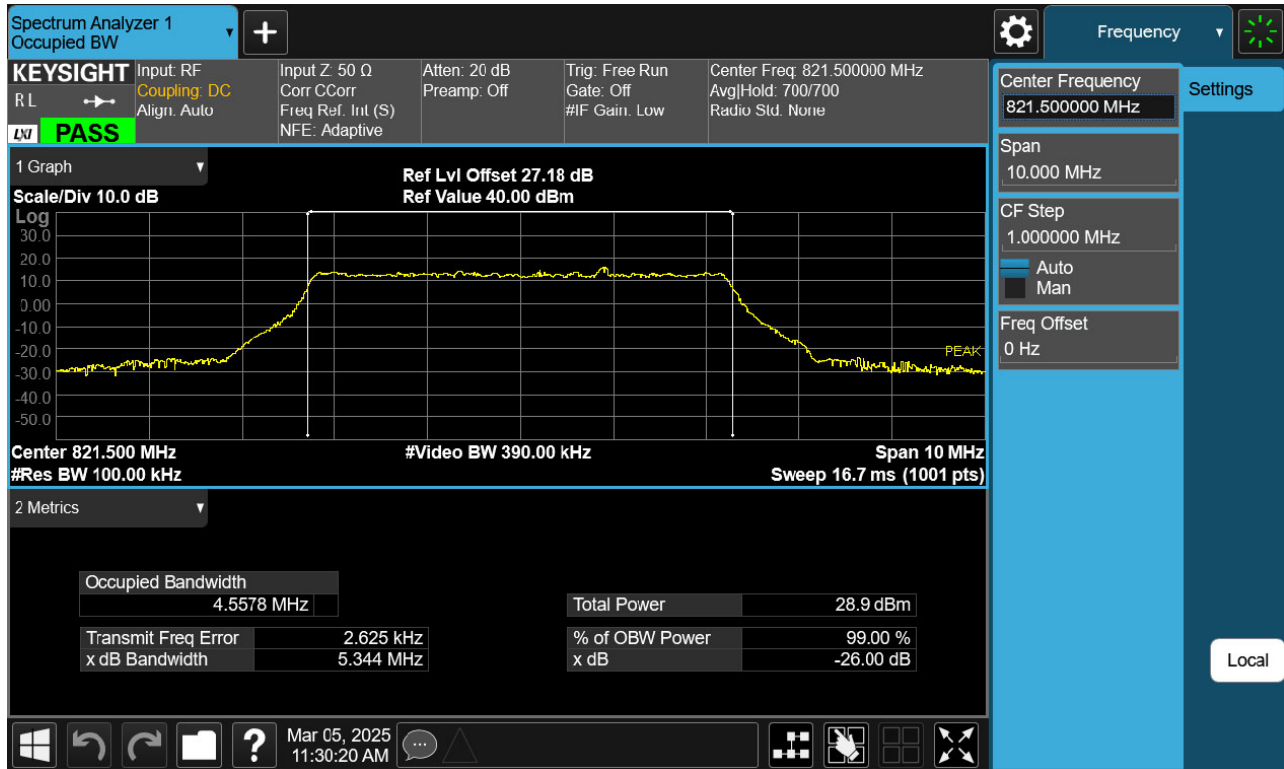
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 16QAM RB 25_0)



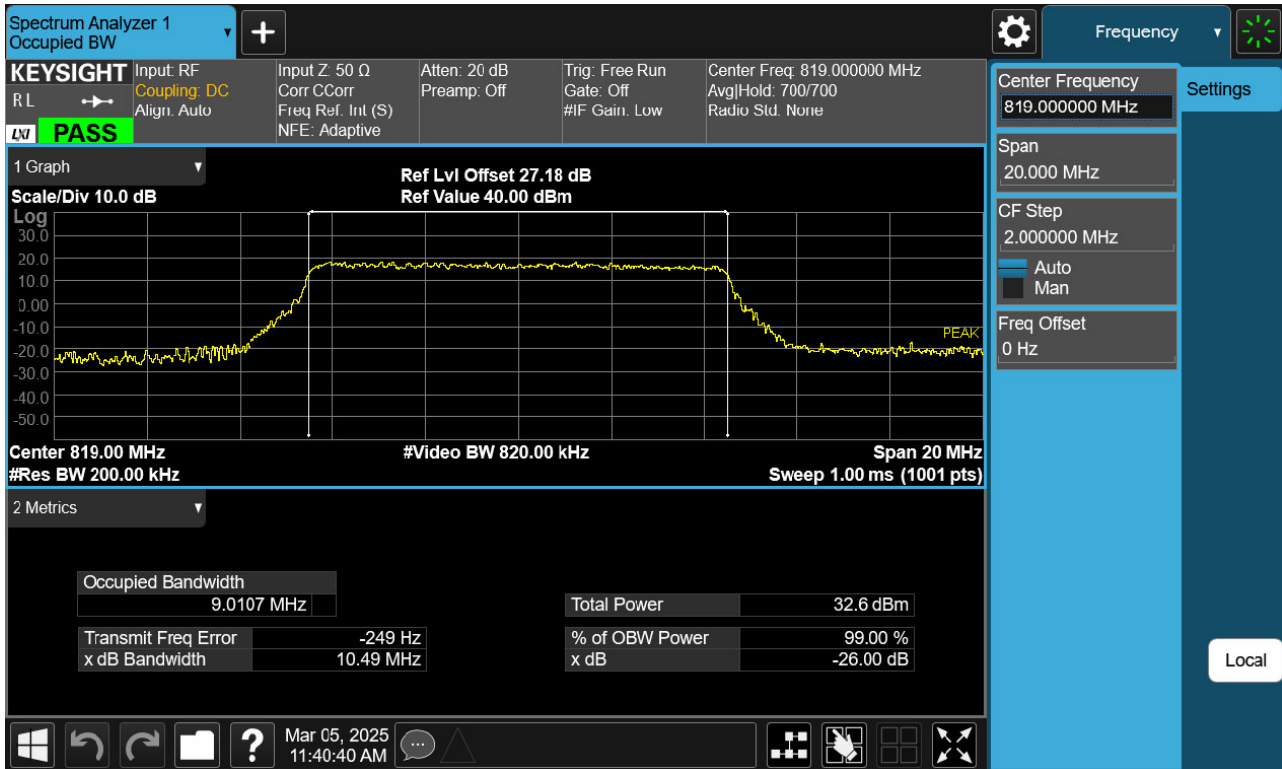
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 64QAM RB 25_0)



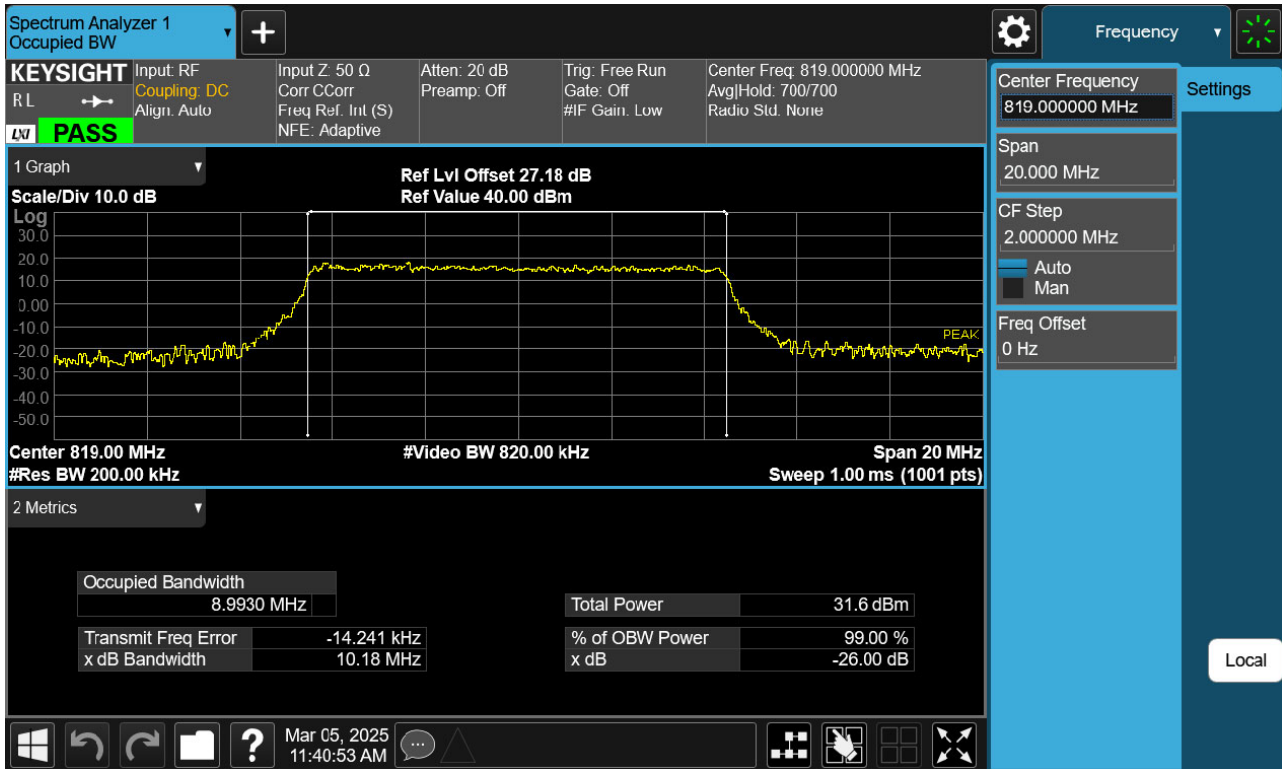
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 256QAM RB 25_0)



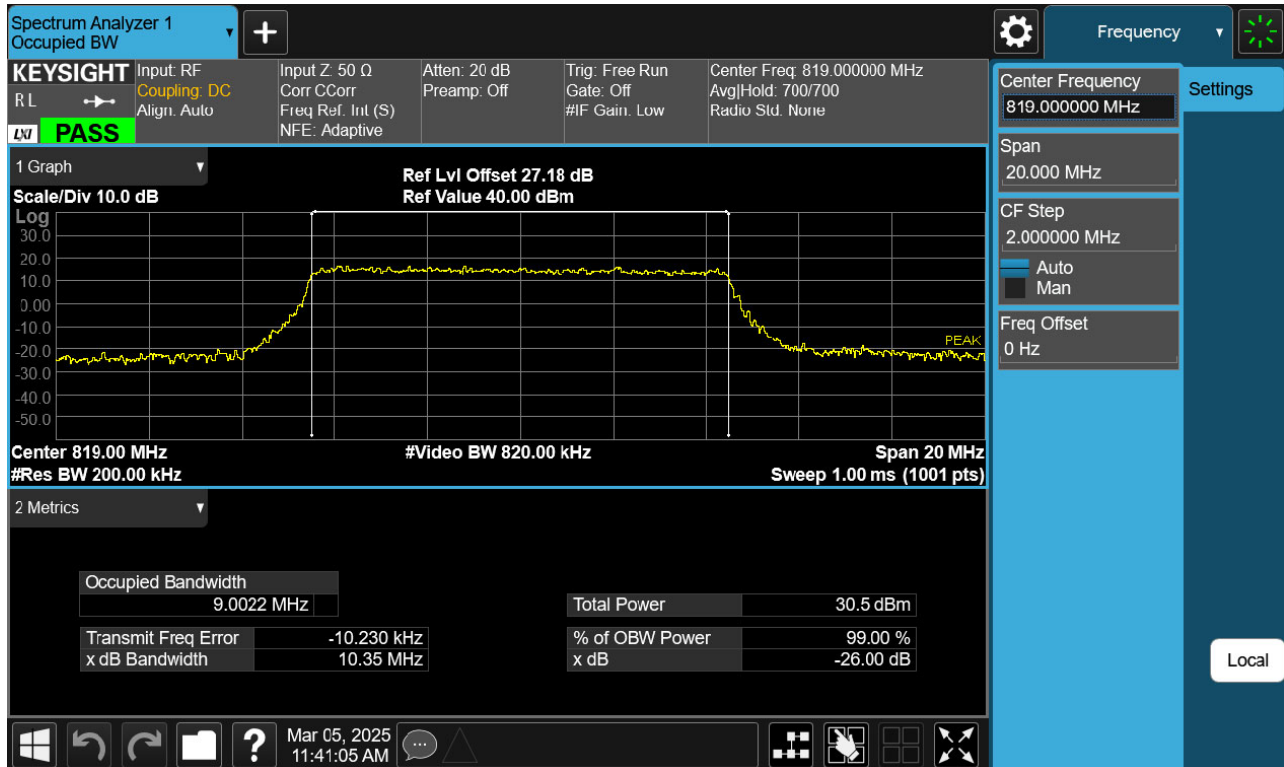
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 QPSK RB 50_0)



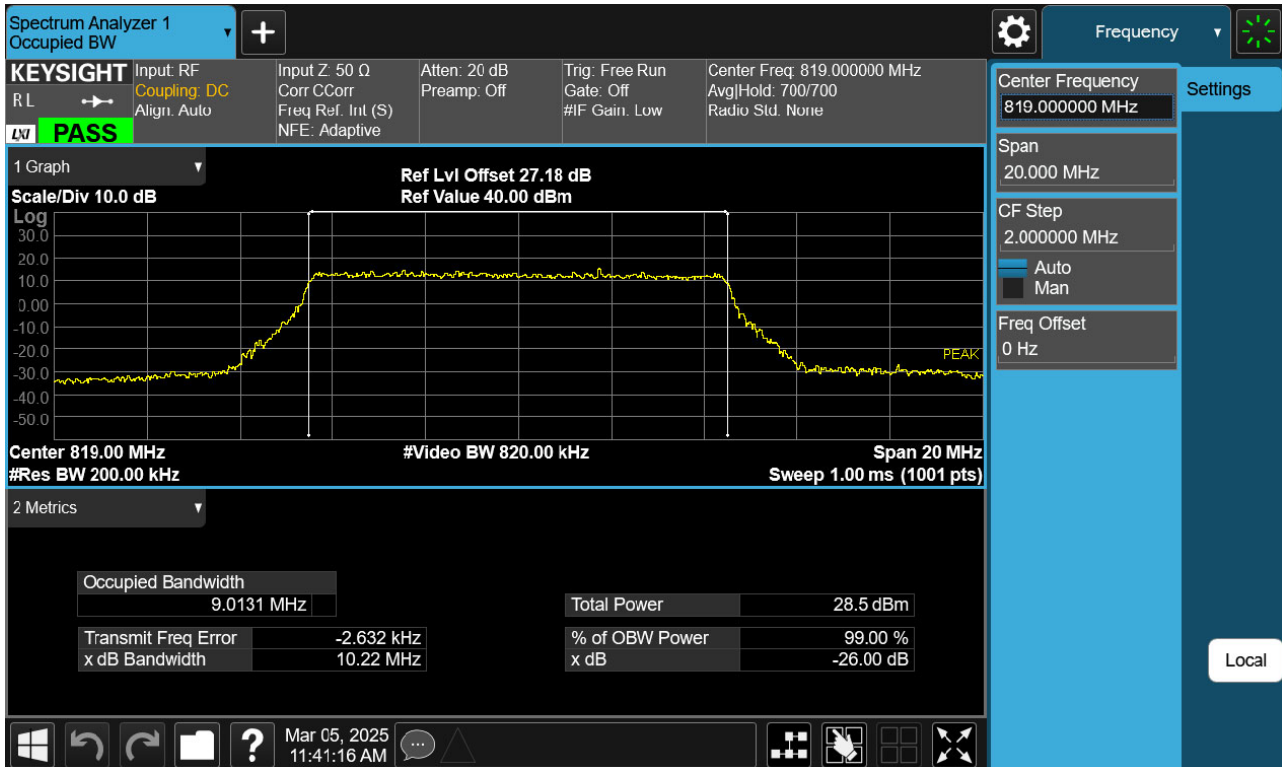
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 16QAM RB 50_0)



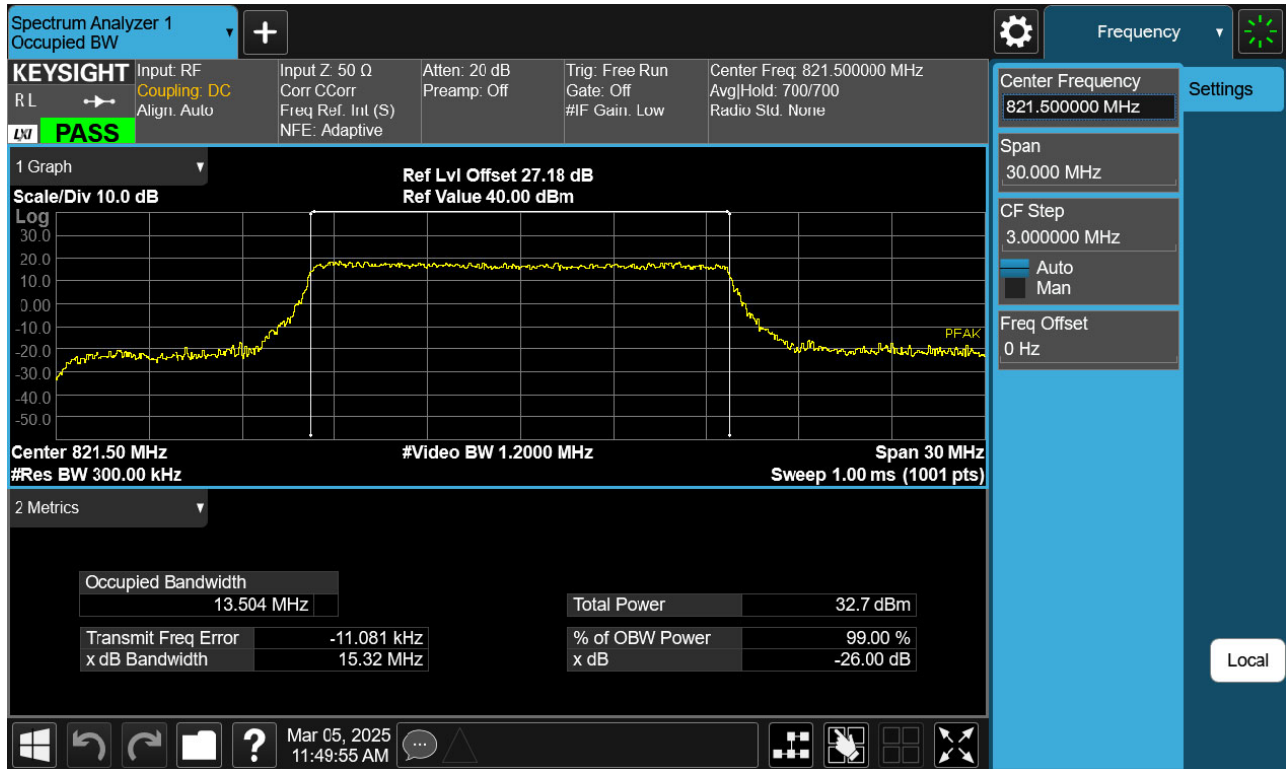
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 64QAM RB 50_0)



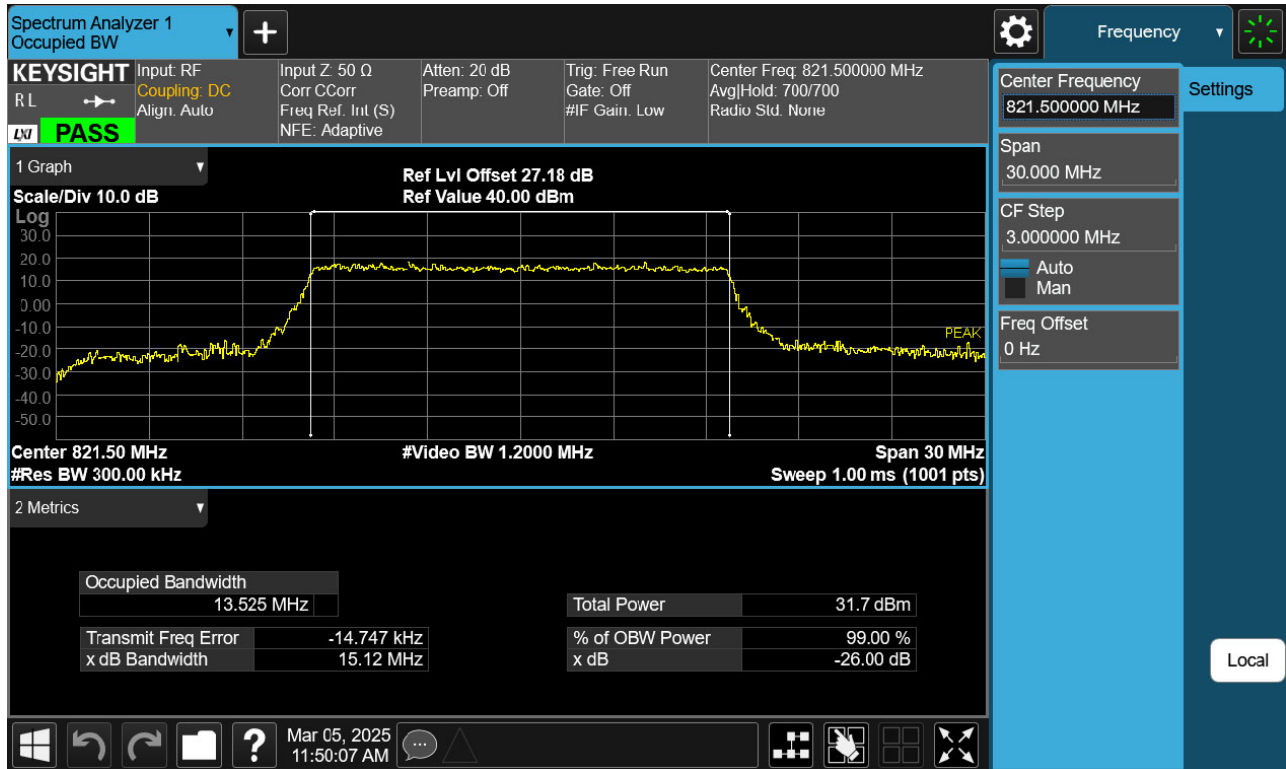
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 256QAM RB 50_0)



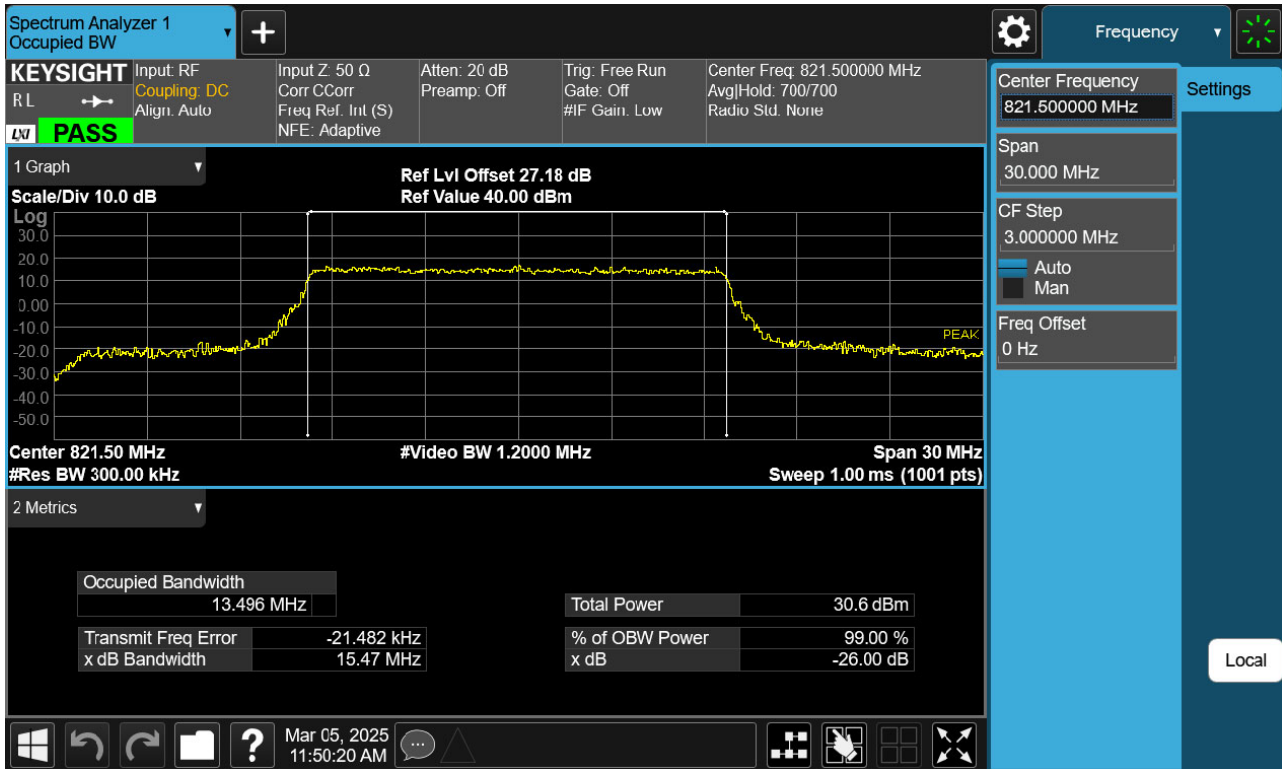
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 QPSK RB 75_0)



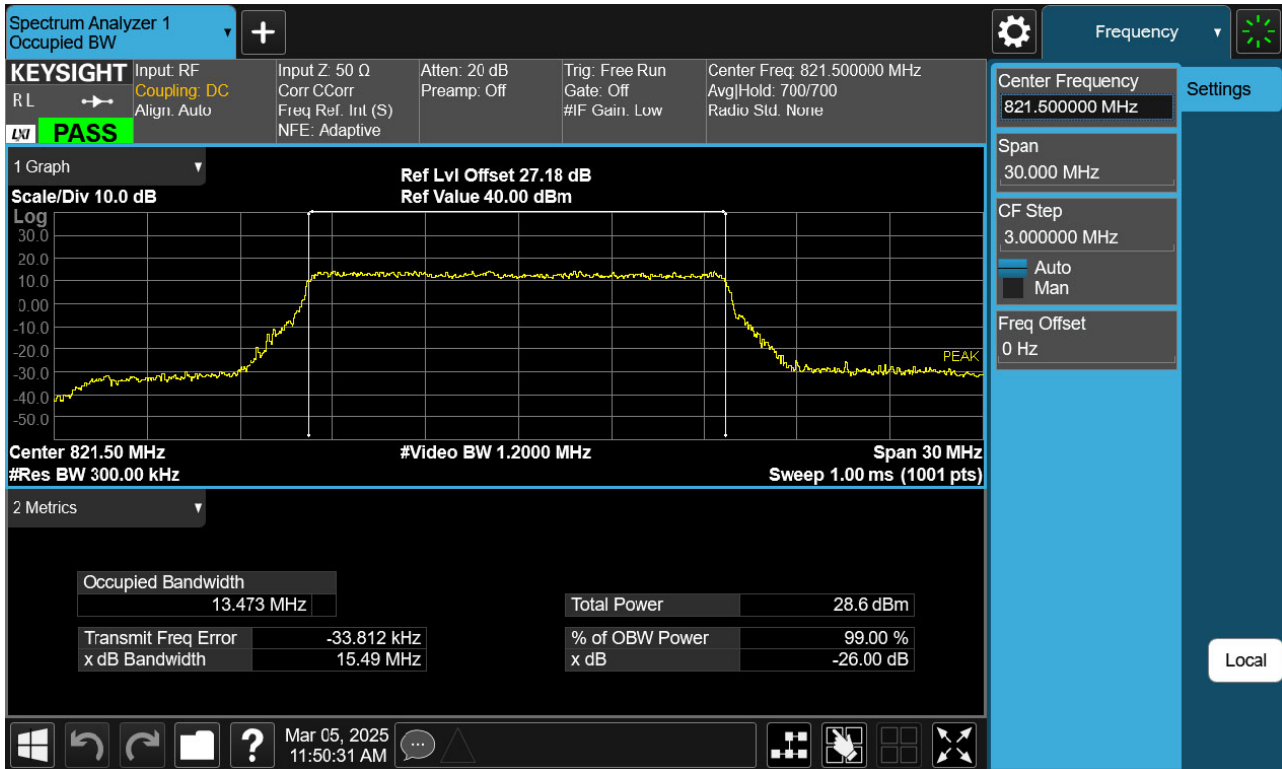
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 16QAM RB 75_0)



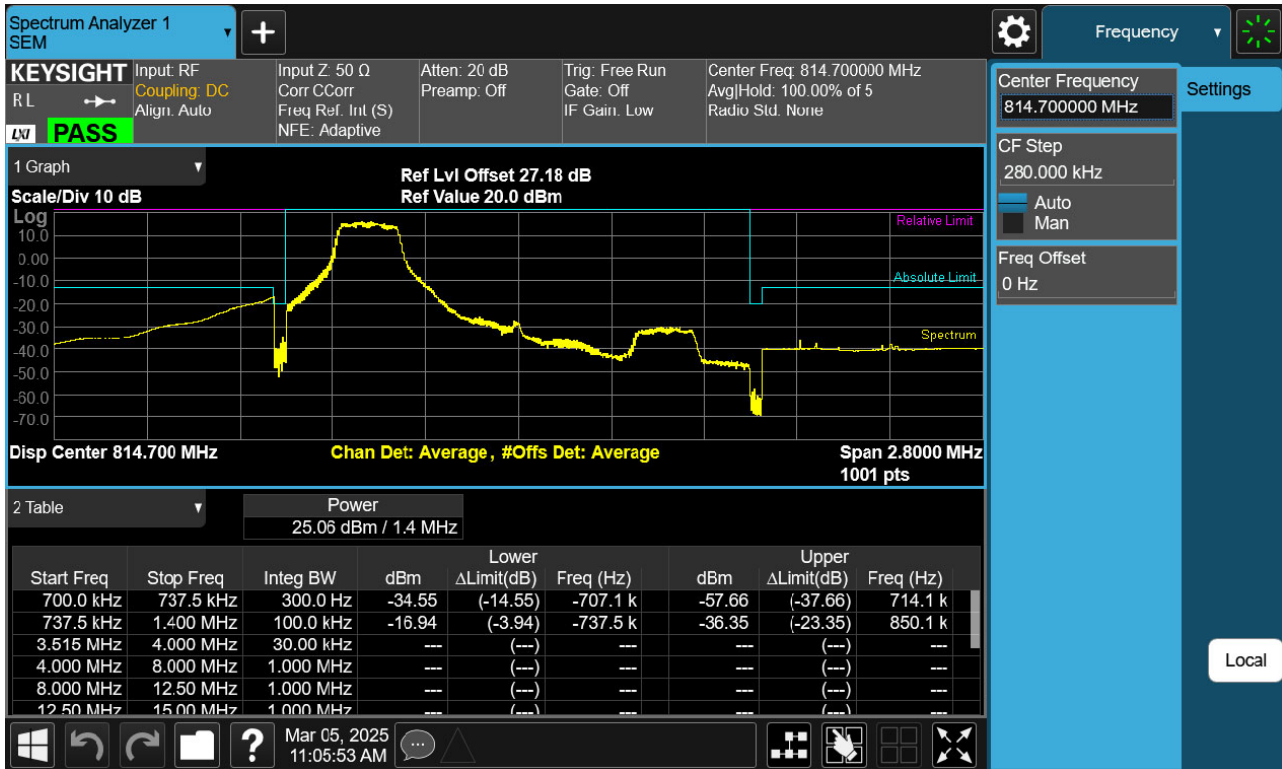
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 64QAM RB 75_0)



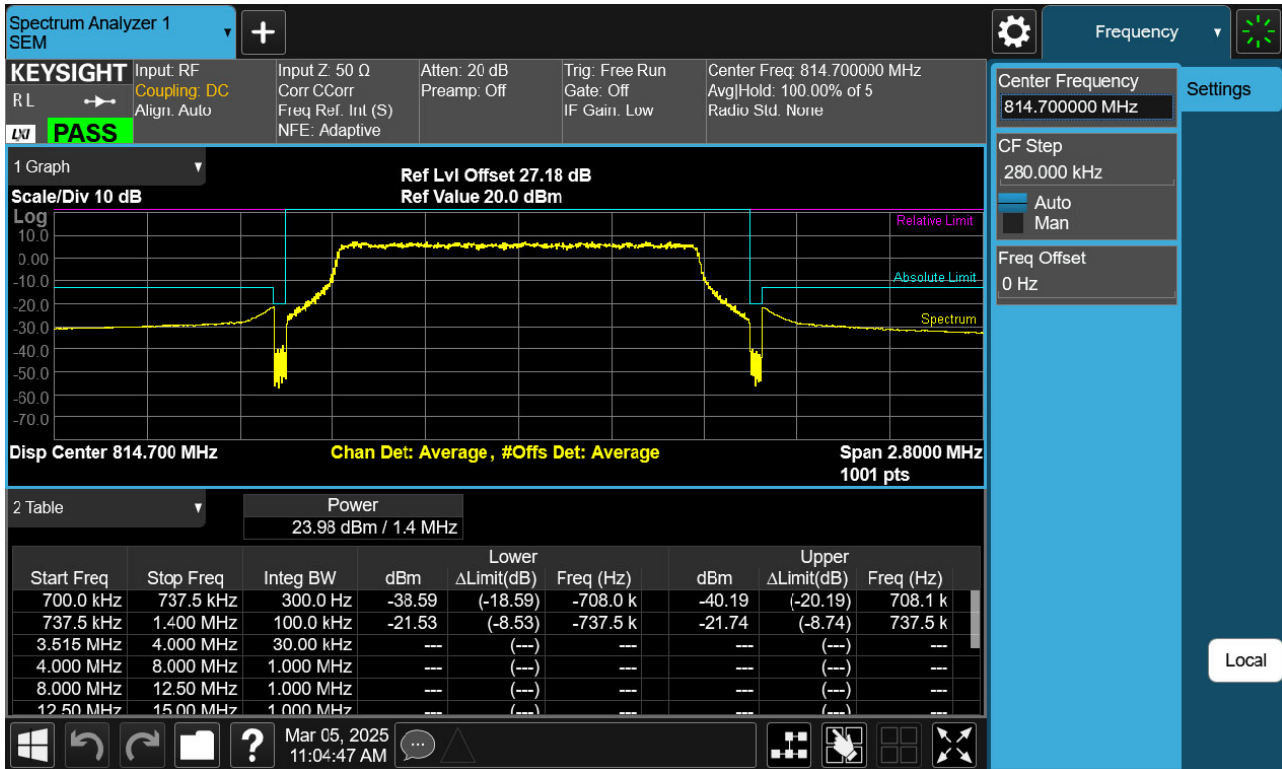
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 256QAM RB 75_0)



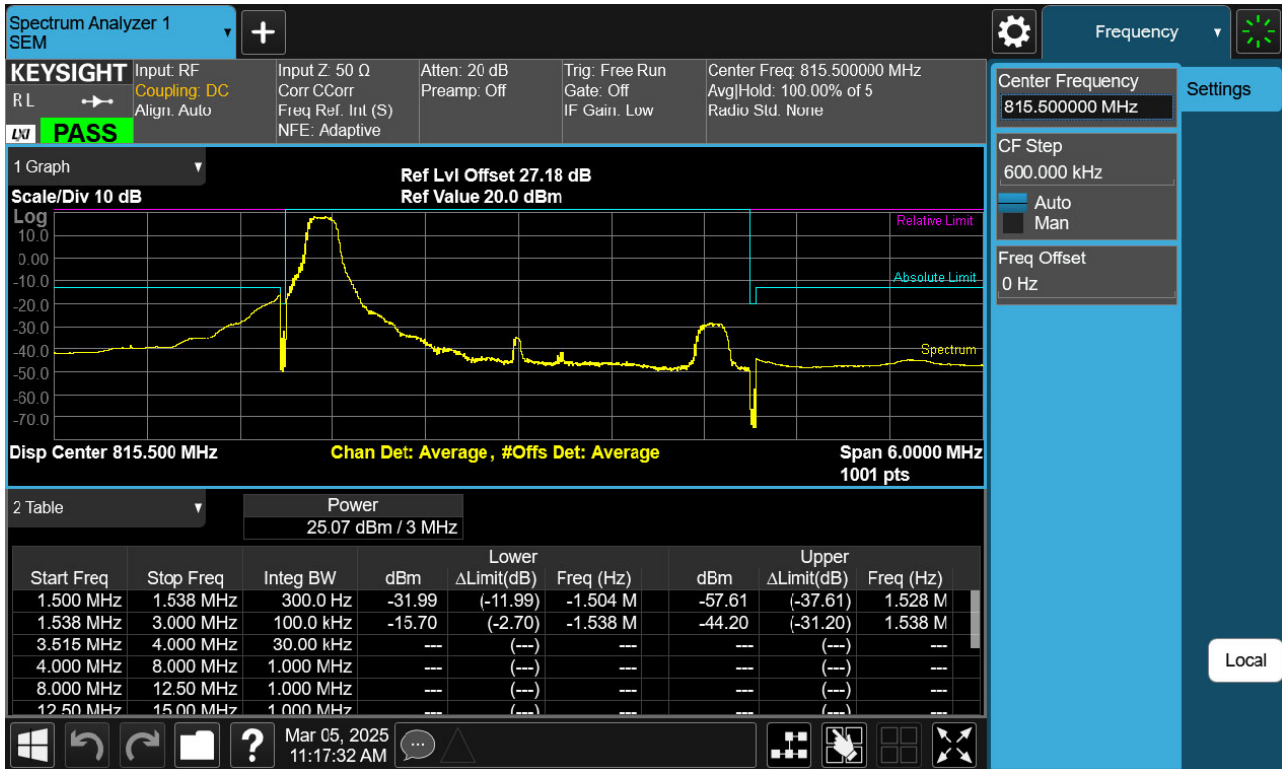
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK RB 1, Offset 0)



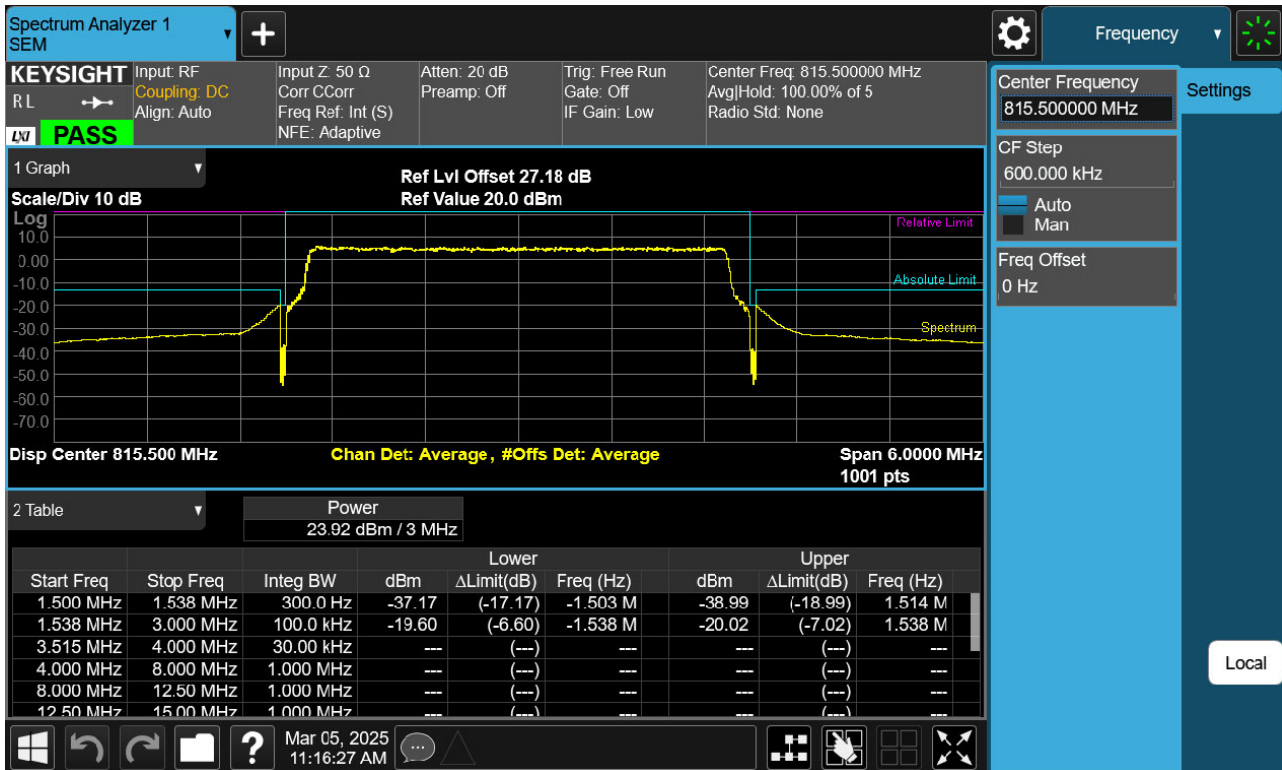
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK_RB6_Offset 0)



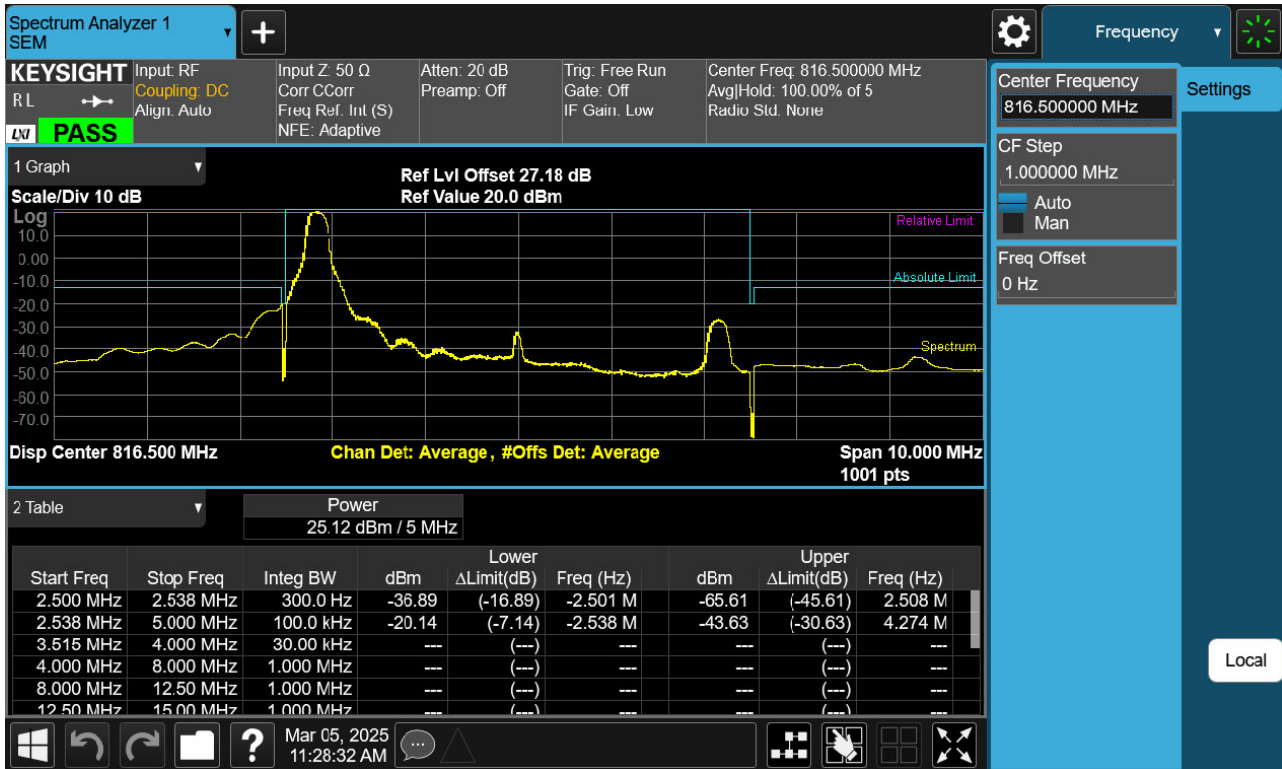
BAND 26. Lower Channel Edge Plot (3 M BW Ch.26705 QPSK RB 1, Offset 0)



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



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



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

