

TEST REPORT

FCC LTE B26(Part90) Test for SM-F766B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2505-FC029-R1

DATE OF ISSUE
May 27, 2025

Tested by
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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-F766B

Date of Test

February 24, 2025 ~ May 07, 2025

FCC ID

A3LSMF766B

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	May 07, 2025	Initial Release
1	May 27, 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:	A3LSMF766B
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-F766B
Additional Model(s)	-
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 ~ May 07, 2025
Serial number:	Radiated : R3CY2080L3Y(Main 1 ANT), R3CY30RSYRA(Sub 1 ANT) Conducted : R3CY2080JGY
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	0.179	22.54
		1M09W7D	16QAM	0.182	22.59
		1M10W7D	64QAM	0.175	22.44
		1M09W7D	256QAM	0.092	19.65
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.182	22.60
		2M71W7D	16QAM	0.167	22.23
		2M71W7D	64QAM	0.179	22.52
		2M71W7D	256QAM	0.095	19.76
LTE – Band26 (5)	816.5 – 824.0	4M54G7D	QPSK	0.181	22.58
		4M52W7D	16QAM	0.166	22.21
		4M54W7D	64QAM	0.180	22.56
		4M56W7D	256QAM	0.094	19.73
LTE – Band26 (10)	819.0 – 824.0	8M99G7D	QPSK	0.183	22.62
		9M01W7D	16QAM	0.168	22.26
		9M01W7D	64QAM	0.176	22.46
		9M02W7D	256QAM	0.094	19.75
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.181	22.57
		13M5W7D	16QAM	0.167	22.22
		13M5W7D	64QAM	0.175	22.43
		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	0.212	23.27
		1M09W7D	16QAM	0.177	22.47
		1M10W7D	64QAM	0.136	21.32
		1M09W7D	256QAM	0.065	18.15
LTE – Band26 (3)	815.5 – 824.0	2M72G7D	QPSK	0.216	23.35
		2M71W7D	16QAM	0.179	22.53
		2M71W7D	64QAM	0.136	21.35
		2M71W7D	256QAM	0.067	18.27
LTE – Band26 (5)	816.5 – 824.0	4M54G7D	QPSK	0.212	23.26
		4M52W7D	16QAM	0.183	22.63
		4M54W7D	64QAM	0.138	21.40
		4M56W7D	256QAM	0.066	18.20
LTE – Band26 (10)	819.0 – 824.0	9M02G7D	QPSK	0.209	23.20
		9M01W7D	16QAM	0.172	22.36
		8M99W7D	64QAM	0.133	21.22
		9M00W7D	256QAM	0.065	18.13
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.209	23.20
		13M5W7D	16QAM	0.171	22.33
		13M5W7D	64QAM	0.133	21.23
		13M4W7D	256QAM	0.065	18.14

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

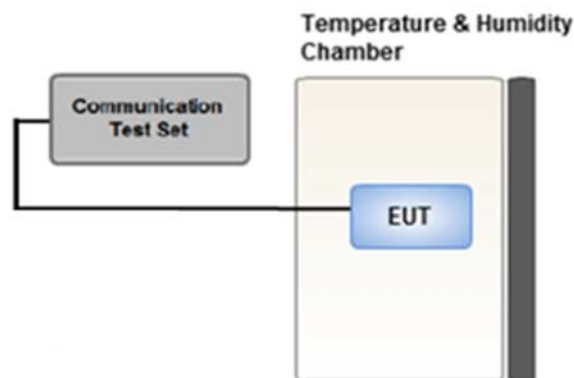
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base 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 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

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

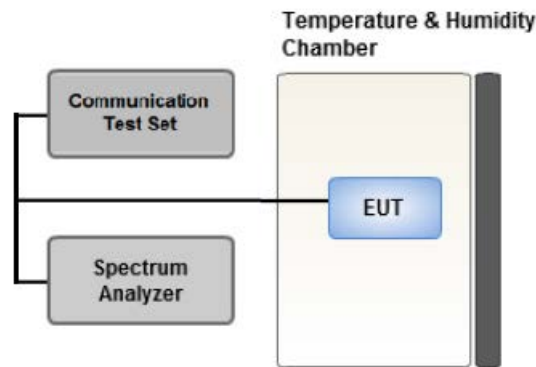
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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.

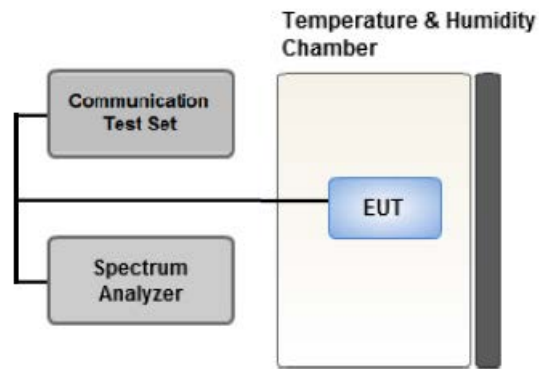
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

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 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

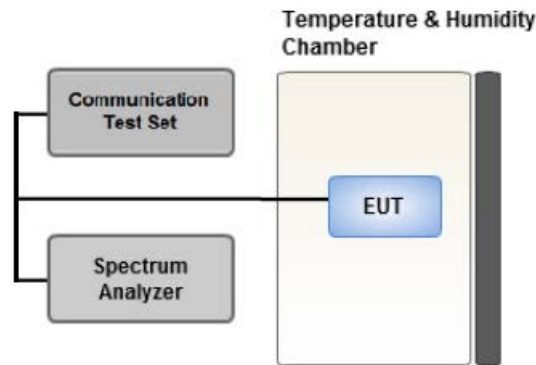
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = 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

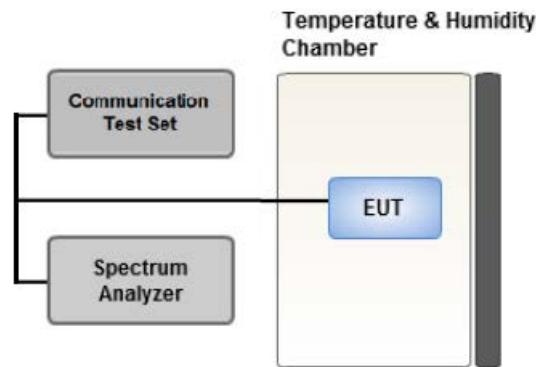
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW :
 - .
 - EA licensee's frequency block by up to and including 37.5 kHz : 300 Hz
 - .- EA licensee's 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 : 5 MHz(Main 1 ANT), 5 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.

[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.

[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

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/14/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
Signal Analyzer(2 Hz ~ 50.0 GHz)	N9040B	KEYSIGHT	US55230216	12/09/2025	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	Annual
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	22.47	0.177	22.46	0.176	100
		1	3	22.51	0.178	22.45	0.176	100
		1	5	22.44	0.175	22.43	0.175	100
		3	0	22.50	0.178	22.45	0.176	100
		3	1	22.54	0.179	22.43	0.175	100
		3	3	22.39	0.173	22.39	0.173	100
		6	0	22.45	0.176	22.39	0.173	100
	16QAM	1	0	22.59	0.182	22.47	0.177	100
		1	3	22.40	0.174	22.39	0.173	100
		1	5	22.57	0.181	22.45	0.176	100
		3	0	22.20	0.166	22.16	0.164	100
		3	1	22.21	0.166	22.11	0.163	100
		3	3	22.27	0.169	22.16	0.165	100
		6	0	22.18	0.165	22.11	0.162	100
	64QAM	1	0	22.44	0.175	22.34	0.171	100
		1	3	22.41	0.174	22.32	0.171	100
		1	5	22.35	0.172	22.28	0.169	100
		3	0	22.21	0.166	22.16	0.164	100
		3	1	22.21	0.166	22.14	0.164	100
		3	3	22.22	0.167	22.16	0.165	100
		6	0	21.51	0.142	21.45	0.140	100
	256QAM	1	0	19.60	0.091	19.53	0.090	100
		1	3	19.65	0.092	19.57	0.091	100
		1	5	19.64	0.092	19.46	0.088	100
		3	0	19.61	0.091	19.45	0.088	100
		3	1	19.64	0.092	19.53	0.090	100
		3	3	19.57	0.091	19.49	0.089	100
		6	0	19.45	0.088	19.41	0.087	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	22.60	0.182	22.49	0.178	100
		1	7	22.55	0.180	22.48	0.177	100
		1	14	22.51	0.178	22.43	0.175	100
		8	0	22.31	0.170	22.23	0.167	100
		8	3	22.29	0.169	22.22	0.167	100
		8	7	22.32	0.171	22.26	0.168	100
		15	0	22.13	0.163	22.07	0.161	100
	16QAM	1	0	22.23	0.167	22.13	0.163	100
		1	7	22.07	0.161	22.03	0.160	100
		1	14	22.09	0.162	22.07	0.161	100
		8	0	22.23	0.167	22.14	0.163	100
		8	3	22.16	0.164	22.10	0.162	100
		8	7	22.17	0.165	22.11	0.163	100
		15	0	22.11	0.163	22.06	0.161	100
	64QAM	1	0	22.52	0.179	22.39	0.173	100
		1	7	22.19	0.166	22.12	0.163	100
		1	14	22.39	0.173	22.34	0.171	100
		8	0	21.68	0.147	21.60	0.145	100
		8	3	21.61	0.145	21.56	0.143	100
		8	7	21.63	0.146	21.58	0.144	100
		15	0	21.54	0.143	21.50	0.141	100
	256QAM	1	0	19.76	0.095	19.65	0.092	100
		1	7	19.54	0.090	19.50	0.089	100
		1	14	19.59	0.091	19.55	0.090	100
		8	0	19.62	0.092	19.56	0.090	100
		8	3	19.58	0.091	19.51	0.089	100
		8	7	19.53	0.090	19.50	0.089	100
		15	0	19.46	0.088	19.40	0.087	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	22.54	0.179	22.47	0.176	100
		1	12	22.58	0.181	22.51	0.178	100
		1	24	22.48	0.177	22.45	0.176	100
		12	0	22.25	0.168	22.19	0.166	100
		12	6	22.25	0.168	22.20	0.166	100
		12	11	22.19	0.166	22.18	0.165	100
		25	0	22.12	0.163	22.09	0.162	100
	16QAM	1	0	22.21	0.166	22.15	0.164	100
		1	12	22.03	0.160	22.01	0.159	100
		1	24	22.05	0.160	22.05	0.161	100
		12	0	22.21	0.166	22.14	0.164	100
		12	6	22.14	0.164	22.09	0.162	100
		12	11	22.11	0.163	22.10	0.162	100
		25	0	22.13	0.163	22.08	0.161	100
	64QAM	1	0	22.56	0.180	22.39	0.174	100
		1	12	22.13	0.163	22.10	0.162	100
		1	24	22.36	0.172	22.33	0.171	100
		12	0	21.72	0.149	21.63	0.146	100
		12	6	21.63	0.146	21.59	0.144	100
		12	11	21.58	0.144	21.55	0.143	100
		25	0	21.60	0.145	21.53	0.142	100
	256QAM	1	0	19.73	0.094	19.64	0.092	100
		1	12	19.51	0.089	19.47	0.089	100
		1	24	19.59	0.091	19.55	0.090	100
		12	0	19.61	0.091	19.53	0.090	100
		12	6	19.57	0.091	19.51	0.089	100
		12	11	19.49	0.089	19.47	0.088	100
		25	0	19.50	0.089	19.45	0.088	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	22.47	0.177	100
		1	24	22.62	0.183	100
		1	49	22.44	0.175	100
		25	0	22.18	0.165	100
		25	12	22.16	0.164	100
		25	24	22.16	0.164	100
		50	0	22.21	0.166	100
	16QAM	1	0	22.18	0.165	100
		1	24	22.26	0.168	100
		1	49	22.17	0.165	100
		25	0	22.15	0.164	100
		25	12	22.15	0.164	100
		25	24	22.14	0.164	100
		50	0	22.18	0.165	100
	64QAM	1	0	22.39	0.173	100
		1	24	22.46	0.176	100
		1	49	22.38	0.173	100
		25	0	21.58	0.144	100
		25	12	21.57	0.144	100
		25	24	21.57	0.144	100
		50	0	21.62	0.145	100
	256QAM	1	0	19.75	0.094	100
		1	24	19.52	0.090	100
		1	49	19.65	0.092	100
		25	0	19.54	0.090	100
		25	12	19.55	0.090	100
		25	24	19.52	0.089	100
		50	0	19.55	0.090	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				821.5 MHz		
				dBm	W	
15	QPSK	1	0	22.46	0.176	100
		1	36	22.57	0.181	100
		1	74	22.40	0.174	100
		36	0	22.16	0.164	100
		36	18	22.13	0.163	100
		36	39	22.13	0.163	100
		75	0	22.17	0.165	100
	16QAM	1	0	22.16	0.165	100
		1	36	22.22	0.167	100
		1	74	22.13	0.163	100
		36	0	22.12	0.163	100
		36	18	22.12	0.163	100
		36	39	22.10	0.162	100
		75	0	22.14	0.164	100
	64QAM	1	0	22.37	0.173	100
		1	36	22.43	0.175	100
		1	74	22.35	0.172	100
		36	0	21.56	0.143	100
		36	18	21.53	0.142	100
		36	39	21.53	0.142	100
		75	0	21.59	0.144	100
	256QAM	1	0	19.73	0.094	100
		1	36	19.49	0.089	100
		1	74	19.61	0.091	100
		36	0	19.51	0.089	100
		36	18	19.52	0.090	100
		36	39	19.48	0.089	100
		75	0	19.52	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	Offset
814.7	LTE B26/ 1.4 MHz	QPSK	-30.50	32.71	-10.05	1.44	H	< 100	0.132	21.22	1	0
		16QAM	-31.26	31.95	-10.05	1.44	H		0.111	20.46		
		64QAM	-32.41	30.80	-10.05	1.44	H		0.085	19.31		
		256QAM	-35.58	27.63	-10.05	1.44	H		0.041	16.14		
823.3		QPSK	-30.48	32.55	-9.95	1.44	H		0.131	21.16	1	0
		16QAM	-31.29	31.74	-9.95	1.44	H		0.108	20.35		
		64QAM	-32.40	30.63	-9.95	1.44	H		0.084	19.24		
		256QAM	-35.53	27.50	-9.95	1.44	H		0.041	16.11		

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	-30.49	32.73	-10.05	1.44	H	< 100	0.133	21.24	1	0
		16QAM	-31.22	32.00	-10.05	1.44	H		0.112	20.51		
		64QAM	-32.38	30.84	-10.05	1.44	H		0.086	19.35		
		256QAM	-35.54	27.68	-10.05	1.44	H		0.042	16.19		
822.5		QPSK	-30.45	32.61	-9.95	1.44	H		0.132	21.22	1	0
		16QAM	-31.24	31.82	-9.95	1.44	H		0.110	20.43		
		64QAM	-32.36	30.70	-9.95	1.44	H		0.085	19.31		
		256QAM	-35.46	27.60	-9.95	1.44	H		0.042	16.21		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)				W	W	dBm	Size	Offset
816.5	LTE B26/ 5 MHz	QPSK	-30.45	32.75	-10.05	1.44	H	< 100	0.134	21.26	1	0
		16QAM	-31.24	31.96	-10.05	1.44	H		0.111	20.47		
		64QAM	-32.37	30.83	-10.05	1.44	H		0.086	19.34		
		256QAM	-35.53	27.67	-10.05	1.44	H		0.041	16.18		
821.5	LTE B26/ 5 MHz	QPSK	-30.42	32.68	-9.95	1.44	H		0.135	21.29	1	0
		16QAM	-31.21	31.89	-9.95	1.44	H		0.112	20.50		
		64QAM	-32.36	30.74	-9.95	1.44	H		0.086	19.35		
		256QAM	-35.44	27.66	-9.95	1.44	H		0.042	16.27		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)				W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	-30.51	32.65	-10.05	1.44	H	< 100	0.131	21.16	1	0
		16QAM	-31.27	31.89	-10.05	1.44	H		0.110	20.40		
		64QAM	-32.41	30.75	-10.05	1.44	H		0.084	19.26		
		256QAM	-35.49	27.67	-10.05	1.44	H		0.041	16.18		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)				W	W	dBm	Size	Offset
821.5	LTE B26/ 15 MHz	QPSK	-30.49	32.61	-9.95	1.44	H	< 100	0.132	21.22	1	0
		16QAM	-31.26	31.84	-9.95	1.44	H		0.111	20.45		
		64QAM	-32.40	30.70	-9.95	1.44	H		0.085	19.31		
		256QAM	-35.55	27.55	-9.95	1.44	H		0.041	16.16		

Note

1. Limit: None (for reporting purposes only)

8.3 RADIATED SPURIOUS EMISSIONS

■ MODE: LTE B26
 ■ 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	Size	
									Size	Offset
26715 (816.5)	1 633.00	-52.98	9.28	-67.59	1.98	V	-60.29	-13.00	1	0
	2 449.50	-53.32	10.41	-64.47	2.53	V	-56.59	-13.00		
	3 266.00	-53.31	10.84	-61.52	2.95	V	-53.63	-13.00		
26765 (821.5)	1 643.00	-52.56	9.39	-67.40	2.00	V	-60.01	-13.00	1	0
	2 464.50	-54.01	10.37	-65.17	2.59	V	-57.39	-13.00		
	3 286.00	-55.39	10.98	-63.50	2.95	V	-55.47	-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	1.0951
			16QAM			1.0927
			64QAM			1.0948
			256QAM			1.0924
	3 MHz	822.5	QPSK	15		2.7202
			16QAM			2.7065
			64QAM			2.7076
			256QAM			2.7131
	5 MHz	821.5	QPSK	25		4.5402
			16QAM			4.5176
			64QAM			4.5393
			256QAM			4.5642
	10 MHz	819.0	QPSK	50		8.9905
			16QAM			9.0063
			64QAM			9.0131
			256QAM			9.0195
	15 MHz	821.5	QPSK	75		13.472
			16QAM			13.485
			64QAM			13.484
			256QAM			13.482

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	4.8156	27.976	-57.873	-29.897	-13.00
		823.3	4.9751	27.976	-57.735	-29.759	
	3	815.5	9.6511	28.591	-57.643	-29.052	
		822.5	4.9751	27.976	-57.630	-29.654	
	5	816.5	3.8086	27.976	-56.711	-28.735	
		821.5	4.8555	27.976	-57.846	-29.870	
	10	819.0	3.9881	27.976	-57.551	-29.575	
	15	821.5	3.1606	27.976	-57.917	-29.941	

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

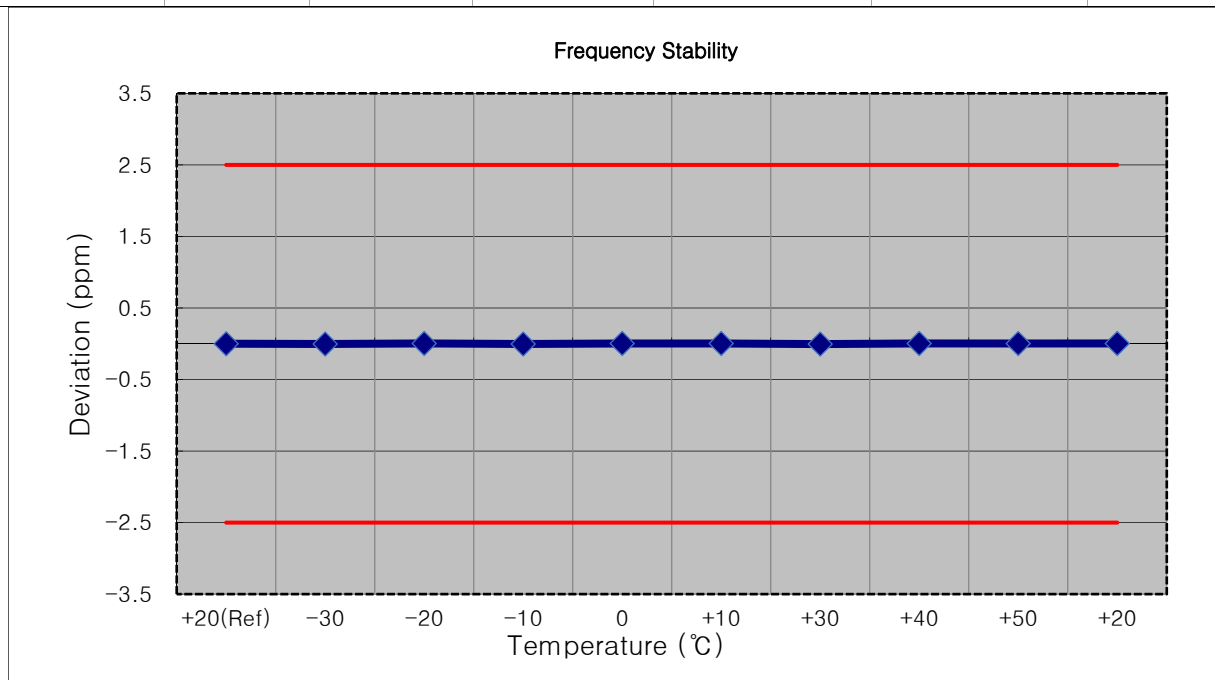
8.6 CHANNEL EDGE

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

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

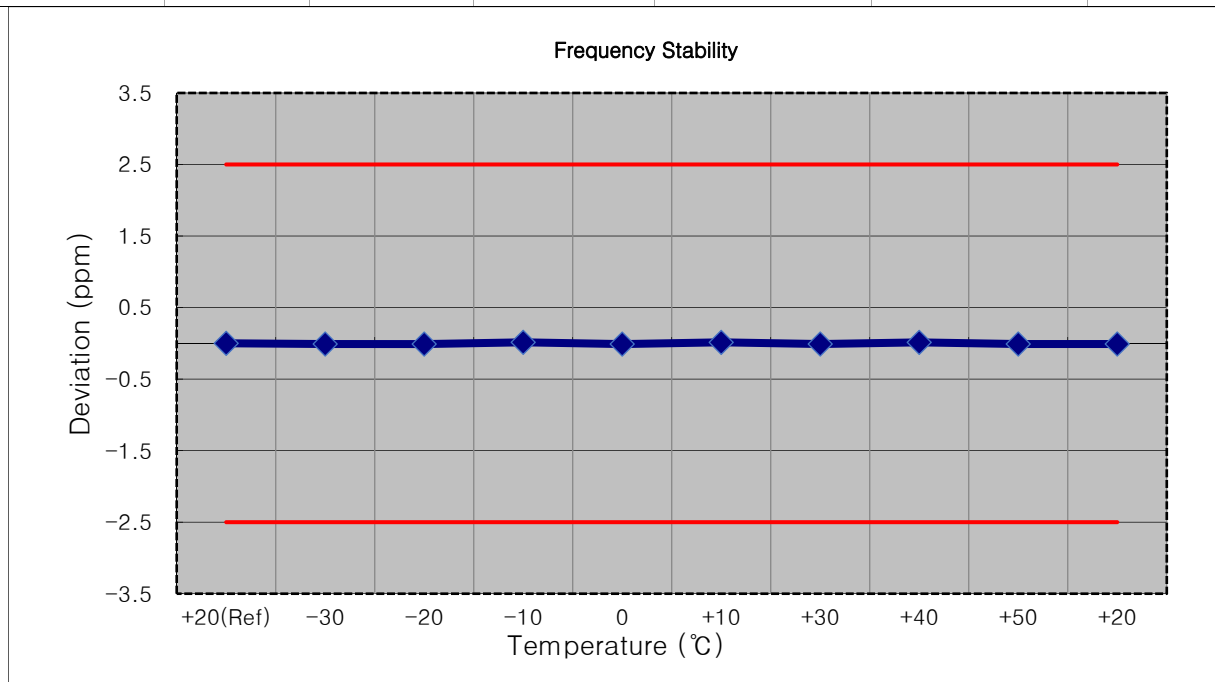
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>814,700,000 Hz</u>
CHANNEL:	<u>26697(1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	814 700 003	0.0	0.000 000	0.000
100 %		-30	814 700 000	-3.1	0.000 000	-0.004
100 %		-20	814 700 006	2.9	0.000 000	0.004
100 %		-10	814 700 000	-3.1	0.000 000	-0.004
100 %		0	814 700 006	2.7	0.000 000	0.003
100 %		+10	814 700 006	2.8	0.000 000	0.003
100 %		+30	814 699 999	-3.7	0.000 000	-0.005
100 %		+40	814 700 006	2.9	0.000 000	0.004
100 %		+50	814 700 005	2.3	0.000 000	0.003
Batt. Endpoint	3.300	+20	814 700 006	3.2	0.000 000	0.004



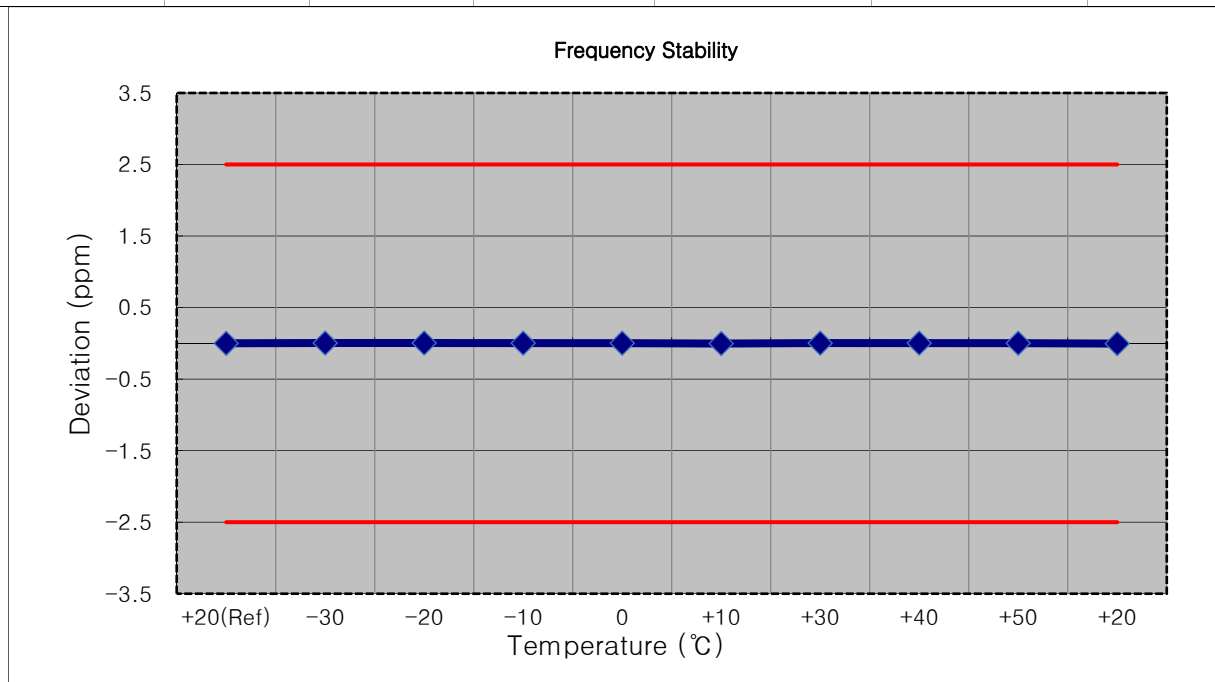
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>815,500,000 Hz</u>
CHANNEL:	<u>26705(3 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	815 499 992	0.0	0.000 000	0.000
100 %		-30	815 499 984	-8.0	-0.000 001	-0.010
100 %		-20	815 499 983	-8.8	-0.000 001	-0.011
100 %		-10	815 500 003	11.4	0.000 001	0.014
100 %		0	815 499 983	-8.6	-0.000 001	-0.011
100 %		+10	815 500 003	11.1	0.000 001	0.014
100 %		+30	815 499 984	-8.0	-0.000 001	-0.010
100 %		+40	815 500 003	10.9	0.000 001	0.013
100 %		+50	815 499 984	-8.1	-0.000 001	-0.010
Batt. Endpoint	3.300	+20	815 499 984	-8.1	-0.000 001	-0.010



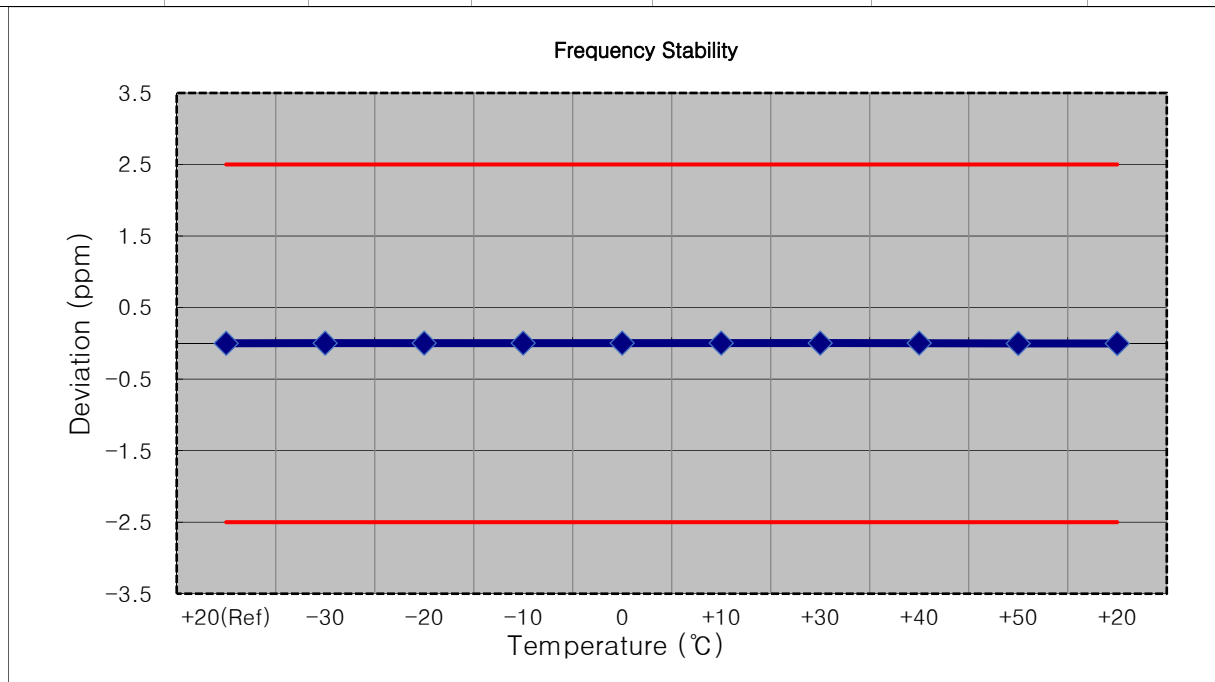
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>816,500,000 Hz</u>
CHANNEL:	<u>26715(5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	816 500 002	0.0	0.000 000	0.000
100 %		-30	816 500 005	3.2	0.000 000	0.004
100 %		-20	816 500 005	3.4	0.000 000	0.004
100 %		-10	816 500 004	2.1	0.000 000	0.003
100 %		0	816 500 004	1.8	0.000 000	0.002
100 %		+10	816 499 999	-2.7	0.000 000	-0.003
100 %		+30	816 500 004	2.6	0.000 000	0.003
100 %		+40	816 500 004	2.3	0.000 000	0.003
100 %		+50	816 500 003	1.5	0.000 000	0.002
Batt. Endpoint	3.300	+20	816 499 999	-3.2	0.000 000	-0.004



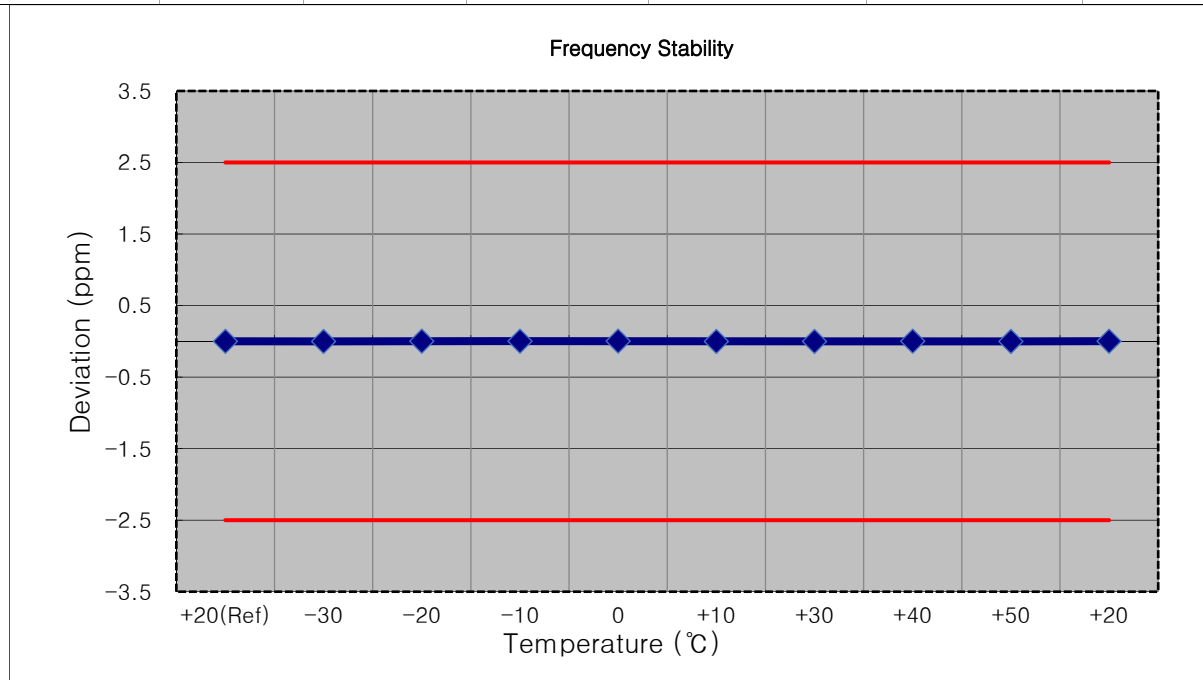
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>819,000,000 Hz</u>
CHANNEL:	<u>26740(10 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	819 000 003	0.0	0.000 000	0.000
100 %		-30	819 000 005	1.9	0.000 000	0.002
100 %		-20	819 000 005	1.9	0.000 000	0.002
100 %		-10	819 000 005	2.2	0.000 000	0.003
100 %		0	819 000 005	2.4	0.000 000	0.003
100 %		+10	819 000 005	2.7	0.000 000	0.003
100 %		+30	819 000 005	2.2	0.000 000	0.003
100 %		+40	819 000 005	2.2	0.000 000	0.003
100 %		+50	819 000 001	-1.8	0.000 000	-0.002
Batt. Endpoint	3.300	+20	819 000 001	-2.1	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	821 500 001	-1.1	0.000 000	-0.001
100 %		-20	821 500 004	1.6	0.000 000	0.002
100 %		-10	821 500 004	2.1	0.000 000	0.003
100 %		0	821 500 004	2.3	0.000 000	0.003
100 %		+10	821 500 001	-1.0	0.000 000	-0.001
100 %		+30	821 500 001	-1.3	0.000 000	-0.002
100 %		+40	821 500 004	1.9	0.000 000	0.002
100 %		+50	821 500 001	-1.1	0.000 000	-0.001
Batt. Endpoint	3.300	+20	821 500 004	1.4	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	22.46	0.176	100
		1	3	22.46	0.176	100
		1	5	22.47	0.177	100
		3	0	22.43	0.175	100
		3	1	22.46	0.176	100
		3	3	22.40	0.174	100
		6	0	22.44	0.175	100
	16QAM	1	0	22.52	0.179	100
		1	3	22.47	0.177	100
		1	5	22.56	0.180	100
		3	0	22.20	0.166	100
		3	1	22.19	0.166	100
		3	3	22.23	0.167	100
		6	0	22.17	0.165	100
	64QAM	1	0	22.40	0.174	100
		1	3	22.38	0.173	100
		1	5	22.37	0.173	100
		3	0	22.21	0.166	100
		3	1	22.22	0.167	100
		3	3	22.23	0.167	100
		6	0	21.49	0.141	100
	256QAM	1	0	19.59	0.091	100
		1	3	19.64	0.092	100
		1	5	19.56	0.090	100
		3	0	19.54	0.090	100
		3	1	19.57	0.091	100
		3	3	19.57	0.091	100
		6	0	19.46	0.088	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	22.54	0.179	100
		1	7	22.55	0.180	100
		1	14	22.52	0.179	100
		8	0	22.30	0.170	100
		8	3	22.28	0.169	100
		8	7	22.32	0.171	100
		15	0	22.13	0.163	100
	16QAM	1	0	22.17	0.165	100
		1	7	22.10	0.162	100
		1	14	22.15	0.164	100
		8	0	22.20	0.166	100
		8	3	22.17	0.165	100
		8	7	22.17	0.165	100
		15	0	22.12	0.163	100
	64QAM	1	0	22.44	0.175	100
		1	7	22.20	0.166	100
		1	14	22.42	0.175	100
		8	0	21.66	0.146	100
		8	3	21.63	0.145	100
		8	7	21.65	0.146	100
		15	0	21.56	0.143	100
	256QAM	1	0	19.71	0.093	100
		1	7	19.57	0.091	100
		1	14	19.62	0.092	100
		8	0	19.61	0.091	100
		8	3	19.56	0.090	100
		8	7	19.57	0.091	100
		15	0	19.48	0.089	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	22.54	0.180	100
		1	12	22.56	0.180	100
		1	24	22.55	0.180	100
		12	0	22.26	0.168	100
		12	6	22.29	0.169	100
		12	11	22.25	0.168	100
		25	0	22.16	0.165	100
	16QAM	1	0	22.21	0.166	100
		1	12	22.07	0.161	100
		1	24	22.14	0.164	100
		12	0	22.20	0.166	100
		12	6	22.17	0.165	100
		12	11	22.17	0.165	100
		25	0	22.15	0.164	100
	64QAM	1	0	22.45	0.176	100
		1	12	22.19	0.165	100
		1	24	22.39	0.174	100
		12	0	21.68	0.147	100
		12	6	21.66	0.147	100
		12	11	21.63	0.146	100
		25	0	21.59	0.144	100
	256QAM	1	0	19.68	0.093	100
		1	12	19.56	0.090	100
		1	24	19.63	0.092	100
		12	0	19.59	0.091	100
		12	6	19.58	0.091	100
		12	11	19.55	0.090	100
		25	0	19.53	0.090	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	22.45	0.176	100
		1	24	22.53	0.179	100
		1	49	22.36	0.172	100
		25	0	22.13	0.163	100
		25	12	22.10	0.162	100
		25	24	22.09	0.162	100
		50	0	22.14	0.163	100
	16QAM	1	0	22.15	0.164	100
		1	24	22.19	0.165	100
		1	49	22.09	0.162	100
		25	0	22.09	0.162	100
		25	12	22.08	0.161	100
		25	24	22.06	0.161	100
		50	0	22.10	0.162	100
	64QAM	1	0	22.35	0.172	100
		1	24	22.39	0.174	100
		1	49	22.33	0.171	100
		25	0	21.53	0.142	100
		25	12	21.50	0.141	100
		25	24	21.49	0.141	100
		50	0	21.56	0.143	100
	256QAM	1	0	19.72	0.094	100
		1	24	19.45	0.088	100
		1	49	19.57	0.091	100
		25	0	19.49	0.089	100
		25	12	19.50	0.089	100
		25	24	19.45	0.088	100
		50	0	19.49	0.089	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	-30.45	32.55	-9.95	1.44	H	< 7.00	0.131	21.16	1	0
		16QAM	-31.24	31.76	-9.95	1.44	H		0.109	20.37		
		64QAM	-32.37	30.63	-9.95	1.44	H		0.084	19.24		
		256QAM	-35.51	27.49	-9.95	1.44	H		0.041	16.10		

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	-30.43	32.57	-9.95	1.44	H	< 7.00	0.131	21.18	1	0
		16QAM	-31.26	31.74	-9.95	1.44	H		0.108	20.35		
		64QAM	-32.38	30.62	-9.95	1.44	H		0.084	19.23		
		256QAM	-35.49	27.51	-9.95	1.44	H		0.041	16.12		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 5 MHz	QPSK	-30.45	32.55	-9.95	1.44	H	< 7.00	0.131	21.16	1	0
		16QAM	-31.25	31.75	-9.95	1.44	H		0.109	20.36		
		64QAM	-32.36	30.64	-9.95	1.44	H		0.084	19.25		
		256QAM	-35.48	27.52	-9.95	1.44	H		0.041	16.13		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 10 MHz	QPSK	-30.45	32.55	-9.95	1.44	H	< 7.00	0.131	21.16	1	0
		16QAM	-31.31	31.69	-9.95	1.44	H		0.107	20.30		
		64QAM	-32.40	30.60	-9.95	1.44	H		0.083	19.21		
		256QAM	-35.42	27.58	-9.95	1.44	H		0.042	16.19		

8.8.3 RADIATED SPURIOUS EMISSIONS

- ▣ MODE: LTE B26(Straddle)
- ▣ 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	RB	
									Size	Offset
26790 (824.0)	1 648.00	-52.52	9.44	-67.46	2.02	V	-60.04	-13.00	1	0
	2 472.00	-54.35	10.35	-65.55	2.59	V	-57.79	-13.00		
	3 296.00	-54.95	11.06	-63.11	2.95	V	-55.00	-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	10.0000	28.591	-59.023	-30.432	-13.00
	3		7.9761	28.591	-57.888	-29.297	
	5		3.7987	27.976	-57.170	-29.194	
	10		8.2652	28.591	-57.410	-28.819	

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	23.19	0.208	23.11	0.205	100
		1	3	23.14	0.206	23.08	0.203	100
		1	5	23.27	0.212	23.14	0.206	100
		3	0	23.12	0.205	23.00	0.200	100
		3	1	23.13	0.206	22.97	0.198	100
		3	3	22.90	0.195	22.93	0.196	100
		6	0	22.06	0.161	21.91	0.155	100
	16QAM	1	0	22.47	0.177	22.39	0.174	100
		1	3	22.42	0.175	22.32	0.170	100
		1	5	22.34	0.171	22.32	0.170	100
		3	0	22.17	0.165	22.08	0.162	100
		3	1	22.31	0.170	22.17	0.165	100
		3	3	22.14	0.164	22.09	0.162	100
		6	0	21.04	0.127	20.99	0.126	100
	64QAM	1	0	21.32	0.136	21.23	0.133	100
		1	3	21.30	0.135	21.20	0.132	100
		1	5	21.26	0.134	21.23	0.133	100
		3	0	21.10	0.129	21.02	0.126	100
		3	1	21.11	0.129	21.03	0.127	100
		3	3	21.09	0.129	21.05	0.127	100
		6	0	20.03	0.101	19.95	0.099	100
	256QAM	1	0	18.13	0.065	18.05	0.064	100
		1	3	18.11	0.065	17.99	0.063	100
		1	5	18.08	0.064	18.03	0.063	100
		3	0	18.15	0.065	18.02	0.063	100
		3	1	18.05	0.064	17.98	0.063	100
		3	3	18.03	0.064	17.98	0.063	100
		6	0	17.90	0.062	17.85	0.061	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	23.35	0.216	23.17	0.207	100
		1	7	23.19	0.208	23.12	0.205	100
		1	14	23.16	0.207	23.13	0.206	100
		8	0	22.14	0.164	22.04	0.160	100
		8	3	22.13	0.163	22.05	0.160	100
		8	7	22.05	0.160	22.04	0.160	100
		15	0	22.03	0.160	21.96	0.157	100
	16QAM	1	0	22.53	0.179	22.39	0.173	100
		1	7	22.33	0.171	22.34	0.171	100
		1	14	22.36	0.172	22.44	0.175	100
		8	0	21.26	0.134	21.15	0.130	100
		8	3	21.15	0.130	21.13	0.130	100
		8	7	21.18	0.131	21.16	0.131	100
		15	0	21.02	0.126	20.97	0.125	100
	64QAM	1	0	21.35	0.136	21.27	0.134	100
		1	7	21.16	0.131	21.11	0.129	100
		1	14	21.32	0.136	21.25	0.133	100
		8	0	20.21	0.105	20.09	0.102	100
		8	3	20.17	0.104	20.08	0.102	100
		8	7	20.15	0.104	20.08	0.102	100
		15	0	20.05	0.101	19.99	0.100	100
	256QAM	1	0	18.27	0.067	18.10	0.065	100
		1	7	18.10	0.065	18.06	0.064	100
		1	14	18.12	0.065	18.06	0.064	100
		8	0	18.16	0.065	18.06	0.064	100
		8	3	18.05	0.064	17.99	0.063	100
		8	7	18.02	0.063	17.99	0.063	100
		15	0	17.99	0.063	17.91	0.062	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	23.26	0.212	23.14	0.206	100
		1	12	23.16	0.207	23.08	0.203	100
		1	24	23.12	0.205	23.15	0.206	100
		12	0	22.16	0.164	22.05	0.160	100
		12	6	22.06	0.161	22.03	0.159	100
		12	11	22.02	0.159	22.03	0.160	100
		25	0	22.03	0.160	22.01	0.159	100
	16QAM	1	0	22.63	0.183	22.36	0.172	100
		1	12	22.36	0.172	22.30	0.170	100
		1	24	22.27	0.169	22.39	0.173	100
		12	0	21.18	0.131	21.13	0.130	100
		12	6	21.14	0.130	21.10	0.129	100
		12	11	21.05	0.127	21.07	0.128	100
		25	0	21.05	0.127	21.03	0.127	100
	64QAM	1	0	21.40	0.138	21.26	0.134	100
		1	12	21.10	0.129	21.06	0.128	100
		1	24	21.18	0.131	21.25	0.133	100
		12	0	20.25	0.106	20.12	0.103	100
		12	6	20.13	0.103	20.07	0.102	100
		12	11	20.07	0.102	20.06	0.101	100
		25	0	20.06	0.101	20.01	0.100	100
	256QAM	1	0	18.20	0.066	18.08	0.064	100
		1	12	18.07	0.064	18.05	0.064	100
		1	24	18.03	0.064	18.07	0.064	100
		12	0	18.08	0.064	18.00	0.063	100
		12	6	18.07	0.064	18.01	0.063	100
		12	11	17.96	0.063	17.95	0.062	100
		25	0	18.05	0.064	17.97	0.063	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	23.11	0.205	100
		1	24	23.20	0.209	100
		1	49	23.10	0.204	100
		25	0	22.00	0.159	100
		25	12	22.00	0.158	100
		25	24	21.97	0.157	100
		50	0	22.00	0.158	100
	16QAM	1	0	22.31	0.170	100
		1	24	22.36	0.172	100
		1	49	22.28	0.169	100
		25	0	21.00	0.126	100
		25	12	20.96	0.125	100
		25	24	20.98	0.125	100
		50	0	20.99	0.126	100
	64QAM	1	0	21.22	0.133	100
		1	24	21.14	0.130	100
		1	49	21.15	0.130	100
		25	0	19.99	0.100	100
		25	12	19.96	0.099	100
		25	24	19.95	0.099	100
		50	0	20.00	0.100	100
	256QAM	1	0	18.13	0.065	100
		1	24	17.94	0.062	100
		1	49	18.04	0.064	100
		25	0	17.98	0.063	100
		25	12	17.93	0.062	100
		25	24	17.91	0.062	100
		50	0	17.96	0.063	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				821.5 MHz		
				dBm	W	
15	QPSK	1	0	23.12	0.205	100
		1	36	23.20	0.209	100
		1	74	23.05	0.202	100
		36	0	21.99	0.158	100
		36	18	21.98	0.158	100
		36	39	21.94	0.156	100
		75	0	21.98	0.158	100
	16QAM	1	0	22.32	0.171	100
		1	36	22.33	0.171	100
		1	74	22.23	0.167	100
		36	0	20.99	0.126	100
		36	18	20.93	0.124	100
		36	39	20.96	0.125	100
		75	0	20.97	0.125	100
	64QAM	1	0	21.23	0.133	100
		1	36	21.15	0.130	100
		1	74	21.10	0.129	100
		36	0	19.98	0.100	100
		36	18	19.95	0.099	100
		36	39	19.93	0.098	100
		75	0	19.99	0.100	100
	256QAM	1	0	18.14	0.065	100
		1	36	17.92	0.062	100
		1	74	17.99	0.063	100
		36	0	17.96	0.062	100
		36	18	17.92	0.062	100
		36	39	17.88	0.061	100
		75	0	17.94	0.062	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
814.7	LTE B26/ 1.4 MHz	QPSK	-34.60	28.61	-10.05	1.44	H	< 100	0.052	17.12	1	5
		16QAM	-35.44	27.77	-10.05	1.44	H		0.042	16.28		
		64QAM	-36.53	26.68	-10.05	1.44	H		0.033	15.19		
		256QAM	-39.61	23.60	-10.05	1.44	H		0.016	12.11		
823.3		QPSK	-34.41	28.62	-9.95	1.44	H		0.053	17.23	1	5
		16QAM	-35.19	27.84	-9.95	1.44	H		0.044	16.45		
		64QAM	-36.30	26.73	-9.95	1.44	H		0.034	15.34		
		256QAM	-39.46	23.57	-9.95	1.44	H		0.017	12.18		

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	-34.49	28.73	-10.05	1.44	H	< 100	0.053	17.24	1	14
		16QAM	-35.47	27.75	-10.05	1.44	H		0.042	16.26		
		64QAM	-36.49	26.73	-10.05	1.44	H		0.033	15.24		
		256QAM	-39.53	23.69	-10.05	1.44	H		0.017	12.20		
822.5		QPSK	-34.24	28.82	-9.95	1.44	H		0.055	17.43	1	14
		16QAM	-35.01	28.05	-9.95	1.44	H		0.046	16.66		
		64QAM	-36.11	26.95	-9.95	1.44	H		0.036	15.56		
		256QAM	-39.34	23.72	-9.95	1.44	H		0.017	12.33		

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	-34.34	28.86	-10.05	1.44	H	< 100	0.055	17.37	1	24
		16QAM	-35.17	28.03	-10.05	1.44	H		0.045	16.54		
		64QAM	-36.26	26.94	-10.05	1.44	H		0.035	15.45		
		256QAM	-39.44	23.76	-10.05	1.44	H		0.017	12.27		
821.5		QPSK	-34.24	28.86	-9.95	1.44	H		0.056	17.47	1	24
		16QAM	-35.08	28.02	-9.95	1.44	H		0.046	16.63		
		64QAM	-36.15	26.95	-9.95	1.44	H		0.036	15.56		
		256QAM	-39.32	23.78	-9.95	1.44	H		0.017	12.39		

Freq (MHz)	Bandwidth	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	ERP		RB	
			Level (dBm)	Level (dBm)	Gain (dBd)			W	W	dBm	Size	Offset
819.0	LTE B26/ 10 MHz	QPSK	-34.29	28.87	-10.05	1.44	H	< 100	0.055	17.38	1	49
		16QAM	-35.14	28.02	-10.05	1.44	H		0.045	16.53		
		64QAM	-36.22	26.94	-10.05	1.44	H		0.035	15.45		
		256QAM	-39.39	23.77	-10.05	1.44	H		0.017	12.28		

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	-34.36	28.74	-9.95	1.44	H	< 100	0.054	17.35	1	74
		16QAM	-35.14	27.96	-9.95	1.44	H		0.045	16.57		
		64QAM	-36.28	26.82	-9.95	1.44	H		0.035	15.43		
		256QAM	-39.41	23.69	-9.95	1.44	H		0.017	12.30		

Note

1. Limit: None (for reporting purposes only)

9.3 RADIATED SPURIOUS EMISSIONS

- ▣ MODE: LTE B26
- ▣ 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	Size	
									Size	Offset
26715 (816.5)	1 633.00	-49.72	9.28	-64.33	1.98	H	-57.03	-13.00	1	14
	2 449.50	-38.58	10.41	-49.73	2.53	H	-41.85	-13.00		
	3 266.00	-54.22	10.84	-62.43	2.95	V	-54.54	-13.00		
26765 (821.5)	1 643.00	-46.72	9.39	-61.56	2.00	V	-54.17	-13.00	1	24
	2 464.50	-40.43	10.37	-51.59	2.59	H	-43.81	-13.00		
	3 286.00	-54.49	10.98	-62.60	2.95	V	-54.57	-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	1.0977
			16QAM			1.0934
			64QAM			1.0947
			256QAM			1.0943
	3 MHz	822.5	QPSK	15		2.7174
			16QAM			2.7048
			64QAM			2.7061
			256QAM			2.7130
	5 MHz	821.5	QPSK	25		4.5381
			16QAM			4.5173
			64QAM			4.5359
			256QAM			4.5613
	10 MHz	819.0	QPSK	50		9.0188
			16QAM			9.0050
			64QAM			8.9867
			256QAM			8.9958
	15 MHz	821.5	QPSK	75		13.485
			16QAM			13.467
			64QAM			13.501
			256QAM			13.433

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	9.2024	28.591	-58.141	-29.550	-13.00
		823.3	5.5334	28.591	-58.362	-29.771	
	3	815.5	6.0419	28.591	-56.177	-27.586	
		822.5	8.8734	28.591	-58.155	-29.564	
	5	816.5	4.9253	27.976	-56.464	-28.488	
		821.5	8.2652	28.591	-57.349	-28.758	
	10	819.0	3.7588	27.976	-57.942	-29.966	
	15	821.5	8.3550	28.591	-58.222	-29.631	

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

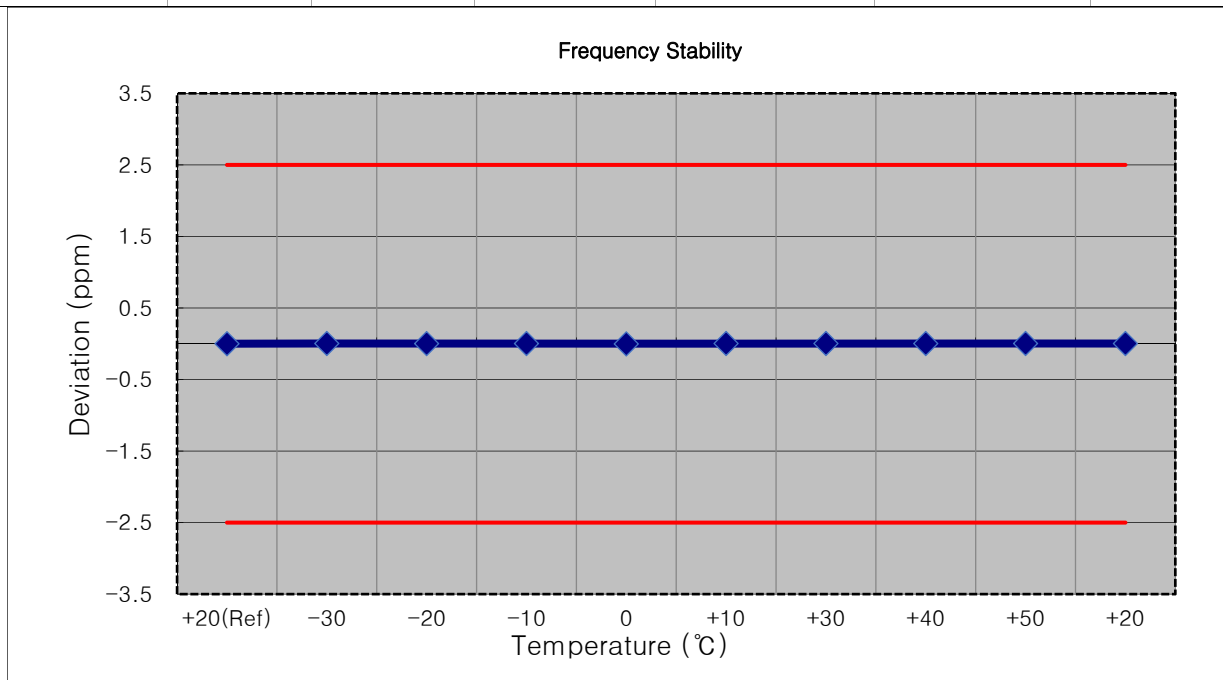
9.6 CHANNEL EDGE

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

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

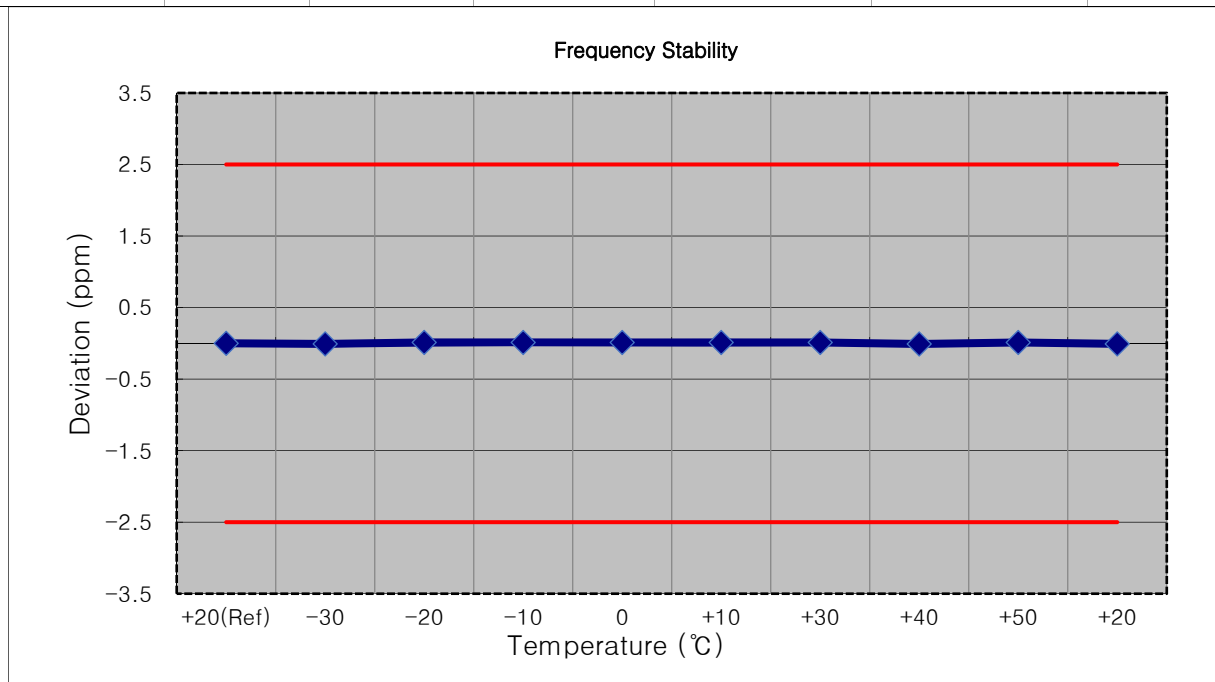
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>814,700,000 Hz</u>
CHANNEL:	<u>26697(1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	814 699 997	0.0	0.000 000	0.000
100 %		-30	814 699 994	-2.8	0.000 000	-0.003
100 %		-20	814 699 994	-3.2	0.000 000	-0.004
100 %		-10	814 699 995	-2.6	0.000 000	-0.003
100 %		0	814 699 999	2.1	0.000 000	0.003
100 %		+10	814 700 000	2.8	0.000 000	0.003
100 %		+30	814 700 000	3.0	0.000 000	0.004
100 %		+40	814 700 000	2.7	0.000 000	0.003
100 %		+50	814 699 995	-2.6	0.000 000	-0.003
Batt. Endpoint	3.300	+20	814 699 994	-3.3	0.000 000	-0.004



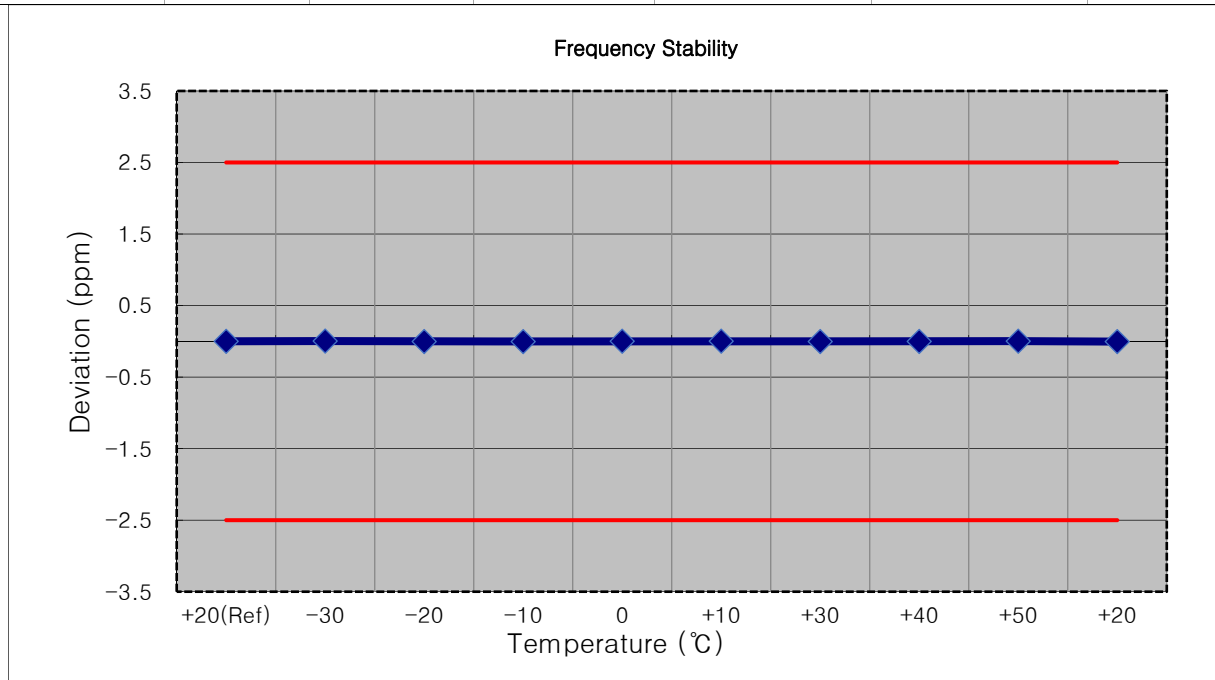
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>815,500,000 Hz</u>
CHANNEL:	<u>26705(3 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	815 500 010	0.0	0.000 000	0.000
100 %		-30	815 500 003	-7.0	-0.000 001	-0.009
100 %		-20	815 500 020	10.1	0.000 001	0.012
100 %		-10	815 500 020	9.8	0.000 001	0.012
100 %		0	815 500 019	9.6	0.000 001	0.012
100 %		+10	815 500 020	9.9	0.000 001	0.012
100 %		+30	815 500 020	9.7	0.000 001	0.012
100 %		+40	815 500 002	-7.4	-0.000 001	-0.009
100 %		+50	815 500 020	9.7	0.000 001	0.012
Batt. Endpoint	3.300	+20	815 500 003	-6.7	-0.000 001	-0.008



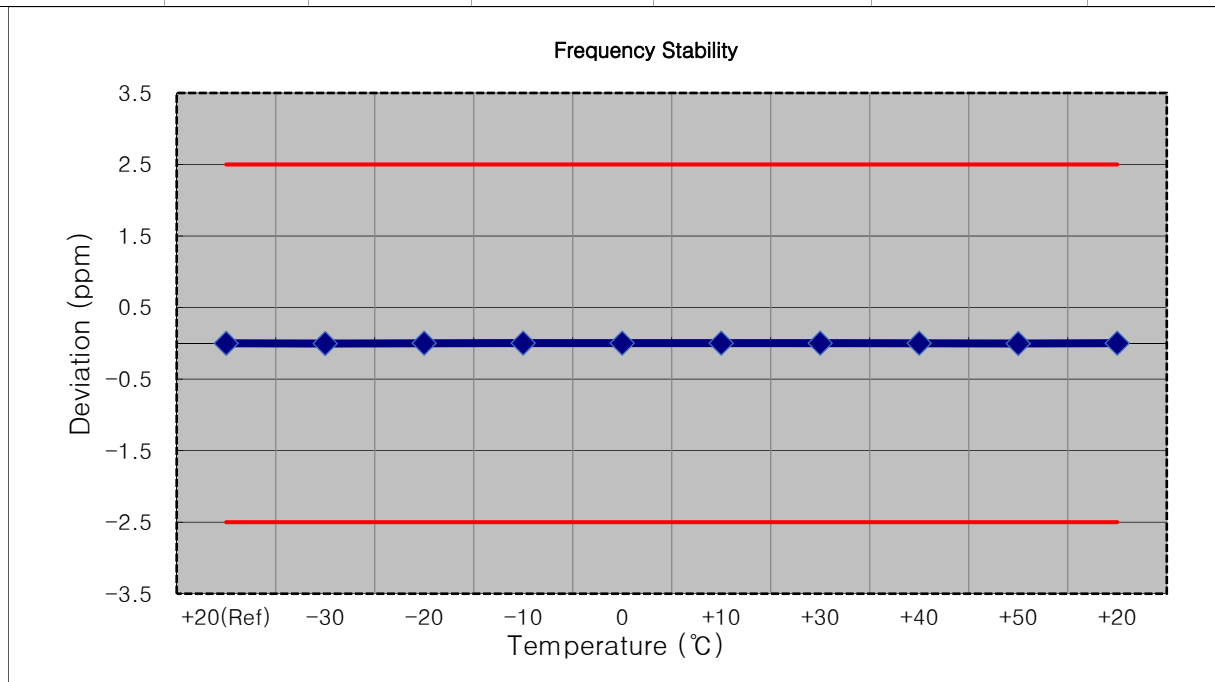
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>816,500,000 Hz</u>
CHANNEL:	<u>26715(5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	3.900	+20(Ref)	816 499 998	0.0	0.000 000	0.000
100 %		-30	816 500 001	2.8	0.000 000	0.003
100 %		-20	816 499 995	-2.6	0.000 000	-0.003
100 %		-10	816 499 995	-3.0	0.000 000	-0.004
100 %		0	816 499 999	1.2	0.000 000	0.001
100 %		+10	816 500 000	1.8	0.000 000	0.002
100 %		+30	816 499 996	-2.3	0.000 000	-0.003
100 %		+40	816 499 996	-1.5	0.000 000	-0.002
100 %		+50	816 500 000	1.9	0.000 000	0.002
Batt. Endpoint	3.300	+20	816 499 995	-3.2	0.000 000	-0.004



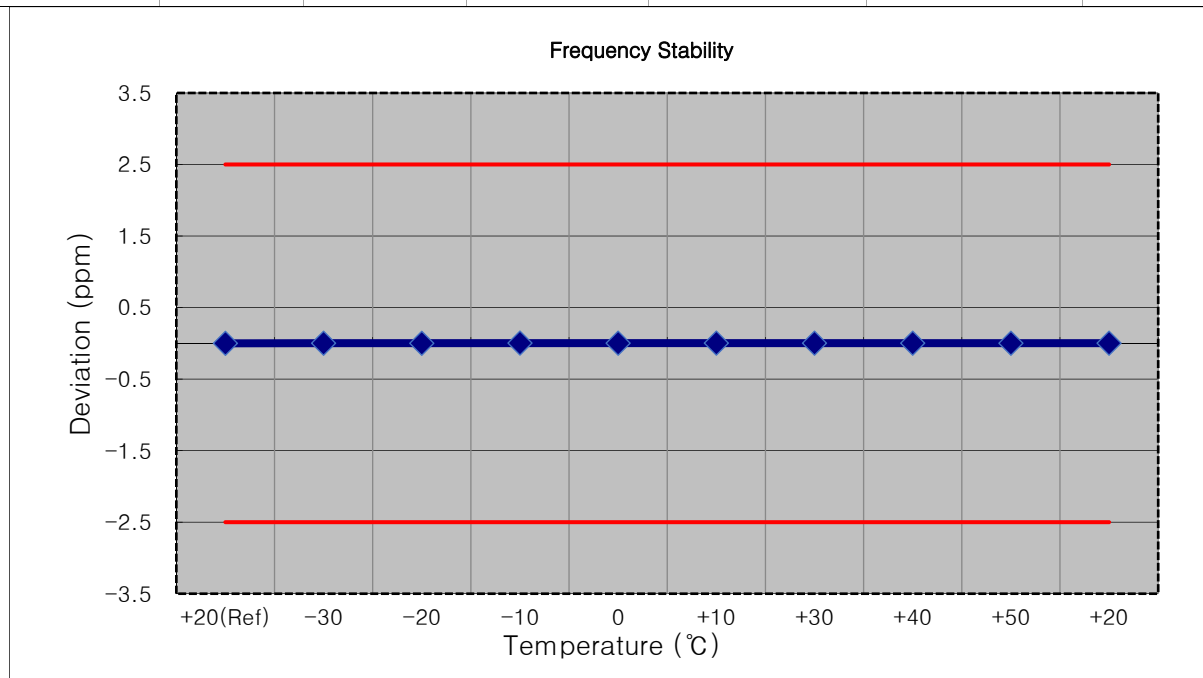
MODE:	<u>LTE 26</u>
OPERATING FREQUENCY:	<u>819,000,000 Hz</u>
CHANNEL:	<u>26740(10 MHz)</u>
REFERENCE VOLTAGE:	<u>3.900 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	819 000 002	0.0	0.000 000	0.000
100 %		-30	819 000 000	-2.5	0.000 000	-0.003
100 %		-20	819 000 004	1.7	0.000 000	0.002
100 %		-10	819 000 005	2.3	0.000 000	0.003
100 %		0	819 000 004	2.1	0.000 000	0.003
100 %		+10	819 000 004	2.0	0.000 000	0.002
100 %		+30	819 000 004	1.8	0.000 000	0.002
100 %		+40	819 000 004	1.3	0.000 000	0.002
100 %		+50	819 000 000	-1.9	0.000 000	-0.002
Batt. Endpoint	3.300	+20	819 000 004	1.2	0.000 000	0.001



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:	<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)	821 500 002	0.0	0.000 000	0.000
100 %		-30	821 500 004	1.4	0.000 000	0.002
100 %		-20	821 500 003	0.8	0.000 000	0.001
100 %		-10	821 500 005	3.1	0.000 000	0.004
100 %		0	821 500 004	1.6	0.000 000	0.002
100 %		+10	821 500 005	2.3	0.000 000	0.003
100 %		+30	821 500 004	2.0	0.000 000	0.002
100 %		+40	821 500 004	1.8	0.000 000	0.002
100 %		+50	821 500 004	1.4	0.000 000	0.002
Batt. Endpoint	3.300	+20	821 500 004	1.8	0.000 000	0.002



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	23.09	0.204	100
		1	3	23.05	0.202	100
		1	5	23.12	0.205	100
		3	0	22.99	0.199	100
		3	1	22.96	0.198	100
		3	3	22.89	0.194	100
		6	0	21.93	0.156	100
	16QAM	1	0	22.32	0.171	100
		1	3	22.28	0.169	100
		1	5	22.28	0.169	100
		3	0	22.06	0.161	100
		3	1	22.15	0.164	100
		3	3	22.06	0.161	100
		6	0	20.97	0.125	100
	64QAM	1	0	21.18	0.131	100
		1	3	21.18	0.131	100
		1	5	21.15	0.130	100
		3	0	21.02	0.126	100
		3	1	21.00	0.126	100
		3	3	20.99	0.126	100
		6	0	19.93	0.098	100
	256QAM	1	0	18.01	0.063	100
		1	3	17.97	0.063	100
		1	5	17.98	0.063	100
		3	0	18.01	0.063	100
		3	1	17.96	0.063	100
		3	3	17.95	0.062	100
		6	0	17.82	0.061	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	23.18	0.208	100
		1	7	23.10	0.204	100
		1	14	23.10	0.204	100
		8	0	22.02	0.159	100
		8	3	22.02	0.159	100
		8	7	22.00	0.158	100
		15	0	21.94	0.156	100
	16QAM	1	0	22.38	0.173	100
		1	7	22.24	0.167	100
		1	14	22.35	0.172	100
		8	0	21.13	0.130	100
		8	3	21.09	0.128	100
		8	7	21.12	0.129	100
		15	0	20.94	0.124	100
	64QAM	1	0	21.24	0.133	100
		1	7	21.07	0.128	100
		1	14	21.22	0.132	100
		8	0	20.07	0.102	100
		8	3	20.06	0.102	100
		8	7	20.06	0.101	100
		15	0	19.95	0.099	100
	256QAM	1	0	18.09	0.064	100
		1	7	18.03	0.063	100
		1	14	18.03	0.064	100
		8	0	18.05	0.064	100
		8	3	17.94	0.062	100
		8	7	17.95	0.062	100
		15	0	17.89	0.061	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	23.13	0.205	100
		1	12	23.09	0.203	100
		1	24	23.10	0.204	100
		12	0	22.04	0.160	100
		12	6	21.99	0.158	100
		12	11	21.99	0.158	100
		25	0	21.97	0.157	100
	16QAM	1	0	22.39	0.174	100
		1	12	22.30	0.170	100
		1	24	22.31	0.170	100
		12	0	21.11	0.129	100
		12	6	21.06	0.128	100
		12	11	21.03	0.127	100
		25	0	20.97	0.125	100
	64QAM	1	0	21.26	0.134	100
		1	12	21.02	0.126	100
		1	24	21.19	0.132	100
		12	0	20.13	0.103	100
		12	6	20.05	0.101	100
		12	11	20.02	0.100	100
		25	0	19.98	0.100	100
	256QAM	1	0	18.06	0.064	100
		1	12	18.01	0.063	100
		1	24	18.02	0.063	100
		12	0	17.96	0.063	100
		12	6	17.98	0.063	100
		12	11	17.91	0.062	100
		25	0	17.94	0.062	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	23.12	0.205	100
		1	24	23.19	0.209	100
		1	49	23.00	0.200	100
		25	0	21.98	0.158	100
		25	12	21.96	0.157	100
		25	24	21.91	0.155	100
		50	0	21.95	0.157	100
	16QAM	1	0	22.32	0.171	100
		1	24	22.30	0.170	100
		1	49	22.18	0.165	100
		25	0	20.98	0.125	100
		25	12	20.91	0.123	100
		25	24	20.93	0.124	100
		50	0	20.94	0.124	100
	64QAM	1	0	21.23	0.133	100
		1	24	21.15	0.130	100
		1	49	21.06	0.127	100
		25	0	19.97	0.099	100
		25	12	19.93	0.099	100
		25	24	19.90	0.098	100
		50	0	19.97	0.099	100
	256QAM	1	0	18.14	0.065	100
		1	24	17.91	0.062	100
		1	49	17.95	0.062	100
		25	0	17.94	0.062	100
		25	12	17.91	0.062	100
		25	24	17.85	0.061	100
		50	0	17.91	0.062	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	-34.32	28.68	-9.95	1.44	H	< 7.00	0.054	17.29	1	0
		16QAM	-35.14	27.86	-9.95	1.44	H		0.044	16.47		
		64QAM	-36.24	26.76	-9.95	1.44	H		0.034	15.37		
		256QAM	-39.43	23.57	-9.95	1.44	H		0.017	12.18		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.0	LTE B26/ 3 MHz	QPSK	-34.26	28.74	-9.95	1.44	H	< 7.00	0.054	17.35	1	0
		16QAM	-35.04	27.96	-9.95	1.44	H		0.045	16.57		
		64QAM	-36.15	26.85	-9.95	1.44	H		0.035	15.46		
		256QAM	-39.33	23.67	-9.95	1.44	H		0.017	12.28		

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	-34.21	28.79	-9.95	1.44	H	< 7.00	0.055	17.40	1	0
		16QAM	-35.06	27.94	-9.95	1.44	H		0.045	16.55		
		64QAM	-36.12	26.88	-9.95	1.44	H		0.035	15.49		
		256QAM	-39.31	23.69	-9.95	1.44	H		0.017	12.30		

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	-34.28	28.72	-9.95	1.44	H	< 7.00	0.054	17.33	1	0
		16QAM	-35.17	27.83	-9.95	1.44	H		0.044	16.44		
		64QAM	-36.25	26.75	-9.95	1.44	H		0.034	15.36		
		256QAM	-39.31	23.69	-9.95	1.44	H		0.017	12.30		

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	-46.30	9.44	-61.24	2.02	V	-53.82	-13.00	1	0
	2 472.00	-40.01	10.35	-51.21	2.59	H	-43.45	-13.00		
	3 296.00	-53.89	11.06	-62.05	2.95	V	-53.94	-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	3.7189	27.976	-57.558	-29.582	-13.00
	3		4.0778	27.976	-57.301	-29.325	
	5		9.7308	28.591	-56.391	-27.800	
	10		7.2084	28.591	-56.801	-28.210	

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)

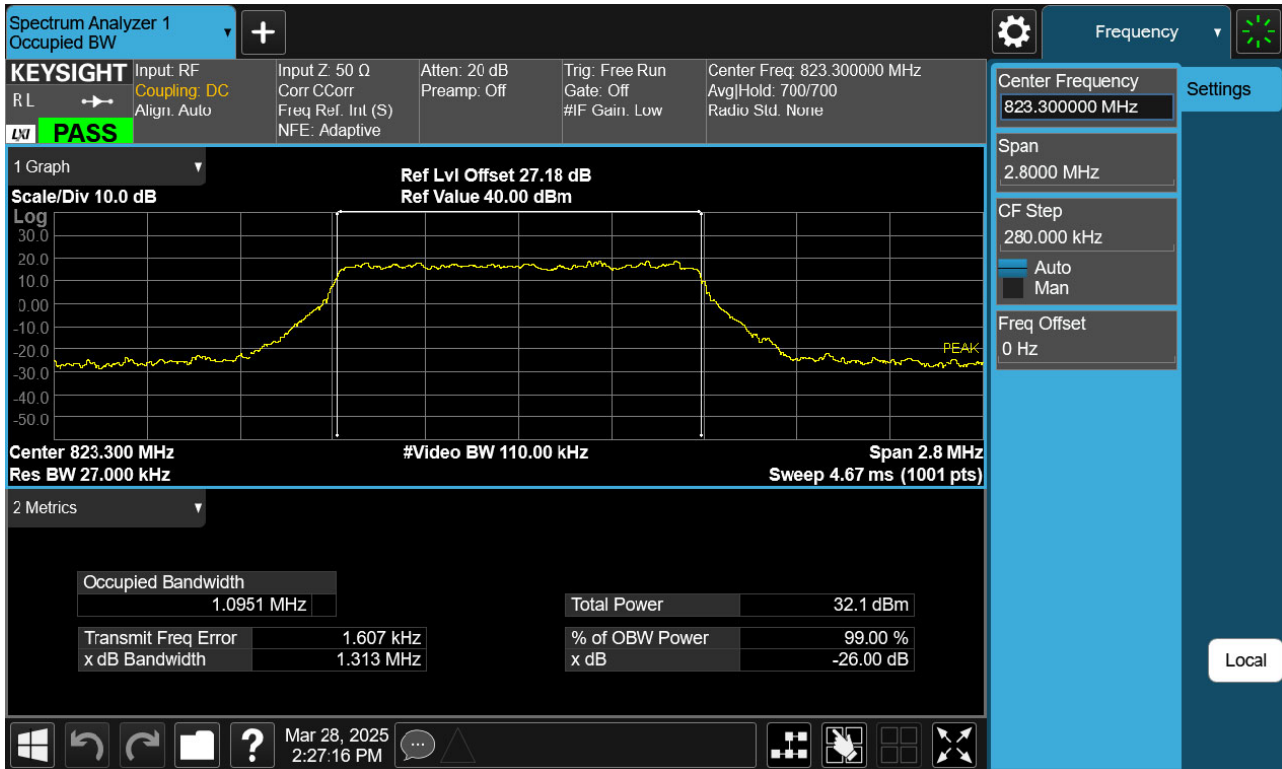
- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Band Edge are shown Page 197 ~ 208.

9.8.6 BAND EDGE(Part22)

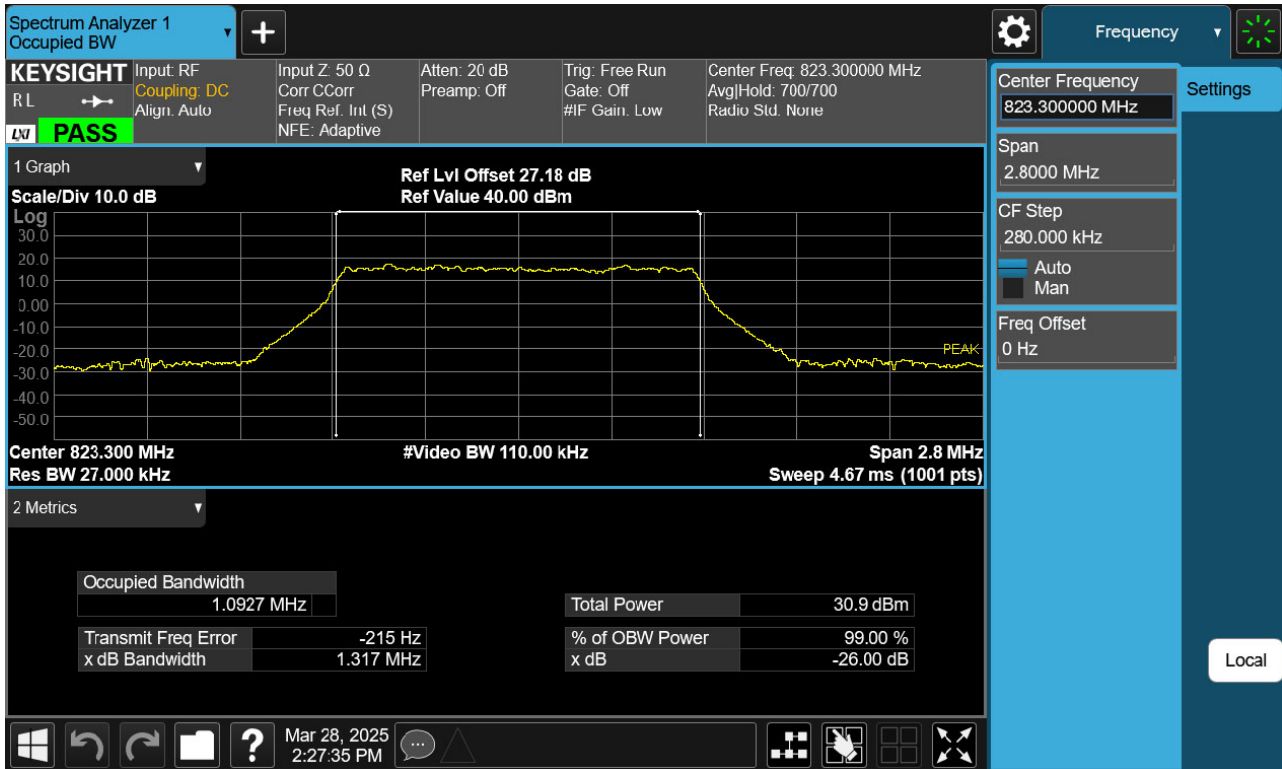
- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 209 ~ 216.

10. TEST PLOTS(Main 1 ANT)

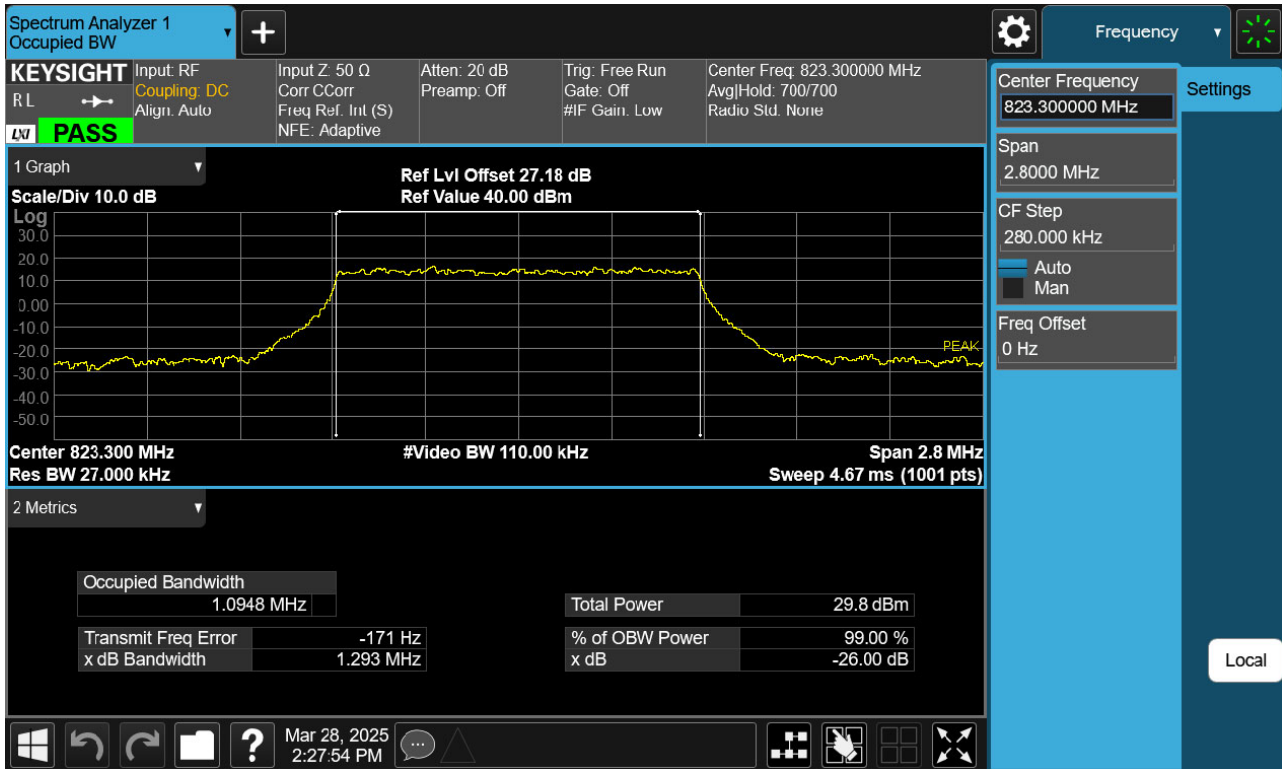
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 QPSK RB 6_0)



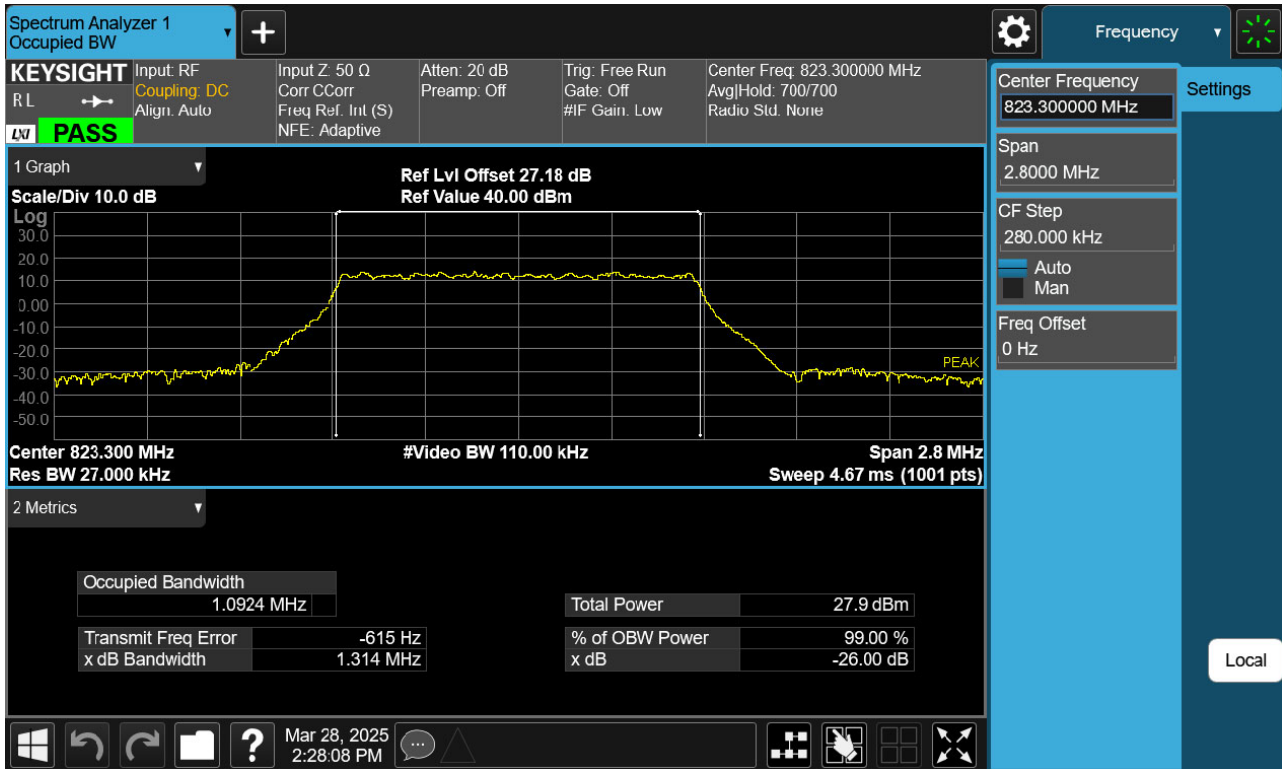
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 16QAM RB 6_0)



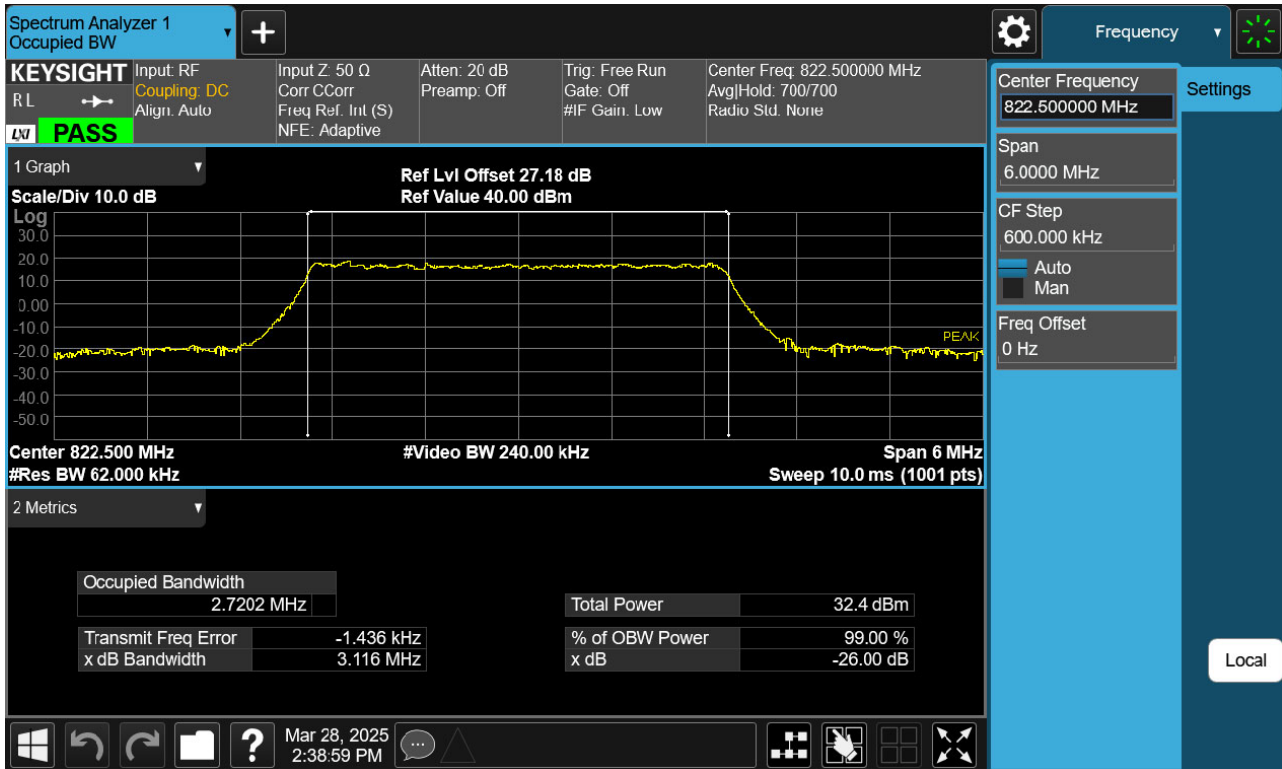
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 64QAM RB 6_0)



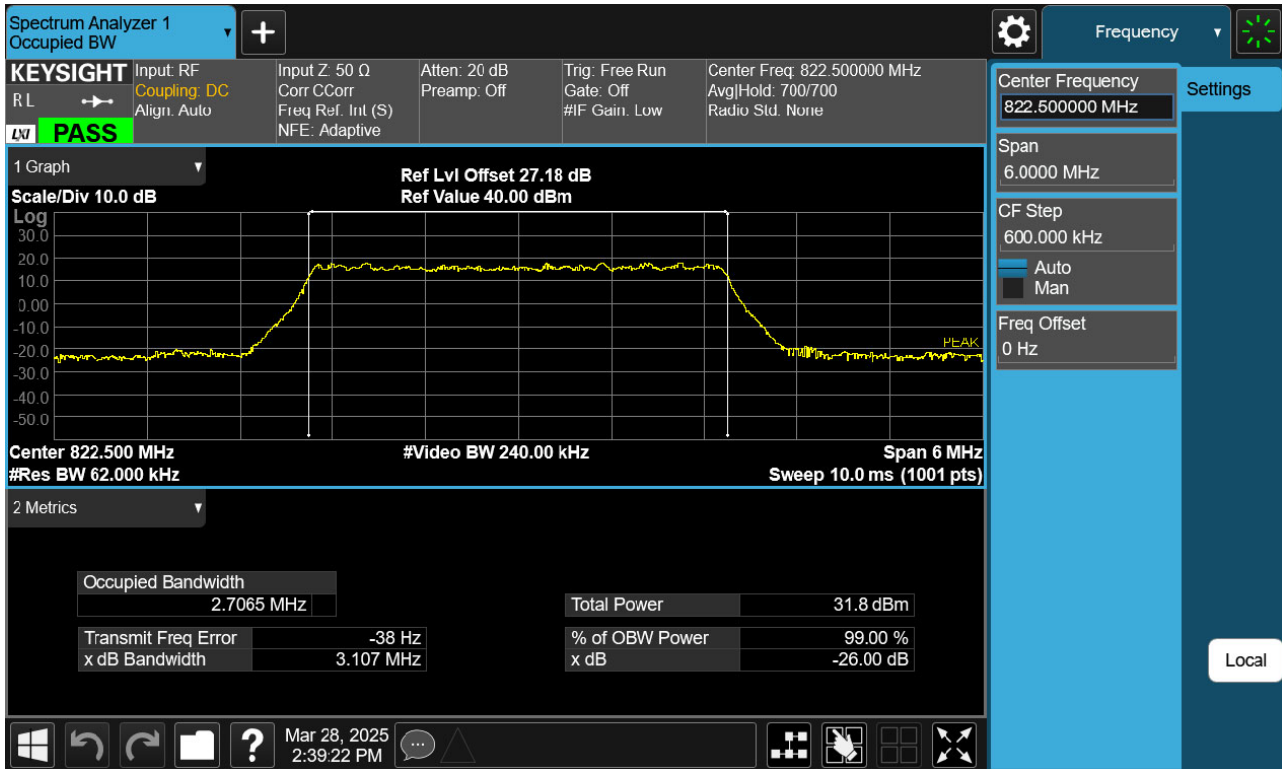
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 256QAM RB 6_0)



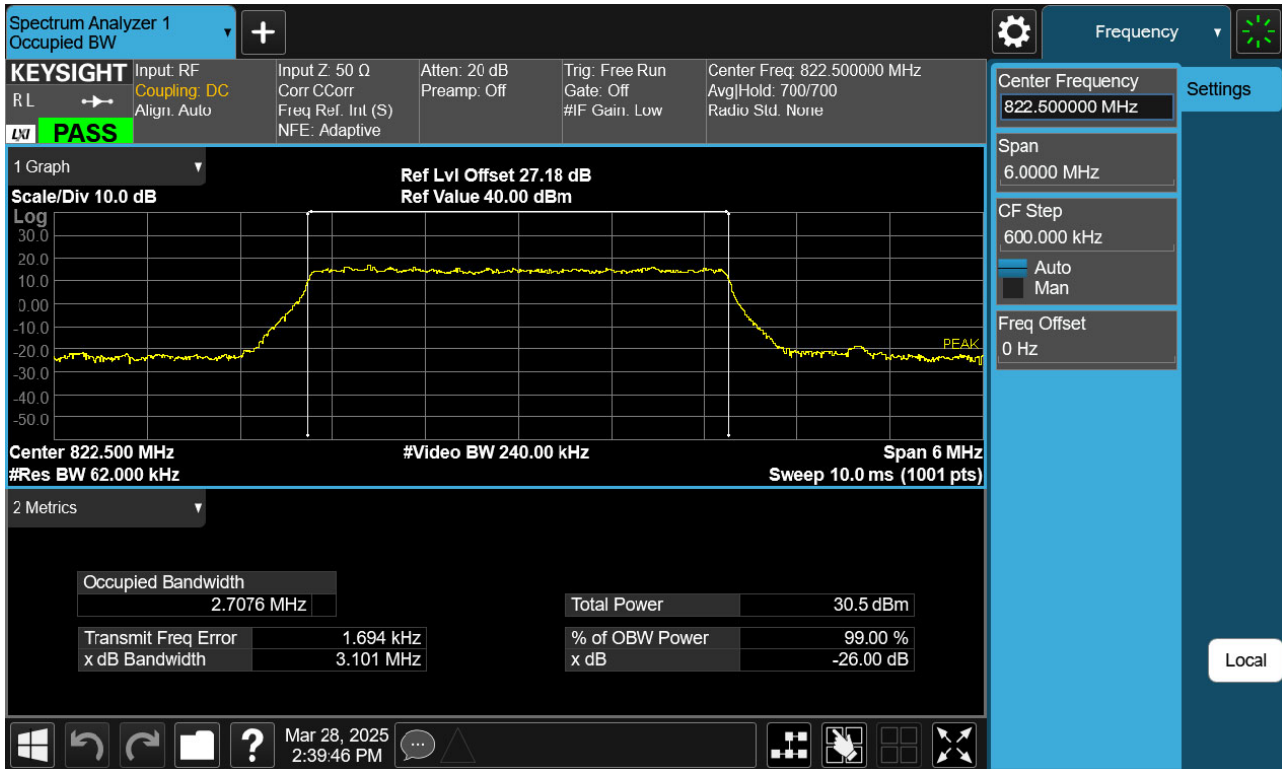
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 QPSK RB 15_0)



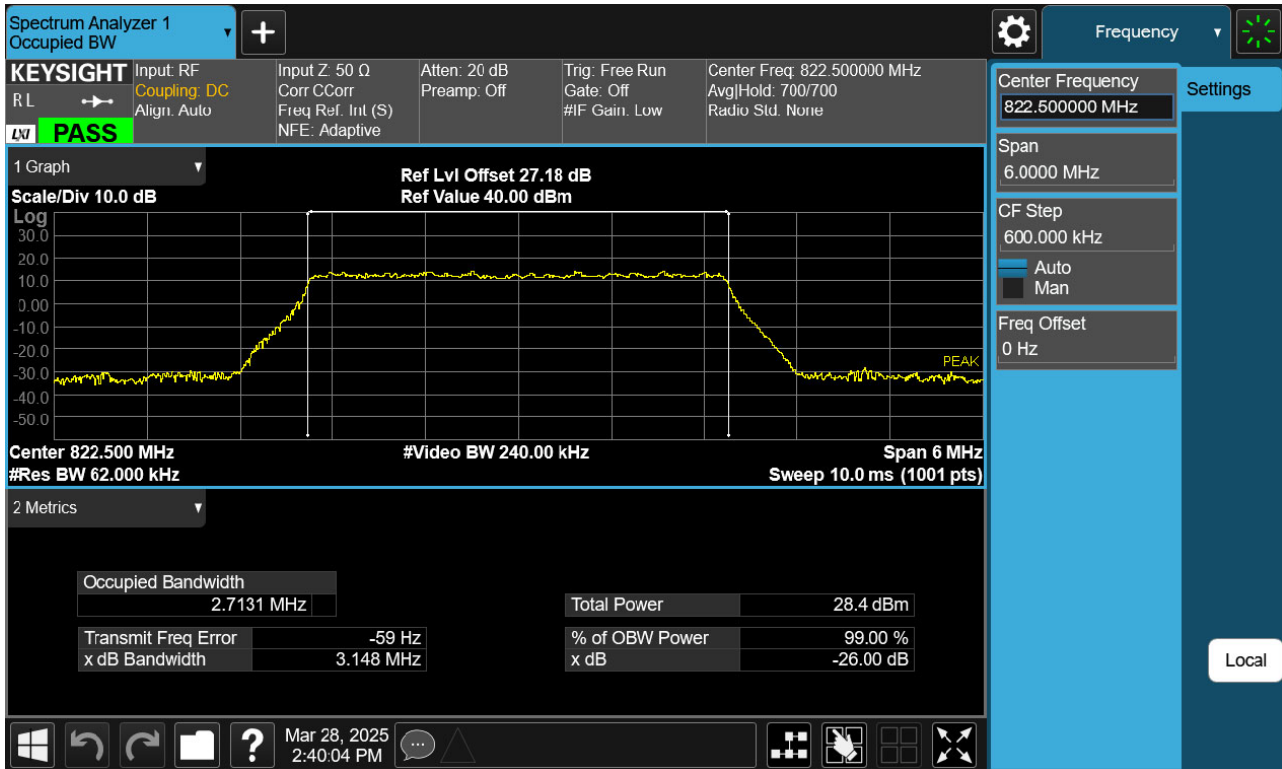
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 16QAM RB 15_0)



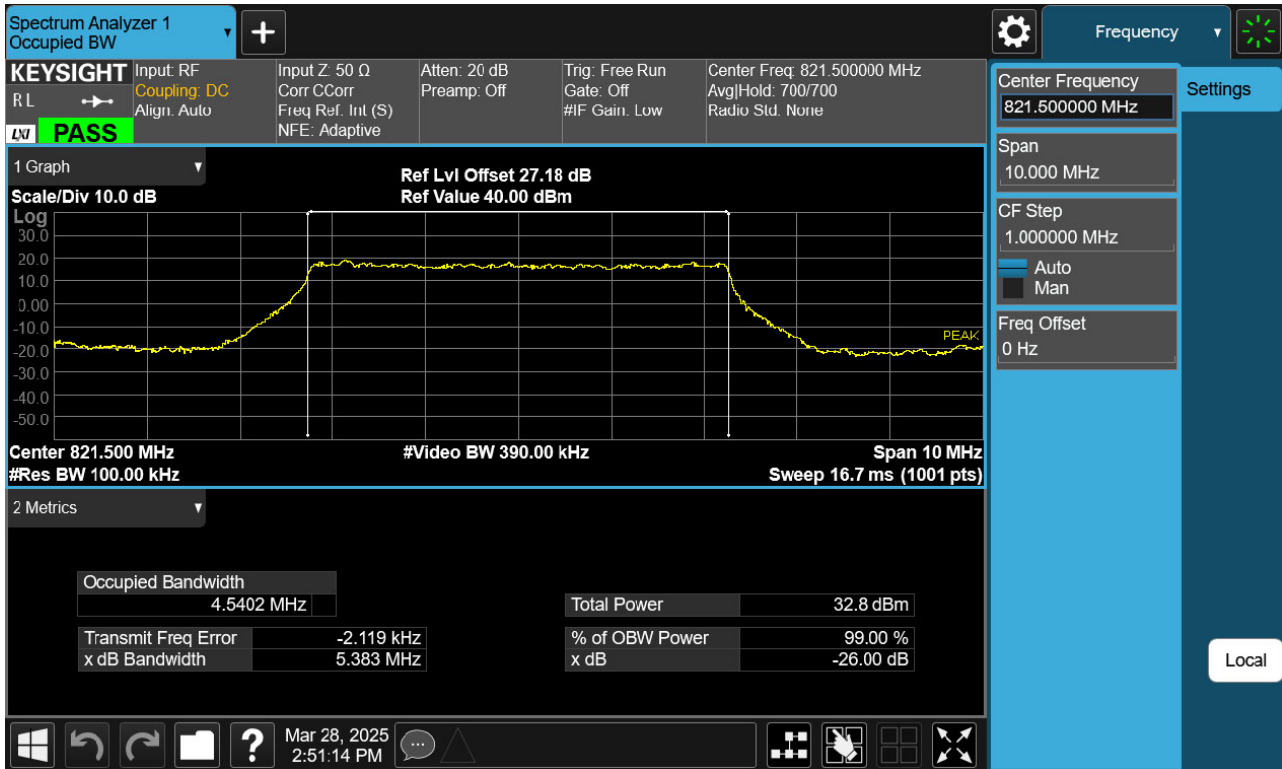
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 64QAM RB 15_0)



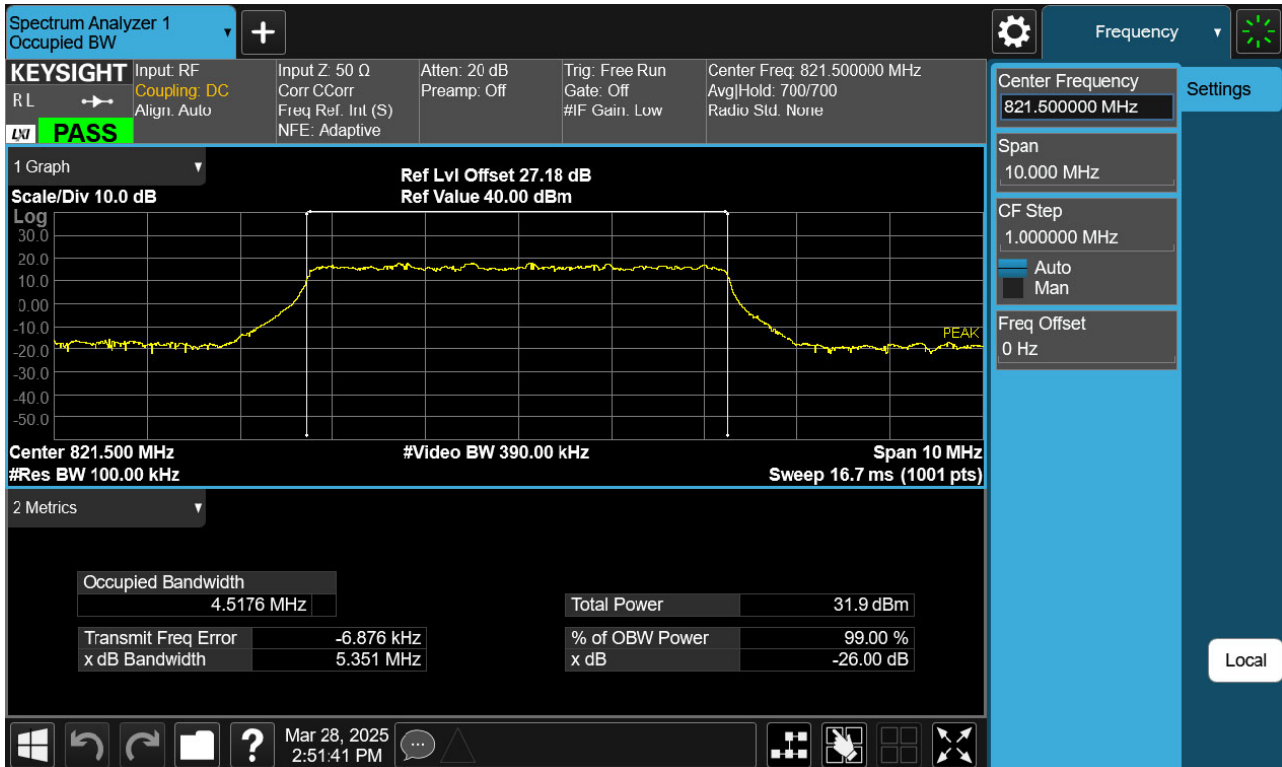
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 256QAM RB 15_0)



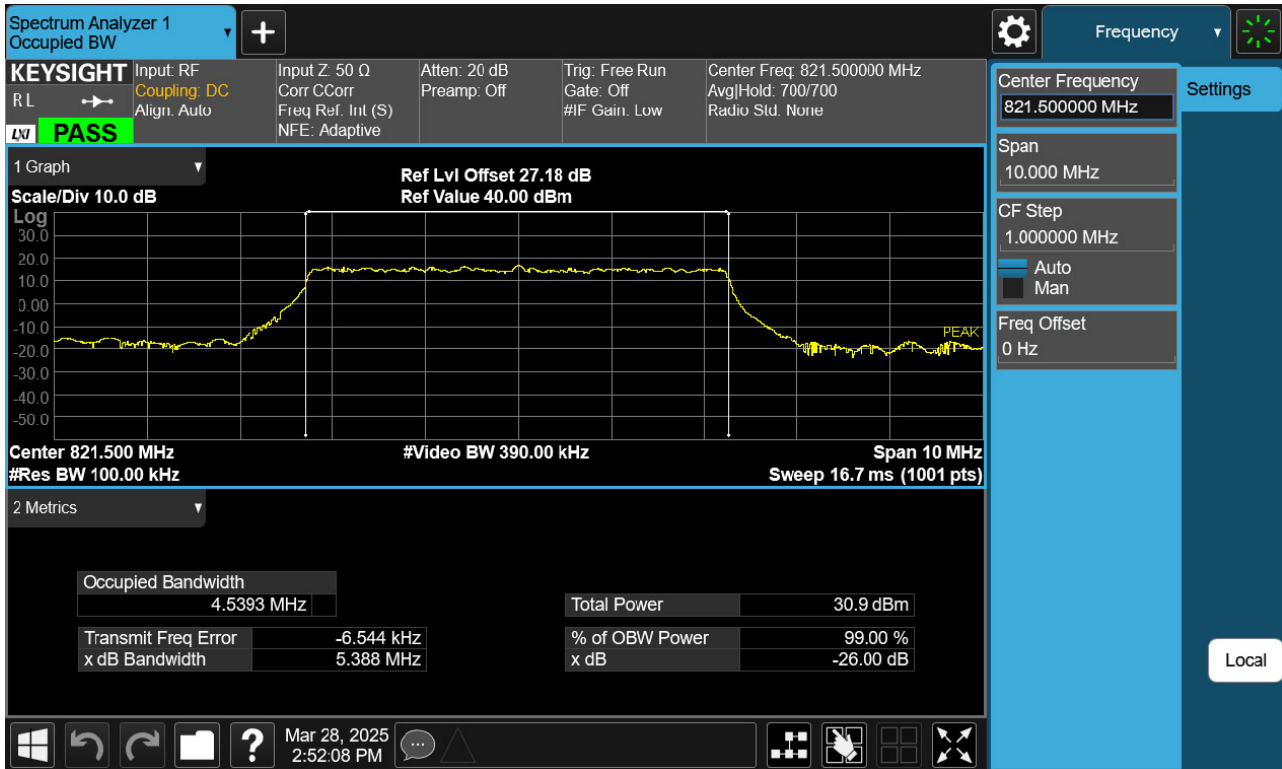
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 QPSK RB 25_0)



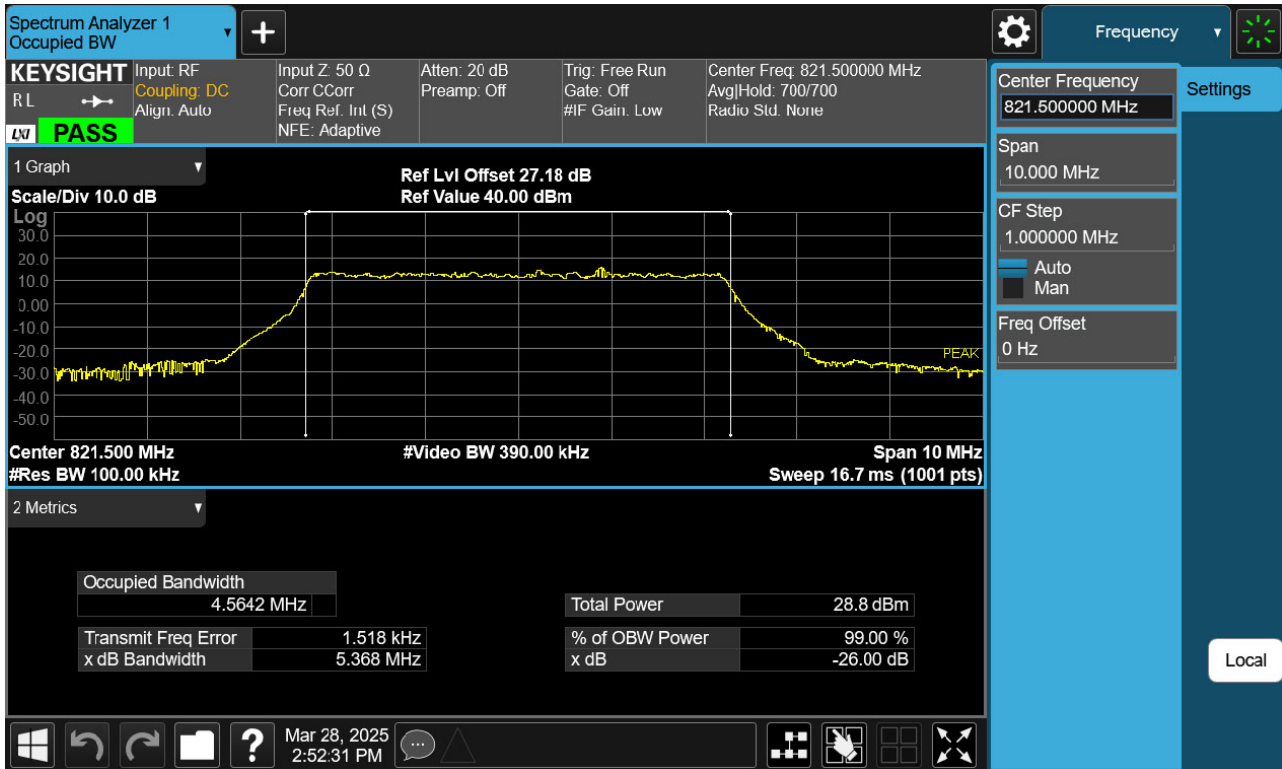
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 16QAM RB 25_0)



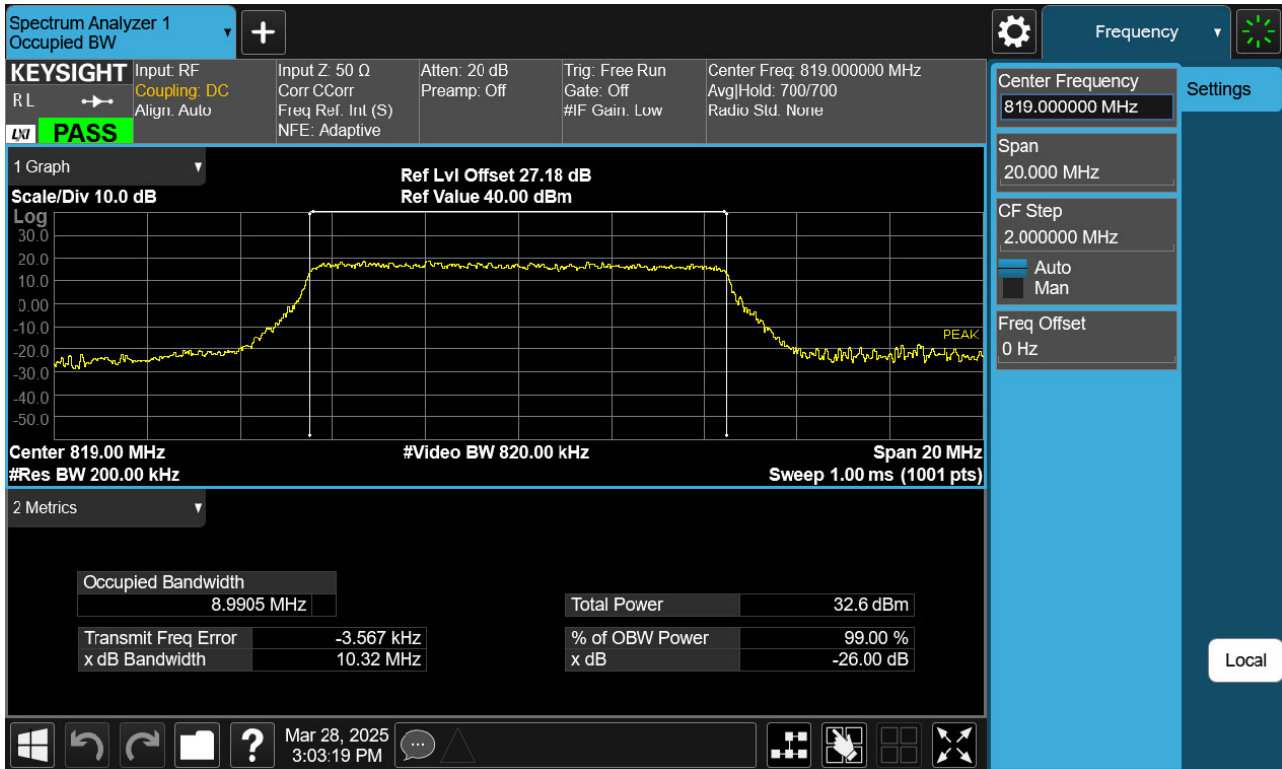
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 64QAM RB 25_0)



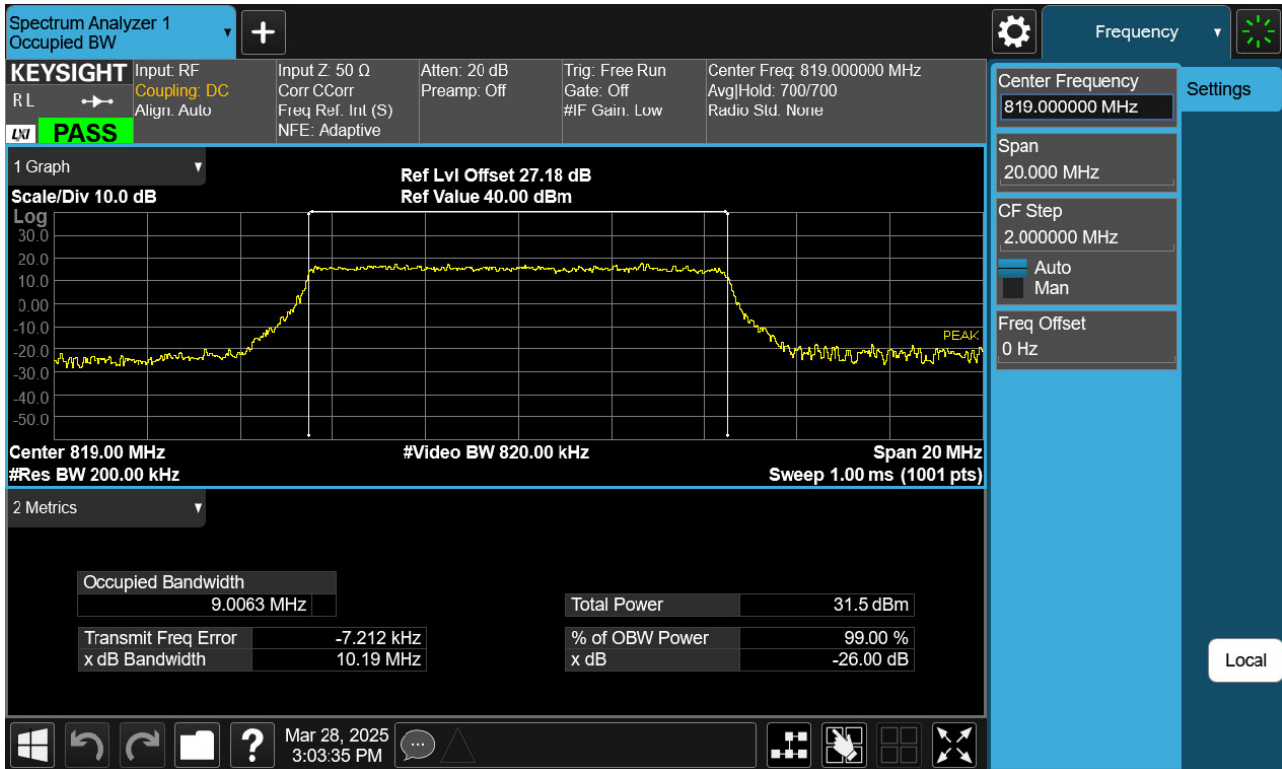
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 256QAM RB 25_0)



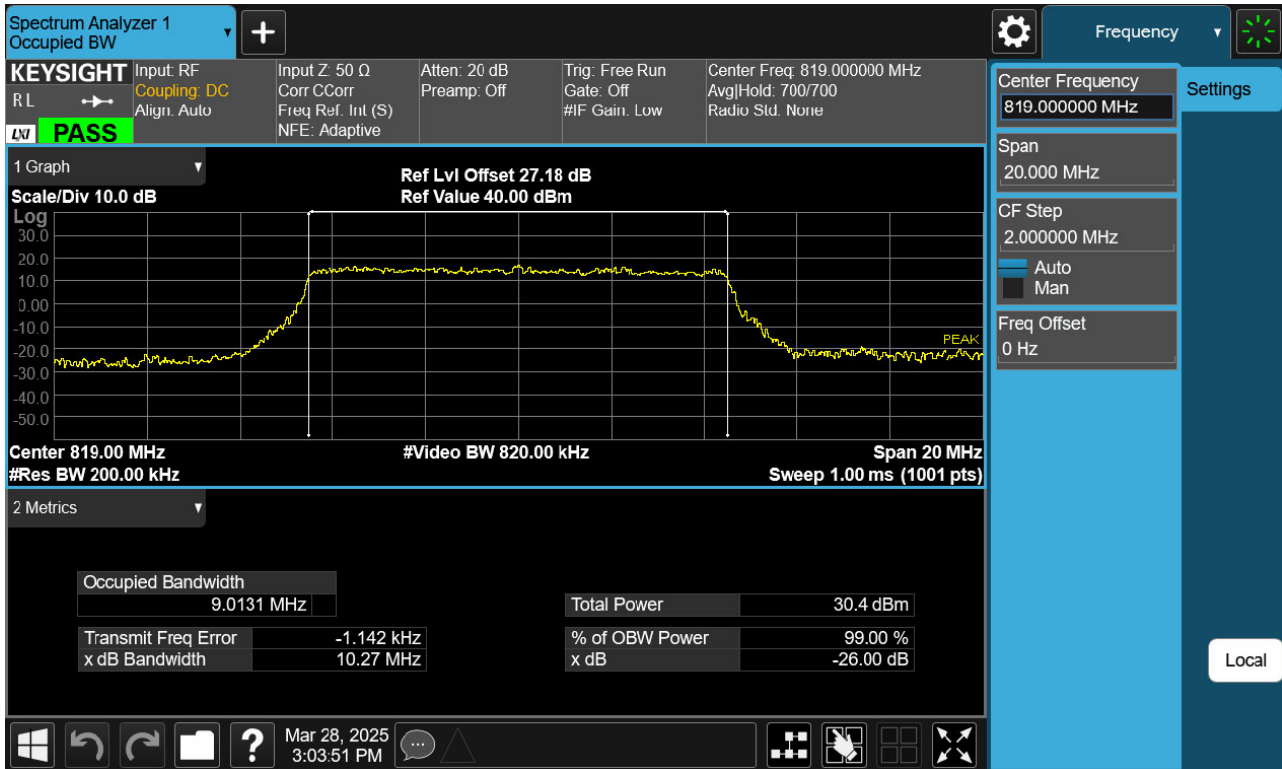
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 QPSK RB 50_0)



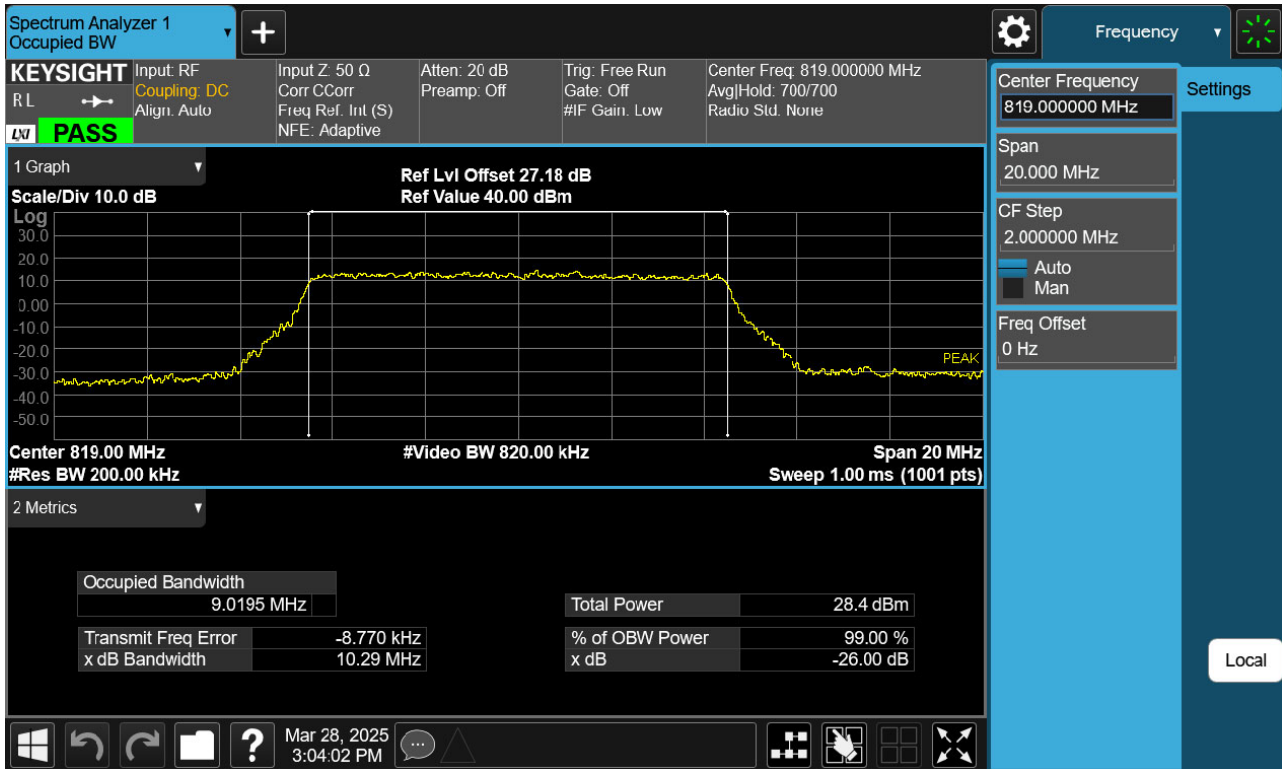
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 16QAM RB 50_0)



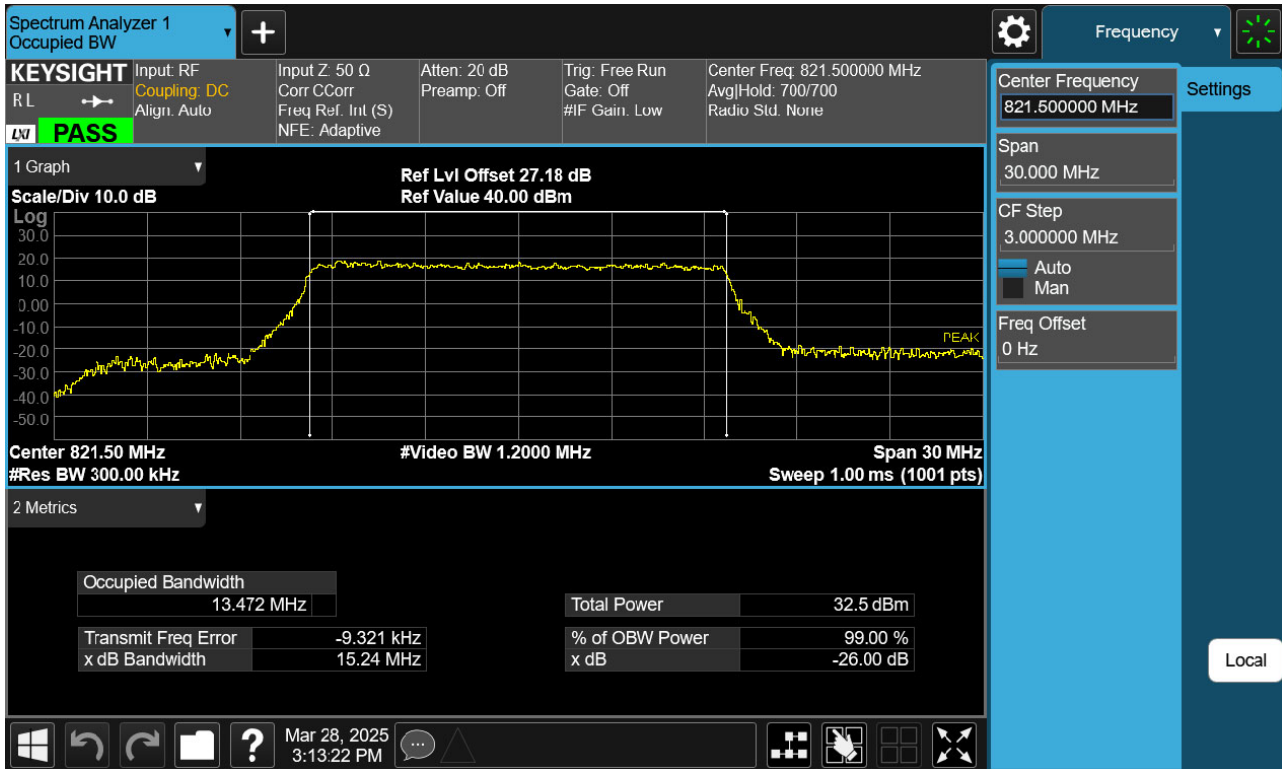
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 64QAM RB 50_0)



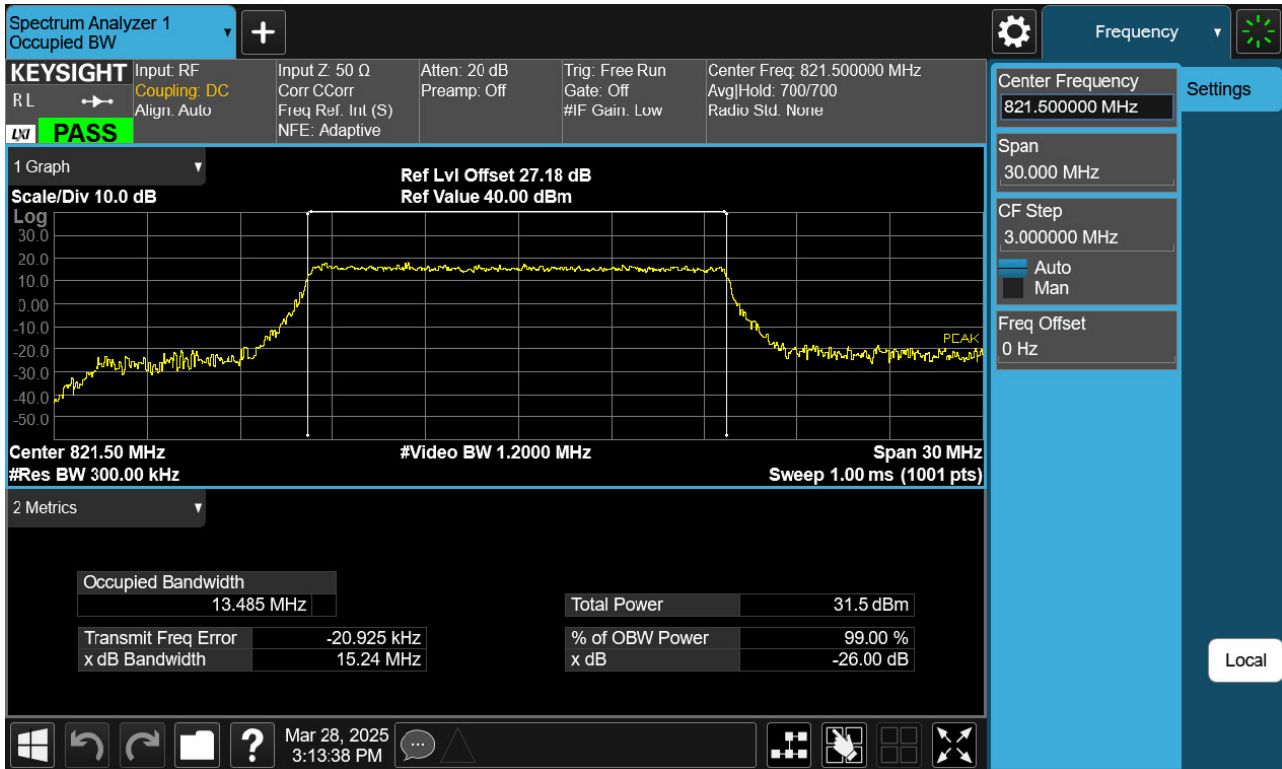
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 256QAM RB 50_0)



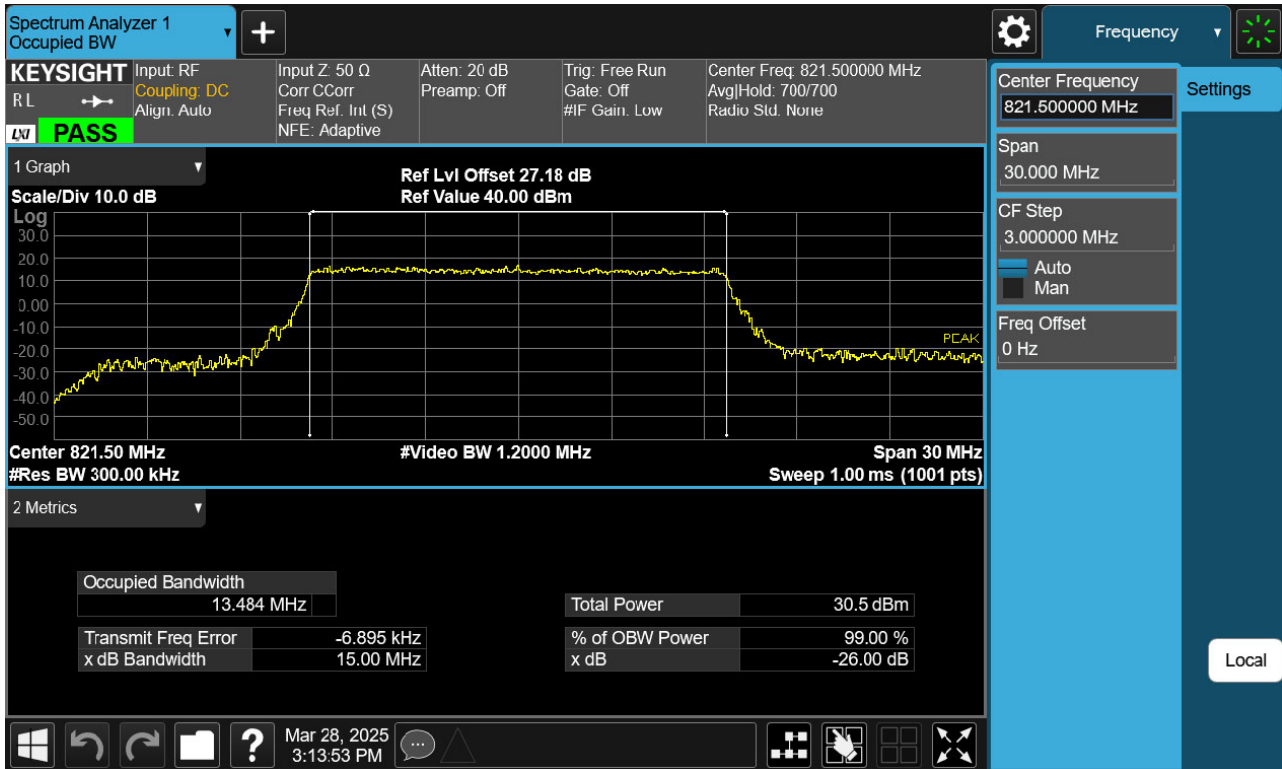
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 QPSK RB 75_0)



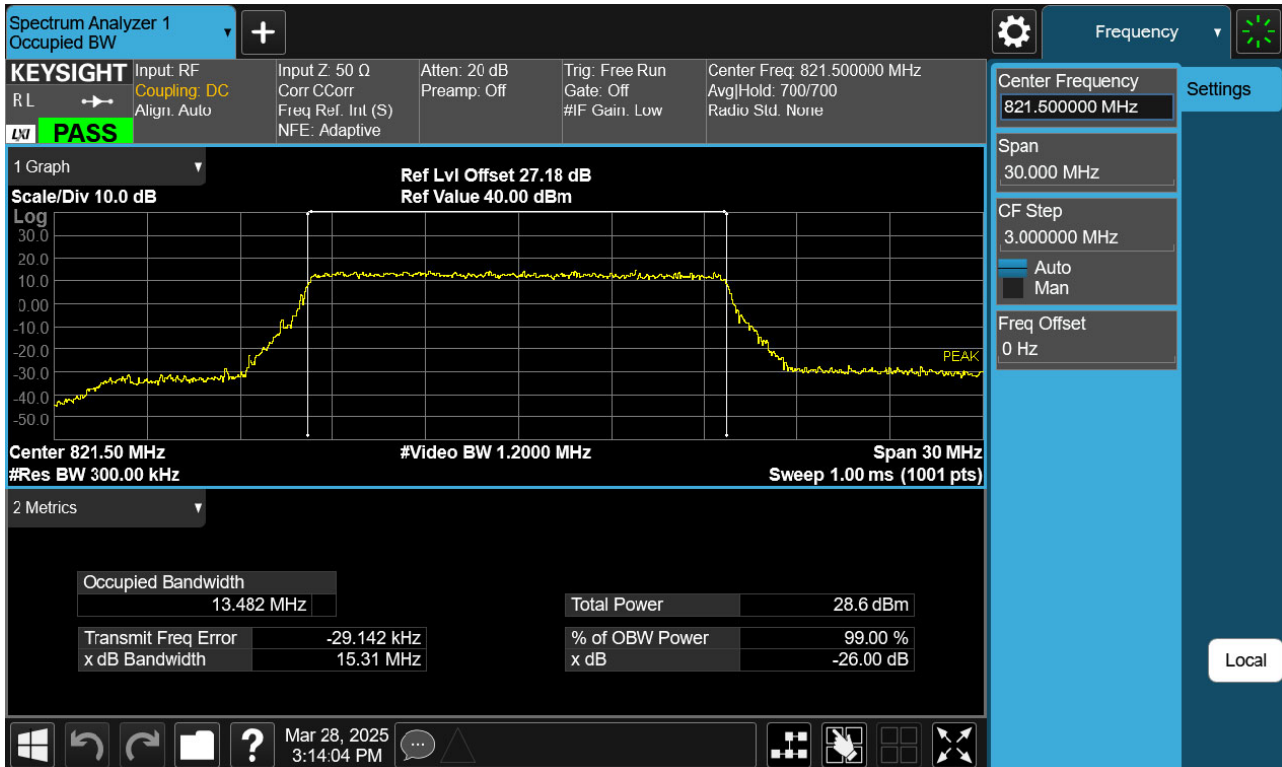
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 16QAM RB 75_0)



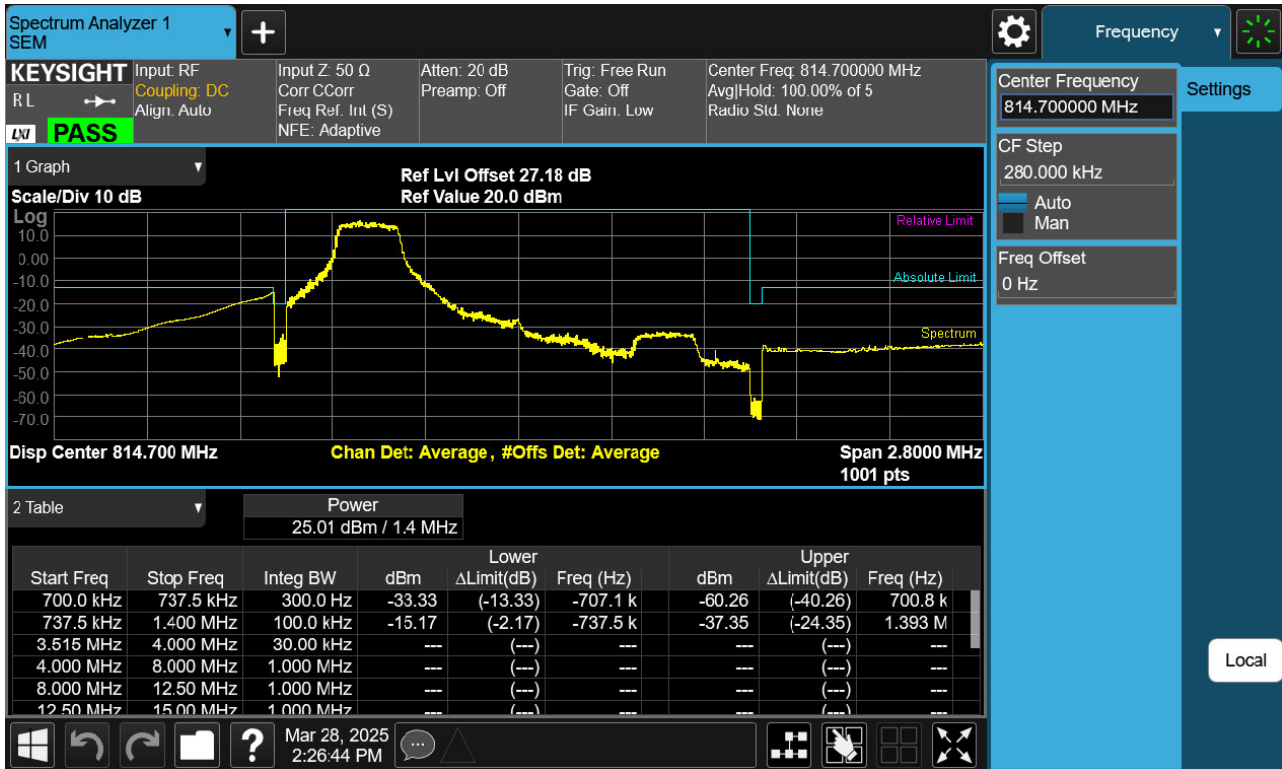
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 64QAM RB 75_0)



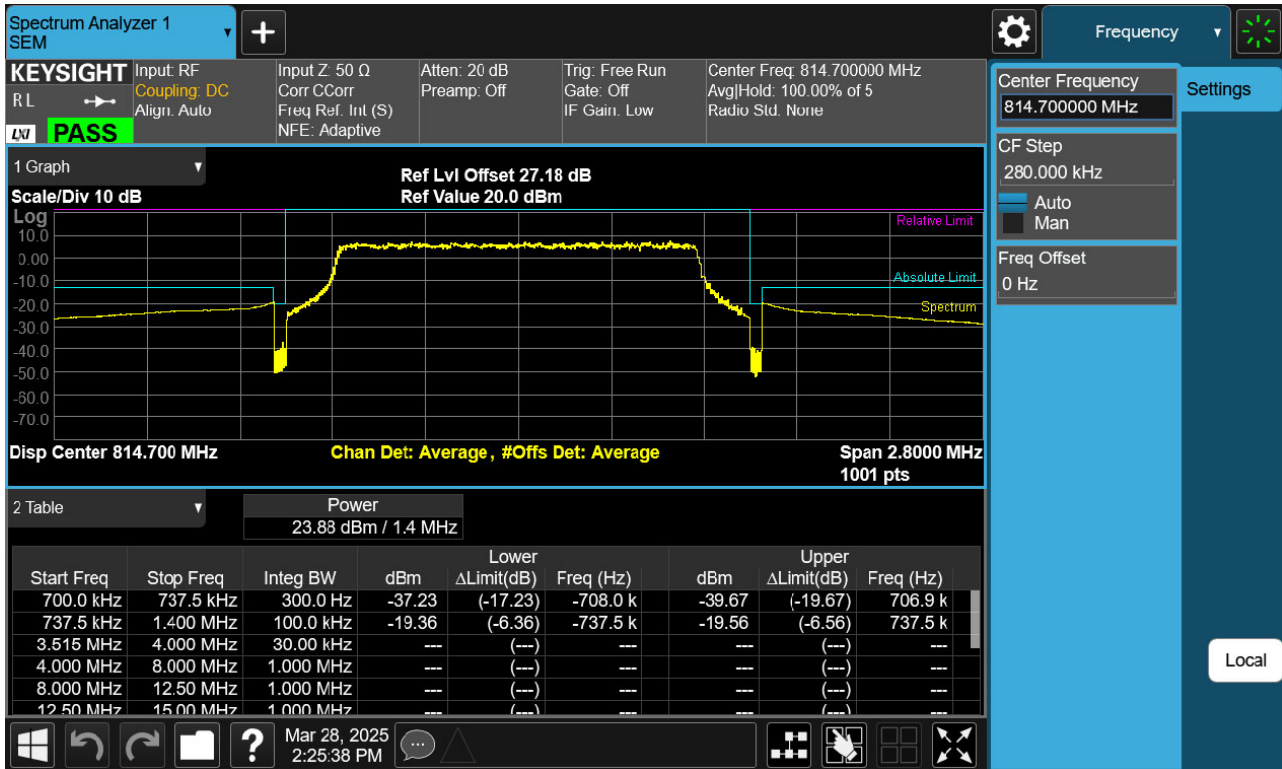
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 256QAM RB 75_0)



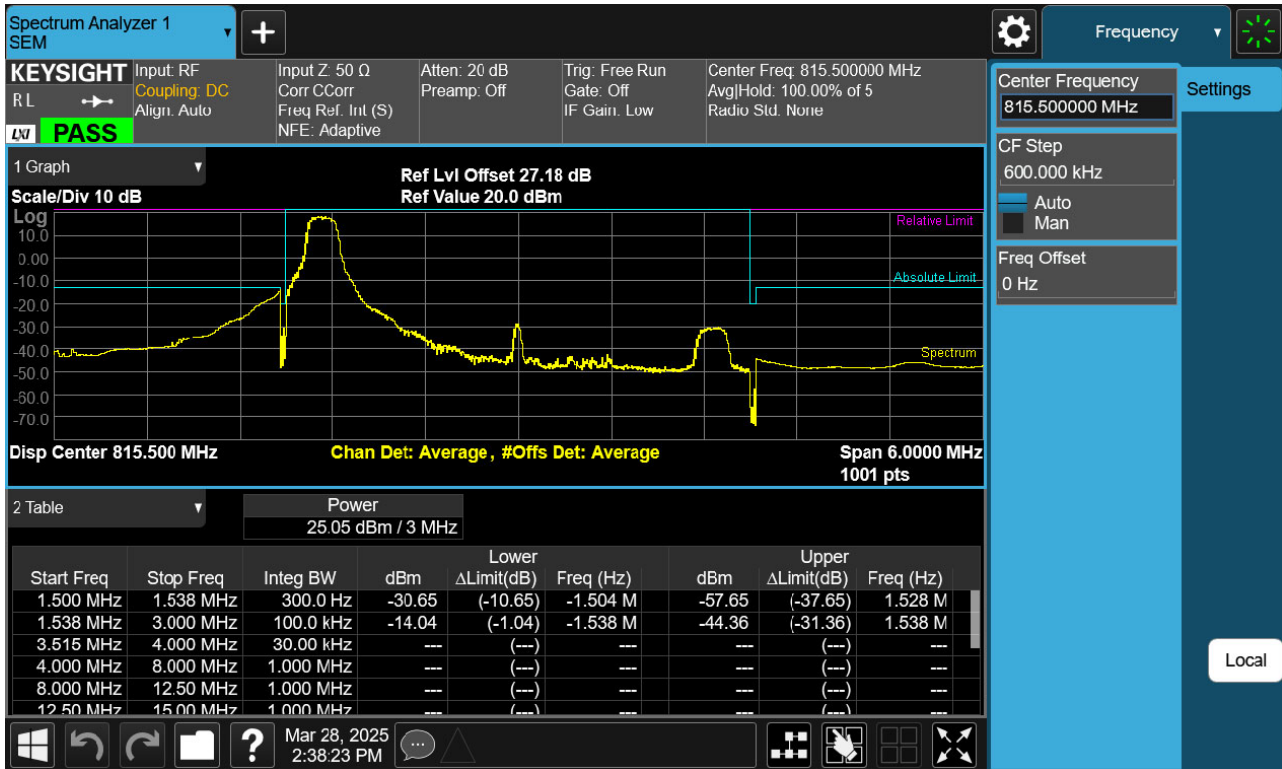
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK RB 1, Offset 0)



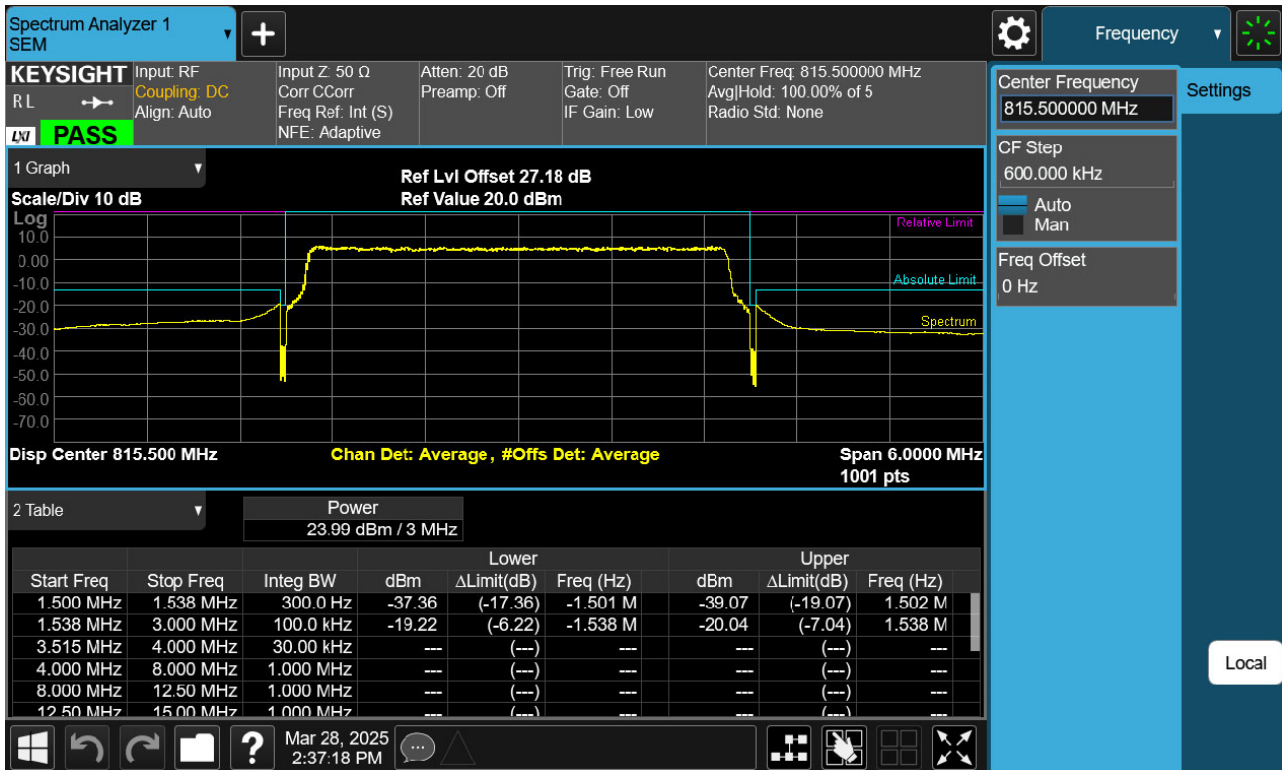
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK_RB6_Offset 0)



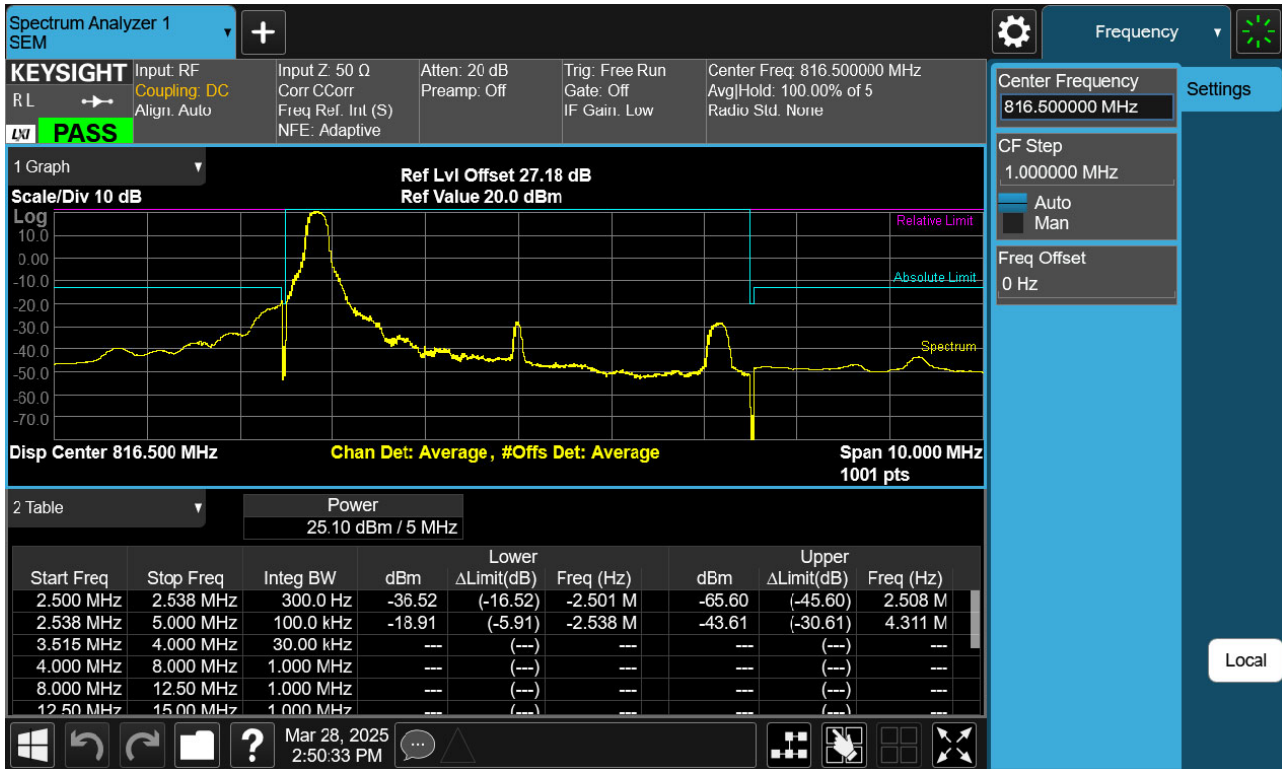
BAND 26. Lower Channel Edge Plot (3 M BW Ch.26705 QPSK RB 1, Offset 0)



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)

