TEST REPORT

FCC LTE B25(2) Test for TM18FNNABM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2506-FC056

DATE OF ISSUE
June 17, 2025

Tested by
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Accredited by KOLAS, Republic of KOREA

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HCT-RF-2506-FC056

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Applicant	LG Electronics Inc. 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM18FNNABM0
Date of Test	February 08, 2025 ~ June 17, 2025
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
FCC ID	2BO3LTM18FNNABM0
FCC Classification	PCS Licensed Transmitter (PCB)
Test Standard Used	FCC Rule Part: § 24
Test Results	PASS

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 17, 2025	Initial Release

Notice

Content
The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a) The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***. When confirmation of authenticity of this test report is required, please contact www.hct.co.kr This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA. (KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	LG Electronics Inc.
Address:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
FCC ID:	2BO3LTM18FNNABM0
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 24
EUT Type:	Telematics
Model(s):	TM18FNNABM0
Voltage:	4.2V
Tx Frequency:	1850.7 MHz – 1914.3 MHz (LTE – Band25/2 (1.4 MHz)) 1851.5 MHz – 1913.5 MHz (LTE – Band25/2 (3 MHz)) 1852.5 MHz – 1912.5 MHz (LTE – Band25/2 (5 MHz)) 1855.0 MHz – 1910.0 MHz (LTE – Band25/2 (10 MHz)) 1857.5 MHz – 1907.5 MHz (LTE – Band25/2 (15 MHz)) 1860.0 MHz – 1905.0 MHz (LTE – Band25/2 (20 MHz))
Date(s) of Tests:	February 08, 2025 ~ June 17, 2025
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #1 Conducted : BMW ICON-25SF Conducted #3
Antenna Information	Please refer to the Antenna Specification document.

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1.1. SUPPORTED BANDS PER ANTENNA PORT

Antenna Port	Supported bands
MIMO 1	- WCDMA: B2, 5 - LTE: B2, 4, 5, 7, 12, 13, 17, 25, 66, 26, 38, 42, 48, 71 - NR: n2, 5, 7, 12, 25, 41, 48, 66, 71, 77, 78
MIMO 2	- LTE: B42, 48 - NR: n48, 77, 78
MIMO 3	Only RX
MIMO 4	Only RX
Int. BUA (Back Up Antenna)	- WCDMA: B2, 5 - LTE: B2, 4, 5, 7, 25, 26, 38, 66 - NR: n2, 5, 7, 25, 41, 66

Note:

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

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1.2. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band25/2 (1.4)	1850.7 - 1914.3	1M09G7D	QPSK	0.201	23.03
		1M09W7D	16QAM	0.164	22.15
		1M09W7D	64QAM	0.130	21.14
		1M09W7D	256QAM	0.065	18.16
LTE – Band25/2 (3)	1851.5 - 1913.5	2M70G7D	QPSK	0.202	23.05
		2M69W7D	16QAM	0.164	22.16
		2M70W7D	64QAM	0.130	21.13
		2M70W7D	256QAM	0.065	18.16
LTE – Band25/2 (5)	1852.5 - 1912.5	4M50G7D	QPSK	0.203	23.08
		4M48W7D	16QAM	0.168	22.25
		4M50W7D	64QAM	0.131	21.17
		4M50W7D	256QAM	0.065	18.16
LTE – Band25/2 (10)	1855.0 - 1910.0	8M98G7D	QPSK	0.198	22.96
		8M99W7D	16QAM	0.166	22.21
		8M99W7D	64QAM	0.133	21.25
		9M00W7D	256QAM	0.066	18.18
LTE – Band25/2 (15)	1857.5 - 1907.5	13M5G7D	QPSK	0.205	23.11
		13M5W7D	16QAM	0.169	22.27
		13M4W7D	64QAM	0.130	21.14
		13M4W7D	256QAM	0.066	18.21
LTE – Band25/2 (20)	1860.0 - 1905.0	18M0G7D	QPSK	0.206	23.13
		17M9W7D	16QAM	0.168	22.26
		17M9W7D	64QAM	0.133	21.24
		17M9W7D	256QAM	0.065	18.14

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2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea

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3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

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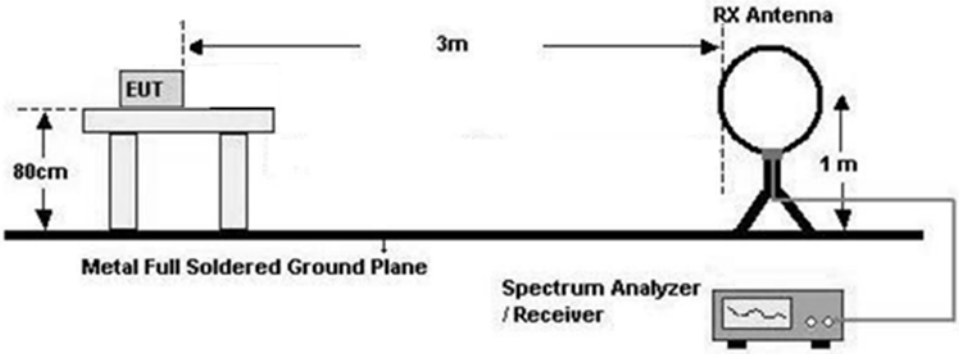
3.2 RADIATED POWER

Test Overview

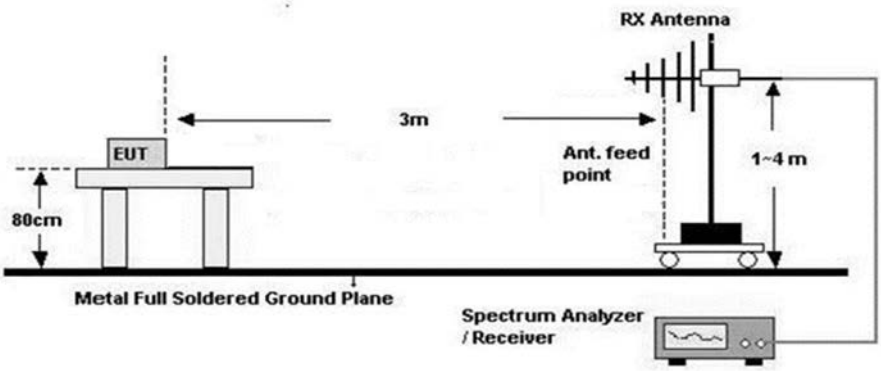
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

Test Configuration

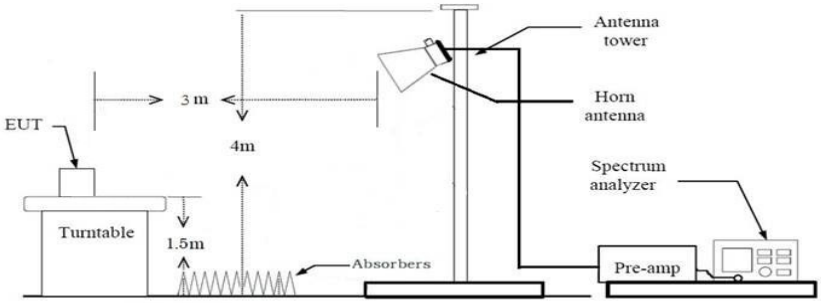
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



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Test Settings

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

Test Note

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

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3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

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

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

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

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

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

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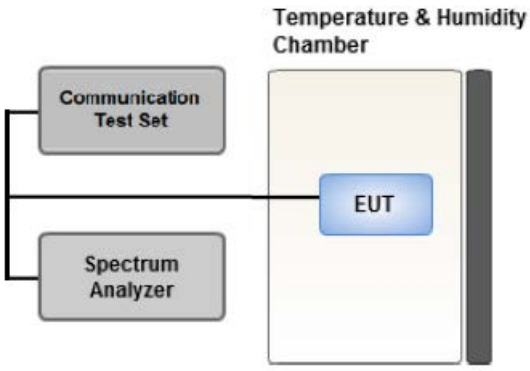
3.4 PEAK- TO- AVERAGE RATIO



Test setup

CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
   .- for continuous transmissions, set to 1 ms,
   .- or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

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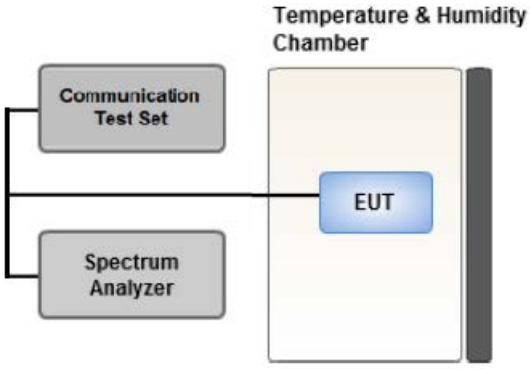
3.5 OCCUPIED BANDWIDTH.



Test setup

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

Test Settings

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

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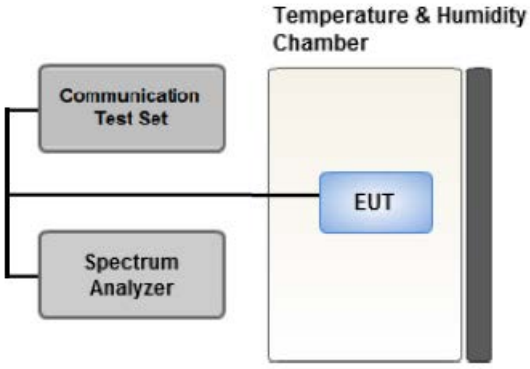
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

Test Overview

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

Test Settings

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

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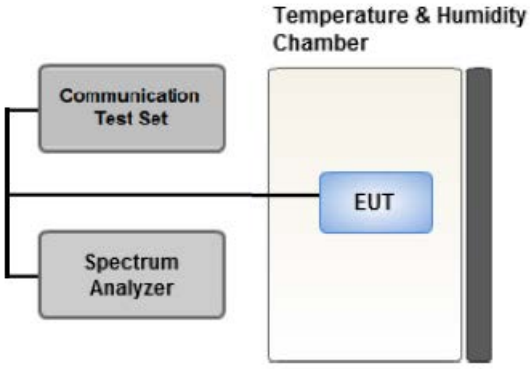
3.7 BAND EDGE



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 > 1 % of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time > Number of points in sweep × Symbol period
9. The trace was allowed to stabilize

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Test Notes

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

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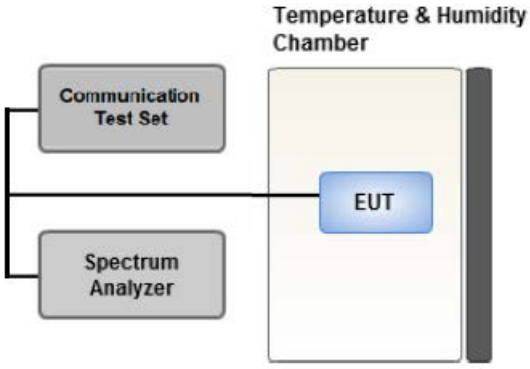
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

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

Test Settings

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

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3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 3 MHz(External(MIMO1)), 15 MHz(Internal(BUA))
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data. Please refer to the table below.
- LTE BAND 25 (1850 – 1915 MHz) overlaps the entire frequency range of LTE BAND 2 (1850 - 1910 MHz) and they have the same Tune-up power.
  Therefore, test data provided in this report covers BAND 2 as well as BAND 25.
- All modes of operation were investigated and the worst case configuration results are reported.
- MIMO3 and MIMO4 have three types of Rx antennas. Operating modes were investigated for all Rx antennas, and the worst-case configuration results were reported.
  (Worst-case: HKL antenna(Maximum gain: 5dBi))

[External(MIMO1) Worst case]

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

[Internal(BUA) Worst case]

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

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3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- LTE BAND 25 (1850 – 1915 MHz) overlaps the entire frequency range of LTE BAND 2 (1850 - 1910 MHz) and they have the same Tune-up power.
  Therefore, test data provided in this report covers BAND 2 as well as BAND 25.
- Both 85% and 115% conditions were measured for the Frequency Stability test, and results for the worst-case configuration (85%) were reported.
- In accordance with the customer's specification of 3.7V as the lowest operating voltage, testing was performed at 3.7V instead of 85% (3.57V).

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0
Band 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	Low	1	0
			High	1	49
		15	Low	1	0
			High	1	74
		20	Low	1	0
			High	1	99
		1.4, 3, 5, 10, 15, 20	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	1.4, 3, 5, 10, 15, 20	Low, Mid, High	1	0

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4. LIST OF TEST EQUIPMENT

[Radiated]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	03/12/2026	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	03/12/2026	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	03/12/2026	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	03/12/2026	Annual
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/ 48920320/P	N/A	-
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	-
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
HIGHPASS FILTER	WHKX10-900-1000-15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
LOW NOISE AMPLIFIER	310N	SONOMA Instrument	186169	02/05/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	10/11/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial

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Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

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[Conducted]

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

Note:

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

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5. MEASUREMENT UNCERTAINTY

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

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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

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

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6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 24.238(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	Note[1]
Peak- to- Average Ratio	§ 24.232(d)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 24.235	Emission must remain in band	PASS

Note:

1. Refer to the SAR report.

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 24.232(c)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 24.238(a)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

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7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

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7.3. Emission Designator

GSM Emission Designator

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

EDGE Emission Designator

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

WCDMA Emission Designator

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

QPSK Modulation

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

QAM Modulation

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

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8. TEST DATA (MIMO1)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1850.7	LTE B25/2 1.4 MHz	QPSK	86.11	27.70	3.93	117.74	H	< 2.00	0.180	22.54	1	0
		16-QAM	85.31	27.70	3.93	116.94	H		0.149	21.74		
		64-QAM	84.24	27.70	3.93	115.87	H		0.117	20.67		
		256-QAM	81.16	27.70	3.93	112.79	H		0.057	17.59		
1882.5		QPSK	86.17	28.00	3.94	118.11	H		0.195	22.91	1	0
		16-QAM	85.35	28.00	3.94	117.29	H		0.162	22.09		
		64-QAM	84.30	28.00	3.94	116.24	H		0.127	21.04		
		256-QAM	81.19	28.00	3.94	113.13	H		0.062	17.93		
1914.3		QPSK	85.50	28.00	3.99	117.49	H		0.169	22.29	1	5
		16-QAM	84.69	28.00	3.99	116.68	H		0.141	21.48		
		64-QAM	83.77	28.00	3.99	115.76	H		0.114	20.56		
		256-QAM	80.57	28.00	3.99	112.56	H		0.054	17.36		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1851.5	LTE B25/2 3 MHz	QPSK	86.12	27.70	3.93	117.75	H	< 2.00	0.180	22.55	1	14
		16-QAM	85.31	27.70	3.93	116.94	H		0.149	21.74		
		64-QAM	84.30	27.70	3.93	115.93	H		0.118	20.73		
		256-QAM	81.16	27.70	3.93	112.79	H		0.057	17.59		
1882.5		QPSK	86.28	28.00	3.94	118.22	H		0.200	23.02	1	7
		16-QAM	85.19	28.00	3.94	117.13	H		0.156	21.93		
		64-QAM	84.24	28.00	3.94	116.18	H		0.125	20.98		
		256-QAM	81.06	28.00	3.94	113.00	H		0.060	17.80		
1913.5		QPSK	85.41	28.00	3.99	117.40	H		0.166	22.20	1	14
		16-QAM	84.77	28.00	3.99	116.76	H		0.143	21.56		
		64-QAM	83.61	28.00	3.99	115.60	H		0.110	20.40		
		256-QAM	80.43	28.00	3.99	112.42	H		0.053	17.22		

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Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1852.5	LTE B25/2 5 MHz	QPSK	86.37	27.70	3.93	118.00	H	< 2.00	0.191	22.80	1	0
		16-QAM	85.44	27.70	3.93	117.07	H		0.154	21.87		
		64-QAM	84.31	27.70	3.93	115.94	H		0.119	20.74		
		256-QAM	81.36	27.70	3.93	112.99	H		0.060	17.79		
1882.5		QPSK	86.28	28.00	3.94	118.22	H		0.200	23.02	1	0
		16-QAM	85.43	28.00	3.94	117.37	H		0.165	22.17		
		64-QAM	84.39	28.00	3.94	116.33	H		0.130	21.13		
		256-QAM	81.28	28.00	3.94	113.22	H		0.063	18.02		
1912.5		QPSK	85.73	28.00	3.99	117.72	H		0.179	22.52	1	12
		16-QAM	84.88	28.00	3.99	116.87	H		0.147	21.67		
		64-QAM	83.76	28.00	3.99	115.75	H		0.113	20.55		
		256-QAM	80.52	28.00	3.99	112.51	H		0.054	17.31		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1855.0	LTE B25/2 10 MHz	QPSK	86.14	27.70	3.93	117.77	H	< 2.00	0.181	22.57	1	24
		16-QAM	85.33	27.70	3.93	116.96	H		0.150	21.76		
		64-QAM	84.58	27.70	3.93	116.21	H		0.126	21.01		
		256-QAM	81.42	27.70	3.93	113.05	H		0.061	17.85		
1882.5		QPSK	86.13	28.00	3.94	118.07	H		0.194	22.87	1	0
		16-QAM	85.31	28.00	3.94	117.25	H		0.160	22.05		
		64-QAM	84.26	28.00	3.94	116.20	H		0.126	21.00		
		256-QAM	81.22	28.00	3.94	113.16	H		0.063	17.96		
1910.0		QPSK	85.57	28.00	3.99	117.56	H		0.172	22.36	1	0
		16-QAM	84.69	28.00	3.99	116.68	H		0.141	21.48		
		64-QAM	83.52	28.00	3.99	115.51	H		0.107	20.31		
		256-QAM	80.64	28.00	3.99	112.63	H		0.055	17.43		

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Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1857.5	LTE B25/2 15 MHz	QPSK	86.49	27.70	3.93	118.12	H	< 2.00	0.196	22.92	1	37
		16-QAM	85.91	27.70	3.93	117.54	H		0.172	22.34		
		64-QAM	84.95	27.70	3.93	116.58	H		0.138	21.38		
		256-QAM	81.94	27.70	3.93	113.57	H		0.069	18.37		
1882.5		QPSK	86.12	28.00	3.94	118.06	H		0.193	22.86	1	0
		16-QAM	85.17	28.00	3.94	117.11	H		0.155	21.91		
		64-QAM	83.98	28.00	3.94	115.92	H		0.118	20.72		
		256-QAM	81.58	28.00	3.94	113.52	H		0.068	18.32		
1907.5		QPSK	85.16	28.00	3.99	117.15	H		0.157	21.95	1	37
		16-QAM	84.24	28.00	3.99	116.23	H		0.127	21.03		
		64-QAM	83.04	28.00	3.99	115.03	H		0.096	19.83		
		256-QAM	80.34	28.00	3.99	112.33	H		0.052	17.13		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1860.0	LTE B25/2 20 MHz	QPSK	85.97	27.70	3.93	117.60	H	< 2.00	0.174	22.40	1	0
		16-QAM	84.79	27.70	3.93	116.42	H		0.133	21.22		
		64-QAM	83.81	27.70	3.93	115.44	H		0.106	20.24		
		256-QAM	80.99	27.70	3.93	112.62	H		0.055	17.42		
1882.5		QPSK	86.05	28.00	3.94	117.99	H		0.190	22.79	1	0
		16-QAM	84.94	28.00	3.94	116.88	H		0.147	21.68		
		64-QAM	83.88	28.00	3.94	115.82	H		0.115	20.62		
		256-QAM	81.46	28.00	3.94	113.40	H		0.066	18.20		
1905.0		QPSK	85.42	28.00	3.99	117.41	H		0.166	22.21	1	49
		16-QAM	84.28	28.00	3.99	116.27	H		0.128	21.07		
		64-QAM	83.48	28.00	3.99	115.47	H		0.106	20.27		
		256-QAM	80.65	28.00	3.99	112.64	H		0.055	17.44		

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8.2 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B25/2

▣ MODULATION SIGNAL: 3 MHz QPSK

▣ DISTANCE: 3 meters

▣ LIMIT: -13 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
26055 (1851.5)	3 703.00	-54.25	11.82	-61.75	3.08	H	-53.01	1	7
	5 554.50	-55.38	12.07	-57.04	3.88	V	-48.85		
	7 406.00	-55.71	11.07	-51.64	4.57	V	-45.14		
	9 257.50	-55.69	11.28	-44.72	5.20	V	-38.64		
	11 109.00	-54.61	12.32	-48.18	5.86	H	-41.72		
26365 (1882.5)	3 765.00	-54.49	11.59	-60.96	3.11	H	-52.48	1	0
	5 647.50	-54.40	12.01	-55.60	3.96	H	-47.55		
	7 530.00	-55.37	11.50	-51.63	4.60	H	-44.73		
	9 412.50	-55.46	11.28	-45.67	5.25	H	-39.64		
	11 295.00	-55.01	12.26	-47.74	5.83	H	-41.31		
26675 (1913.5)	3 827.00	-53.26	11.30	-59.46	3.18	V	-51.34	1	7
	5 740.50	-52.12	11.76	-52.74	3.99	V	-44.97		
	7 654.00	-54.35	11.56	-50.34	4.69	V	-43.47		
	9 567.50	-55.96	11.36	-47.11	5.32	V	-41.07		
	11 481.00	-55.00	12.40	-47.82	5.99	V	-41.41		

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8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
25(2)	1.4 MHz	1882.5	QPSK	6	0	5.77
			16-QAM			6.42
			64-QAM			6.78
			256-QAM			6.36
	3 MHz		QPSK	15		5.76
			16-QAM			6.35
			64-QAM			6.55
			256-QAM			6.52
	5 MHz		QPSK	25		5.70
			16-QAM			6.42
			64-QAM			6.53
			256-QAM			6.47
	10 MHz		QPSK	50		5.86
			16-QAM			6.43
			64-QAM			6.59
			256-QAM			6.44
	15 MHz		QPSK	75		5.76
			16-QAM			6.39
			64-QAM			6.62
			256-QAM			6.46
	20 MHz		QPSK	100		5.70
			16-QAM			6.43
			64-QAM			6.59
			256-QAM			6.54

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 58 ~ 81.

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8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
25(2)	1.4 MHz	1882.5	QPSK	6	0	1.0933
			16-QAM			1.0896
			64-QAM			1.0922
			256-QAM			1.0909
	3 MHz		QPSK	15		2.6993
			16-QAM			2.6894
			64-QAM			2.6950
			256-QAM			2.6960
	5 MHz		QPSK	25		4.5042
			16-QAM			4.4790
			64-QAM			4.4982
			256-QAM			4.4990
	10 MHz		QPSK	50		8.9764
			16-QAM			8.9925
			64-QAM			8.9880
			256-QAM			9.0008
	15 MHz		QPSK	75		13.448
			16-QAM			13.455
			64-QAM			13.441
			256-QAM			13.442
	20 MHz		QPSK	100		17.972
			16-QAM			17.921
			64-QAM			17.944
			256-QAM			17.940

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 82 ~ 105.

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8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
25(2)	1.4	1850.7	4.9352	29.320	-65.810	-36.490	-13.00
		1882.5	6.9193	29.910	-66.452	-36.542	
		1914.3	8.2652	29.910	-66.831	-36.921	
	3	1851.5	4.0479	29.320	-65.832	-36.512	
		1882.5	8.5743	29.910	-65.957	-36.047	
		1913.5	8.8335	29.910	-65.862	-35.952	
	5	1852.5	5.1945	29.910	-66.677	-36.767	
		1882.5	8.8634	29.910	-66.429	-36.519	
		1912.5	4.8754	29.320	-65.805	-36.485	
	10	1855.0	6.0220	29.910	-65.067	-35.157	
		1882.5	4.0080	29.320	-66.990	-37.670	
		1910.0	9.7508	29.910	-65.037	-35.127	
	15	1857.5	4.9751	29.320	-66.239	-36.919	
		1882.5	4.9053	29.320	-66.620	-37.300	
		1907.5	3.8186	29.320	-65.833	-36.513	
	20	1860.0	4.9253	29.320	-66.841	-37.521	
		1882.5	4.9452	29.320	-64.900	-35.580	
		1905.0	3.7987	29.320	-65.845	-36.525	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 106 ~ 141.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.250
1 – 5	29.320
5 – 10	29.910
10 – 15	30.530
15 – 20	31.840
Above 20(26.5)	32.520

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 142 ~ 177.

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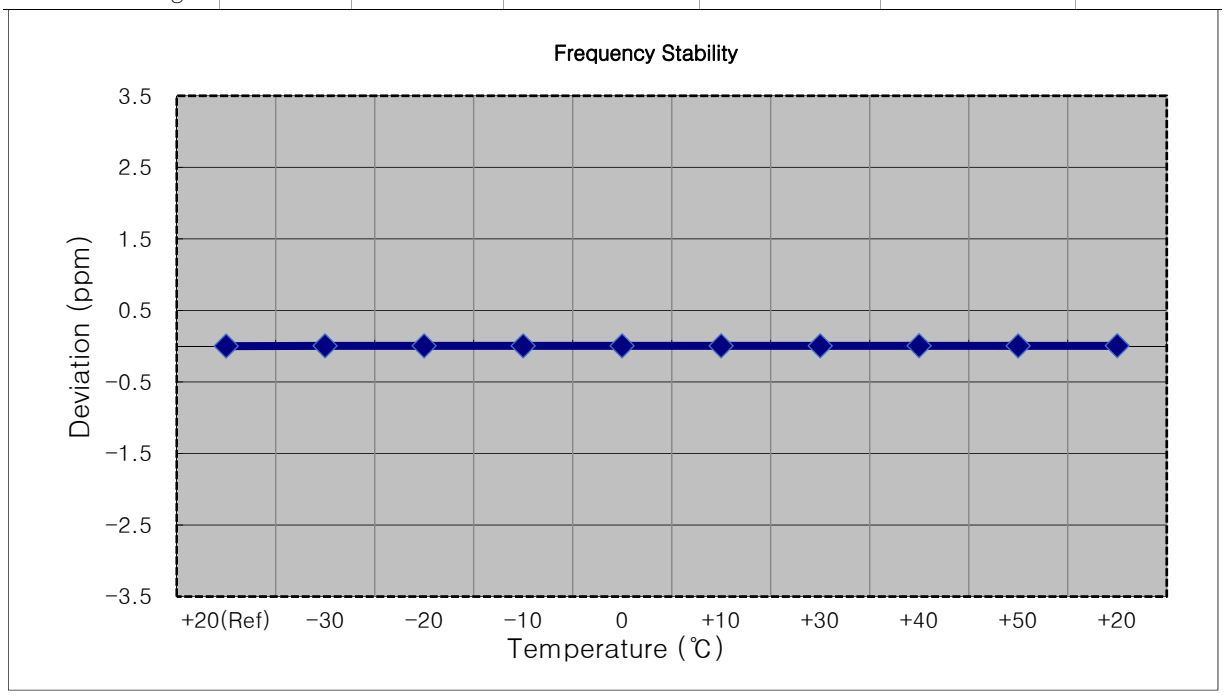
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1850,700,000 Hz
- ▣ CHANNEL: 26047 (1.4 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

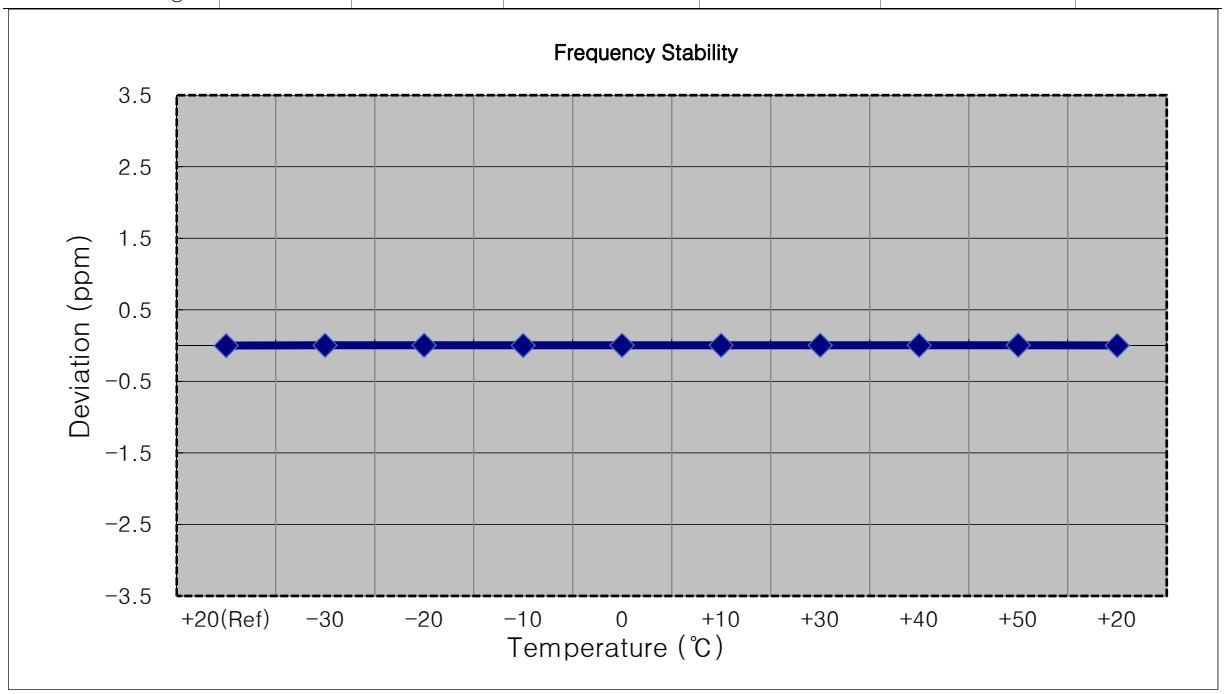
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1850 700 010	0.0	0.000 000	0.000
100 %		-30	1850 700 017	7.4	0.000 000	0.004
100 %		-20	1850 700 016	5.8	0.000 000	0.003
100 %		-10	1850 700 014	4.5	0.000 000	0.002
100 %		0	1850 700 016	5.8	0.000 000	0.003
100 %		+10	1850 700 015	4.9	0.000 000	0.003
100 %		+30	1850 700 015	5.7	0.000 000	0.003
100 %		+40	1850 700 018	8.7	0.000 000	0.005
100 %		+50	1850 700 014	4.1	0.000 000	0.002
Lowest voltage	3.700	+20	1850 700 019	9.4	0.000 001	0.005



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

- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1851,500,000 Hz
- ▣ CHANNEL: 26055 (3 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1851 500 008	0.0	0.000 000	0.000
100 %		-30	1851 500 017	9.2	0.000 000	0.005
100 %		-20	1851 500 015	7.3	0.000 000	0.004
100 %		-10	1851 500 013	4.7	0.000 000	0.003
100 %		0	1851 500 017	8.8	0.000 000	0.005
100 %		+10	1851 500 014	6.1	0.000 000	0.003
100 %		+30	1851 500 013	5.3	0.000 000	0.003
100 %		+40	1851 500 014	5.9	0.000 000	0.003
100 %		+50	1851 500 017	9.6	0.000 001	0.005
Lowest voltage	3.700	+20	1851 500 013	4.8	0.000 000	0.003



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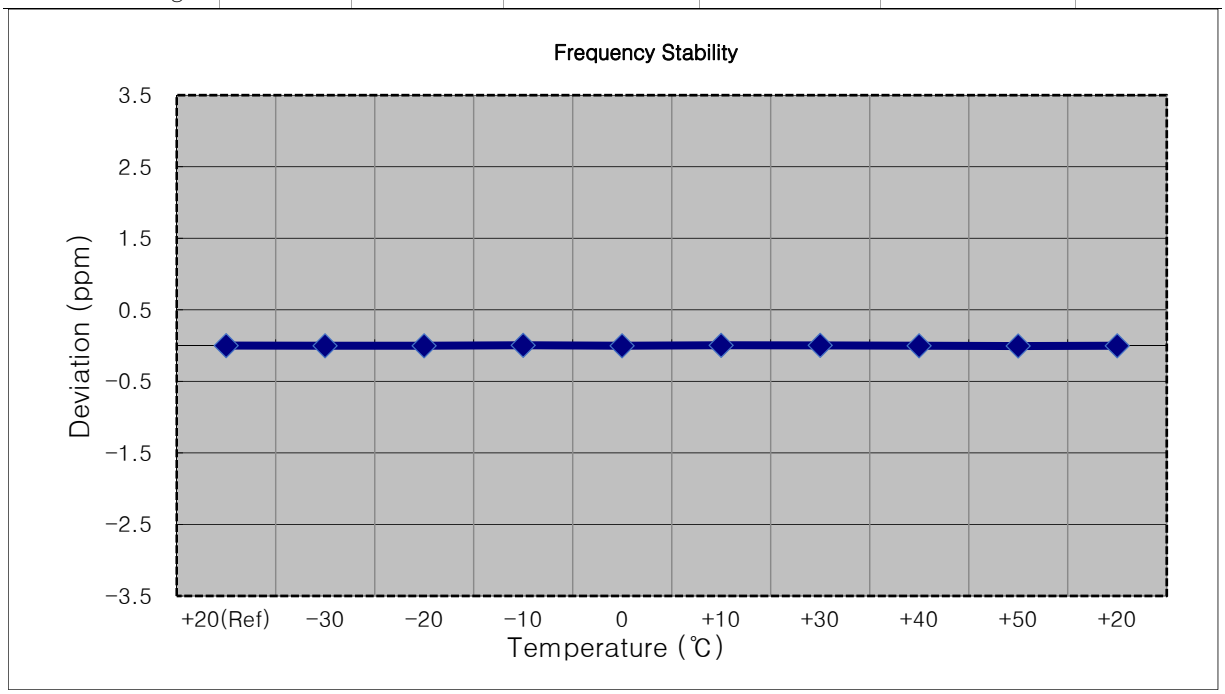
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1852,500,000 Hz
- ▣ CHANNEL: 26065 (5 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1852 500 006	0.0	0.000 000	0.000
100 %		-30	1852 500 001	-4.6	0.000 000	-0.002
100 %		-20	1852 500 001	-4.5	0.000 000	-0.002
100 %		-10	1852 500 011	5.3	0.000 000	0.003
100 %		0	1852 500 002	-3.8	0.000 000	-0.002
100 %		+10	1852 500 012	6.4	0.000 000	0.003
100 %		+30	1852 500 013	6.8	0.000 000	0.004
100 %		+40	1852 500 000	-5.3	0.000 000	-0.003
100 %		+50	1852 499 996	-9.9	-0.000 001	-0.005
Lowest voltage	3.700	+20	1852 500 000	-5.6	0.000 000	-0.003



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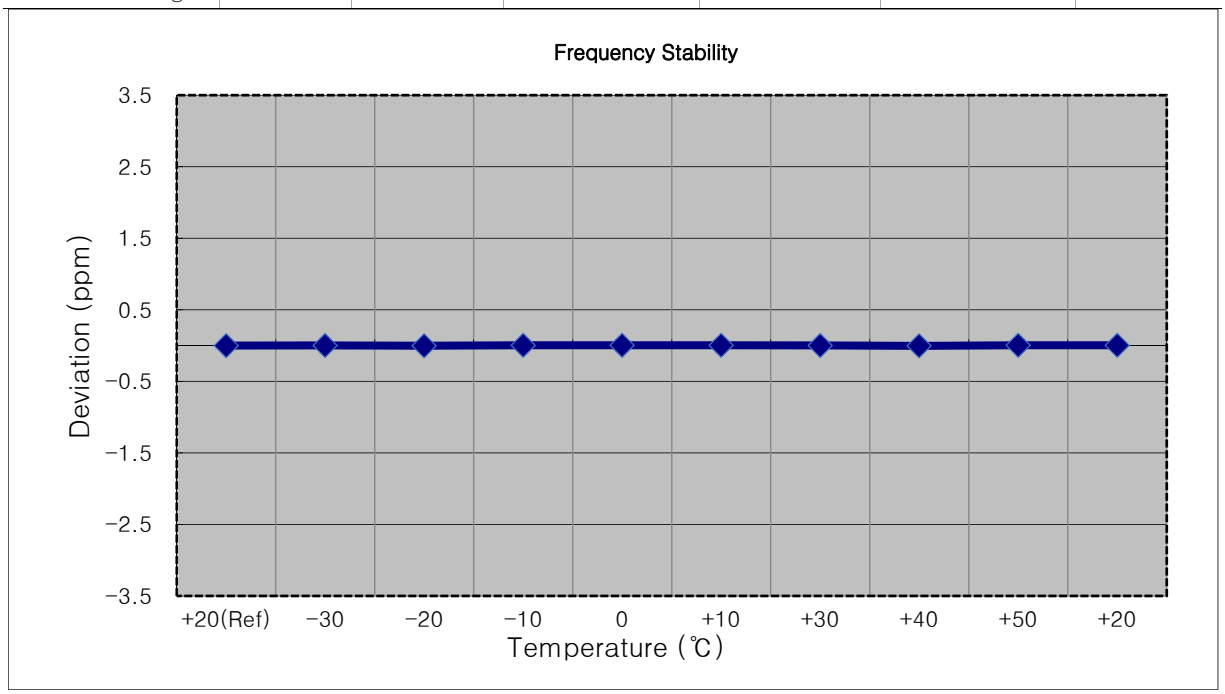
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1855,000,000 Hz
- ▣ CHANNEL: 26090 (10 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1854 999 995	0.0	0.000 000	0.000
100 %		-30	1855 000 000	5.1	0.000 000	0.003
100 %		-20	1854 999 989	-5.1	0.000 000	-0.003
100 %		-10	1855 000 004	9.4	0.000 001	0.005
100 %		0	1855 000 002	7.2	0.000 000	0.004
100 %		+10	1855 000 003	8.4	0.000 000	0.005
100 %		+30	1854 999 999	4.4	0.000 000	0.002
100 %		+40	1854 999 989	-5.5	0.000 000	-0.003
100 %		+50	1855 000 001	6.4	0.000 000	0.003
Lowest voltage	3.700	+20	1855 000 001	6.7	0.000 000	0.004



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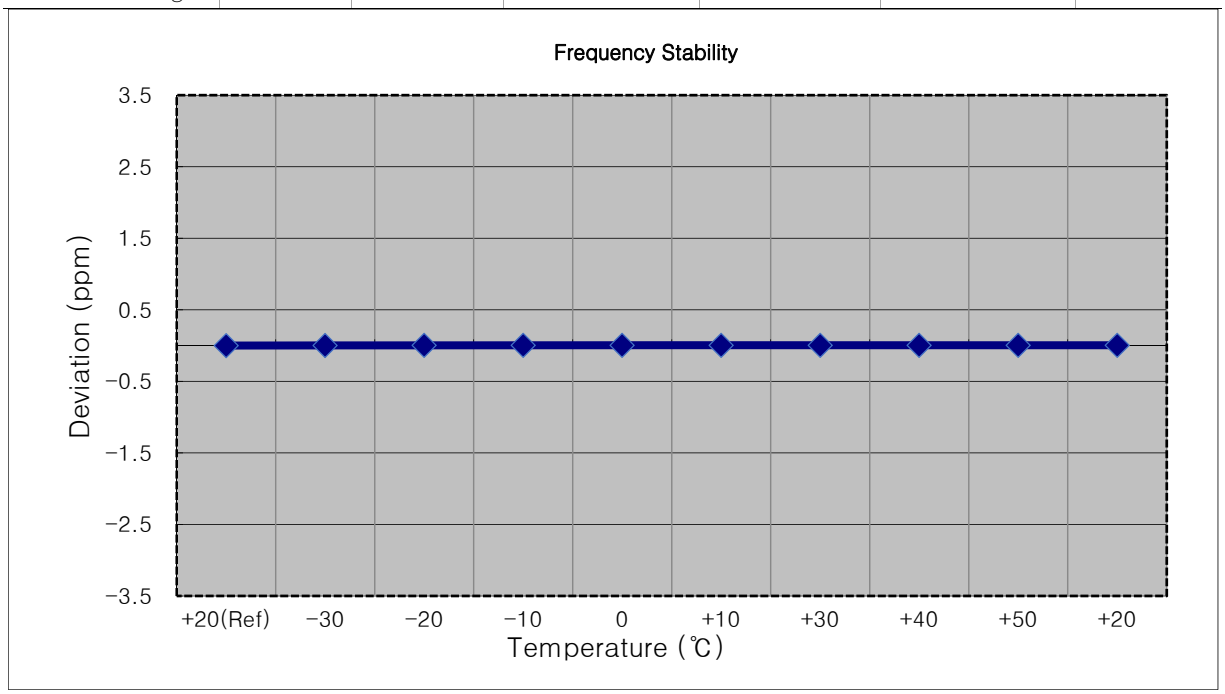
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1857,500,000 Hz
- ▣ CHANNEL: 26115 (15 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1857 500 009	0.0	0.000 000	0.000
100 %		-30	1857 500 013	4.7	0.000 000	0.003
100 %		-20	1857 500 017	8.6	0.000 000	0.005
100 %		-10	1857 500 015	6.0	0.000 000	0.003
100 %		0	1857 500 015	5.8	0.000 000	0.003
100 %		+10	1857 500 016	7.6	0.000 000	0.004
100 %		+30	1857 500 014	5.3	0.000 000	0.003
100 %		+40	1857 500 016	7.4	0.000 000	0.004
100 %		+50	1857 500 016	6.9	0.000 000	0.004
Lowest voltage	3.700	+20	1857 500 017	7.9	0.000 000	0.004



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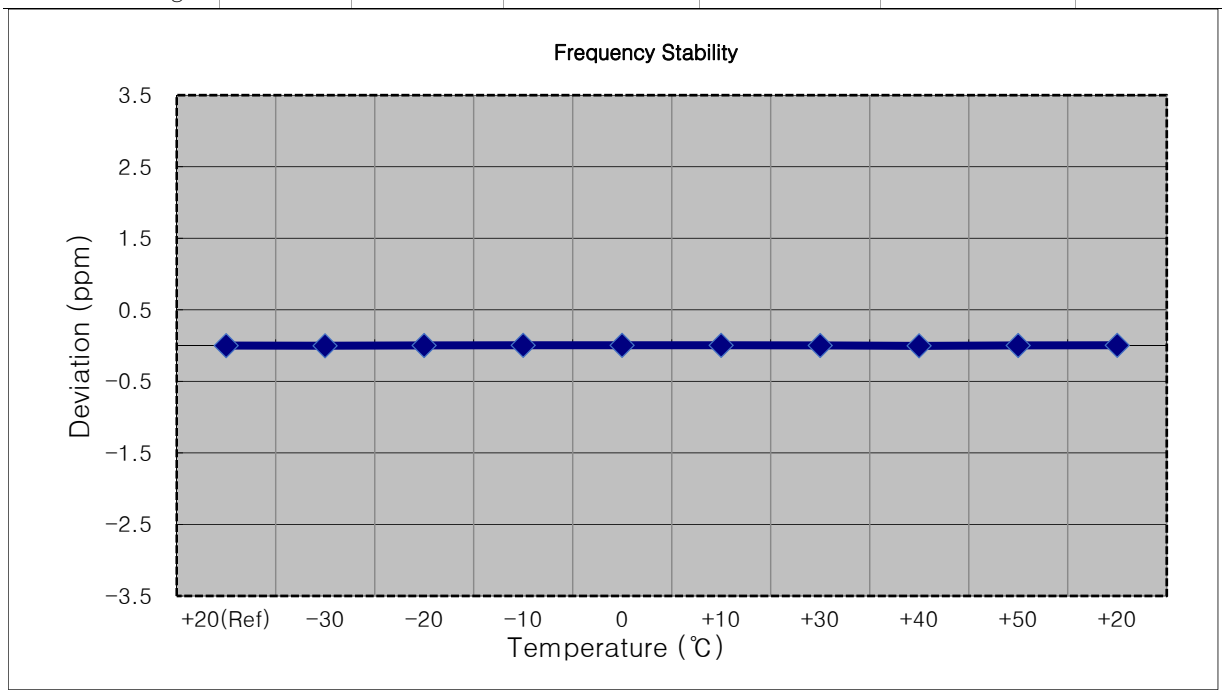
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1860,000,000 Hz
- ▣ CHANNEL: 26140 (20 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1860 000 007	0.0	0.000 000	0.000
100 %		-30	1860 000 003	-4.3	0.000 000	-0.002
100 %		-20	1860 000 012	5.0	0.000 000	0.003
100 %		-10	1860 000 015	7.6	0.000 000	0.004
100 %		0	1860 000 013	6.2	0.000 000	0.003
100 %		+10	1860 000 013	5.6	0.000 000	0.003
100 %		+30	1860 000 011	3.8	0.000 000	0.002
100 %		+40	1860 000 000	-6.7	0.000 000	-0.004
100 %		+50	1860 000 012	4.5	0.000 000	0.002
Lowest voltage	3.700	+20	1860 000 015	8.1	0.000 000	0.004



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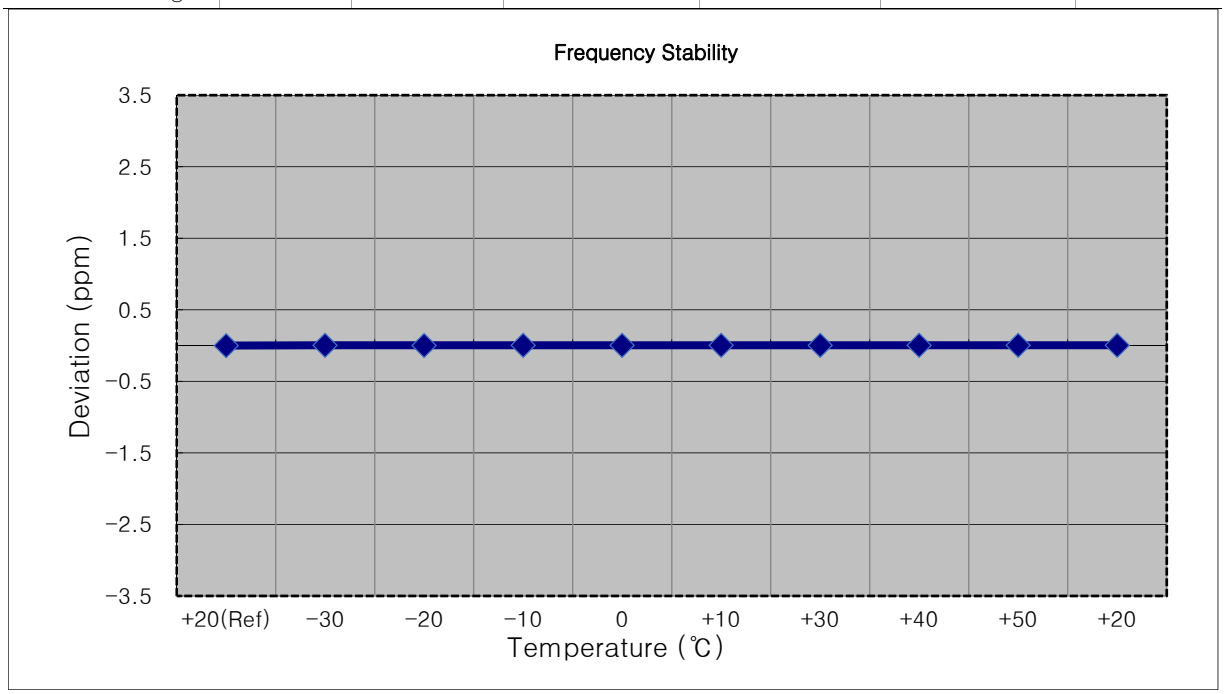
- MODE: LTE B25(2)
- OPERATING FREQUENCY: 1882,500,000 Hz
- CHANNEL: 26365 (1.4 MHz)
- REFERENCE VOLTAGE: 4.200 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 499 994	0.0	0.000 000	0.000
100 %		-30	1882 500 003	8.8	0.000 000	0.005
100 %		-20	1882 499 999	4.4	0.000 000	0.002
100 %		-10	1882 500 003	9.1	0.000 000	0.005
100 %		0	1882 500 001	7.1	0.000 000	0.004
100 %		+10	1882 500 004	9.3	0.000 000	0.005
100 %		+30	1882 500 000	5.6	0.000 000	0.003
100 %		+40	1882 500 003	9.1	0.000 000	0.005
100 %		+50	1882 500 003	8.9	0.000 000	0.005
Lowest voltage	3.700	+20	1882 500 000	5.5	0.000 000	0.003



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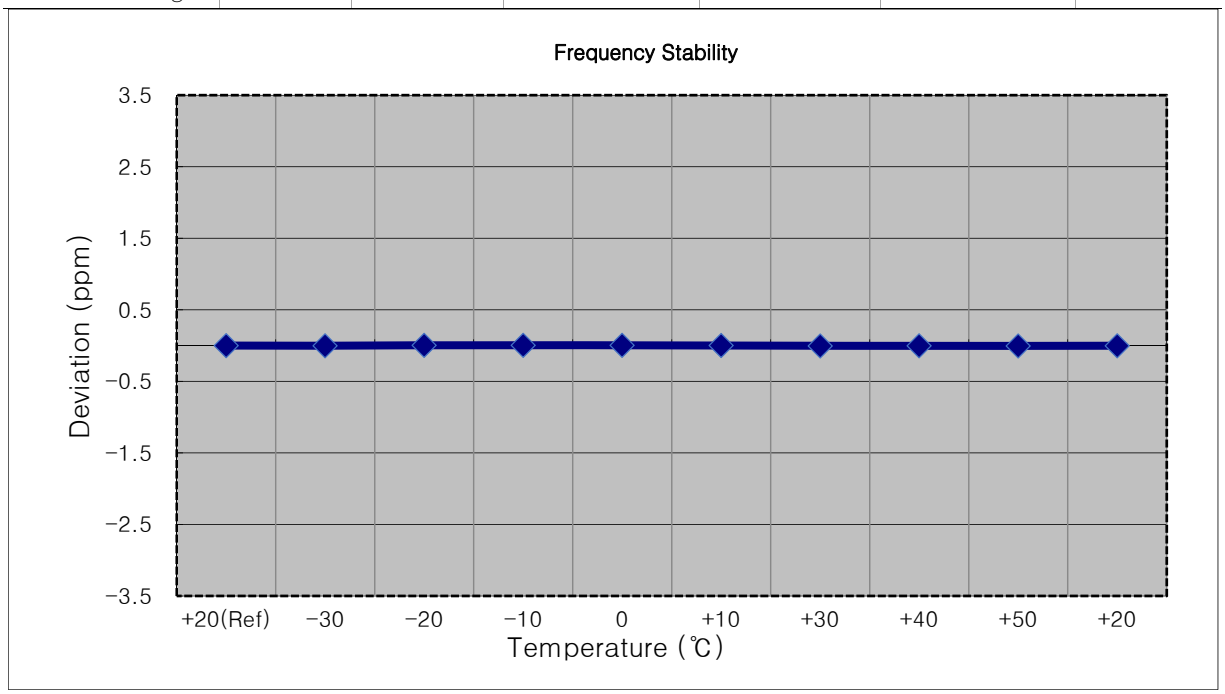
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (3 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 499 994	0.0	0.000 000	0.000
100 %		-30	1882 499 987	-7.1	0.000 000	-0.004
100 %		-20	1882 500 000	5.7	0.000 000	0.003
100 %		-10	1882 500 001	7.2	0.000 000	0.004
100 %		0	1882 500 002	7.4	0.000 000	0.004
100 %		+10	1882 499 999	5.1	0.000 000	0.003
100 %		+30	1882 499 987	-7.5	0.000 000	-0.004
100 %		+40	1882 499 988	-5.9	0.000 000	-0.003
100 %		+50	1882 499 986	-7.8	0.000 000	-0.004
Lowest voltage	3.700	+20	1882 499 988	-6.1	0.000 000	-0.003



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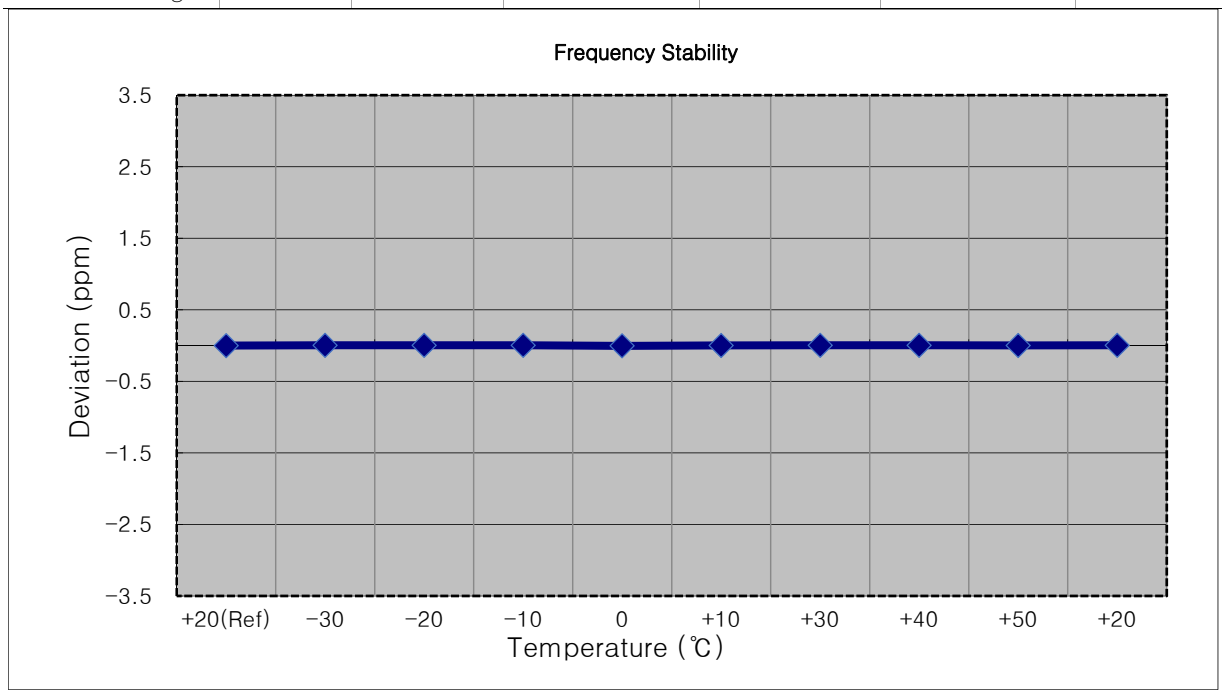
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (5 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 500 005	0.0	0.000 000	0.000
100 %		-30	1882 500 014	9.2	0.000 000	0.005
100 %		-20	1882 500 012	7.2	0.000 000	0.004
100 %		-10	1882 500 013	8.6	0.000 000	0.005
100 %		0	1882 499 998	-6.3	0.000 000	-0.003
100 %		+10	1882 500 009	4.3	0.000 000	0.002
100 %		+30	1882 500 010	5.8	0.000 000	0.003
100 %		+40	1882 500 011	6.8	0.000 000	0.004
100 %		+50	1882 500 010	5.2	0.000 000	0.003
Lowest voltage	3.700	+20	1882 500 012	7.0	0.000 000	0.004



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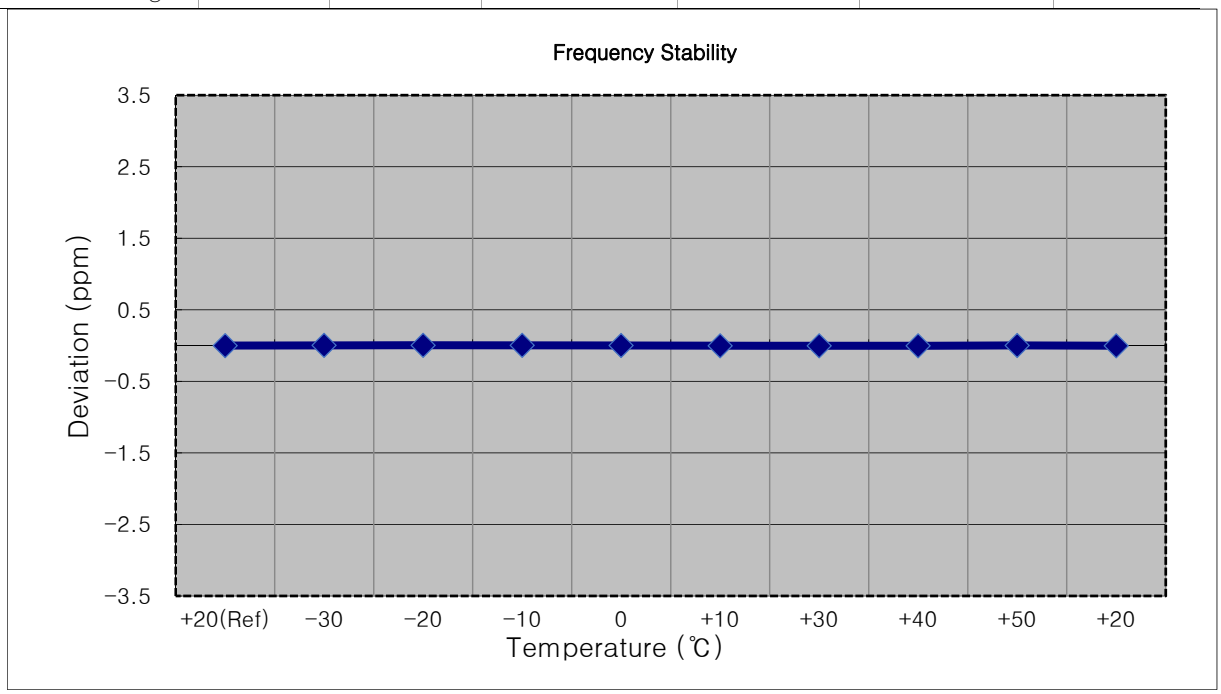
- MODE: LTE B25(2)
- OPERATING FREQUENCY: 1882,500,000 Hz
- CHANNEL: 26365 (10 MHz)
- REFERENCE VOLTAGE: 4.200 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 500 004	0.0	0.000 000	0.000
100 %		-30	1882 500 012	7.3	0.000 000	0.004
100 %		-20	1882 500 012	7.3	0.000 000	0.004
100 %		-10	1882 500 010	5.9	0.000 000	0.003
100 %		0	1882 500 009	4.7	0.000 000	0.002
100 %		+10	1882 499 999	-5.2	0.000 000	-0.003
100 %		+30	1882 499 998	-6.0	0.000 000	-0.003
100 %		+40	1882 499 998	-6.6	0.000 000	-0.004
100 %		+50	1882 500 009	4.7	0.000 000	0.002
Lowest voltage	3.700	+20	1882 500 001	-3.5	0.000 000	-0.002



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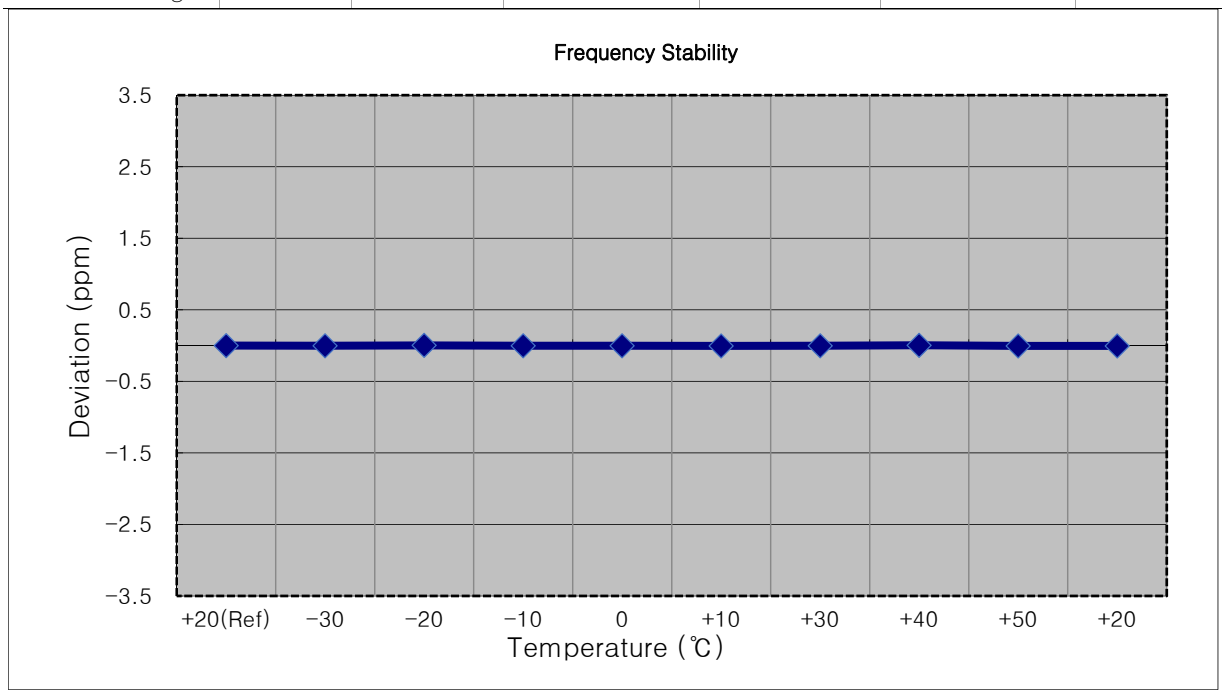
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (15 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 499 996	0.0	0.000 000	0.000
100 %		-30	1882 499 992	-4.2	0.000 000	-0.002
100 %		-20	1882 500 002	6.7	0.000 000	0.004
100 %		-10	1882 499 991	-4.5	0.000 000	-0.002
100 %		0	1882 499 990	-5.5	0.000 000	-0.003
100 %		+10	1882 499 988	-7.6	0.000 000	-0.004
100 %		+30	1882 499 991	-4.5	0.000 000	-0.002
100 %		+40	1882 500 002	5.9	0.000 000	0.003
100 %		+50	1882 499 988	-7.4	0.000 000	-0.004
Lowest voltage	3.700	+20	1882 499 988	-7.7	0.000 000	-0.004



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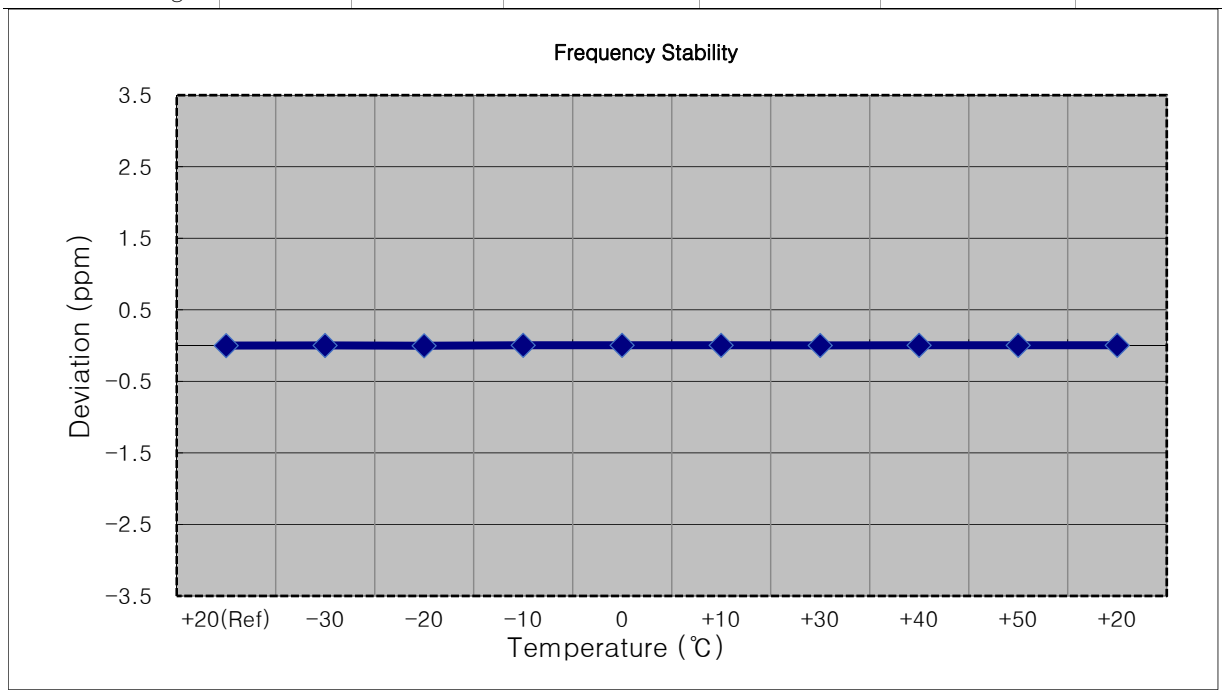
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (20 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 500 008	0.0	0.000 000	0.000
100 %		-30	1882 500 012	4.2	0.000 000	0.002
100 %		-20	1882 500 003	-5.2	0.000 000	-0.003
100 %		-10	1882 500 015	6.8	0.000 000	0.004
100 %		0	1882 500 017	8.8	0.000 000	0.005
100 %		+10	1882 500 014	6.5	0.000 000	0.003
100 %		+30	1882 500 013	4.6	0.000 000	0.002
100 %		+40	1882 500 017	9.0	0.000 000	0.005
100 %		+50	1882 500 015	7.4	0.000 000	0.004
Lowest voltage	3.700	+20	1882 500 015	7.1	0.000 000	0.004



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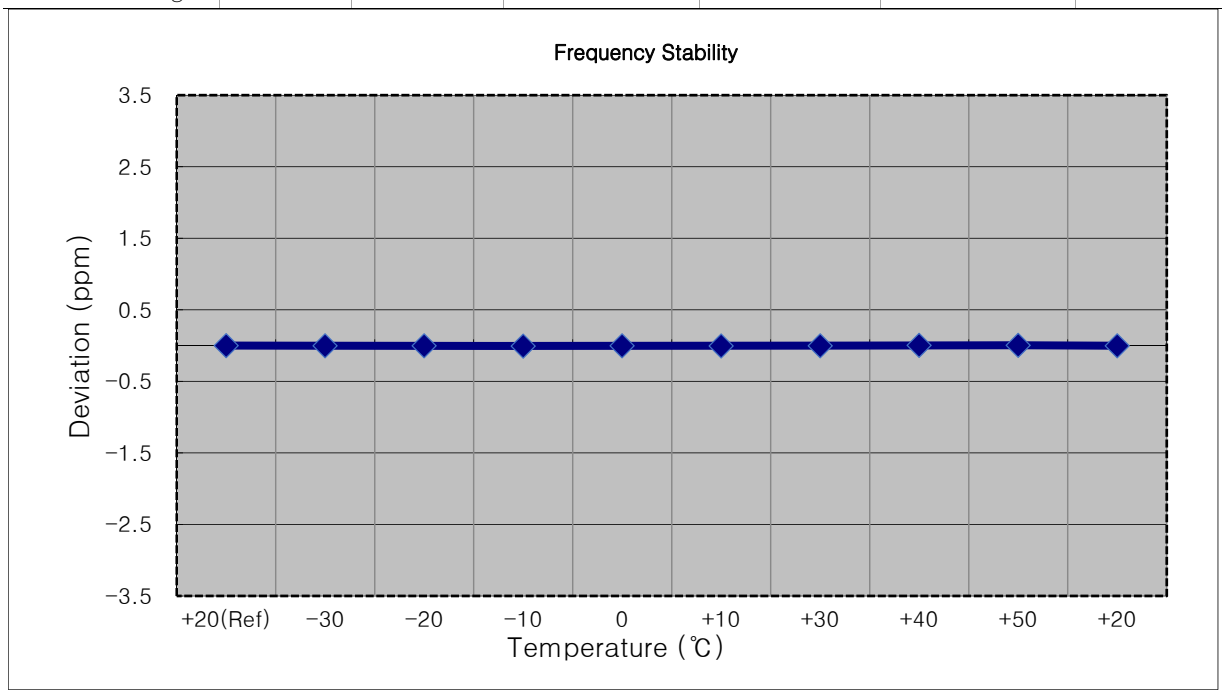
- MODE: LTE B25(2)
- OPERATING FREQUENCY: 1914,300,000 Hz
- CHANNEL: 26683 (1.4 MHz)
- REFERENCE VOLTAGE: 4.200 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1914 299 997	0.0	0.000 000	0.000
100 %		-30	1914 299 991	-5.3	0.000 000	-0.003
100 %		-20	1914 299 989	-7.4	0.000 000	-0.004
100 %		-10	1914 299 984	-12.8	-0.000 001	-0.007
100 %		0	1914 299 989	-7.4	0.000 000	-0.004
100 %		+10	1914 299 985	-11.4	-0.000 001	-0.006
100 %		+30	1914 299 990	-6.4	0.000 000	-0.003
100 %		+40	1914 300 004	7.5	0.000 000	0.004
100 %		+50	1914 300 005	8.3	0.000 000	0.004
Lowest voltage	3.700	+20	1914 299 990	-6.1	0.000 000	-0.003



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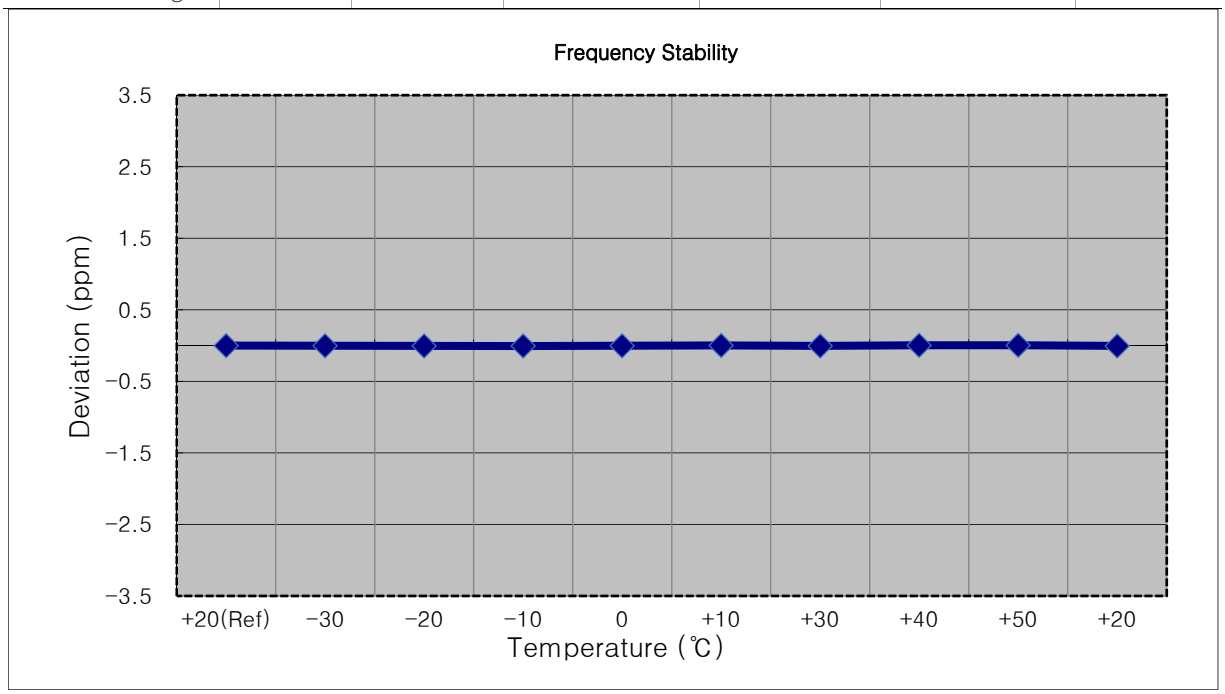
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1913,500,000 Hz
- ▣ CHANNEL: 26675 (3 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1913 500 008	0.0	0.000 000	0.000
100 %		-30	1913 500 001	-7.1	0.000 000	-0.004
100 %		-20	1913 499 999	-8.5	0.000 000	-0.004
100 %		-10	1913 499 998	-9.9	-0.000 001	-0.005
100 %		0	1913 500 003	-4.7	0.000 000	-0.002
100 %		+10	1913 500 013	5.2	0.000 000	0.003
100 %		+30	1913 499 999	-9.3	0.000 000	-0.005
100 %		+40	1913 500 017	8.8	0.000 000	0.005
100 %		+50	1913 500 015	7.2	0.000 000	0.004
Lowest voltage	3.700	+20	1913 499 999	-8.9	0.000 000	-0.005



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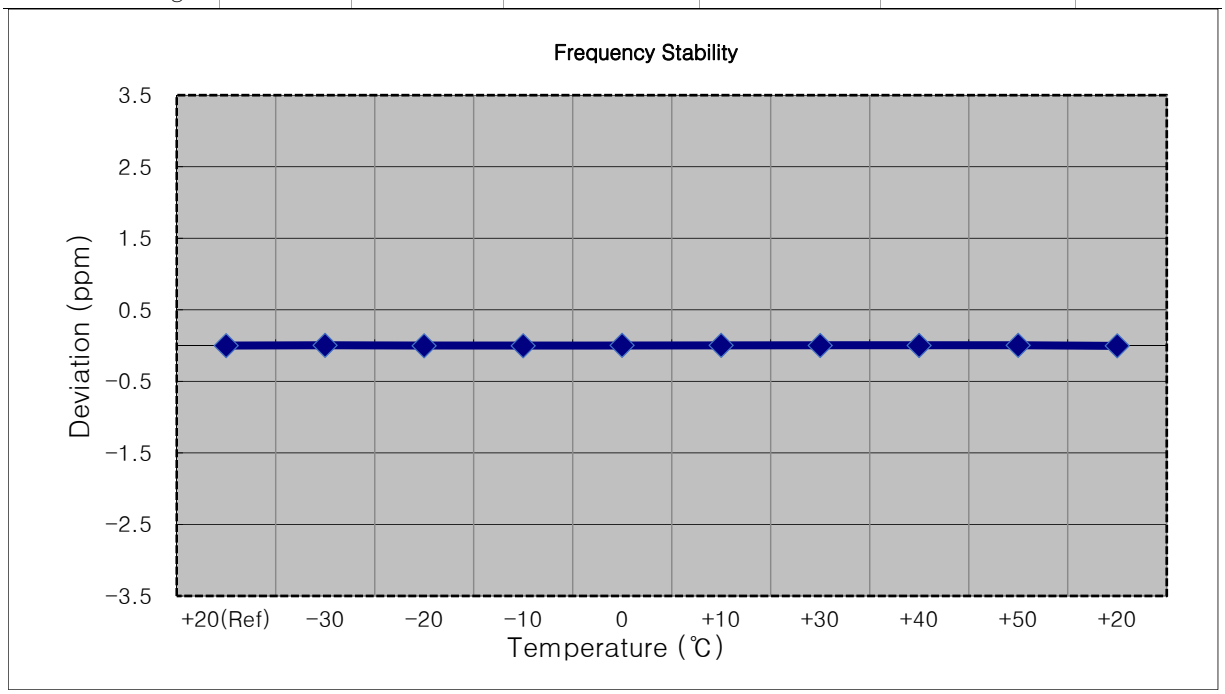
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1912,500,000 Hz
- ▣ CHANNEL: 26665 (5 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1912 499 996	0.0	0.000 000	0.000
100 %		-30	1912 500 002	5.7	0.000 000	0.003
100 %		-20	1912 499 990	-6.5	0.000 000	-0.003
100 %		-10	1912 499 990	-6.1	0.000 000	-0.003
100 %		0	1912 500 004	7.3	0.000 000	0.004
100 %		+10	1912 500 004	7.5	0.000 000	0.004
100 %		+30	1912 500 000	4.0	0.000 000	0.002
100 %		+40	1912 500 001	4.2	0.000 000	0.002
100 %		+50	1912 500 003	6.4	0.000 000	0.003
Lowest voltage	3.700	+20	1912 499 989	-7.1	0.000 000	-0.004



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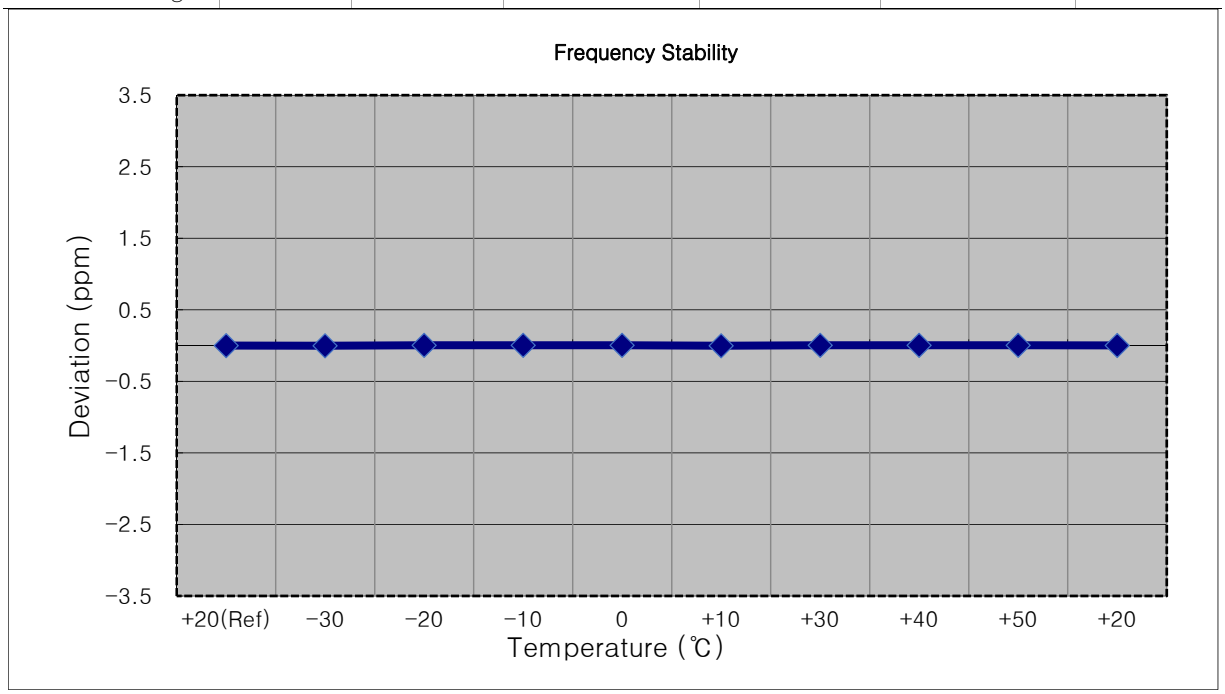
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1910,000,000 Hz
- ▣ CHANNEL: 26640 (10 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1910 000 009	0.0	0.000 000	0.000
100 %		-30	1910 000 004	-4.7	0.000 000	-0.002
100 %		-20	1910 000 015	6.3	0.000 000	0.003
100 %		-10	1910 000 015	6.4	0.000 000	0.003
100 %		0	1910 000 015	6.8	0.000 000	0.004
100 %		+10	1910 000 004	-4.6	0.000 000	-0.002
100 %		+30	1910 000 016	7.4	0.000 000	0.004
100 %		+40	1910 000 018	9.4	0.000 000	0.005
100 %		+50	1910 000 014	5.7	0.000 000	0.003
Lowest voltage	3.700	+20	1910 000 014	5.3	0.000 000	0.003



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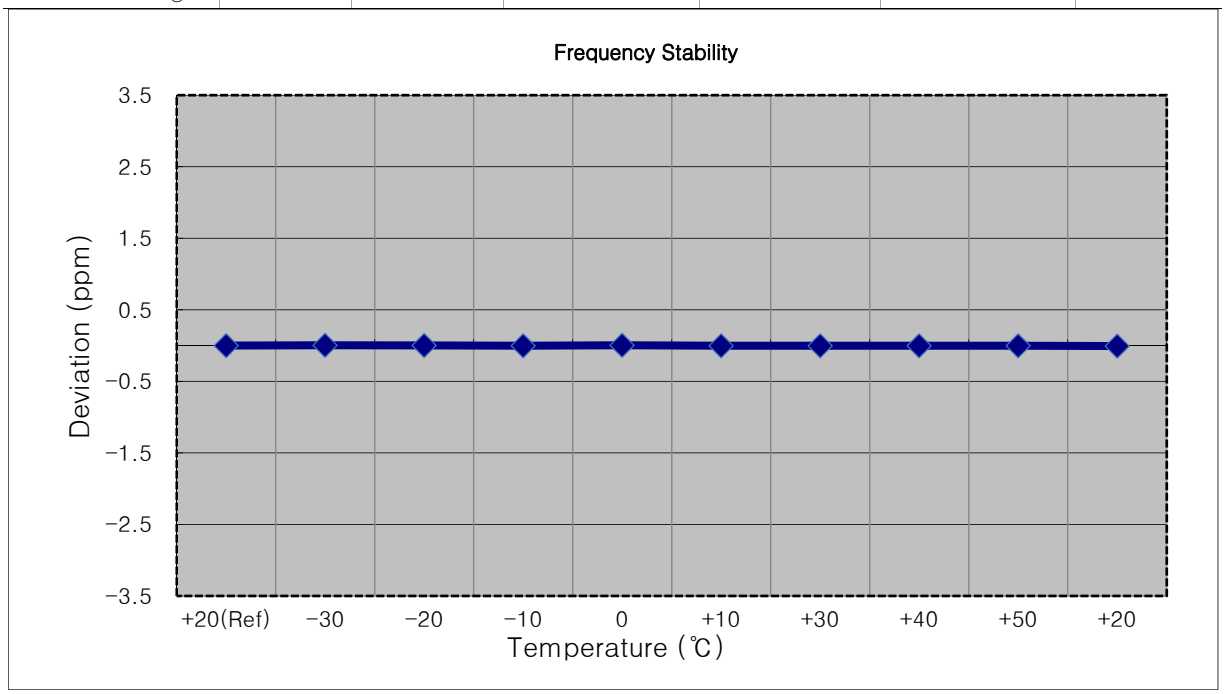
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1907,500,000 Hz
- ▣ CHANNEL: 26615 (15 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1907 500 007	0.0	0.000 000	0.000
100 %		-30	1907 500 014	7.4	0.000 000	0.004
100 %		-20	1907 500 011	4.2	0.000 000	0.002
100 %		-10	1907 500 001	-6.0	0.000 000	-0.003
100 %		0	1907 500 016	9.2	0.000 000	0.005
100 %		+10	1907 500 000	-6.8	0.000 000	-0.004
100 %		+30	1907 500 001	-6.4	0.000 000	-0.003
100 %		+40	1907 500 000	-7.3	0.000 000	-0.004
100 %		+50	1907 500 002	-4.8	0.000 000	-0.003
Lowest voltage	3.700	+20	1907 499 995	-12.0	-0.000 001	-0.006



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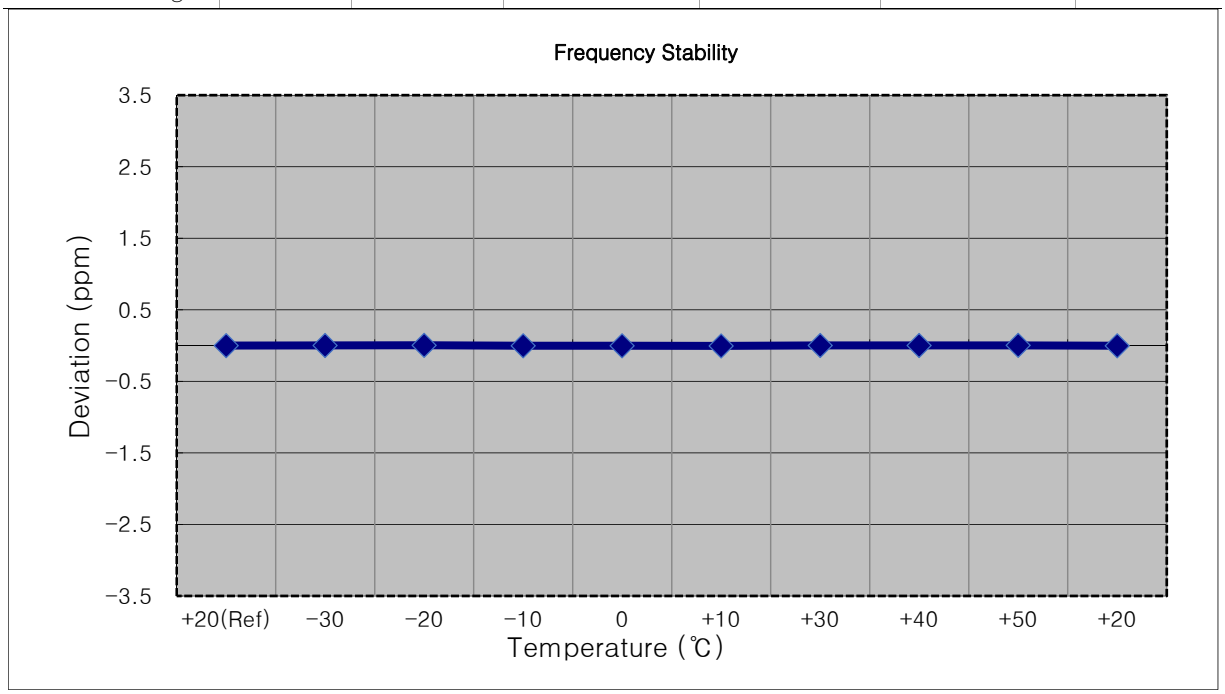
- MODE: LTE B25(2)
- OPERATING FREQUENCY: 1905,000,000 Hz
- CHANNEL: 26590 (20 MHz)
- REFERENCE VOLTAGE: 4.200 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1905 000 005	0.0	0.000 000	0.000
100 %		-30	1905 000 010	5.0	0.000 000	0.003
100 %		-20	1905 000 011	6.4	0.000 000	0.003
100 %		-10	1904 999 999	-6.0	0.000 000	-0.003
100 %		0	1905 000 000	-4.3	0.000 000	-0.002
100 %		+10	1904 999 995	-9.3	0.000 000	-0.005
100 %		+30	1905 000 010	5.2	0.000 000	0.003
100 %		+40	1905 000 009	4.6	0.000 000	0.002
100 %		+50	1905 000 011	6.7	0.000 000	0.004
Lowest voltage	3.700	+20	1904 999 999	-5.9	0.000 000	-0.003



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9. TEST DATA (Internal(BUA))

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1850.7	LTE B25(2) 1.4 MHz	QPSK	84.17	27.70	3.93	115.80	H	< 2.00	0.115	20.60	1	0
		16-QAM	83.25	27.70	3.93	114.88	H		0.093	19.68		
		64-QAM	82.35	27.70	3.93	113.98	H		0.076	18.78		
		256-QAM	79.39	27.70	3.93	111.02	H		0.038	15.82		
1882.5		QPSK	85.59	28.00	3.94	117.53	H		0.171	22.33	1	0
		16-QAM	84.62	28.00	3.94	116.56	H		0.137	21.36		
		64-QAM	83.69	28.00	3.94	115.63	H		0.110	20.43		
		256-QAM	80.90	28.00	3.94	112.84	H		0.058	17.64		
1914.3		QPSK	86.34	28.00	3.99	118.33	H		0.205	23.13	1	0
		16-QAM	84.93	28.00	3.99	116.92	H		0.149	21.72		
		64-QAM	83.97	28.00	3.99	115.96	H		0.119	20.76		
		256-QAM	81.08	28.00	3.99	113.07	H		0.061	17.87		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1851.5	LTE B25(2) 3 MHz	QPSK	83.99	27.70	3.93	115.62	H	< 2.00	0.110	20.42	1	0
		16-QAM	83.02	27.70	3.93	114.65	H		0.088	19.45		
		64-QAM	82.17	27.70	3.93	113.80	H		0.073	18.60		
		256-QAM	79.44	27.70	3.93	111.07	H		0.039	15.87		
1882.5		QPSK	85.55	28.00	3.94	117.49	H		0.169	22.29	1	0
		16-QAM	84.60	28.00	3.94	116.54	H		0.136	21.34		
		64-QAM	83.69	28.00	3.94	115.63	H		0.110	20.43		
		256-QAM	80.76	28.00	3.94	112.70	H		0.056	17.50		
1913.5		QPSK	86.82	28.00	3.99	118.81	H		0.229	23.61	1	14
		16-QAM	84.93	28.00	3.99	116.92	H		0.149	21.72		
		64-QAM	83.93	28.00	3.99	115.92	H		0.118	20.72		
		256-QAM	81.11	28.00	3.99	113.10	H		0.062	17.90		

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Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1852.5	LTE B25(2) 5 MHz	QPSK	84.05	27.70	3.93	115.68	H	< 2.00	0.112	20.48	1	24
		16-QAM	83.12	27.70	3.93	114.75	H		0.090	19.55		
		64-QAM	82.09	27.70	3.93	113.72	H		0.071	18.52		
		256-QAM	79.28	27.70	3.93	110.91	H		0.037	15.71		
1882.5		QPSK	85.78	28.00	3.94	117.72	H		0.179	22.52	1	0
		16-QAM	84.83	28.00	3.94	116.77	H		0.144	21.57		
		64-QAM	83.78	28.00	3.94	115.72	H		0.113	20.52		
		256-QAM	80.88	28.00	3.94	112.82	H		0.058	17.62		
1912.5		QPSK	86.91	28.00	3.99	118.90	H		0.234	23.70	1	24
		16-QAM	84.97	28.00	3.99	116.96	H		0.150	21.76		
		64-QAM	84.12	28.00	3.99	116.11	H		0.123	20.91		
		256-QAM	81.04	28.00	3.99	113.03	H		0.061	17.83		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1855.0	LTE B25(2) 10 MHz	QPSK	84.41	27.70	3.93	116.04	H	< 2.00	0.121	20.84	1	49
		16-QAM	83.43	27.70	3.93	115.06	H		0.097	19.86		
		64-QAM	82.53	27.70	3.93	114.16	H		0.079	18.96		
		256-QAM	79.52	27.70	3.93	111.15	H		0.039	15.95		
1882.5		QPSK	85.52	28.00	3.94	117.46	H		0.168	22.26	1	24
		16-QAM	84.53	28.00	3.94	116.47	H		0.134	21.27		
		64-QAM	83.72	28.00	3.94	115.66	H		0.111	20.46		
		256-QAM	80.65	28.00	3.94	112.59	H		0.055	17.39		
1910.0		QPSK	87.02	28.00	3.99	119.01	H		0.240	23.81	1	49
		16-QAM	85.13	28.00	3.99	117.12	H		0.156	21.92		
		64-QAM	84.19	28.00	3.99	116.18	H		0.125	20.98		
		256-QAM	81.46	28.00	3.99	113.45	H		0.067	18.25		

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Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1857.5	LTE B25(2) 15 MHz	QPSK	84.79	27.70	3.93	116.42	H	< 2.00	0.133	21.22	1	74
		16-QAM	83.86	27.70	3.93	115.49	H		0.107	20.29		
		64-QAM	82.87	27.70	3.93	114.50	H		0.085	19.30		
		256-QAM	80.02	27.70	3.93	111.65	H		0.044	16.45		
1882.5		QPSK	85.42	28.00	3.94	117.36	H		0.164	22.16	1	37
		16-QAM	84.43	28.00	3.94	116.37	H		0.131	21.17		
		64-QAM	83.62	28.00	3.94	115.56	H		0.109	20.36		
		256-QAM	80.61	28.00	3.94	112.55	H		0.054	17.35		
1907.5		QPSK	87.24	28.00	3.99	119.23	H		0.253	24.03	1	74
		16-QAM	85.18	28.00	3.99	117.16	H		0.157	21.96		
		64-QAM	84.25	28.00	3.99	116.23	H		0.127	21.03		
		256-QAM	81.54	28.00	3.99	113.52	H		0.068	18.32		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L + Thru(dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1860.0	LTE B25(2) 20 MHz	QPSK	84.89	27.70	3.93	116.52	H	< 2.00	0.136	21.32	1	99
		16-QAM	83.95	27.70	3.93	115.58	H		0.109	20.38		
		64-QAM	83.03	27.70	3.93	114.66	H		0.088	19.46		
		256-QAM	80.06	27.70	3.93	111.69	H		0.045	16.49		
1882.5		QPSK	86.40	28.00	3.94	118.34	H		0.206	23.14	1	49
		16-QAM	84.55	28.00	3.94	116.49	H		0.135	21.29		
		64-QAM	83.57	28.00	3.94	115.51	H		0.107	20.31		
		256-QAM	80.67	28.00	3.94	112.61	H		0.055	17.41		
1905.0		QPSK	85.38	28.00	3.99	117.37	H		0.165	22.17	1	99
		16-QAM	84.47	28.00	3.99	116.46	H		0.134	21.26		
		64-QAM	83.40	28.00	3.99	115.39	H		0.104	20.19		
		256-QAM	80.87	28.00	3.99	112.86	H		0.058	17.66		

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9.2 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B25(2)

▣ MODULATION SIGNAL: 15 MHz QPSK

▣ DISTANCE: 3 meters

▣ LIMIT: -13 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
26115 (1857.5)	3 715.00	-54.40	11.78	-61.71	3.11	V	-53.04	1	74
	5 572.50	-54.79	12.08	-56.34	3.89	H	-48.15		
	7 430.00	-55.75	11.18	-51.81	4.56	H	-45.19		
	9 287.50	-56.07	11.27	-44.99	5.32	V	-39.04		
	11 145.00	-53.50	12.33	-46.96	5.80	V	-40.43		
26365 (1882.5)	3 765.00	-53.47	11.59	-59.94	3.11	H	-51.46	1	37
	5 647.50	-55.74	12.01	-56.94	3.96	V	-48.89		
	7 530.00	-55.28	11.50	-51.54	4.60	H	-44.64		
	9 412.50	-55.96	11.28	-46.17	5.25	V	-40.14		
	11 295.00	-55.43	12.26	-48.16	5.83	H	-41.73		
26615 (1907.5)	3 815.00	-54.11	11.34	-60.41	3.20	H	-52.27	1	74
	5 722.50	-54.49	11.82	-55.28	4.00	V	-47.46		
	7 630.00	-54.79	11.56	-50.83	4.66	V	-43.93		
	9 537.50	-55.03	11.31	-45.76	5.27	V	-39.72		
	11 445.00	-55.45	12.32	-48.06	5.85	V	-41.59		

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10. TEST PLOTS

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LTE B25_1.4M_PAR_Mid_QPSK_FullRB

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LTE B25_1.4M_PAR_Mid_16QAM_FullRB

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LTE B25_1.4M_PAR_Mid_64QAM_FullRB

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

LTE B25_1.4M_PAR_Mid_256QAM_FullRB

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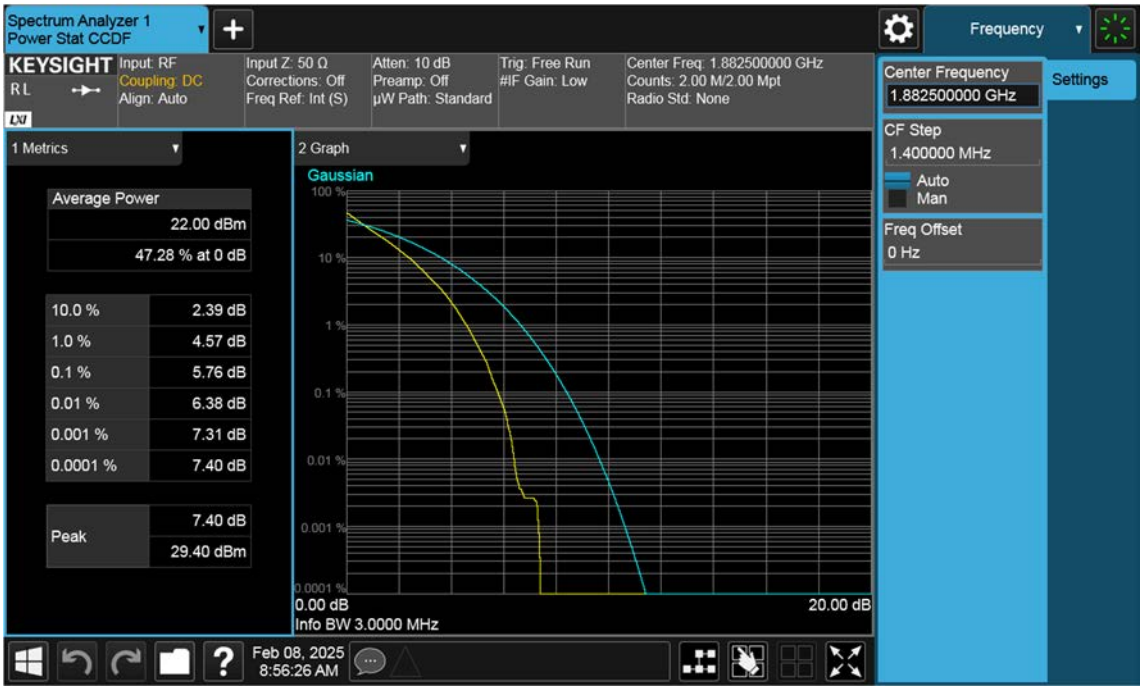
LTE B25_3 M_PAR_Mid_QPSK_FullRB



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LTE B25_3 M_PAR_Mid_16QAM_FullRB

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LTE B25_3 M_PAR_Mid_64QAM_FullRB

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LTE B25_3 M_PAR_Mid_256QAM_FullRB

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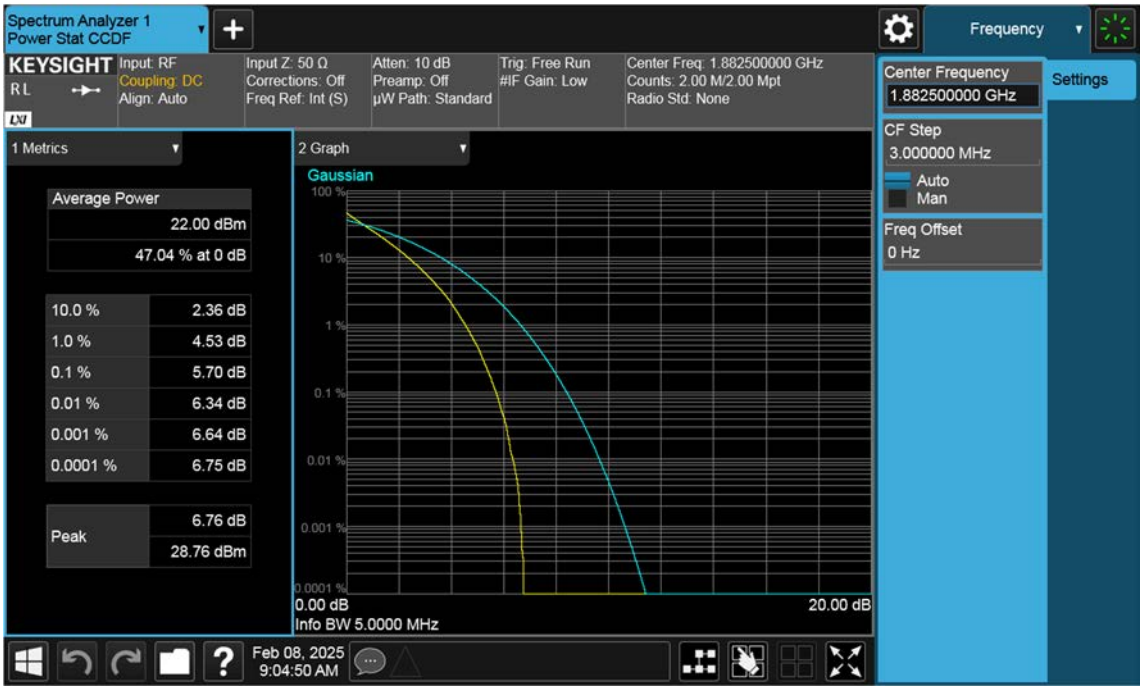
LTE B25_5 M_PAR_Mid_QPSK_FullRB



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LTE B25_5 M_PAR_Mid_16QAM_FullRB

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LTE B25_5 M_PAR_Mid_64QAM_FullRB

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LTE B25_5 M_PAR_Mid_256QAM_FullRB

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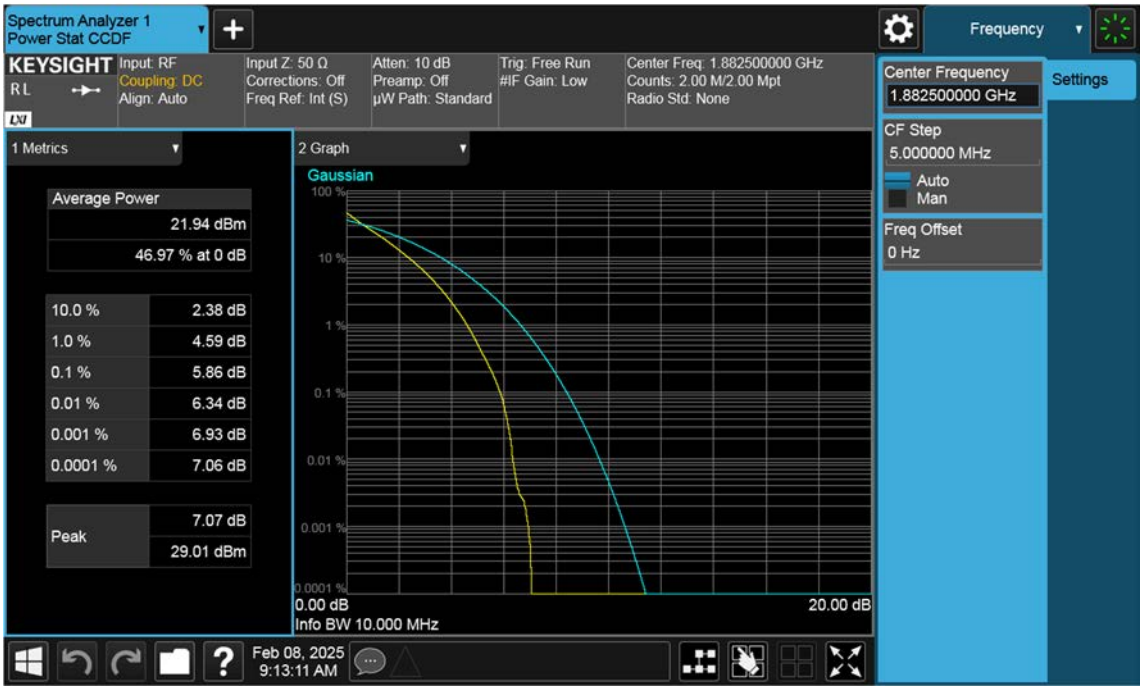
LTE B25_10 M_PAR_Mid_QPSK_FullRB



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LTE B25_10 M_PAR_Mid_16QAM_FullRB

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LTE B25_10 M_PAR_Mid_64QAM_FullRB

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LTE B25_10 M_PAR_Mid_256QAM_FullRB

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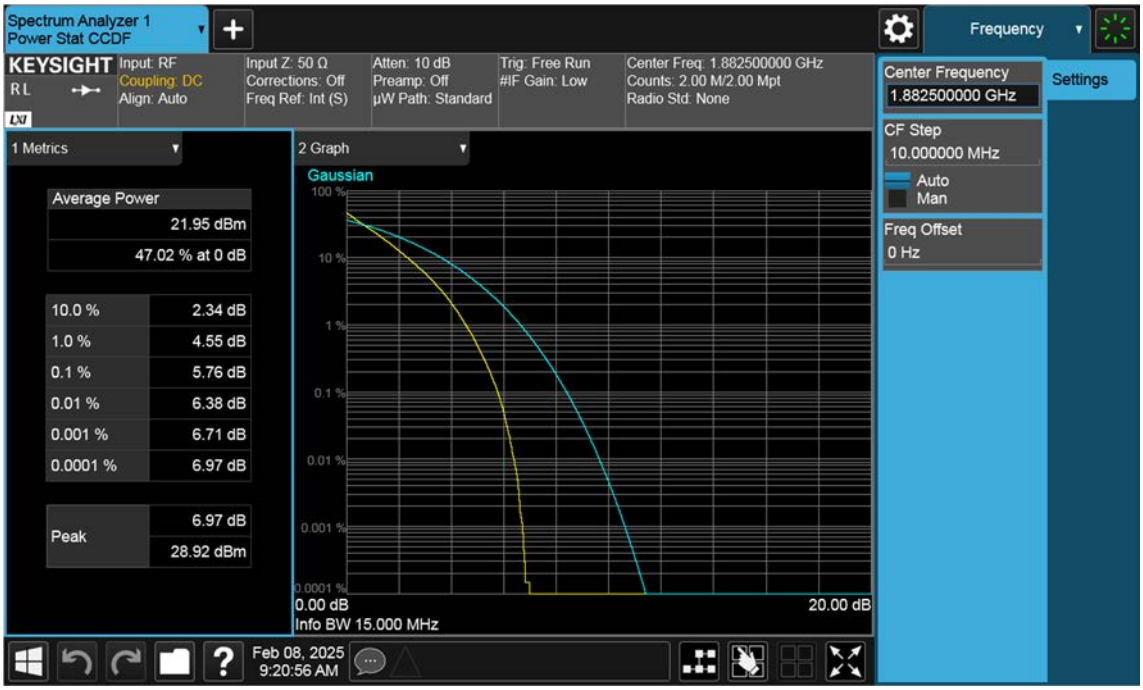
LTE B25_15 M_PAR_Mid_QPSK_FullRB



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LTE B25_15 M_PAR_Mid_16QAM_FullRB

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LTE B25_15 M_PAR_Mid_64QAM_FullRB

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LTE B25_15 M_PAR_Mid_256QAM_FullRB

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LTE B25_20 M_PAR_Mid_QPSK_FullRB

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LTE B25_20 M_PAR_Mid_16QAM_FullRB

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LTE B25_20 M_PAR_Mid_64QAM_FullRB

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LTE B25_20 M_PAR_Mid_256QAM_FullRB

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

LTE B25_1.4M_OBW_Mid_QPSK_FullRB

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LTE B25_1.4M_OBW_Mid_16QAM_FullRB

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LTE B25_1.4M_OBW_Mid_64QAM_FullRB

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

LTE B25_1.4M_OBW_Mid_256QAM_FullRB

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

LTE B25_3 M_OBW_Mid_QPSK_FullRB

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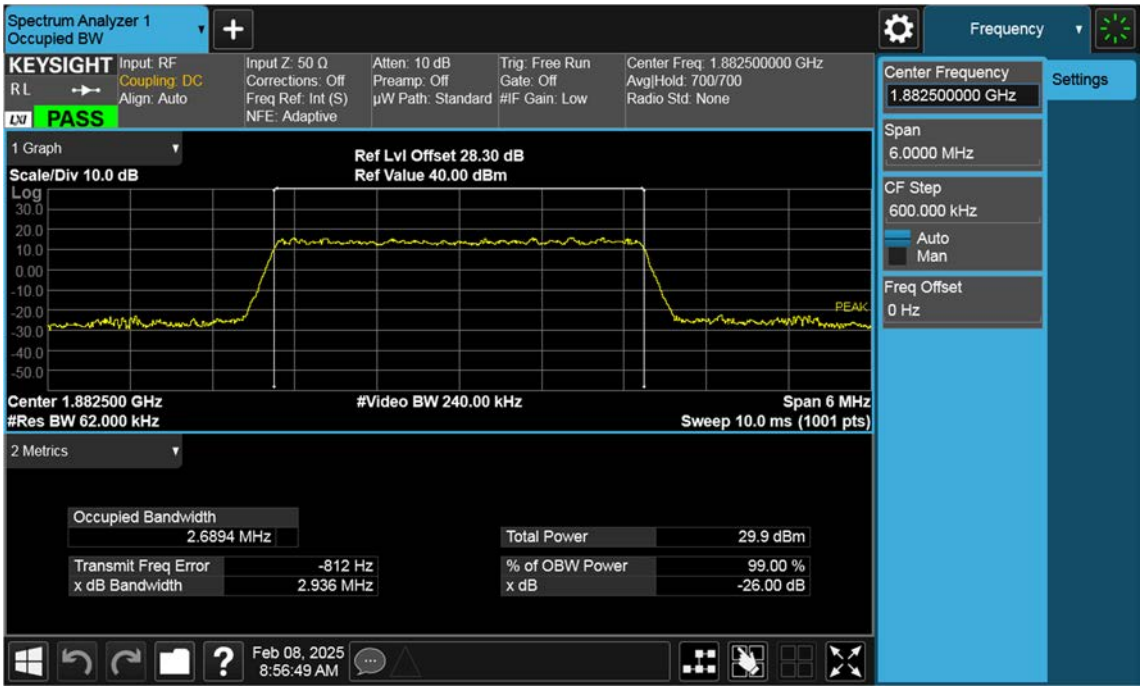
LTE B25_3 M_OBW_Mid_16QAM_FullRB



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LTE B25_3 M_OBW_Mid_64QAM_FullRB

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LTE B25_3 M_OBW_Mid_256QAM_FullRB

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LTE B25_5 M_OBW_Mid_QPSK_FullRB

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LTE B25_5 M_OBW_Mid_16QAM_FullRB

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LTE B25_5 M_OBW_Mid_64QAM_FullRB

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LTE B25_5 M_OBW_Mid_256QAM_FullRB

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LTE B25_10 M_OBW_Mid_QPSK_FullRB

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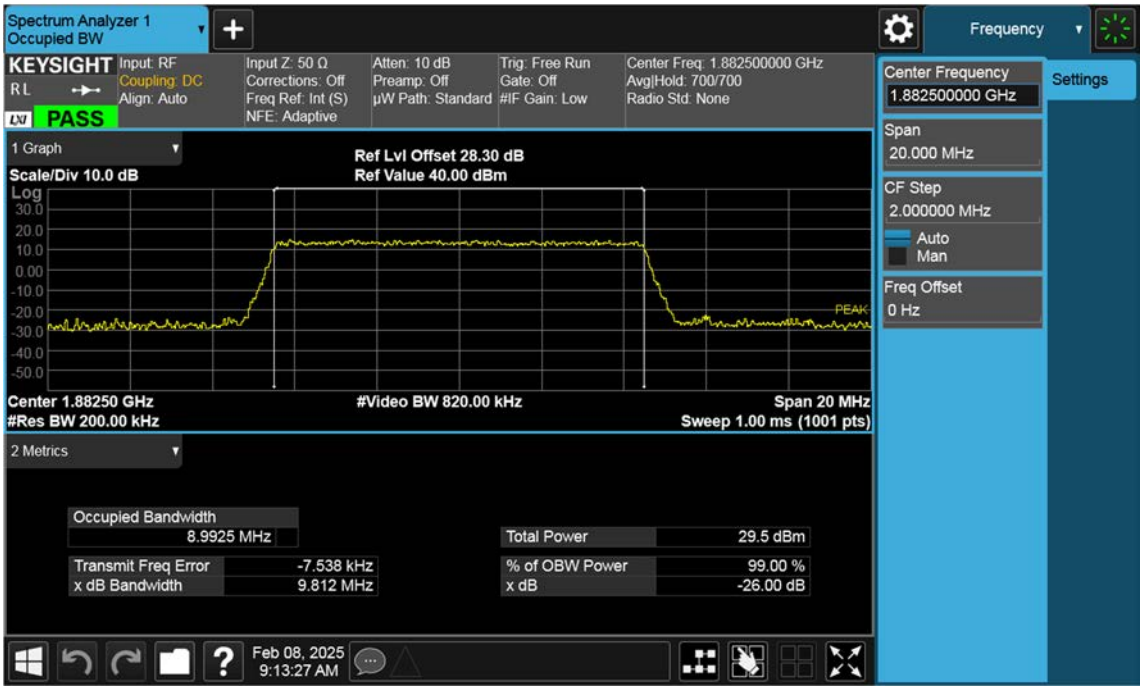
LTE B25_10 M_OBW_Mid_16QAM_FullRB



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LTE B25_10 M_OBW_Mid_64QAM_FullRB

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LTE B25_10 M_OBW_Mid_256QAM_FullRB

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LTE B25_15 M_OBW_Mid_QPSK_FullRB

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LTE B25_15 M_OBW_Mid_256QAM_FullRB

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LTE B25_20 M_OBW_Mid_QPSK_FullRB

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

LTE B25_20 M_OBW_Mid_16QAM_FullRB

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LTE B25_20 M_OBW_Mid_64QAM_FullRB

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

LTE B25_20 M_OBW_Mid_256QAM_FullRB

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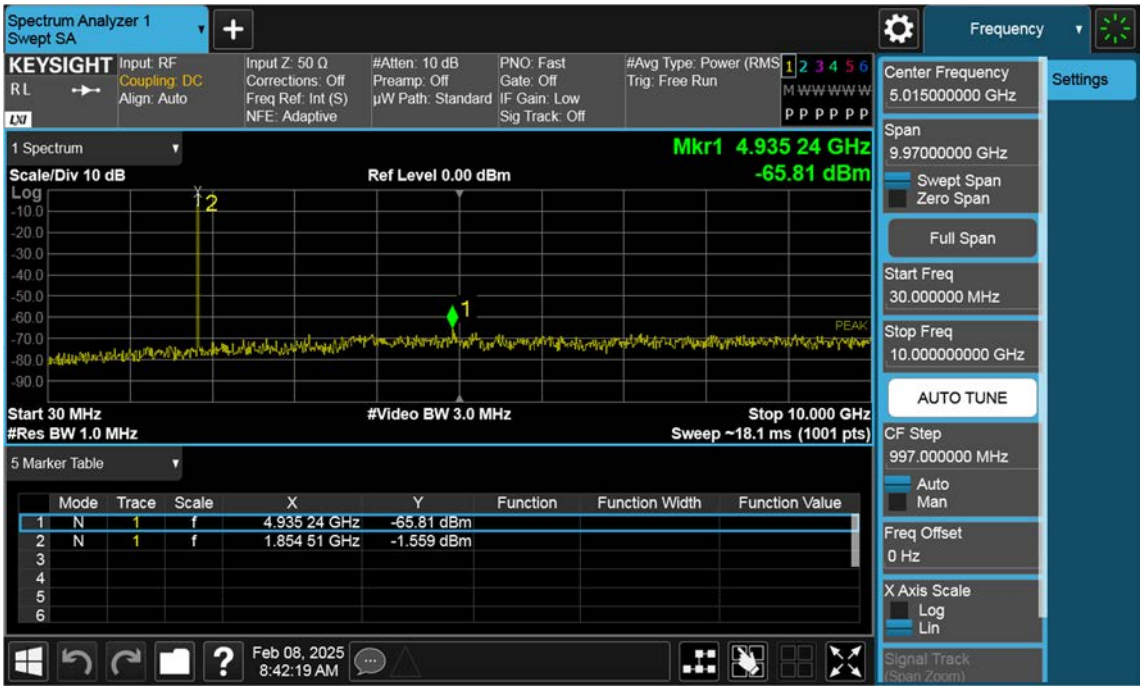
LTE B25_1.4M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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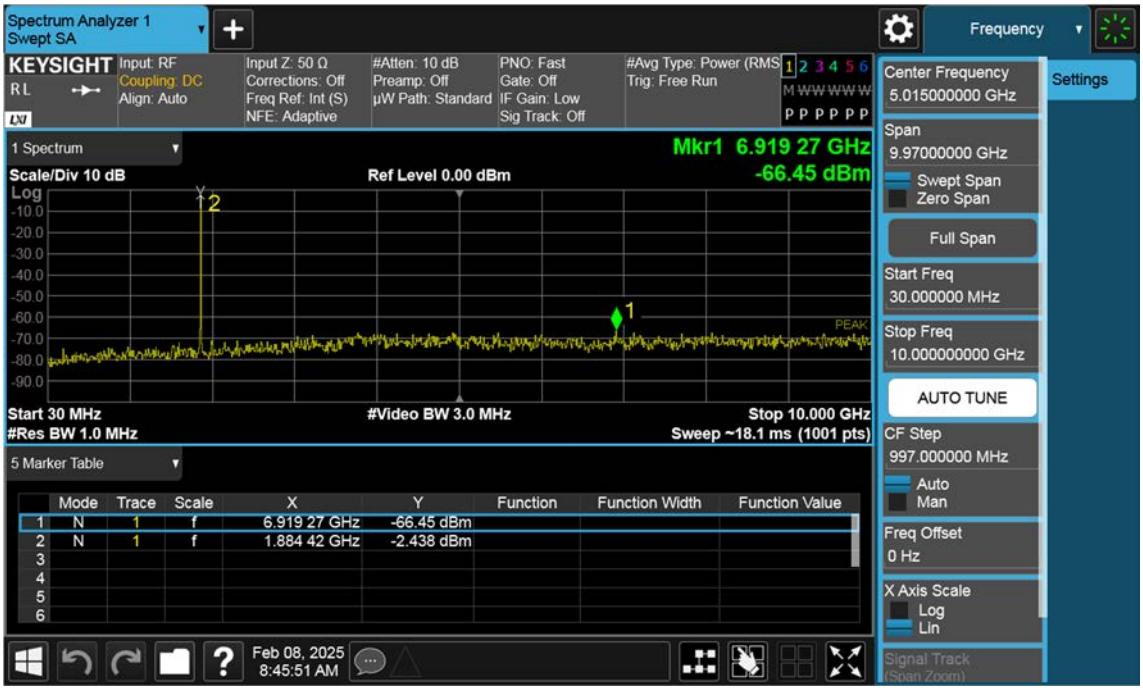
LTE B25_1.4M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



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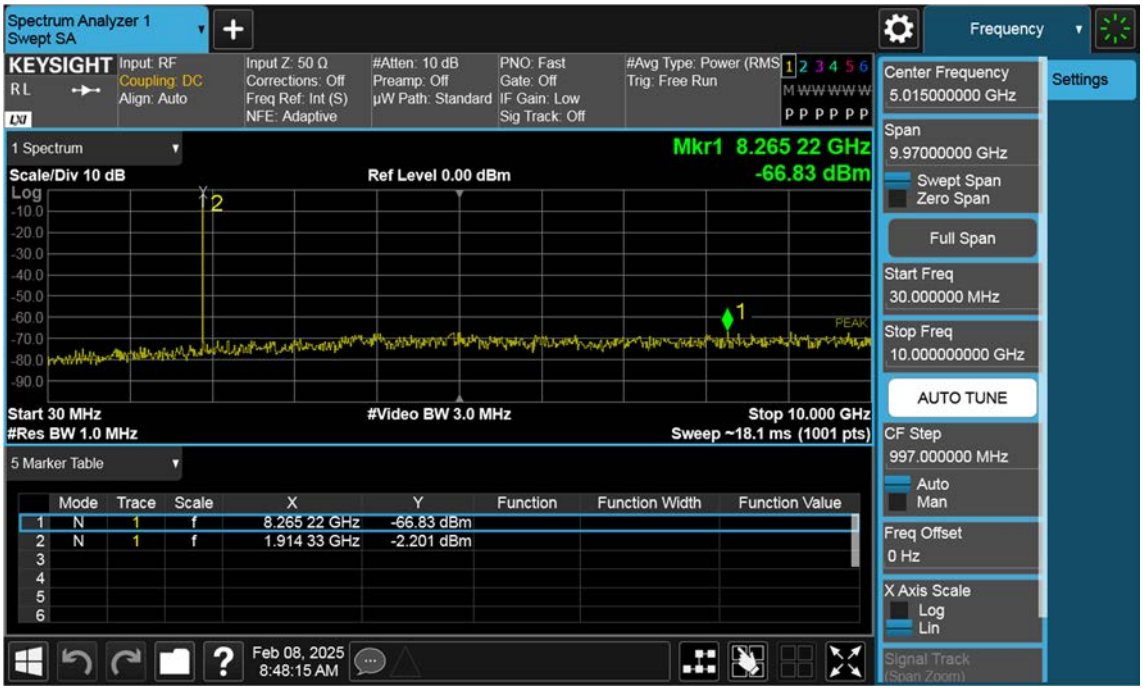
LTE B25_1.4M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



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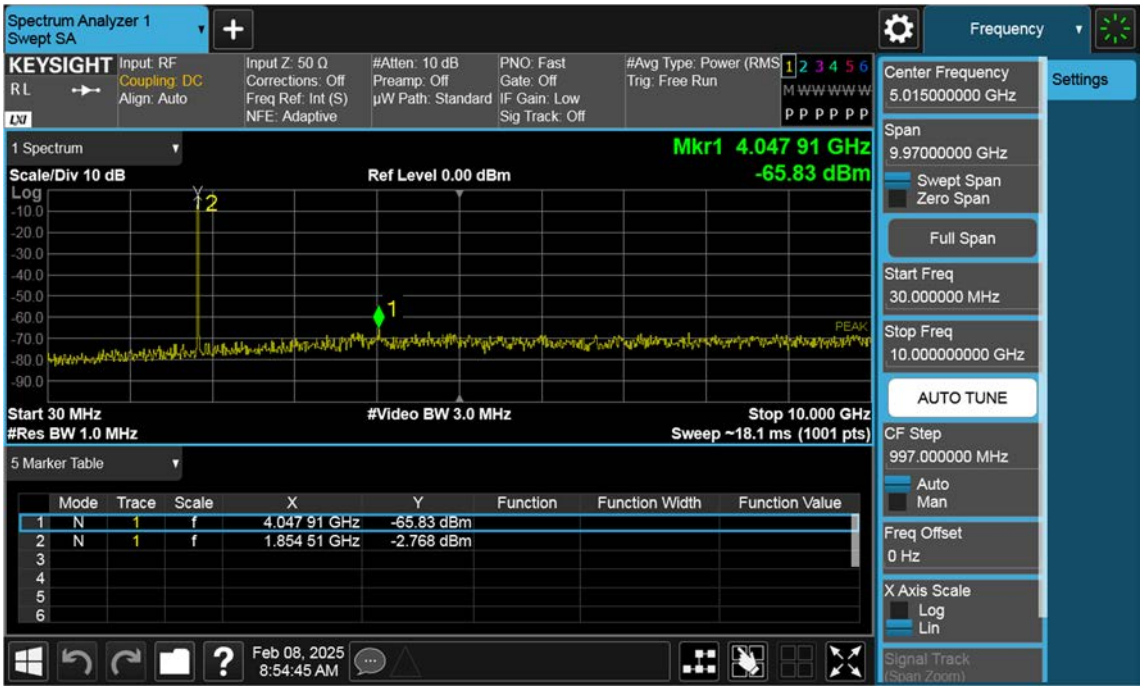
LTE B25_3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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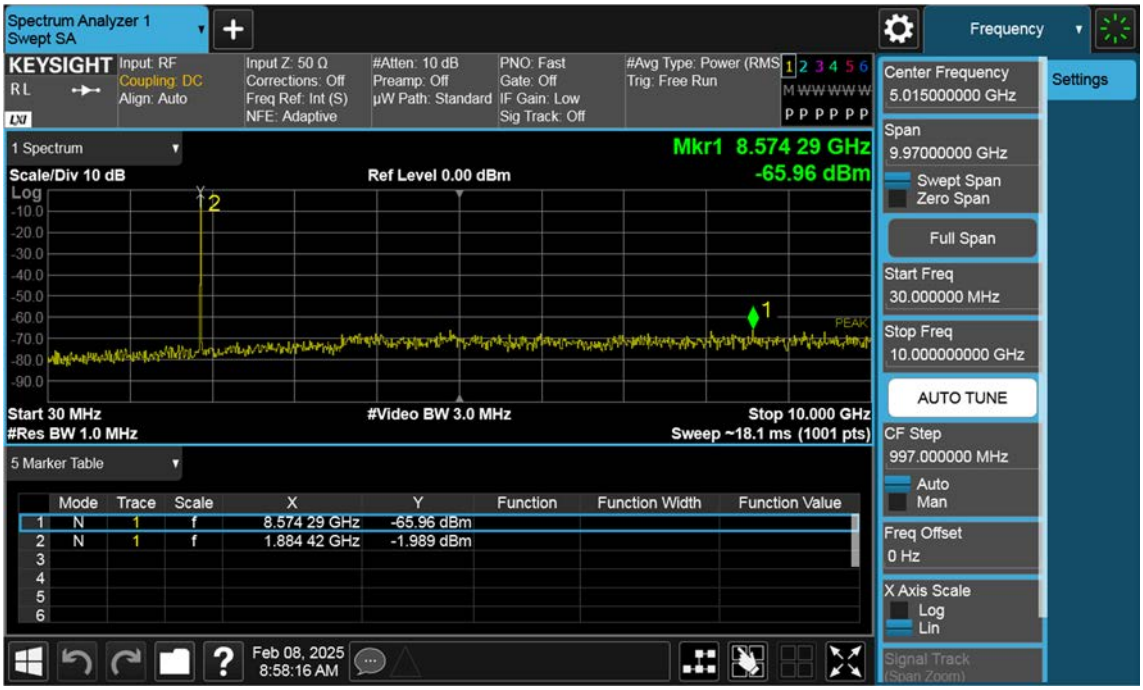
LTE B25_3 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



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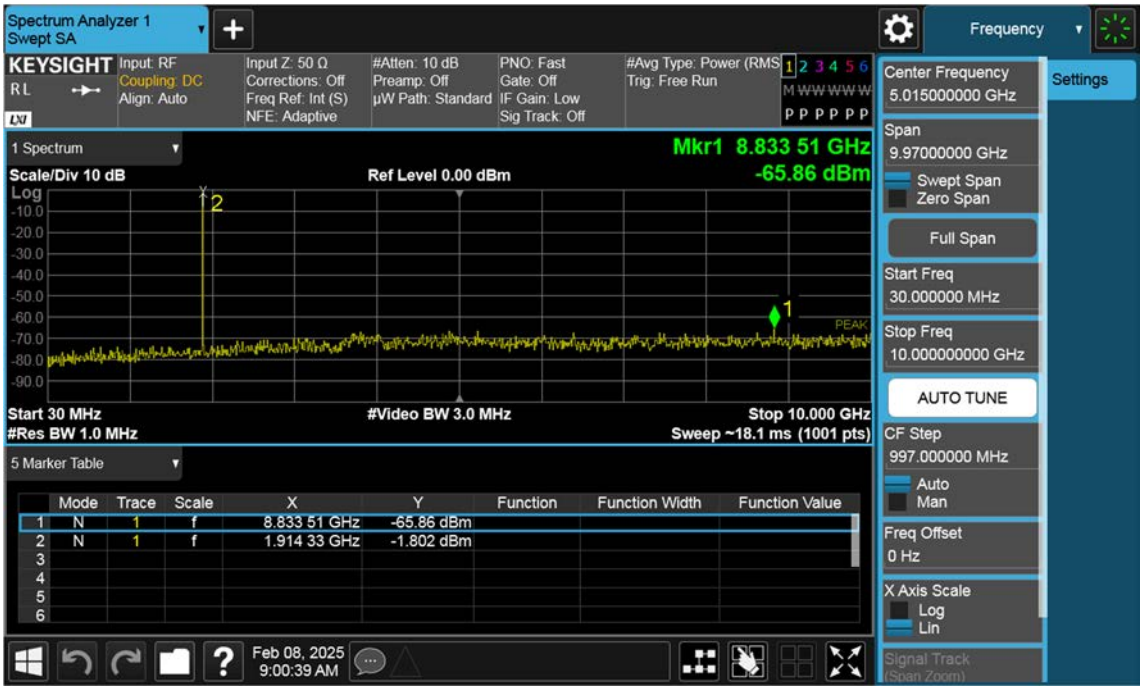
LTE B25_3 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



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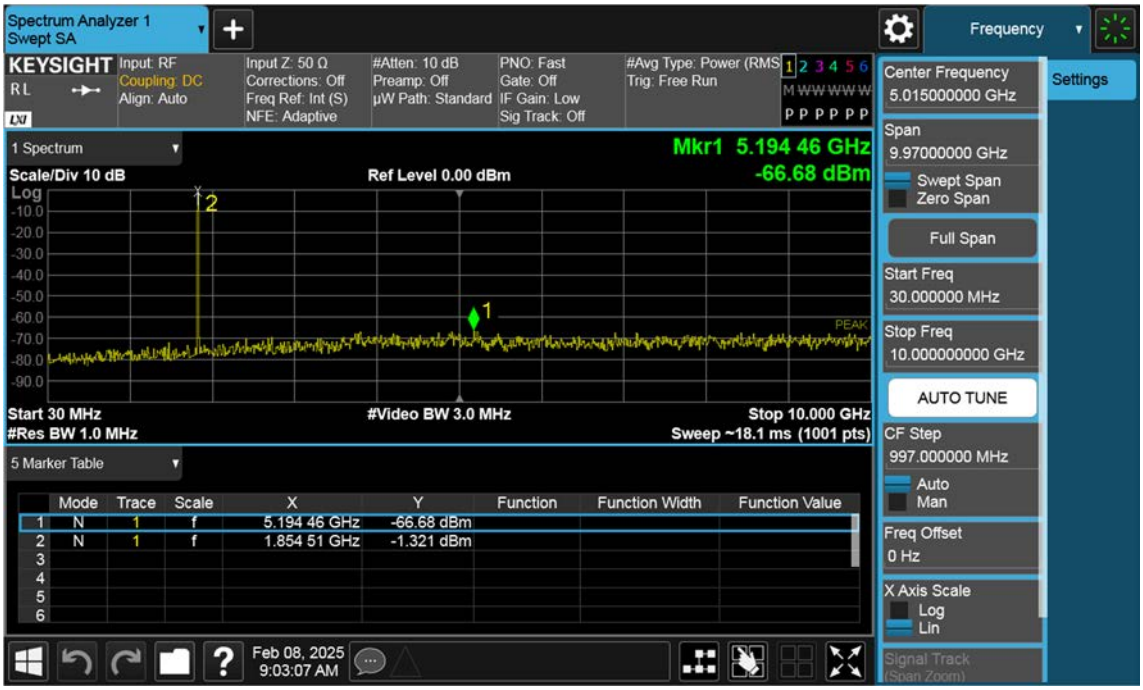
LTE B25_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



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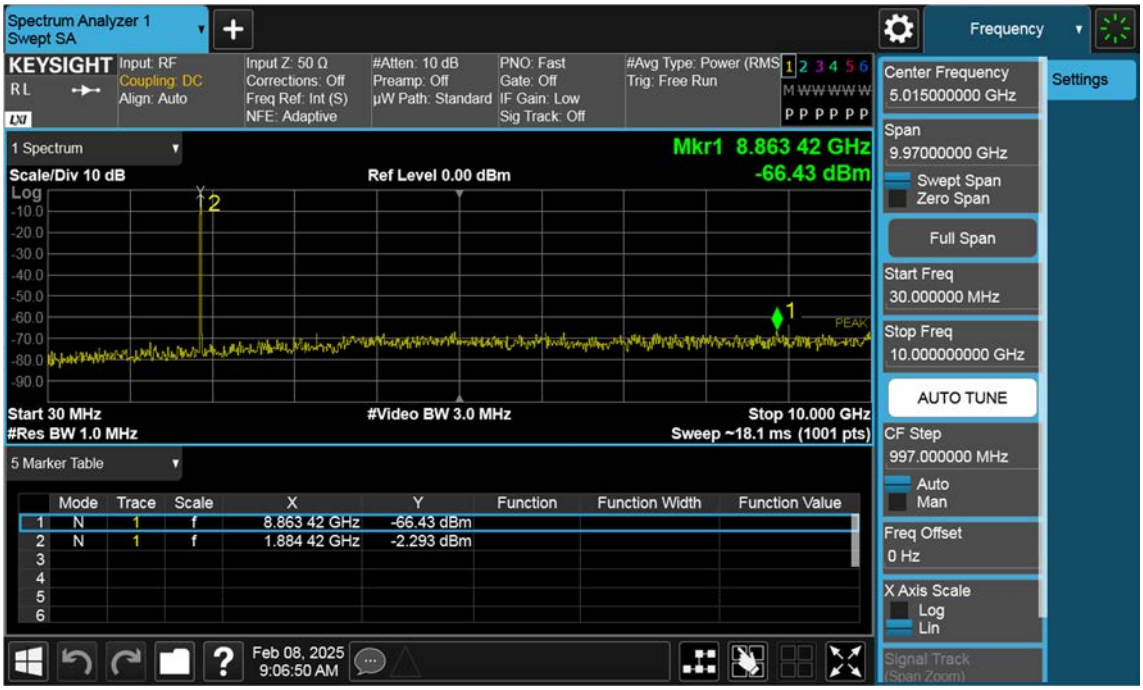
LTE B25_5 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



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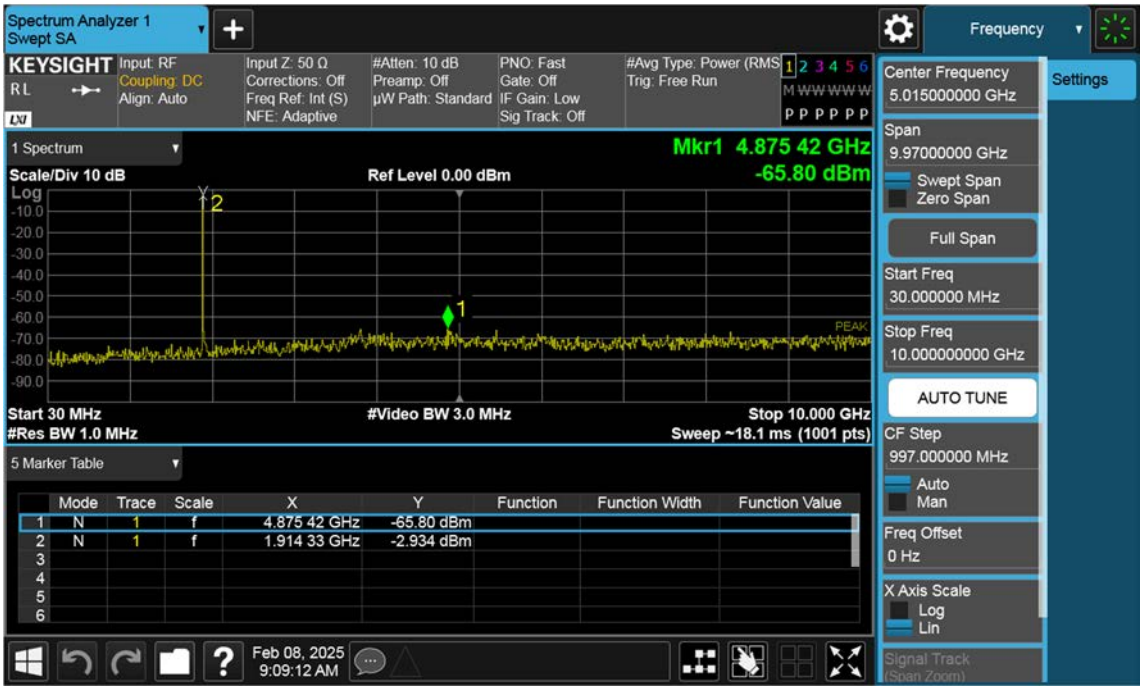
LTE B25_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



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