

TEST REPORT

FCC LTE B41 Test for TM15FNEUJL1
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2502-FC103-R1

DATE OF ISSUE
April 8, 2025

Tested by
Beom Jin Cho



Technical Manager
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Accredited by KOLAS, Republic of KOREA

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Applicant

LG Electronics Inc.

128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea

Product Name

Telematics

Model Name

TM15FNEUJL1

Date of Test

December 9, 2024 ~ February 24, 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

BEJTM15FNEUJL1

FCC Classification:

PCS Licensed Transmitter (PCB)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	February 24, 2025	Initial Release
1	April 08, 2025	Revised the Product Name.

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:	BEJTM15FNEUJL1
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Telematics
Model(s):	TM15FNEUJL1
Tx Frequency:	2498.5 – 2687.5 : 5 MHz 2501.0 – 2685.0 : 10 MHz 2503.5 – 2682.5 : 15 MHz 2506.0 – 2680.0 : 20 MHz
Date(s) of Tests:	December 9, 2024 ~ February 24, 2025
Serial number:	Radiated : 501VIXV900165(NAD) Conducted : 410VIXV000305(NAD)
Antenna Information	Please refer to the Antenna Specification document.

1.1 MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted output power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band 41(38) (5)	2498.5 – 2687.5	4M49G7D	QPSK	0.228	23.58
		4M49W7D	16QAM	0.187	22.72
		4M49W7D	64QAM	0.137	21.38
		4M50W7D	256QAM	0.077	18.88
LTE – Band 41(38) (10)	2501.0 – 2685.0	8M96G7D	QPSK	0.236	23.72
		8M97W7D	16QAM	0.191	22.81
		8M97W7D	64QAM	0.138	21.41
		8M96W7D	256QAM	0.076	18.83
LTE – Band 41(38) (15)	2503.5 – 2682.5	13M4G7D	QPSK	0.231	23.63
		13M5W7D	16QAM	0.187	22.73
		13M4W7D	64QAM	0.139	21.42
		13M5W7D	256QAM	0.078	18.91
LTE – Band 41(38) (20)	2506.0 – 2680.0	18M0G7D	QPSK	0.237	23.75
		17M9W7D	16QAM	0.188	22.74
		17M9W7D	64QAM	0.138	21.41
		17M9W7D	256QAM	0.078	18.90

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
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	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

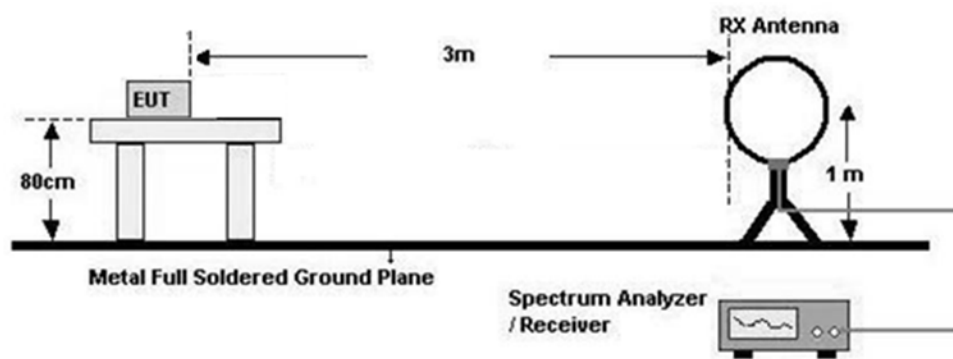
3.2 RADIATED POWER

Test Overview

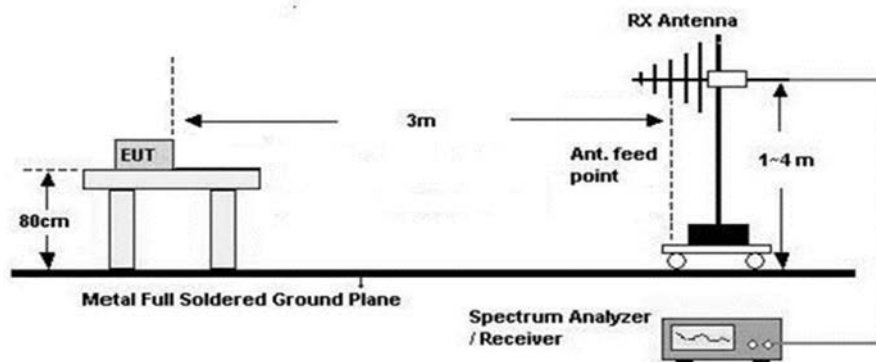
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

Test Configuration

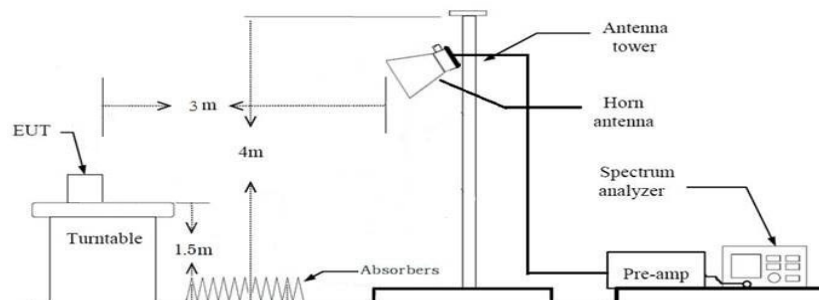
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



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 $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ 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. $\text{Total(dB}\mu\text{V/m)} = \text{Measured Value(dB}\mu\text{V)} + \text{Cable Loss(dB)} + \text{Antenna Factor(dB/m)} + \text{Distance Factor(D.F)}$
8. EIRP (dBm)
= $\text{Total (dB}\mu\text{V/m)} + 20 \log D - 104.8$ (where D is the measurement distance in meters. $D=3$)
= $\text{Total (dB}\mu\text{V/m)} - 95.2(\text{dB})$
9. $\text{ERP(dBm)} = \text{EIRP(dBm)} - 2.15(\text{dB})$

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

Test Note

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

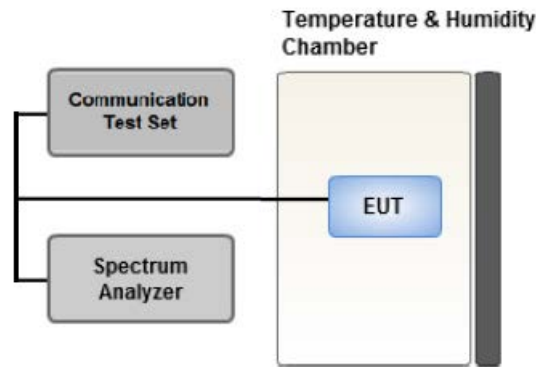
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth \geq 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 %.

② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk} .

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as P_{Avg} . Determine the P.A.R. from:

$$P.A.R. (dB) = P_{Pk} (dBm) - P_{Avg} (dBm) \quad (P_{Avg} = \text{Average Power} + \text{Duty cycle Factor})$$

Test Settings(Peak Power)

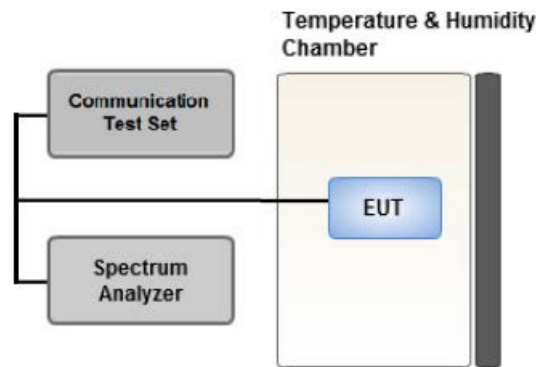
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

1. Set the RBW \geq OBW.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq 2 \times$ OBW.
4. Sweep time $\geq 10 \times$ (number of points in sweep) \times (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

Test Settings(Average Power)

1. Set span to $2 \times$ to $3 \times$ the OBW.
2. Set RBW \geq OBW.
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time:
Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25 %.

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

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

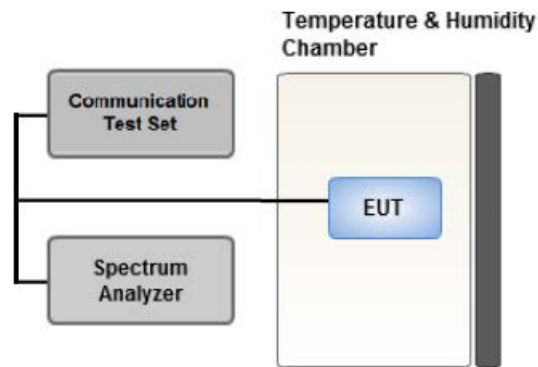
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

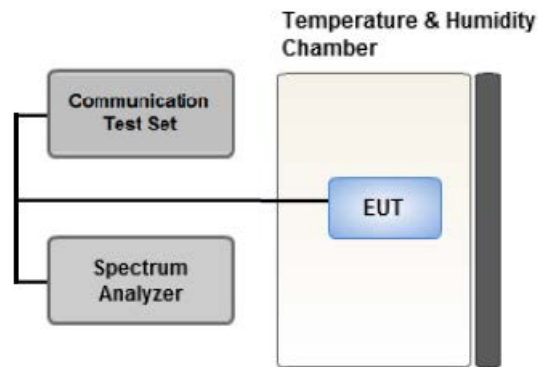
Test Overview

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

Test Settings

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

3.7 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 $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

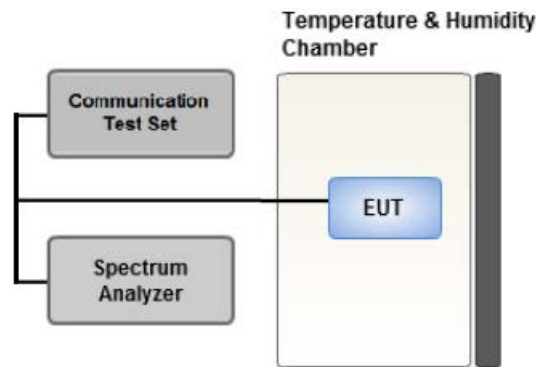
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block 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 $\text{Margin} < 1 \text{ dB}$ 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.
- 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.
- LTE Band 41(5 M/10 M/15 M/20 M) overlaps the entire frequency range of LTE Band 38(5 M/10 M/15 M/20 M) and they have the same Tune-up power.
- 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.
- JIG was used to test the EUT. (EUT + JIG)

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 8.2		Y
Radiated Spurious and Harmonic Emissions	QPSK	See Section 8.3		Y

3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- LTE Band 41(5 M/10 M/15 M/20 M) overlaps the entire frequency range of LTE Band 38(5 M/10 M/15 M/20 M) and they have the same Tune-up power.
- JIG was used to test the EUT. (EUT + JIG)

[Worst case]

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

4. LIST OF TEST EQUIPMENT

[Fully-anechoic chamber]

Equipment	Model	Manufacturer	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	02/26/2025	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/17/2025	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	93022487	06/27/2025	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	03/28/2025	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/19/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	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 & 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.,	-	-	-

[Semi-anechoic chamber]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Turn Table	Turn Table	Ets	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 Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	04/11/2025	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	04/11/2025	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	04/11/2025	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	04/11/2025	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
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
Signal Analyzer(3 Hz ~ 50 GHz)	N9030A	Agilent	MY49430478	02/12/2026	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)	5.70 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

Note. 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, § 27.53(m)(4)	<ul style="list-style-type: none"> ■ $< 40 + 10\log_{10} (P[\text{Watts}])$ at Channel edges ■ $< 43 + 10\log_{10} (P[\text{Watts}])$ between 5 and X MHz from Channel edges ■ $< 55 + 10\log_{10} (P[\text{Watts}])$ beyond X MHz beyond from Channel edges ■ $< 43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz 	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See Note1</u>
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. See SAR Report

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(m)(4)	$< 55 + 10\log_{10} (P[\text{Watts}])$	PASS

6.3. Data Referencing

Rule Part	Test item	Data Referencing	Comments
§ 2.1049	Occupied Bandwidth	Y	-
§ 2.1051, § 27.53(m)(4)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal..	Y	-
§ 2.1055, § 27.54	Frequency stability / variation of ambient temperature	Y	-
§ 27.50(h)(2)	Equivalent Isotropic Radiated Power	Y	Spot-check
§ 2.1053, § 27.53(m)(4)	Radiated Spurious and Harmonic Emissions	Y	Spot-check
§ 2.1046	Conducted Output Power	Y	-

Spot-Check Result

1. Data was leveraged from model TM15FNEUJL0 for the certification of TM15FNEUJL1.
2. Please refer to the [FCC Evaluation] Report.

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

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2498.5	LTE B41(38)/ 5 MHz	QPSK	81.24	29.74	3.53	114.51	H	< 2.00	0.213	23.29	1	24
		16-QAM	81.21	29.74	3.53	114.48	H		0.212	23.26		
		64-QAM	81.17	29.74	3.53	114.44	H		0.210	23.22		
		256-QAM	79.86	29.74	3.53	113.13	H		0.155	21.91		
2593.0		QPSK	83.26	29.94	3.55	116.75	H		0.357	25.53	1	12
		16-QAM	83.19	29.94	3.55	116.68	H		0.351	25.46		
		64-QAM	83.14	29.94	3.55	116.63	H		0.347	25.41		
		256-QAM	81.80	29.94	3.55	115.29	H		0.255	24.07		
2687.5		QPSK	80.83	30.14	3.61	114.58	H		0.217	23.36	1	24
		16-QAM	80.76	30.14	3.61	114.51	H		0.213	23.29		
		64-QAM	80.81	30.14	3.61	114.56	H		0.216	23.34		
		256-QAM	79.45	30.14	3.61	113.20	H		0.158	21.98		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2501.0	LTE B41(38)/ 10 MHz	QPSK	81.45	29.74	3.53	114.72	H	< 2.00	0.224	23.50	1	49
		16-QAM	81.39	29.74	3.53	114.66	H		0.221	23.44		
		64-QAM	81.41	29.74	3.53	114.68	H		0.222	23.46		
		256-QAM	80.12	29.74	3.53	113.39	H		0.165	22.17		
2593.0		QPSK	83.12	29.94	3.55	116.61	H		0.346	25.39	1	24
		16-QAM	83.01	29.94	3.55	116.50	H		0.337	25.28		
		64-QAM	83.05	29.94	3.55	116.54	H		0.340	25.32		
		256-QAM	81.76	29.94	3.55	115.25	H		0.253	24.03		
2685.0		QPSK	81.10	30.14	3.61	114.85	H		0.231	23.63	1	0
		16-QAM	81.05	30.14	3.61	114.80	H		0.228	23.58		
		64-QAM	80.97	30.14	3.61	114.72	H		0.224	23.50		
		256-QAM	79.56	30.14	3.61	113.31	H		0.162	22.09		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2503.5	LTE B41(38)/ 15 MHz	QPSK	81.60	29.74	3.53	114.87	H	< 2.00	0.232	23.65	1	74
		16-QAM	81.54	29.74	3.53	114.81	H		0.229	23.59		
		64-QAM	81.51	29.74	3.53	114.78	H		0.227	23.56		
		256-QAM	80.32	29.74	3.53	113.59	H		0.173	22.37		
2593.0		QPSK	83.17	29.94	3.55	116.66	H		0.350	25.44	1	74
		16-QAM	83.14	29.94	3.55	116.63	H		0.347	25.41		
		64-QAM	83.11	29.94	3.55	116.60	H		0.345	25.38		
		256-QAM	81.71	29.94	3.55	115.20	H		0.250	23.98		
2682.5		QPSK	81.40	30.14	3.61	115.15	H		0.247	23.93	1	0
		16-QAM	81.36	30.14	3.61	115.11	H		0.245	23.89		
		64-QAM	81.31	30.14	3.61	115.06	H		0.242	23.84		
		256-QAM	80.69	30.14	3.61	114.44	H		0.210	23.22		

Freq (MHz)	Bandwidth	Modulation	Measured (dBμV/m)	Ant. Factor + Distance Factor (dB)	C.L (dB)	Total (dBμV/m)	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2506.0	LTE B41(38)/ 20 MHz	QPSK	82.15	29.74	3.53	115.42	H	< 2.00	0.263	24.20	1	99
		16-QAM	82.05	29.74	3.53	115.32	H		0.257	24.10		
		64-QAM	81.99	29.74	3.53	115.26	H		0.253	24.04		
		256-QAM	81.75	29.74	3.53	115.02	H		0.240	23.80		
2593.0		QPSK	83.09	29.94	3.55	116.58	H		0.343	25.36	1	99
		16-QAM	82.97	29.94	3.55	116.46	H		0.334	25.24		
		64-QAM	82.95	29.94	3.55	116.44	H		0.333	25.22		
		256-QAM	81.85	29.94	3.55	115.34	H		0.258	24.12		
2680.0		QPSK	81.62	30.14	3.61	115.37	H		0.260	24.15	1	0
		16-QAM	81.52	30.14	3.61	115.27	H		0.254	24.05		
		64-QAM	81.58	30.14	3.61	115.33	H		0.258	24.11		
		256-QAM	80.89	30.14	3.61	114.64	H		0.220	23.42		

8.2 RADIATED SPURIOUS EMISSIONS

□ MODE: LTE B41(38)
 □ MODULATION SIGNAL: 5 MHz QPSK
 □ DISTANCE: 1 meters
 □ LIMIT: $55 + 10 \log_{10}(W) =$ - 25 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
39675 (2498.5)	4 997.00	-56.10	10.92	-62.24	3.70	H	-55.02	1	24
	7 495.50	-56.42	11.55	-58.64	4.61	H	-51.70		
	9 994.00	-55.85	11.41	-55.16	5.47	H	-49.22		
	12 492.50	-56.92	13.17	-53.43	6.12	H	-46.38		
	14 991.00	-68.04	14.21	-50.25	6.79	H	-42.83		
40620 (2593.0)	5,186.00	-54.60	11.18	-62.13	3.80	H	-54.75	1	12
	7,779.00	-55.08	11.37	-55.64	4.70	H	-48.97		
	10,372.00	-57.35	11.67	-56.87	5.55	H	-50.75		
	12,965.00	-58.35	12.77	-53.51	6.35	H	-47.09		
	15,558.00	-68.83	15.76	-50.48	6.89	H	-41.61		
41565 (2687.5)	5,375.00	-55.02	11.60	-62.49	3.91	H	-54.80	1	24
	8,062.50	-56.32	11.34	-55.56	4.82	H	-49.04		
	10,750.00	-54.97	11.60	-54.69	5.64	H	-48.73		
	13,437.50	-59.12	12.86	-50.92	6.44	H	-44.50		
	16,125.00	-68.70	16.31	-52.90	7.07	H	-43.66		

■ MODE: LTE B41(38)
 ■ MODULATION SIGNAL: 10 MHz QPSK
 ■ DISTANCE: 1 meters
 ■ LIMIT: $55 + 10 \log_{10}(W) =$ - 25 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
39700 (2501.0)	5,002.00	-55.76	10.91	-62.24	3.71	H	-55.04	1	49
	7,503.00	-55.70	11.58	-57.83	4.60	H	-50.85		
	10,004.00	-55.28	11.40	-54.91	5.47	H	-48.98		
	12,505.00	-57.13	13.17	-53.51	6.10	H	-46.44		
	15,006.00	-67.94	14.26	-49.92	6.78	H	-42.44		
40620 (2593.0)	5,186.00	-52.43	11.18	-59.96	3.80	H	-52.58	1	24
	7,779.00	-56.42	11.37	-56.98	4.70	H	-50.31		
	10,372.00	-55.80	11.67	-55.32	5.55	H	-49.20		
	12,965.00	-59.20	12.77	-54.36	6.35	H	-47.94		
	15,558.00	-69.27	15.76	-50.92	6.89	H	-42.05		
41540 (2685.0)	5,370.00	-51.31	11.59	-58.75	3.92	H	-51.08	1	0
	8,055.00	-57.63	11.32	-56.98	4.81	H	-50.47		
	10,740.00	-55.06	11.60	-54.49	5.64	H	-48.53		
	13,425.00	-59.29	12.88	-50.87	6.41	H	-44.40		
	16,110.00	-68.96	16.29	-53.20	7.10	H	-44.01		

■ MODE: LTE B41(38)
 ■ MODULATION SIGNAL: 15 MHz QPSK
 ■ DISTANCE: 1 meters
 ■ LIMIT: $55 + 10 \log_{10}(W) =$ - 25 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
39725 (2503.5)	5,007.00	-56.94	10.91	-63.48	3.71	H	-56.28	1	74
	7,510.50	-56.56	11.59	-58.67	4.60	H	-51.68		
	10,014.00	-55.05	11.39	-54.42	5.47	H	-48.50		
	12,517.50	-57.33	13.15	-53.91	6.09	H	-46.85		
	15,021.00	-68.54	14.29	-50.47	6.74	H	-42.92		
40620 (2593.0)	5,186.00	-53.94	11.18	-61.47	3.80	H	-54.09	1	74
	7,779.00	-55.88	11.37	-56.44	4.70	H	-49.77		
	10,372.00	-55.89	11.67	-55.41	5.55	H	-49.29		
	12,965.00	-58.76	12.77	-53.92	6.35	H	-47.50		
	15,558.00	-68.68	15.76	-50.33	6.89	H	-41.46		
41515 (2682.5)	5,365.00	-52.63	11.59	-60.14	3.91	H	-52.46	1	0
	8,047.50	-56.80	11.31	-56.44	4.81	H	-49.94		
	10,730.00	-54.77	11.60	-54.24	5.65	H	-48.29		
	13,412.50	-58.68	12.89	-50.83	6.40	H	-44.34		
	16,095.00	-68.23	16.28	-52.26	7.06	H	-43.04		

■ MODE: LTE B41(38)
 ■ MODULATION SIGNAL: 20 MHz QPSK
 ■ DISTANCE: 1 meters
 ■ LIMIT: $55 + 10 \log_{10}(W) =$ - 25 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
39750 (2506.0)	5,012.00	-56.06	10.91	-62.65	3.72	H	-55.46	1	99
	7,518.00	-54.83	11.60	-57.20	4.61	H	-50.21		
	10,024.00	-55.66	11.39	-54.91	5.47	H	-48.99		
	12,530.00	-58.09	13.14	-54.55	6.10	H	-47.51		
	15,036.00	-68.41	14.33	-50.58	6.74	H	-42.99		
40620 (2593.0)	5,186.00	-53.29	11.18	-60.82	3.80	H	-53.44	1	99
	7,779.00	-55.72	11.37	-56.28	4.70	H	-49.61		
	10,372.00	-55.95	11.67	-55.47	5.55	H	-49.35		
	12,965.00	-58.33	12.77	-53.49	6.35	H	-47.07		
	15,558.00	-68.24	15.76	-49.89	6.89	H	-41.02		
41490 (2680.0)	5,360.00	-53.31	11.58	-60.88	3.90	H	-53.20	1	0
	8,040.00	-56.56	11.29	-56.55	4.80	H	-50.06		
	10,720.00	-53.96	11.60	-53.81	5.64	H	-47.85		
	13,400.00	-59.38	12.91	-52.04	6.38	H	-45.51		
	16,080.00	-67.55	16.25	-51.22	7.02	H	-41.99		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
41(38)	5 MHz	2593.0	QPSK	25	0	5.39
			16-QAM			6.03
			64-QAM			6.69
			256-QAM			6.63
	10 MHz		QPSK	50		5.49
			16-QAM			6.11
			64-QAM			6.62
			256-QAM			6.68
	15 MHz		QPSK	75		5.32
			16-QAM			6.12
			64-QAM			6.64
			256-QAM			6.65
	20 MHz		QPSK	100		5.29
			16-QAM			6.02
			64-QAM			6.64
			256-QAM			6.79

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 50 ~ 65.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
41(38)	5 MHz	2593.0	QPSK	25	0	4.4923
			16-QAM			4.4877
			64-QAM			4.4908
			256-QAM			4.4999
	10 MHz		QPSK	50		8.9597
			16-QAM			8.9730
			64-QAM			8.9670
			256-QAM			8.9579
	15 MHz		QPSK	75		13.430
			16-QAM			13.467
			64-QAM			13.438
			256-QAM			13.489
	20 MHz		QPSK	100		18.019
			16-QAM			17.864
			64-QAM			17.903
			256-QAM			17.930

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 66~ 81.

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)
41(38)	5	2498.5	6.0220	31.499	-66.489	-34.990	-25.00
		2593.0	3.7388	30.579	-65.905	-35.326	
		2687.5	3.7089	30.579	-65.523	-34.944	
	10	2501.0	3.8286	30.579	-67.085	-36.506	
		2593.0	4.0180	30.579	-64.474	-33.895	
		2685.0	4.9253	30.579	-66.779	-36.200	
	15	2503.5	8.6042	31.499	-65.320	-33.821	
		2593.0	3.7688	30.579	-66.695	-36.116	
		2682.5	6.0718	31.499	-65.819	-34.320	
	20	2506.0	3.7887	30.579	-66.153	-35.574	
		2593.0	7.5175	31.499	-66.747	-35.248	
		2680.0	3.8385	30.579	-66.825	-36.246	

Note:

- Plots of the EUT's Conducted Spurious Emissions are shown Page 82 ~ 105.
- Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
- Duty Cycle factor already applied on the factor.
 - Duty Cycle factor(dB) = 3.979
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor

Frequency Range (GHz)	Factor [dB]
0.03 – 1	30.059
1 – 5	30.579
5 – 10	31.499
10 – 15	33.099
15 – 20	35.689
Above 20	36.329

8.6 CHANNEL EDGE

Band Width	Frequency (MHz)	Modulation	RB (Size/Offset)	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1 MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
				Lower	Upper	Lower	Upper	Lower	Upper	Upper
5 MHz	2498.5	QPSK	25/0	-26.74	-27.98	-24.34	-25.02	-30.26	-31.14	-31.04
10 MHz	2501.0	QPSK	50/0	-29.61	-28.29	-26.14	-25.17	-27.21	-28.10	-32.76
15 MHz	2503.5	QPSK	75/0	-28.59	-27.62	-26.27	-25.54	-27.37	-28.40	-33.92
20 MHz	2506.0	QPSK	100/0	-28.06	-27.16	-26.11	-25.41	-27.35	-27.35	-32.86
Limit(dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
5 MHz	2593.0	QPSK	25	0	-27.23	-28.25	-25.02	-26.30
	2687.5	QPSK	25	0	-26.06	-27.20	-22.10	-23.15
10 MHz	2593.0	QPSK	50	0	-30.03	-30.10	-26.73	-26.92
	2685.0	QPSK	50	0	-27.43	-28.77	-23.46	-24.41
15 MHz	2593.0	QPSK	75	0	-30.78	-30.22	-28.42	-27.20
	2682.5	QPSK	75	0	-29.18	-29.94	-26.48	-26.65
20 MHz	2593.0	QPSK	100	0	-31.26	-31.12	-29.57	-29.35
	2680.0	QPSK	100	0	-31.15	-30.97	-29.98	-29.02
Limit(dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
5 MHz	2593.0	QPSK	25	0	-35.58	-35.64	-35.17	-35.83
	2687.5	QPSK	25	0	-34.45	-35.04	-35.86	-36.21
10 MHz	2593.0	QPSK	50	0	-35.46	-32.02	-36.59	-38.39
	2685.0	QPSK	50	0	-29.45	-28.37	-34.60	-35.60
15 MHz	2593.0	QPSK	75	0	-34.33	-30.43	-37.89	-39.94
	2682.5	QPSK	75	0	-31.09	-29.39	-38.45	-40.27
20 MHz	2593.0	QPSK	100	0	-34.35	-31.49	-38.06	-39.74
	2680.0	QPSK	100	0	-33.21	-31.60	-42.03	-43.44
Limit(dBm)					-13.0		-25.0	

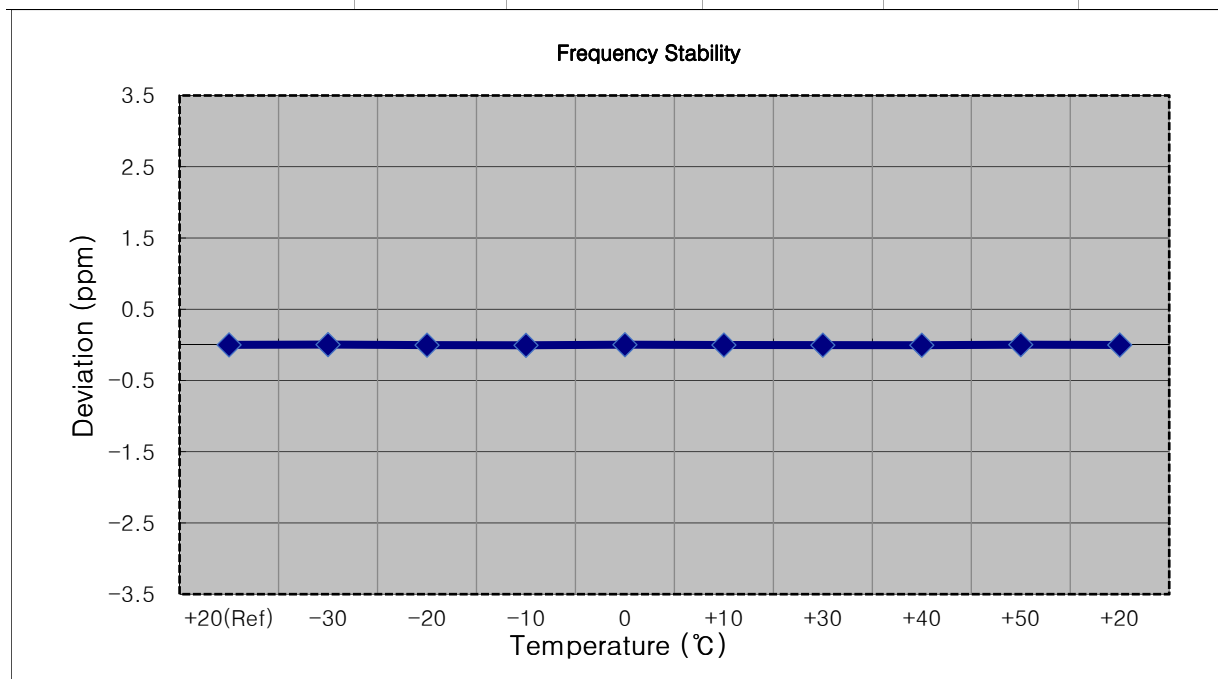
Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth.
3. X = 6 MHz(5 MHz Bandwidth), 10 MHz(10 MHz Bandwidth), 15 MHz(15 MHz Bandwidth), 20 MHz(20 MHz Bandwidth)
4. RB = Resource Block
5. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 3.979
6. Plots of the EUT's Channel Edge are shown Page 106 ~ 133. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

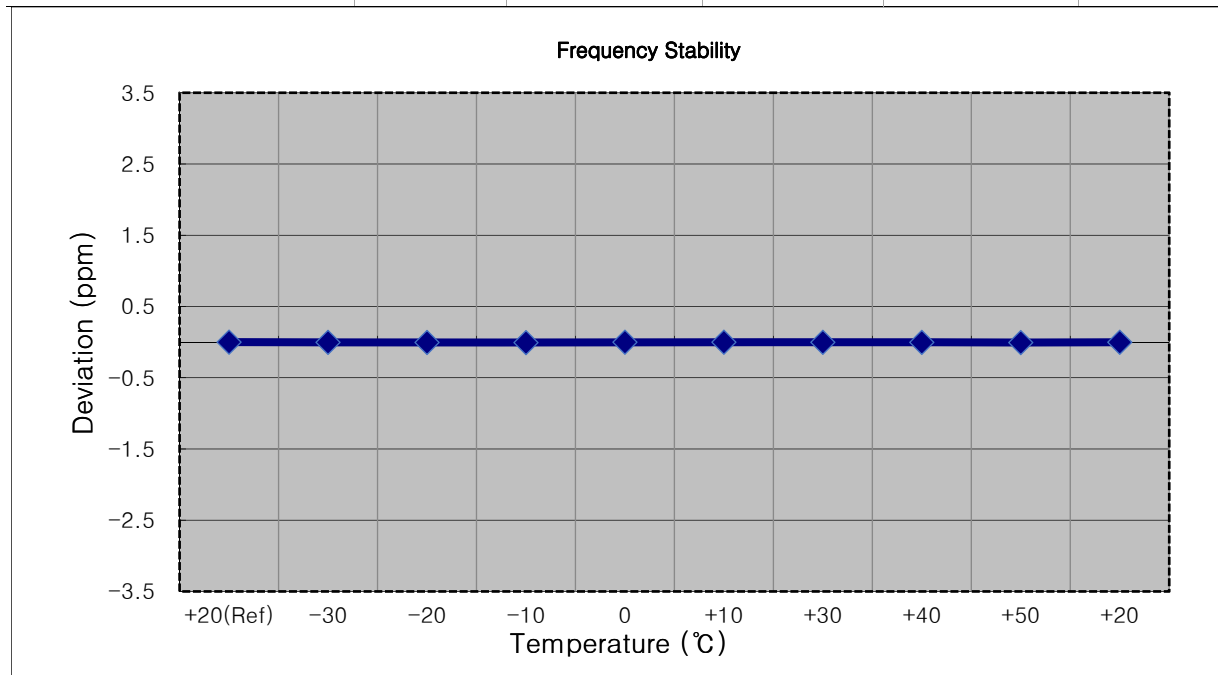
MODE:	<u>LTE 41(38)</u>
OPERATING FREQUENCY:	<u>2498,500,000 Hz</u>
BANDWIDTH:	<u>39675 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>12.000 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	12.000	+20(Ref)	2498 500 005	0.0	0.000 000	0.000
100 %		-30	2498 500 015	9.6	0.000 000	0.004
100 %		-20	2498 499 996	-8.9	0.000 000	-0.004
100 %		-10	2498 499 991	-14.7	-0.000 001	-0.006
100 %		0	2498 500 011	5.6	0.000 000	0.002
100 %		+10	2498 500 000	-5.2	0.000 000	-0.002
100 %		+30	2498 499 996	-9.0	0.000 000	-0.004
100 %		+40	2498 499 993	-12.3	0.000 000	-0.005
100 %		+50	2498 500 012	6.6	0.000 000	0.003
115 %		+20	2498 499 999	-6.8	0.000 000	-0.003
85 %		+20	2498 499 998	-7.1	0.000 000	-0.003



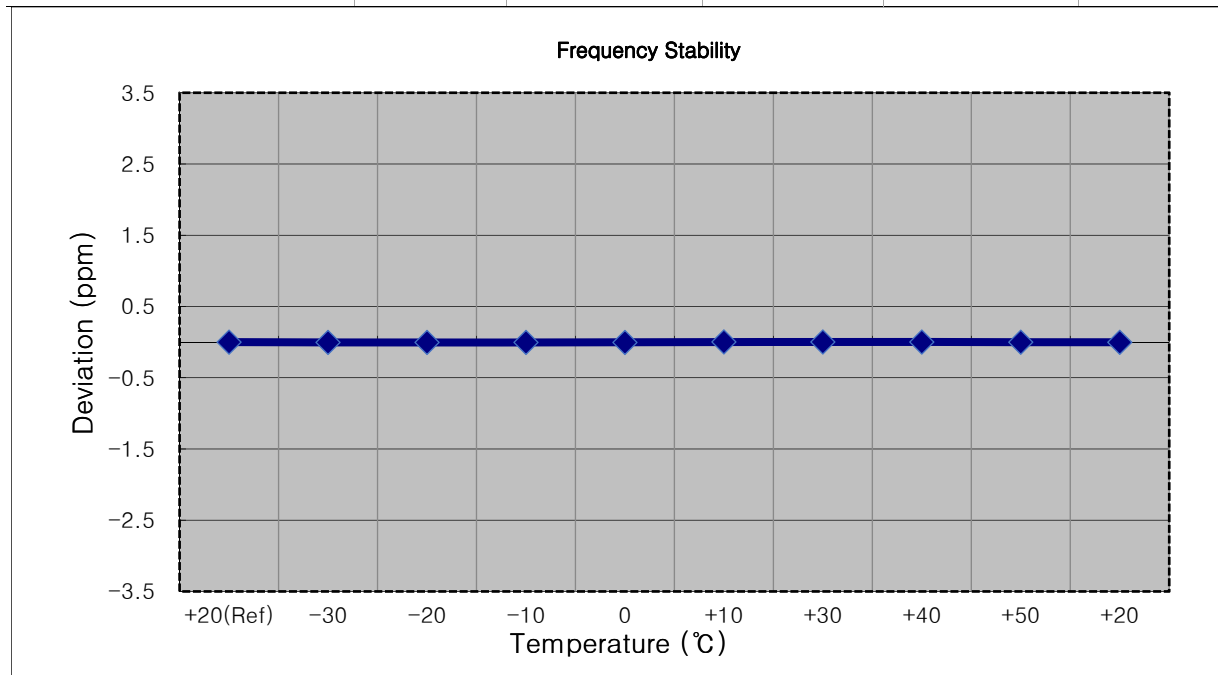
MODE: LTE 41(38)
 OPERATING FREQUENCY: 2501,000,000 Hz
 BANDWIDTH: 39700 (10 MHz)
 REFERENCE VOLTAGE: 12.000 VDC
 DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2500 999 994	0.0	0.000 000	0.000
100 %		-30	2500 999 985	-8.8	0.000 000	-0.004
100 %		-20	2500 999 983	-11.0	0.000 000	-0.004
100 %		-10	2500 999 976	-17.9	-0.000 001	-0.007
100 %		0	2500 999 991	-2.9	0.000 000	-0.001
100 %		+10	2500 999 991	-2.5	0.000 000	-0.001
100 %		+30	2500 999 988	-5.2	0.000 000	-0.002
100 %		+40	2500 999 986	-7.7	0.000 000	-0.003
100 %		+50	2500 999 979	-14.5	-0.000 001	-0.006
115 %		+20	2500 999 986	-7.8	0.000 000	-0.003
85 %		+20	2500 999 985	-8.5	0.000 000	-0.003



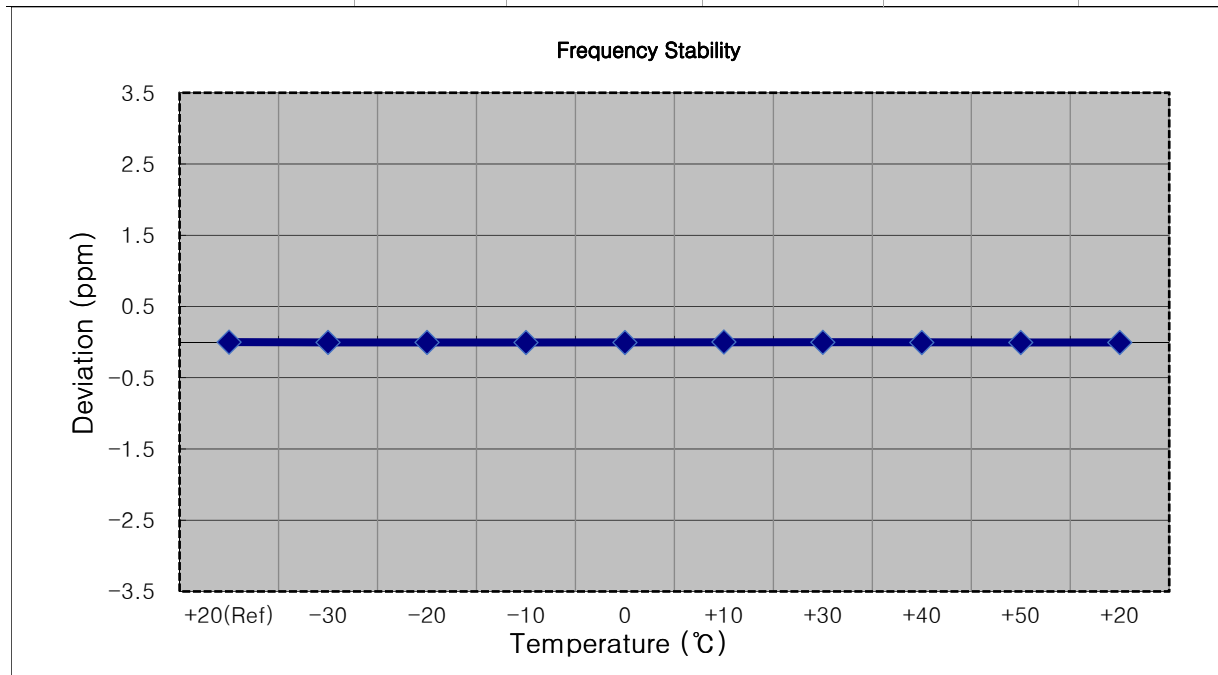
MODE: LTE 41(38)
 OPERATING FREQUENCY: 2503,500,000 Hz
 BANDWIDTH: 39725 (15 MHz)
 REFERENCE VOLTAGE: 12.000 VDC
 DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2503 499 993	0.0	0.000 000	0.000
100 %		-30	2503 499 982	-10.6	0.000 000	-0.004
100 %		-20	2503 499 983	-9.8	0.000 000	-0.004
100 %		-10	2503 499 983	-9.9	0.000 000	-0.004
100 %		0	2503 499 981	-12.0	0.000 000	-0.005
100 %		+10	2503 500 000	7.3	0.000 000	0.003
100 %		+30	2503 499 998	5.7	0.000 000	0.002
100 %		+40	2503 499 995	2.5	0.000 000	0.001
100 %		+50	2503 499 990	-2.8	0.000 000	-0.001
115 %		+20	2503 499 989	-3.9	0.000 000	-0.002
85 %		+20	2503 499 988	-4.4	0.000 000	-0.002



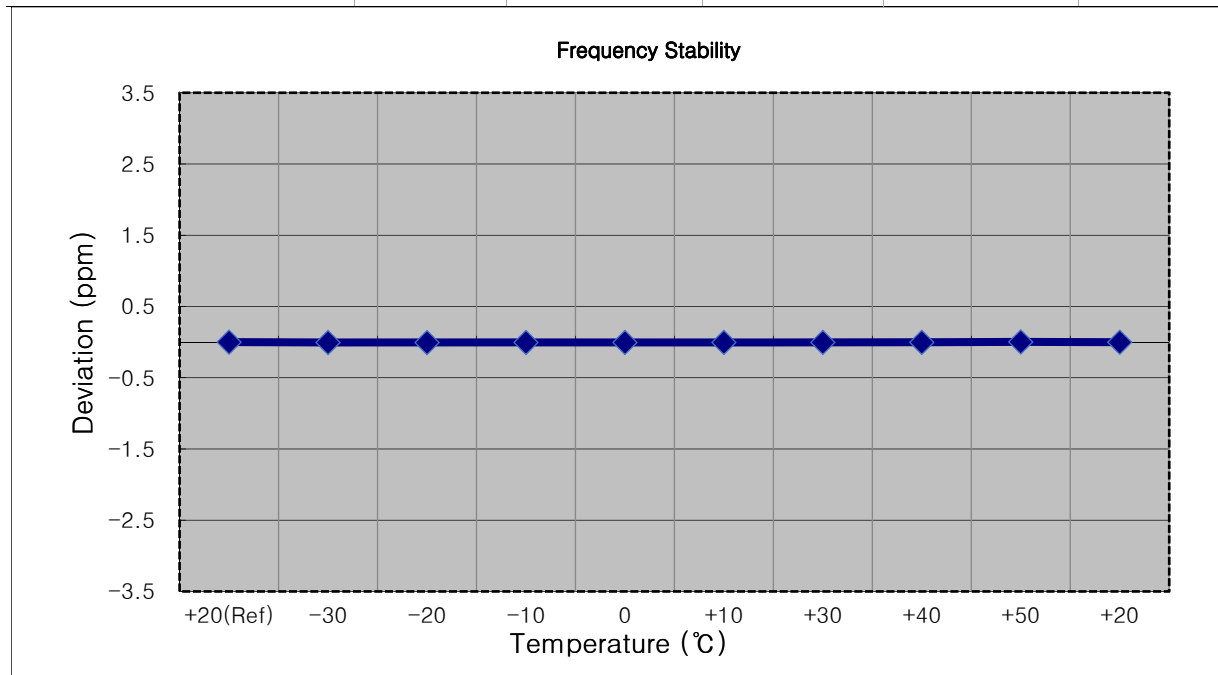
MODE: LTE 41(38)
 OPERATING FREQUENCY: 2506,000,000 Hz
 BANDWIDTH: 39750 (20 MHz)
 REFERENCE VOLTAGE: 12.000 VDC
 DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2505 999 992	0.0	0.000 000	0.000
100 %		-30	2505 999 982	-10.3	0.000 000	-0.004
100 %		-20	2505 999 981	-10.7	0.000 000	-0.004
100 %		-10	2505 999 977	-14.4	-0.000 001	-0.006
100 %		0	2505 999 978	-14.2	-0.000 001	-0.006
100 %		+10	2505 999 997	4.9	0.000 000	0.002
100 %		+30	2505 999 986	-5.7	0.000 000	-0.002
100 %		+40	2505 999 979	-12.8	-0.000 001	-0.005
100 %		+50	2505 999 979	-12.6	-0.000 001	-0.005
115 %		+20	2503 499 983	-10.0	0.000 000	-0.004
85 %		+20	2503 499 983	-9.8	0.000 000	-0.004



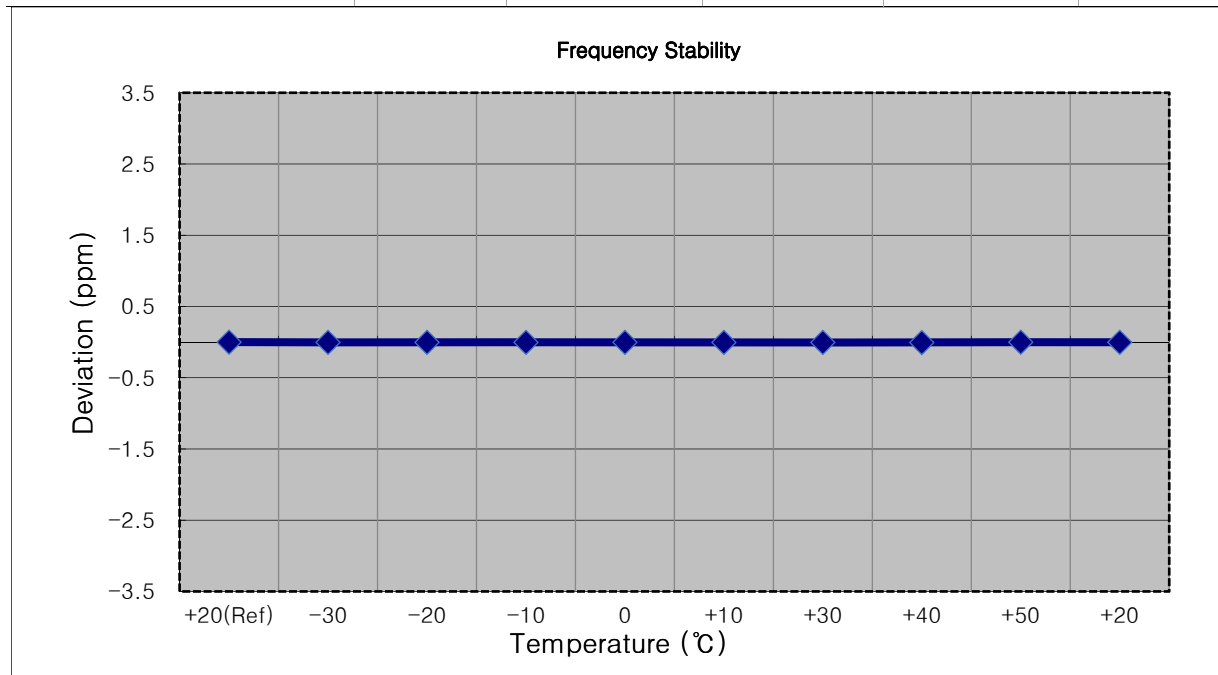
MODE: LTE 41(38)
 OPERATING FREQUENCY: 2593,000,000 Hz
 BANDWIDTH: 40620 (5 MHz)
 REFERENCE VOLTAGE: 12.000 VDC
 DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2592 999 985	0.0	0.000 000	0.000
100 %		-30	2592 999 972	-13.3	-0.000 001	-0.005
100 %		-20	2592 999 970	-15.2	-0.000 001	-0.006
100 %		-10	2592 999 973	-12.0	0.000 000	-0.005
100 %		0	2592 999 974	-11.2	0.000 000	-0.004
100 %		+10	2592 999 975	-10.5	0.000 000	-0.004
100 %		+30	2592 999 974	-10.6	0.000 000	-0.004
100 %		+40	2592 999 978	-7.5	0.000 000	-0.003
100 %		+50	2592 999 993	7.5	0.000 000	0.003
115 %		+20	2592 999 978	-6.9	0.000 000	-0.003
85 %		+20	2592 999 976	-8.8	0.000 000	-0.004



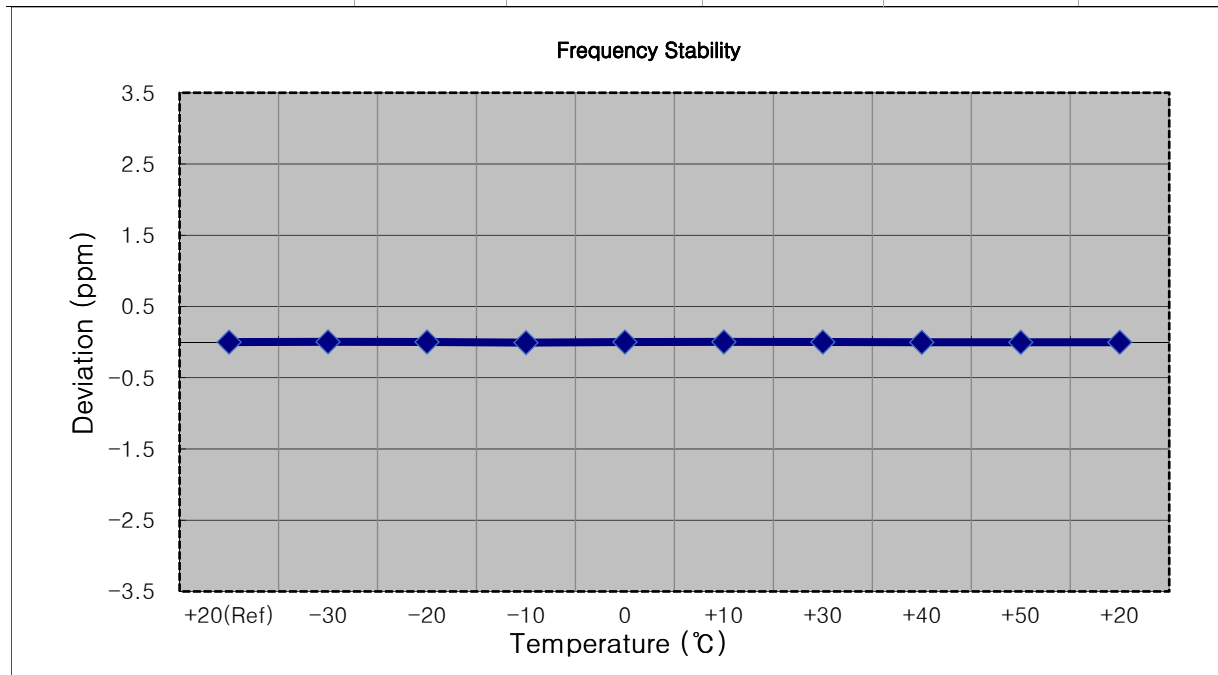
■ MODE: LTE 41(38)
 ■ OPERATING FREQUENCY: 2593,000,000 Hz
 ■ BANDWIDTH: 40620 (10 MHz)
 ■ REFERENCE VOLTAGE: 12.000 VDC
 ■ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2592 999 993	0.0	0.000 000	0.000
100 %		-30	2592 999 984	-8.5	0.000 000	-0.003
100 %		-20	2592 999 985	-8.3	0.000 000	-0.003
100 %		-10	2592 999 985	-8.0	0.000 000	-0.003
100 %		0	2592 999 985	-7.8	0.000 000	-0.003
100 %		+10	2592 999 983	-9.7	0.000 000	-0.004
100 %		+30	2592 999 982	-11.0	0.000 000	-0.004
100 %		+40	2592 999 977	-15.4	-0.000 001	-0.006
100 %		+50	2592 999 990	-2.6	0.000 000	-0.001
115 %		+20	2592 999 986	-6.5	0.000 000	-0.003
85 %		+20	2592 999 988	-4.7	0.000 000	-0.002



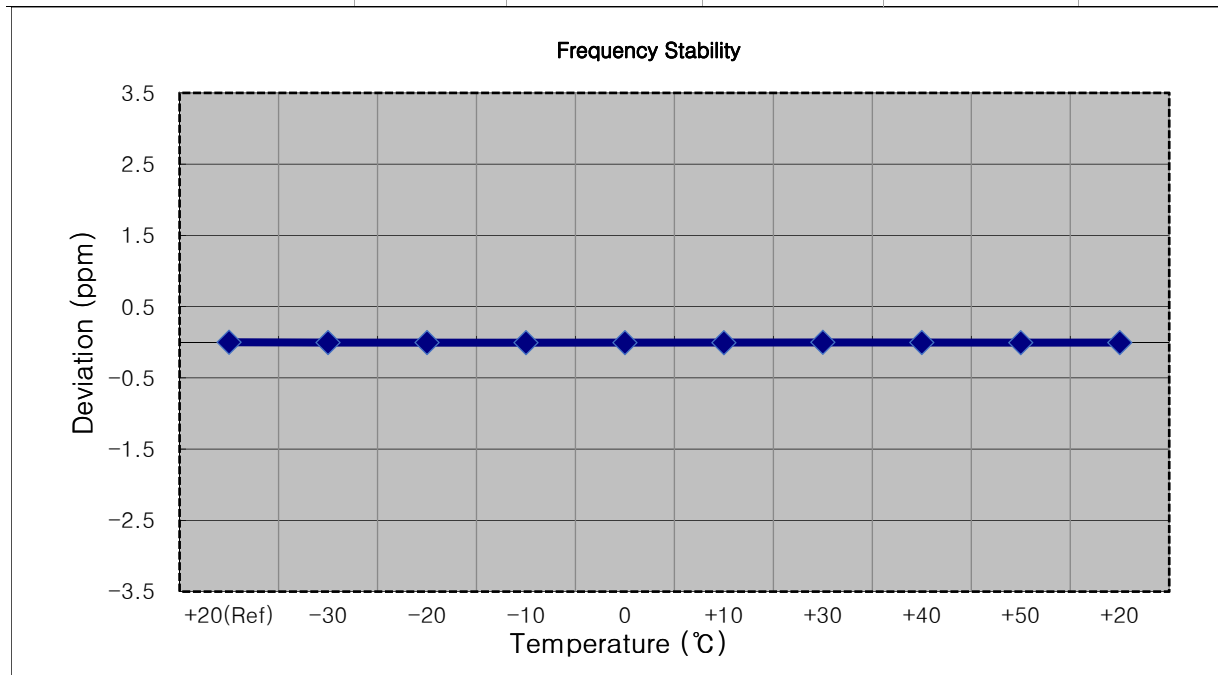
■ MODE: LTE 41(38)
 ■ OPERATING FREQUENCY: 2593,000,000 Hz
 ■ BANDWIDTH: 40620 (15 MHz)
 ■ REFERENCE VOLTAGE: 12.000 VDC
 ■ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2593 000 009	0.0	0.000 000	0.000
100 %		-30	2593 000 019	9.6	0.000 000	0.004
100 %		-20	2593 000 014	4.6	0.000 000	0.002
100 %		-10	2592 999 991	-18.0	-0.000 001	-0.007
100 %		0	2593 000 012	3.0	0.000 000	0.001
100 %		+10	2593 000 017	7.7	0.000 000	0.003
100 %		+30	2593 000 013	4.1	0.000 000	0.002
100 %		+40	2593 000 004	-5.3	0.000 000	-0.002
100 %		+50	2593 000 003	-5.7	0.000 000	-0.002
115 %		+20	2593 000 003	-6.4	0.000 000	-0.003
85 %		+20	2593 000 004	-4.7	0.000 000	-0.002



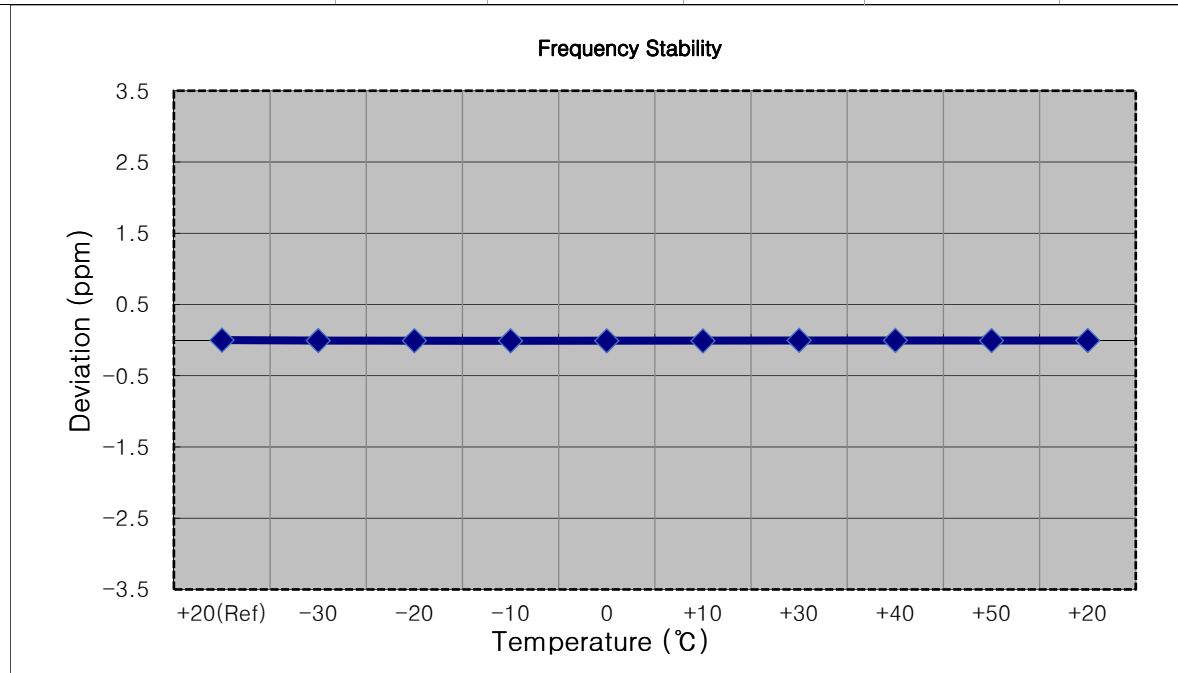
- ▣ MODE: LTE 41(38)
- ▣ OPERATING FREQUENCY: 2593,000,000 Hz
- ▣ BANDWIDTH: 40620 (20 MHz)
- ▣ REFERENCE VOLTAGE: 12.000 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2592 999 989	0.0	0.000 000	0.000
100 %		-30	2592 999 977	-11.9	0.000 000	-0.005
100 %		-20	2592 999 978	-11.8	0.000 000	-0.005
100 %		-10	2592 999 975	-14.8	-0.000 001	-0.006
100 %		0	2592 999 975	-14.6	-0.000 001	-0.006
100 %		+10	2592 999 972	-17.6	-0.000 001	-0.007
100 %		+30	2592 999 988	-1.6	0.000 000	-0.001
100 %		+40	2592 999 980	-9.3	0.000 000	-0.004
100 %		+50	2592 999 975	-14.2	-0.000 001	-0.005
115 %		+20	2592 999 980	-9.7	0.000 000	-0.004
85 %		+20	2592 999 979	-10.1	0.000 000	-0.004



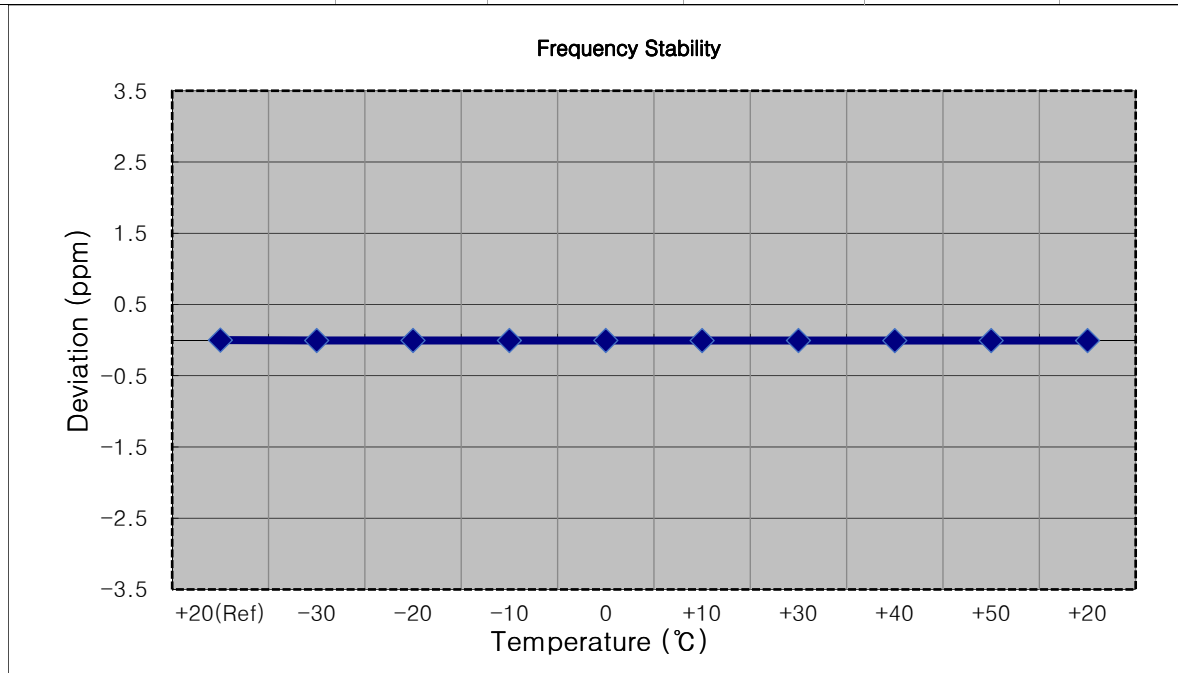
MODE: LTE 41(38)
 OPERATING FREQUENCY: 2687,500,000 Hz
 BANDWIDTH: 41565 (5 MHz)
 REFERENCE VOLTAGE: 12.000 VDC
 DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2687 499 986	0.0	0.000 000	0.000
100 %		-30	2687 499 969	-16.9	-0.000 001	-0.006
100 %		-20	2687 499 966	-19.9	-0.000 001	-0.007
100 %		-10	2687 499 962	-23.7	-0.000 001	-0.009
100 %		0	2687 499 961	-24.5	-0.000 001	-0.009
100 %		+10	2687 499 958	-28.0	-0.000 001	-0.010
100 %		+30	2687 499 977	-8.9	0.000 000	-0.003
100 %		+40	2687 499 975	-11.0	0.000 000	-0.004
100 %		+50	2687 499 970	-15.7	-0.000 001	-0.006
115 %		+20	2687 499 974	-11.4	0.000 000	-0.005
85 %		+20	2687 499 974	-12.0	0.000 000	-0.005



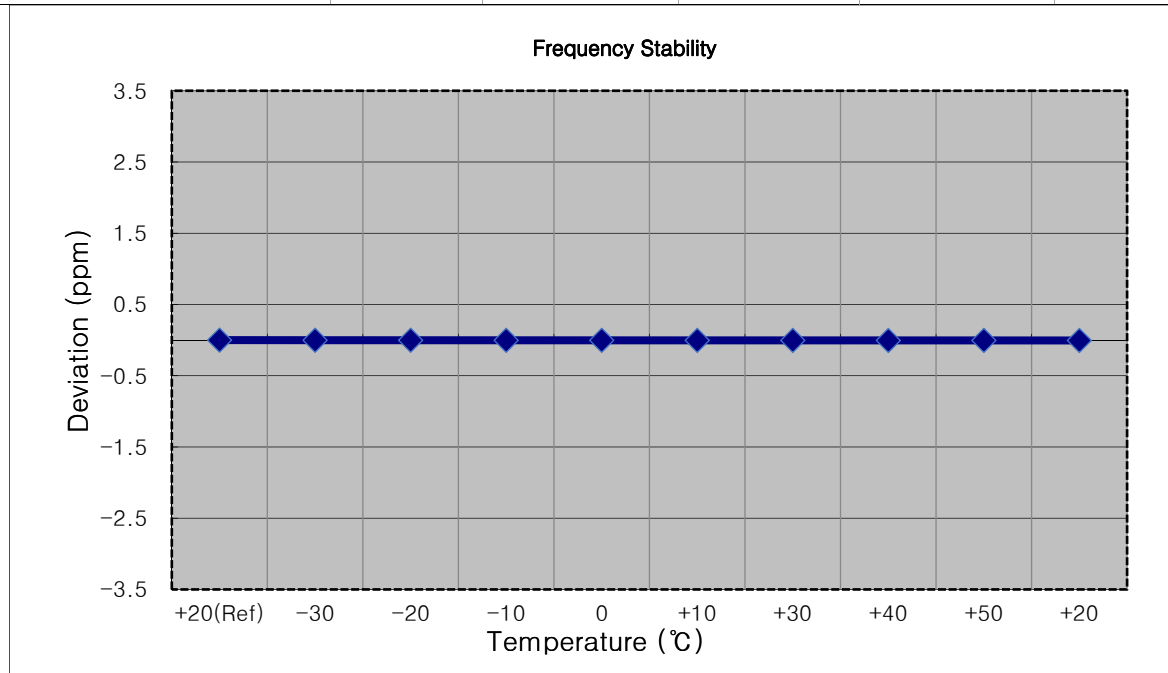
MODE: LTE 41(38)
 OPERATING FREQUENCY: 2685,000,000 Hz
 BANDWIDTH: 41540 (10 MHz)
 REFERENCE VOLTAGE: 12.000 VDC
 DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2684 999 991	0.0	0.000 000	0.000
100 %		-30	2684 999 977	-14.3	-0.000 001	-0.005
100 %		-20	2684 999 978	-13.1	0.000 000	-0.005
100 %		-10	2684 999 976	-15.0	-0.000 001	-0.006
100 %		0	2684 999 979	-12.0	0.000 000	-0.004
100 %		+10	2684 999 974	-17.1	-0.000 001	-0.006
100 %		+30	2684 999 976	-15.3	-0.000 001	-0.006
100 %		+40	2684 999 974	-17.8	-0.000 001	-0.007
100 %		+50	2684 999 975	-16.2	-0.000 001	-0.006
115 %		+20	2687 499 974	-11.9	0.000 000	-0.005
85 %		+20	2687 499 975	-11.3	0.000 000	-0.005



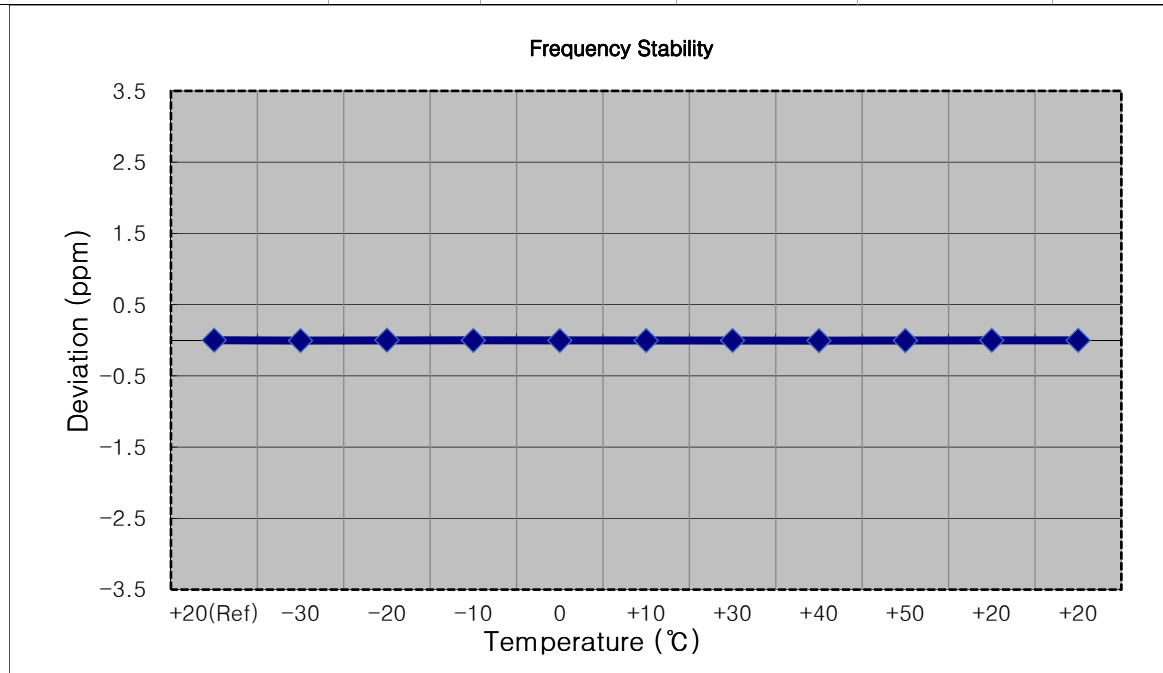
MODE:	<u>LTE 41(38)</u>
OPERATING FREQUENCY:	<u>2682,500,000 Hz</u>
BANDWIDTH:	<u>41515 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>12.000 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2682 499 997	0.0	0.000 000	0.000
100 %		-30	2682 499 993	-3.6	0.000 000	-0.001
100 %		-20	2682 499 992	-5.3	0.000 000	-0.002
100 %		-10	2682 499 991	-6.5	0.000 000	-0.002
100 %		0	2682 499 990	-7.1	0.000 000	-0.003
100 %		+10	2682 499 988	-9.0	0.000 000	-0.003
100 %		+30	2682 499 987	-9.9	0.000 000	-0.004
100 %		+40	2682 499 985	-12.3	0.000 000	-0.005
100 %		+50	2682 499 986	-11.3	0.000 000	-0.004
115 %		+20	2682 499 990	-6.7	0.000 000	-0.003
85 %		+20	2682 499 992	-5.3	0.000 000	-0.002



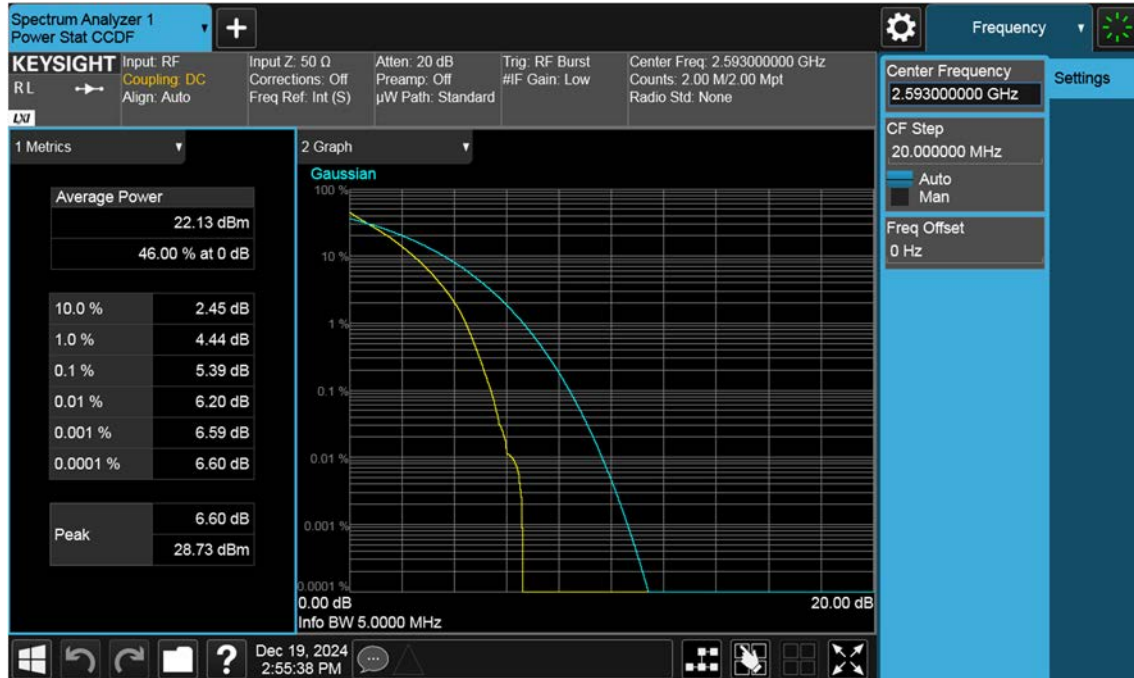
- ▣ MODE: LTE 41(38)
- ▣ OPERATING FREQUENCY: 2680,000,000 Hz
- ▣ BANDWIDTH: 41490 (20 MHz)
- ▣ REFERENCE VOLTAGE: 12.000 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	12.000	+20(Ref)	2679 999 987	0.0	0.000 000	0.000
100 %		-30	2679 999 975	-11.5	0.000 000	-0.004
100 %		-20	2679 999 989	2.3	0.000 000	0.001
100 %		-10	2679 999 982	-5.3	0.000 000	-0.002
100 %		0	2679 999 976	-11.1	0.000 000	-0.004
100 %		+10	2679 999 977	-9.6	0.000 000	-0.004
100 %		+30	2679 999 979	-7.8	0.000 000	-0.003
100 %		+40	2679 999 974	-12.8	0.000 000	-0.005
100 %		+50	2679 999 976	-11.4	0.000 000	-0.004
115 %		+20	2682 499 993	-4.1	0.000 000	-0.002
85 %		+20	2682 499 993	-3.8	0.000 000	-0.002

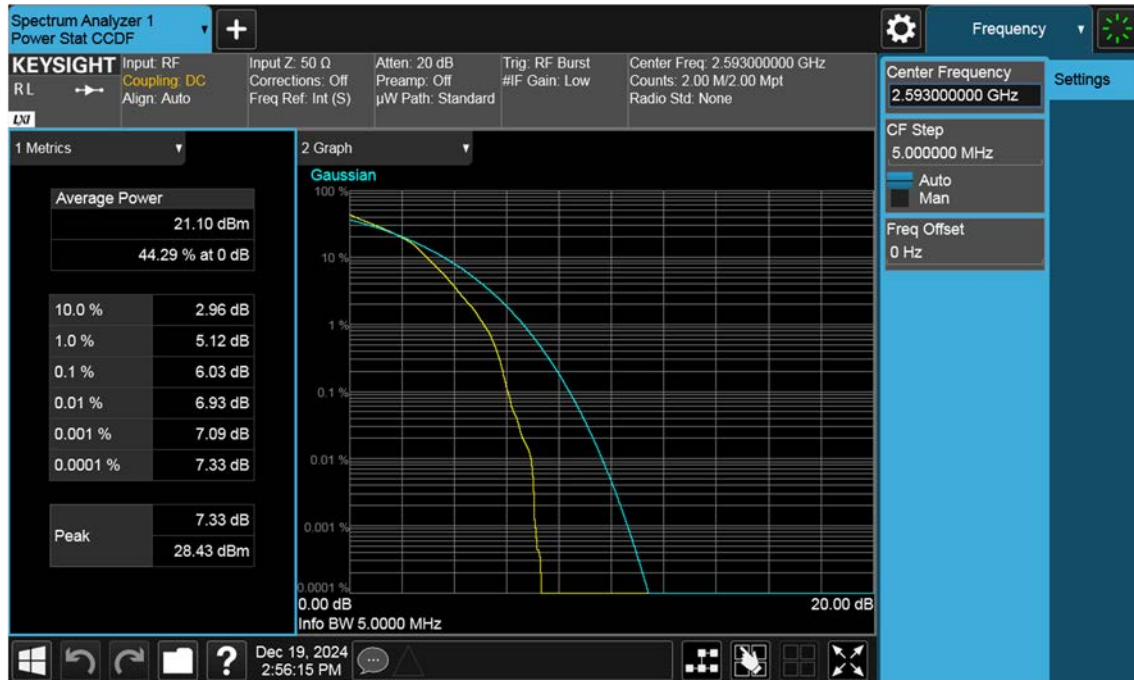


9. TEST PLOTS

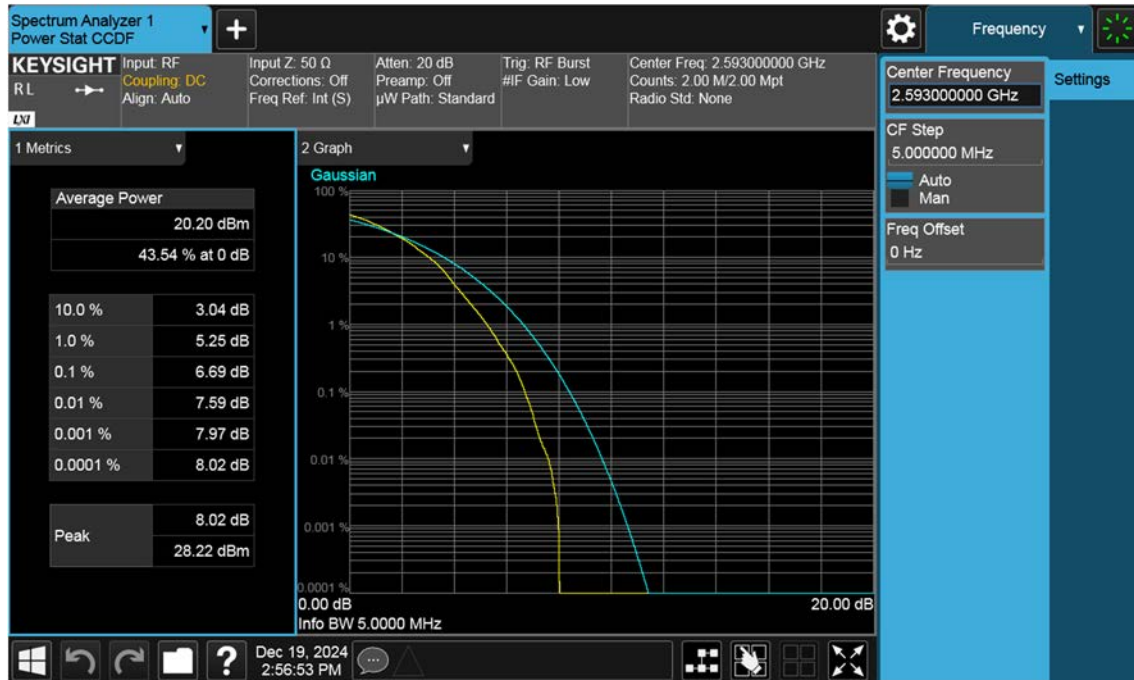
LTE B41_5 M_PAR_Mid_QPSK_FullRB



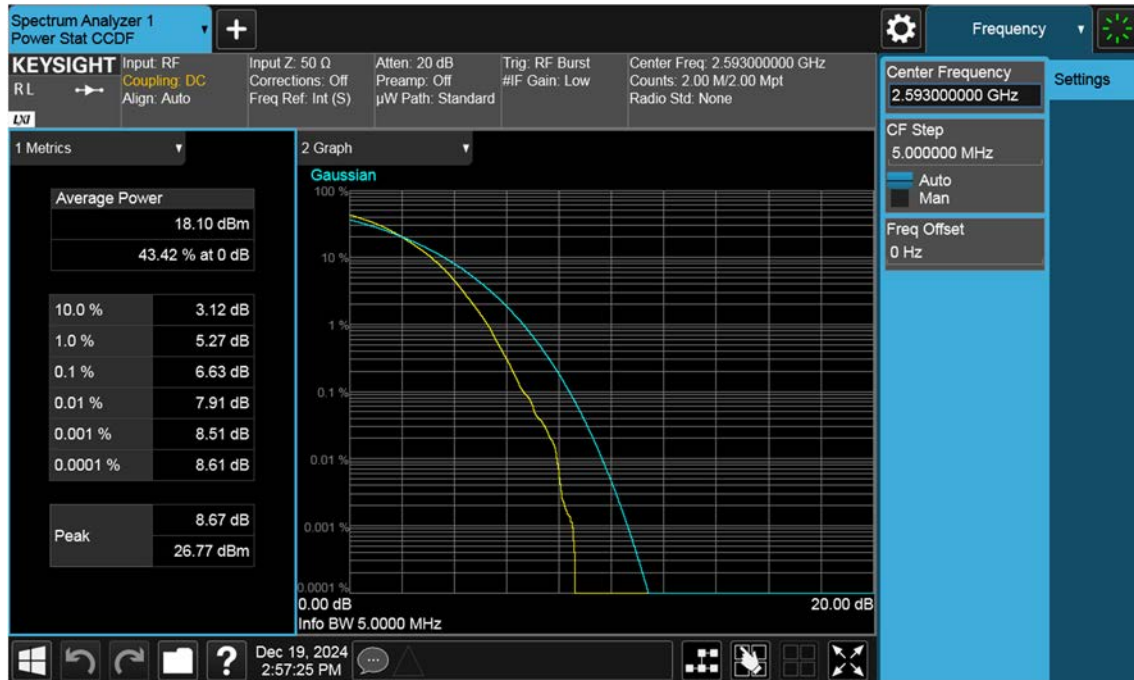
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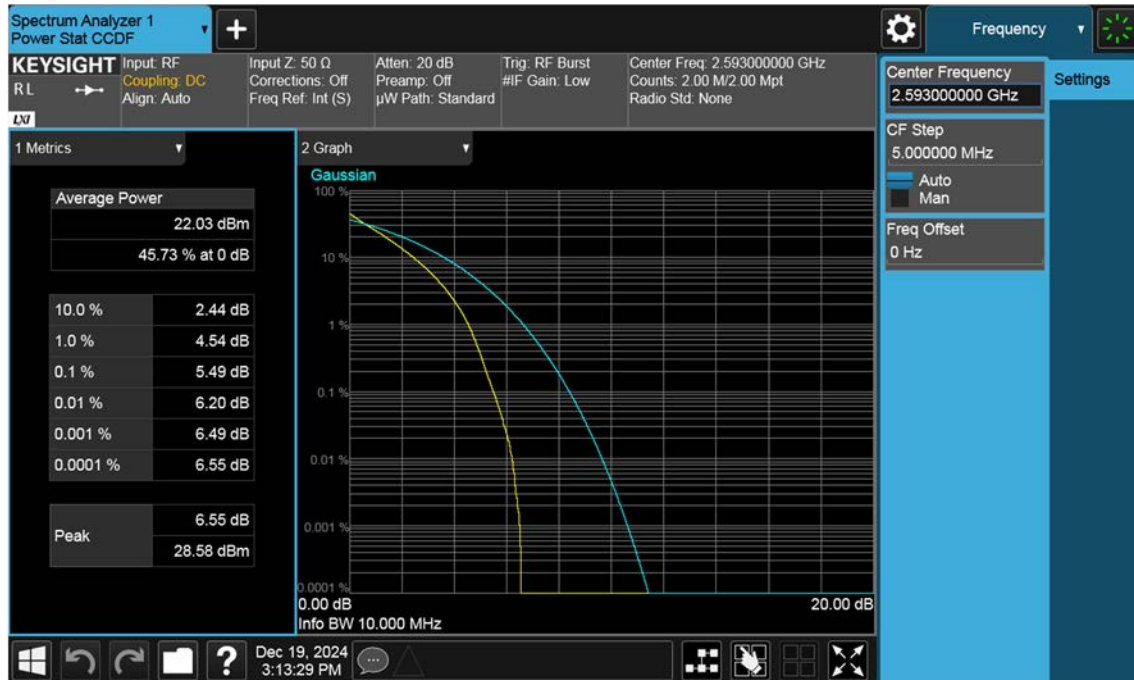
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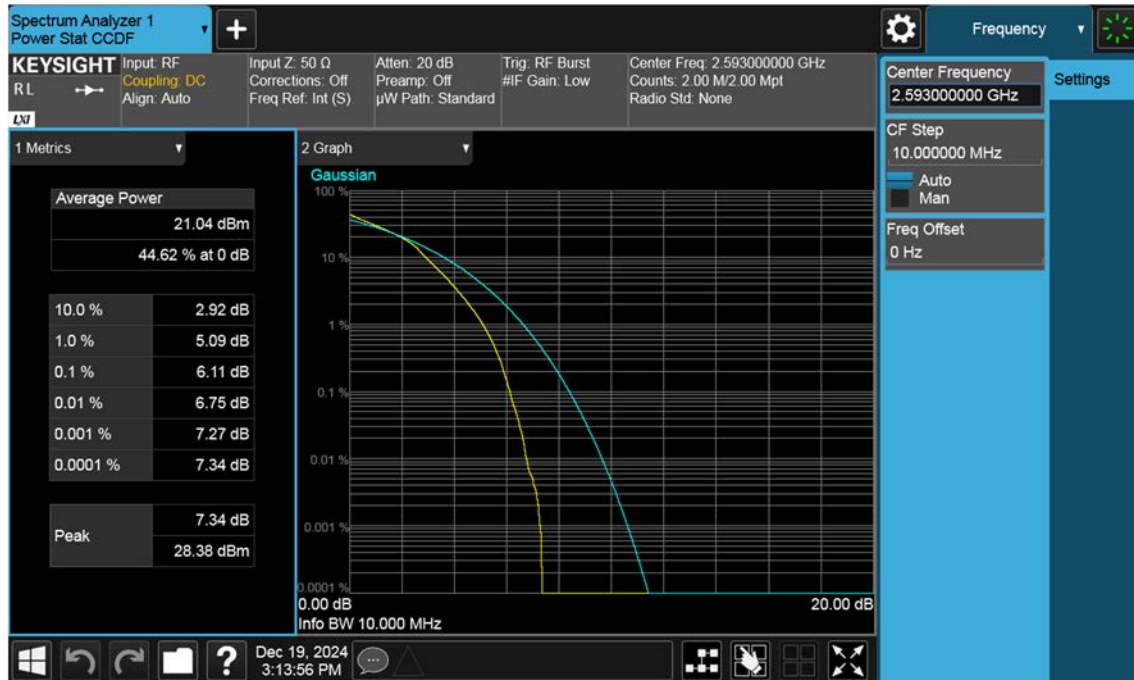
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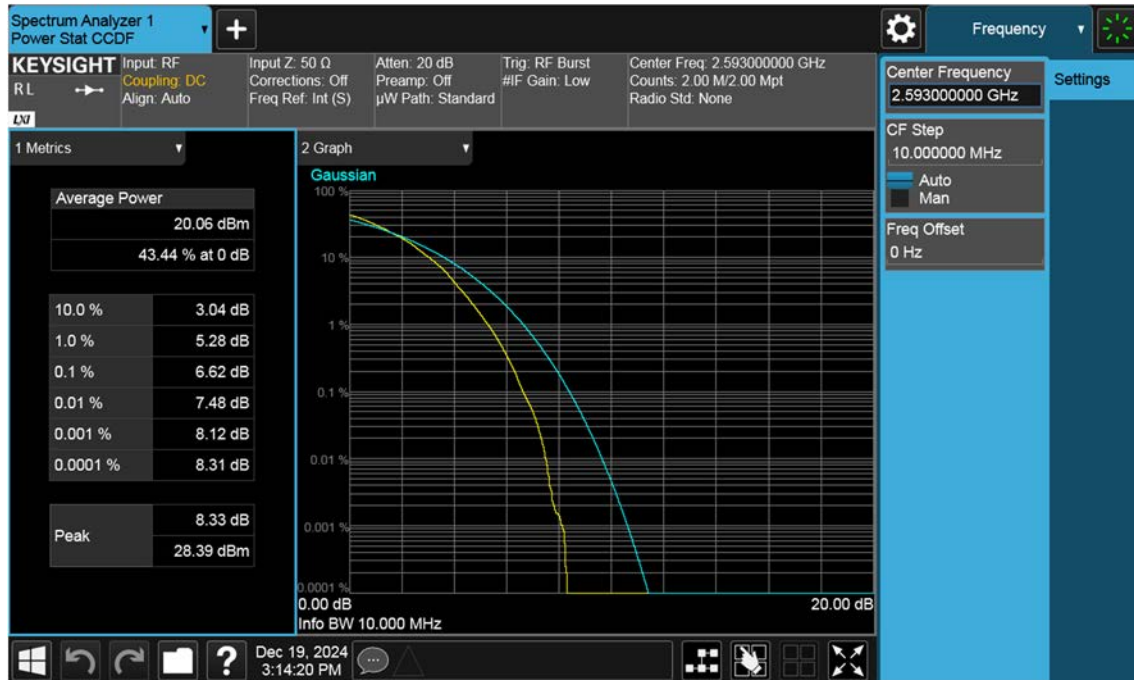
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LTE B41_10 M_PAR_Mid_16QAM_FullRB



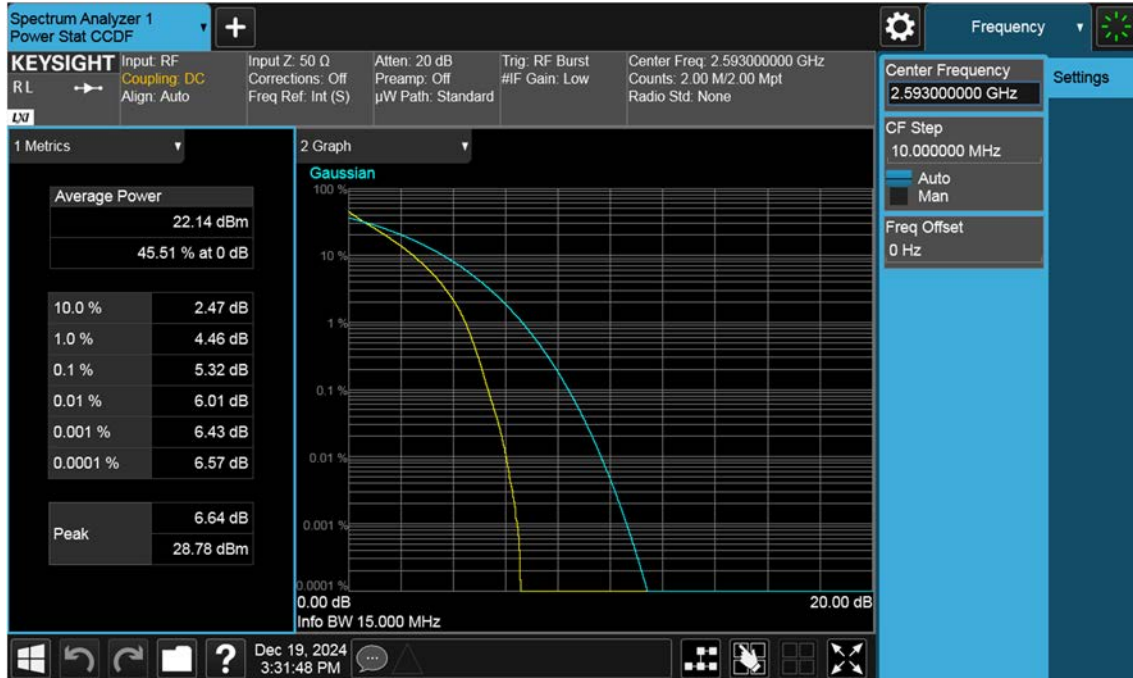
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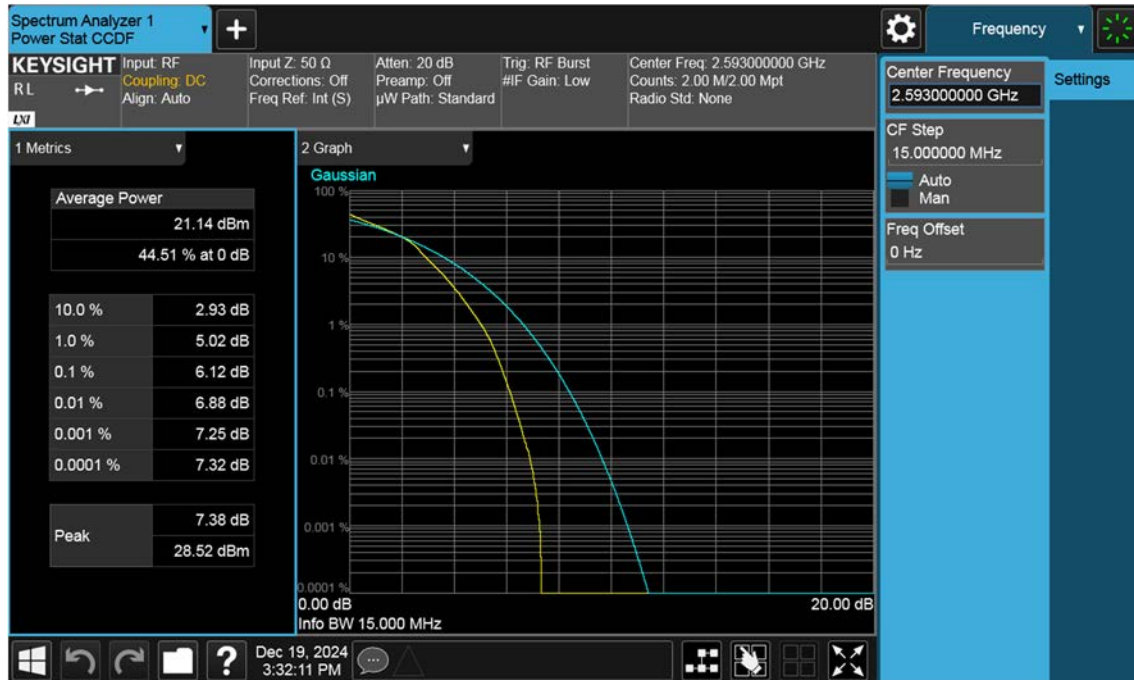
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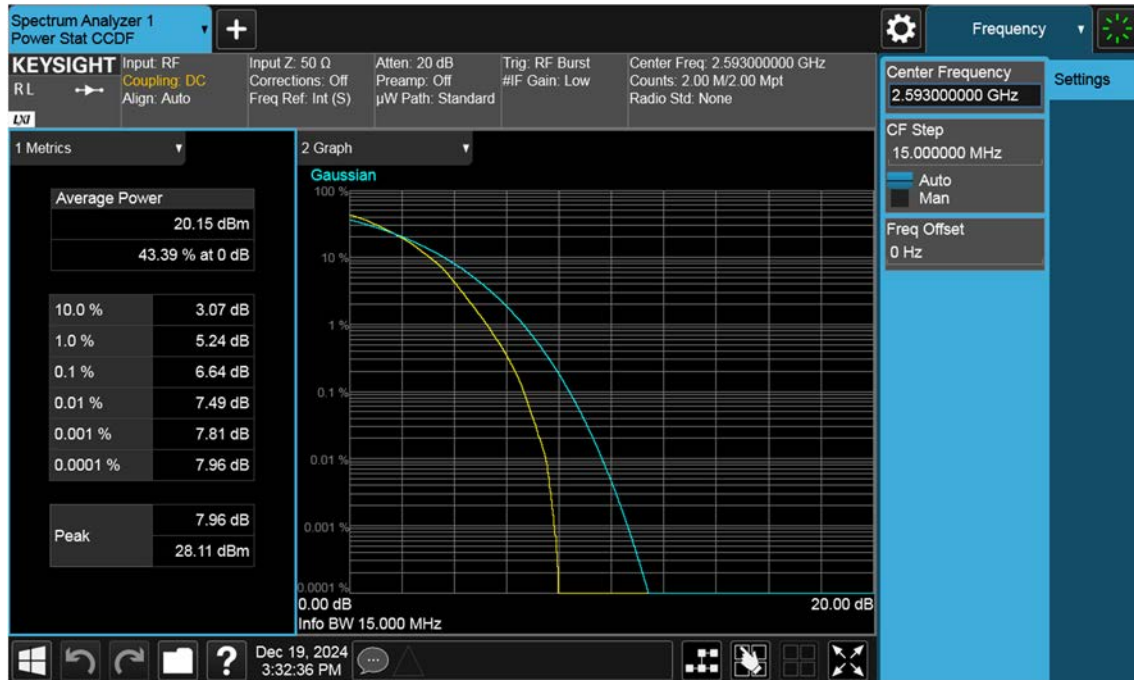
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LTE B41_15 M_PAR_Mid_16QAM_FullRB



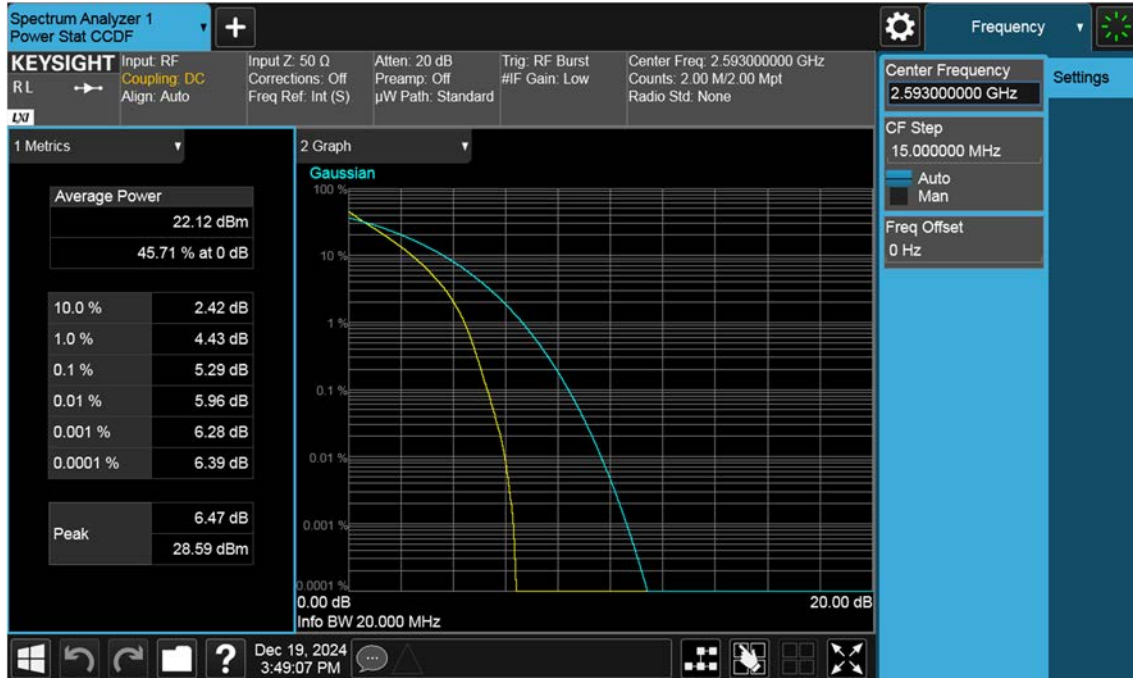
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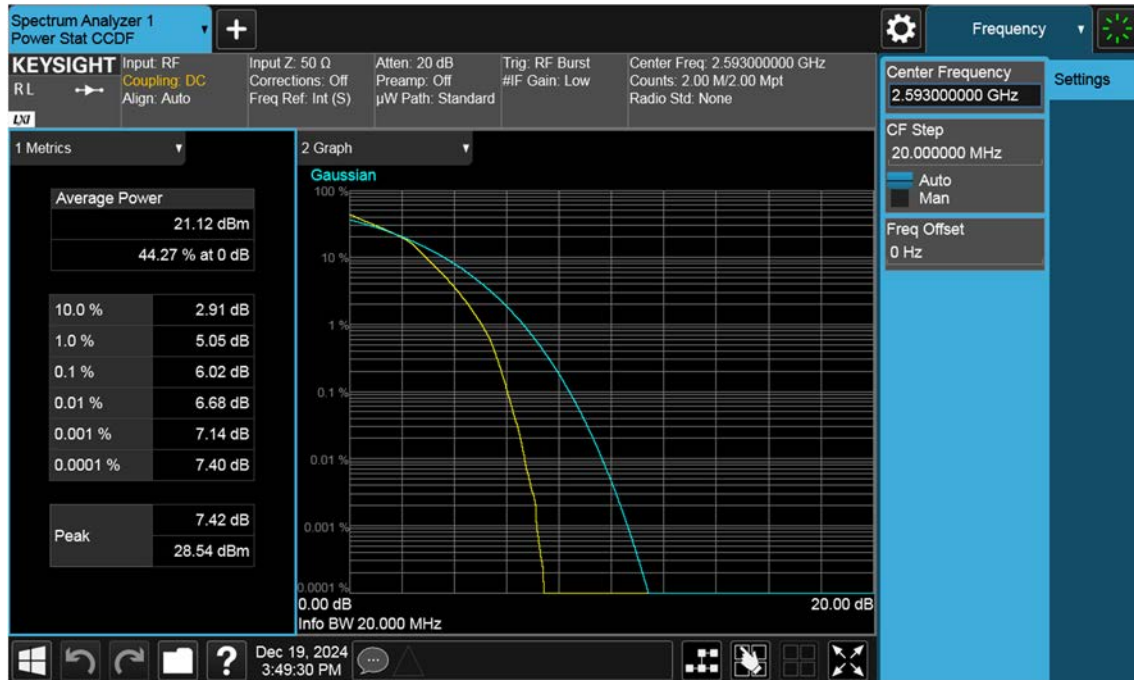
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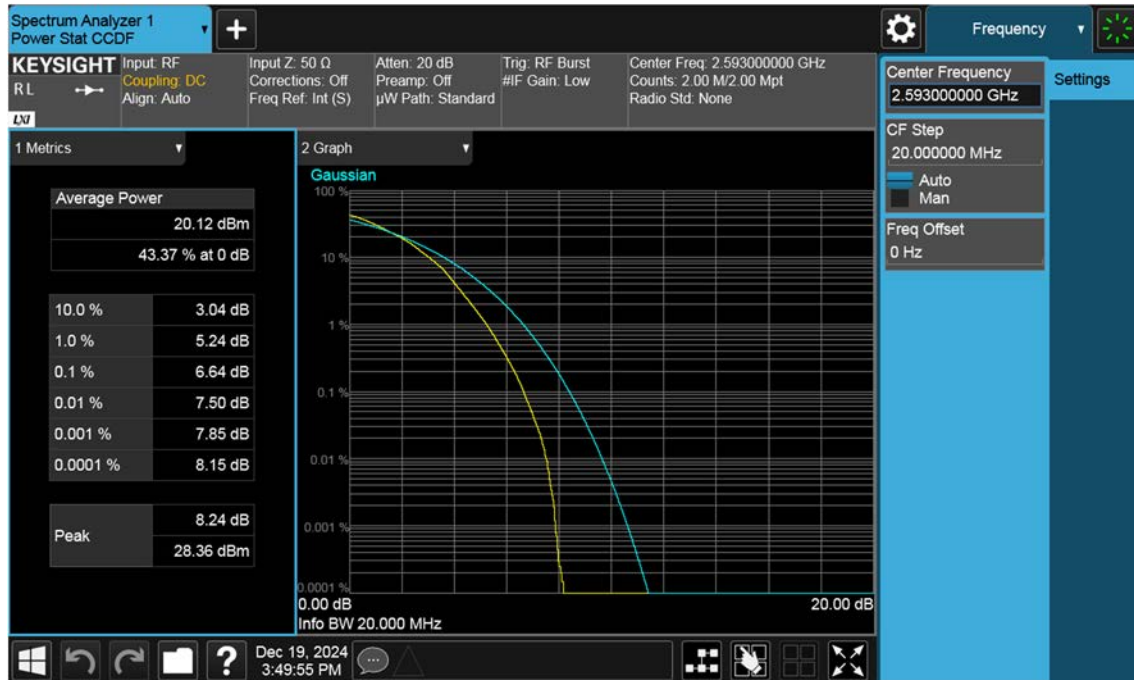
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LTE B41_20 M_PAR_Mid_16QAM_FullRB



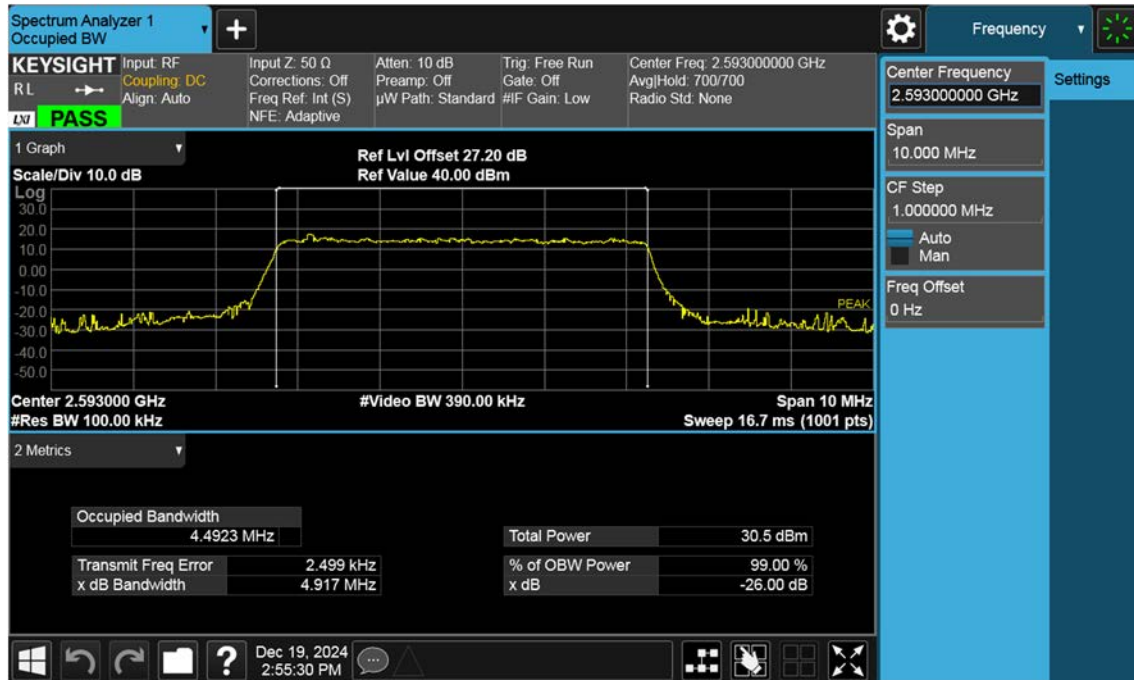
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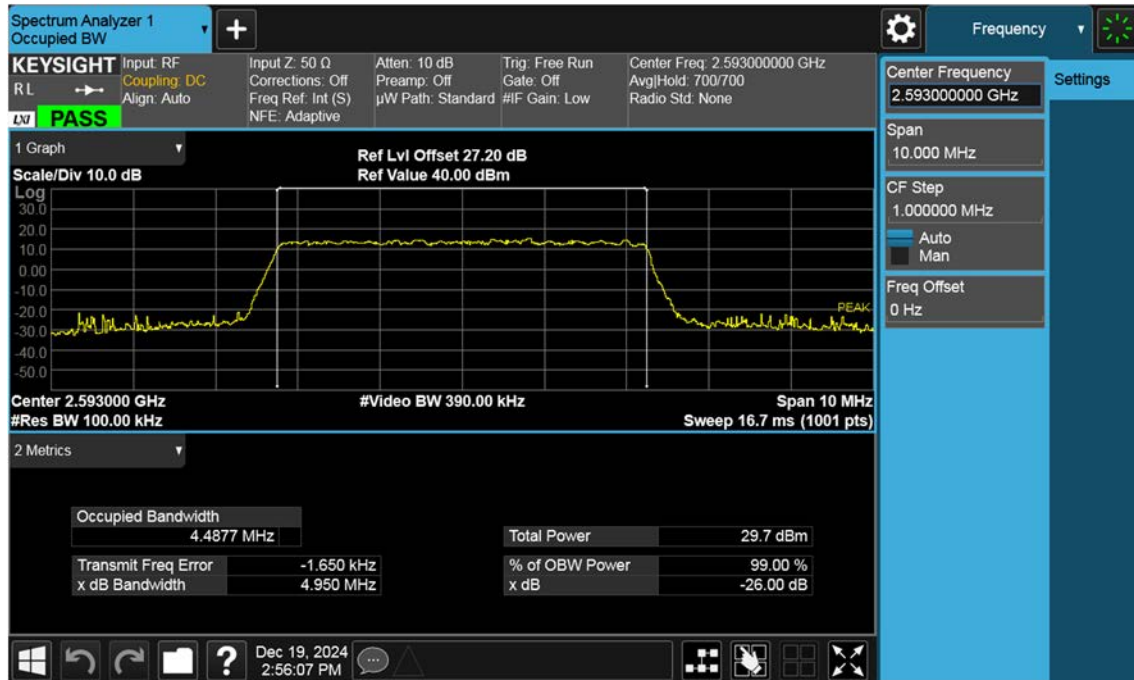
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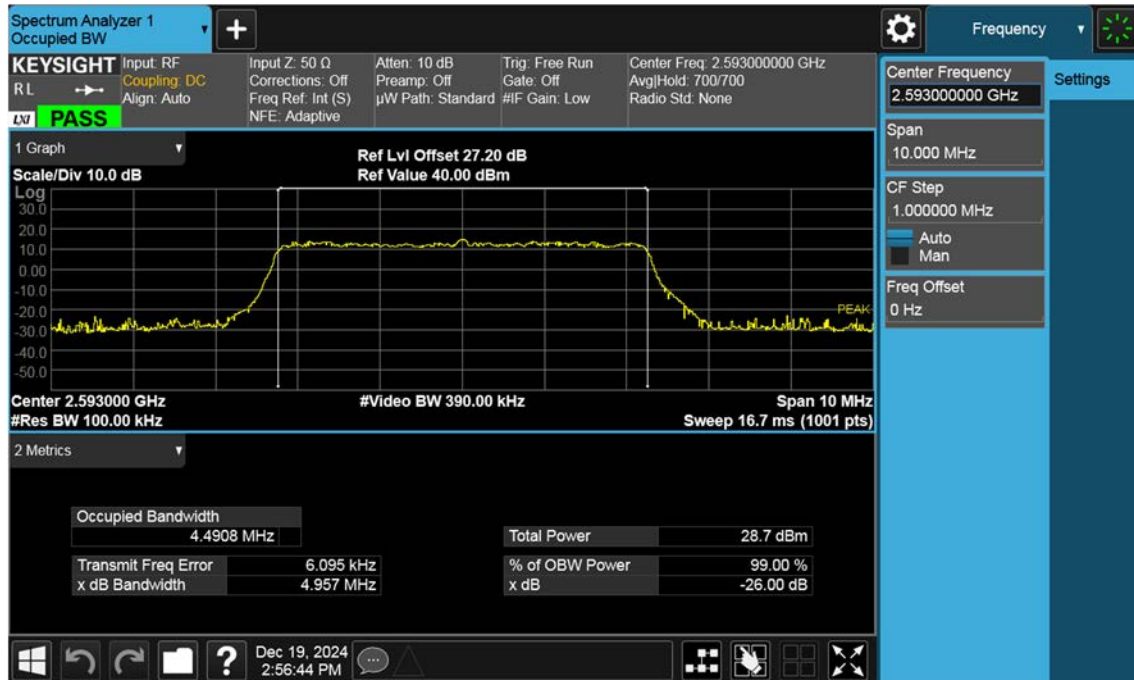
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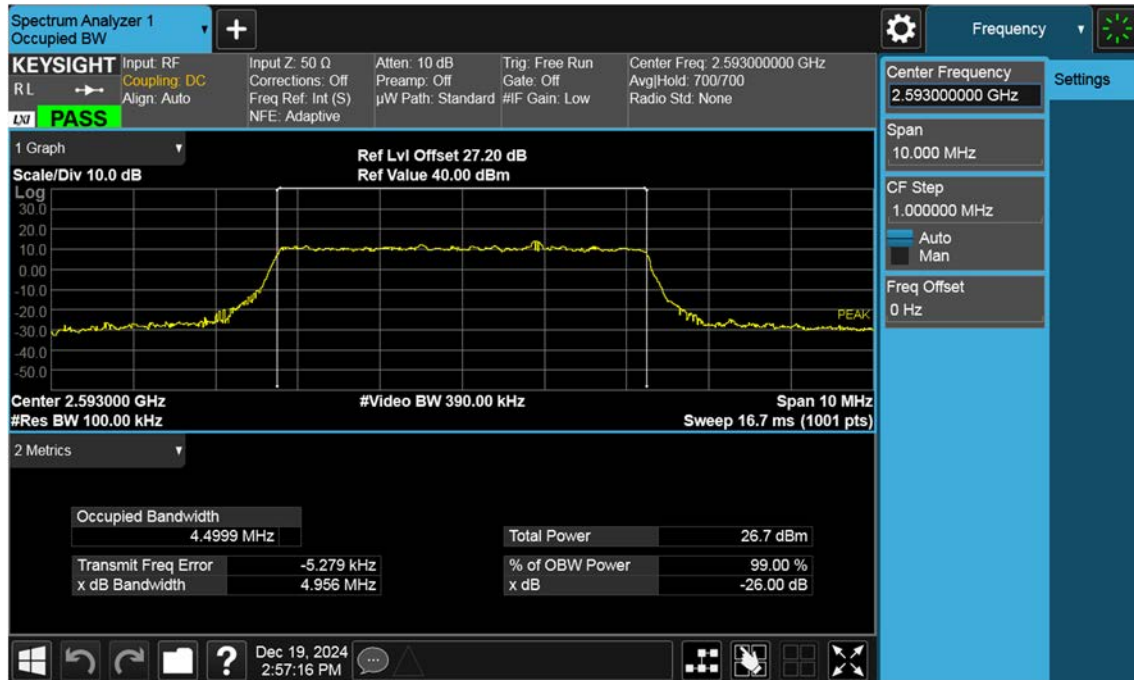
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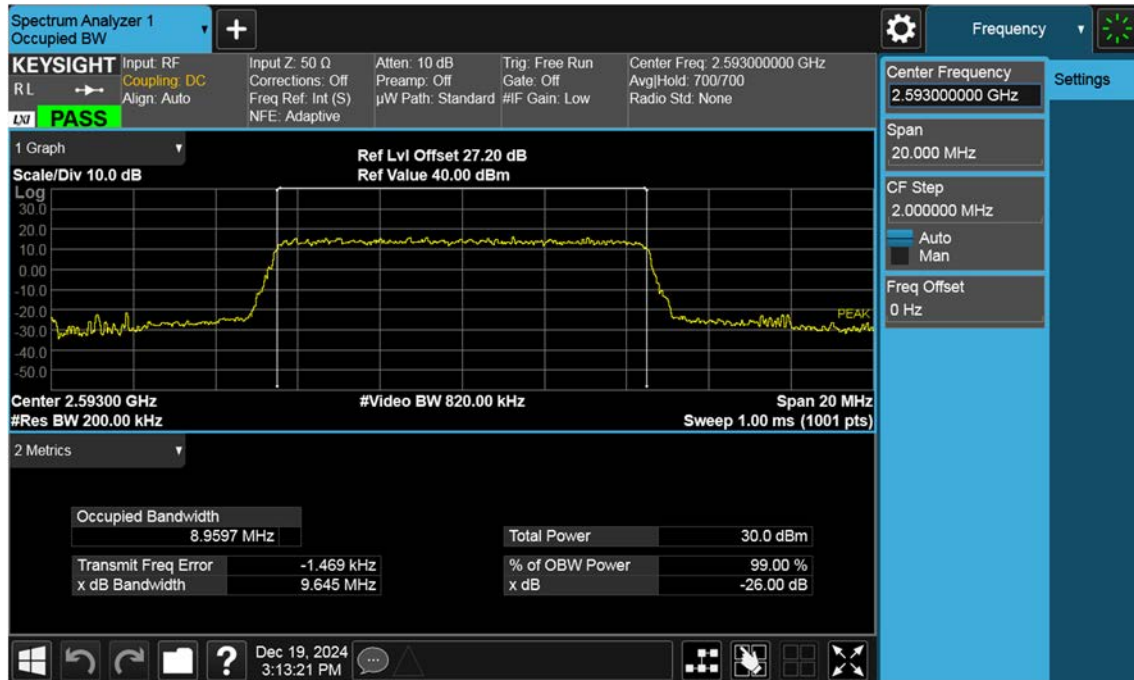
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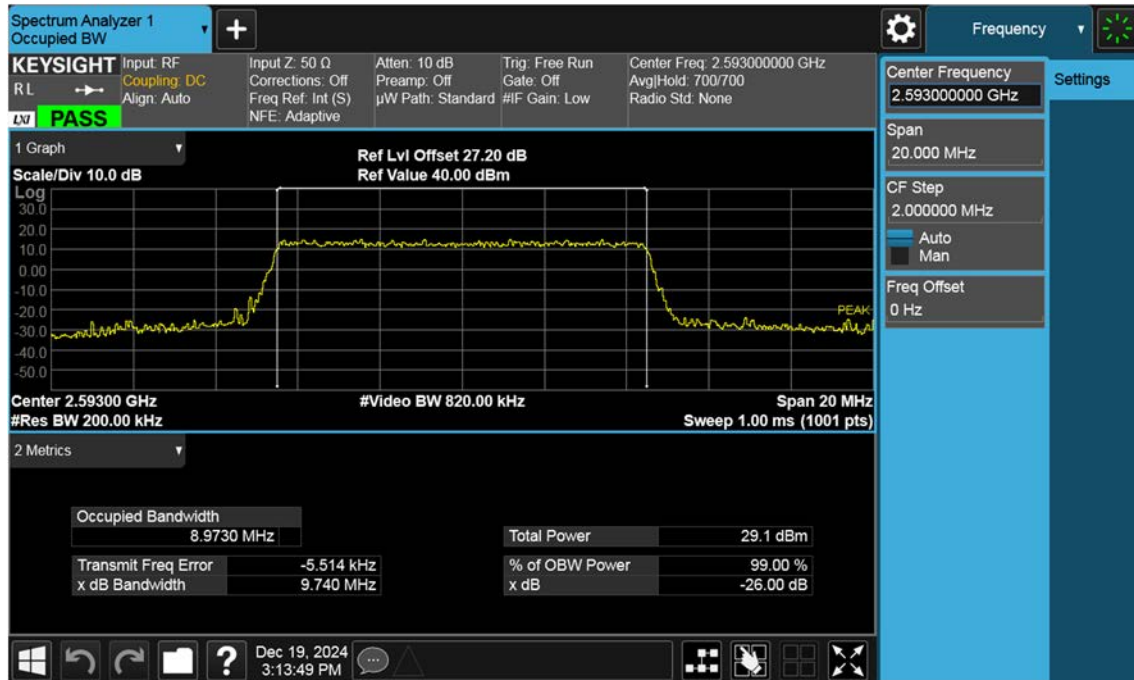
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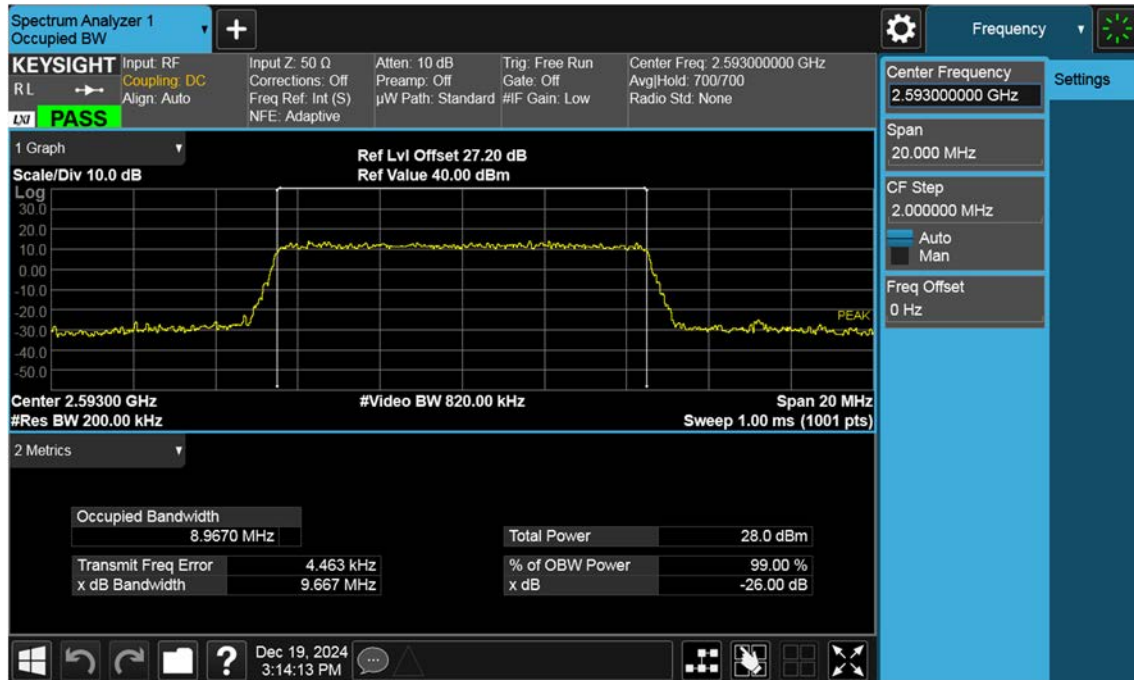
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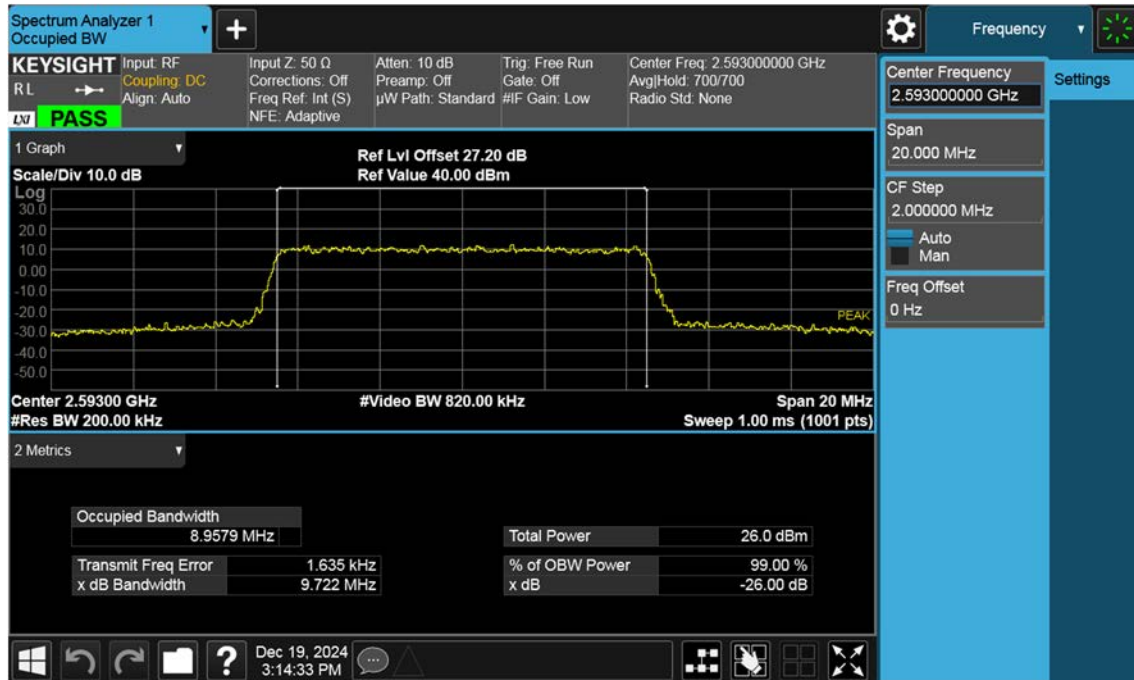
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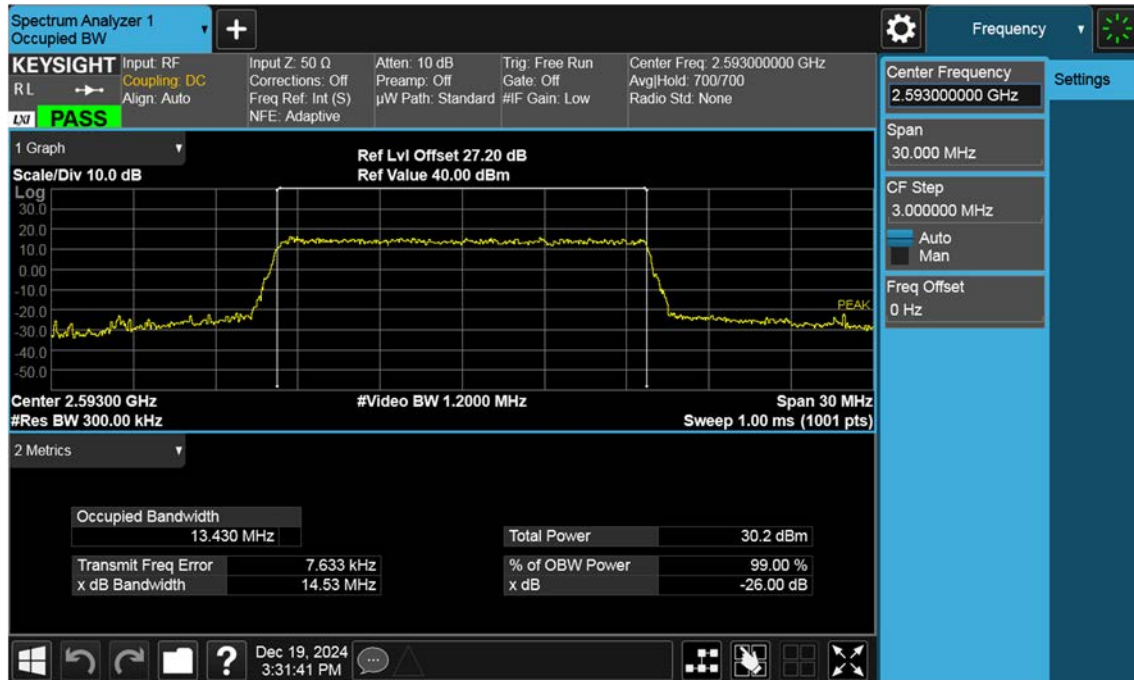
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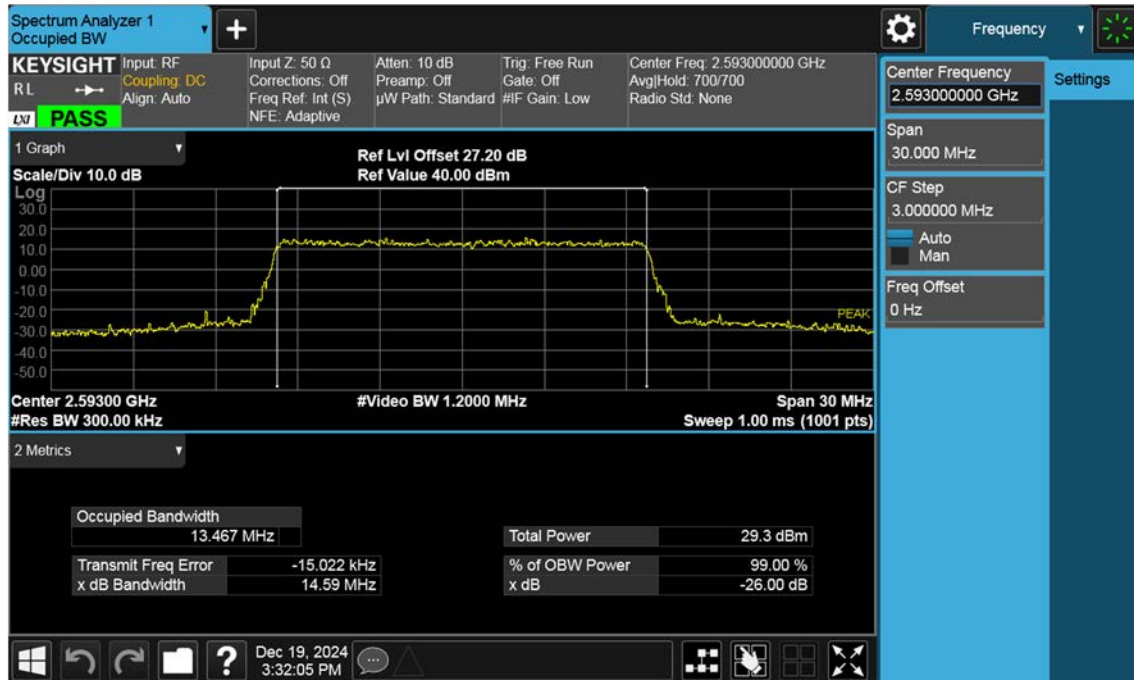
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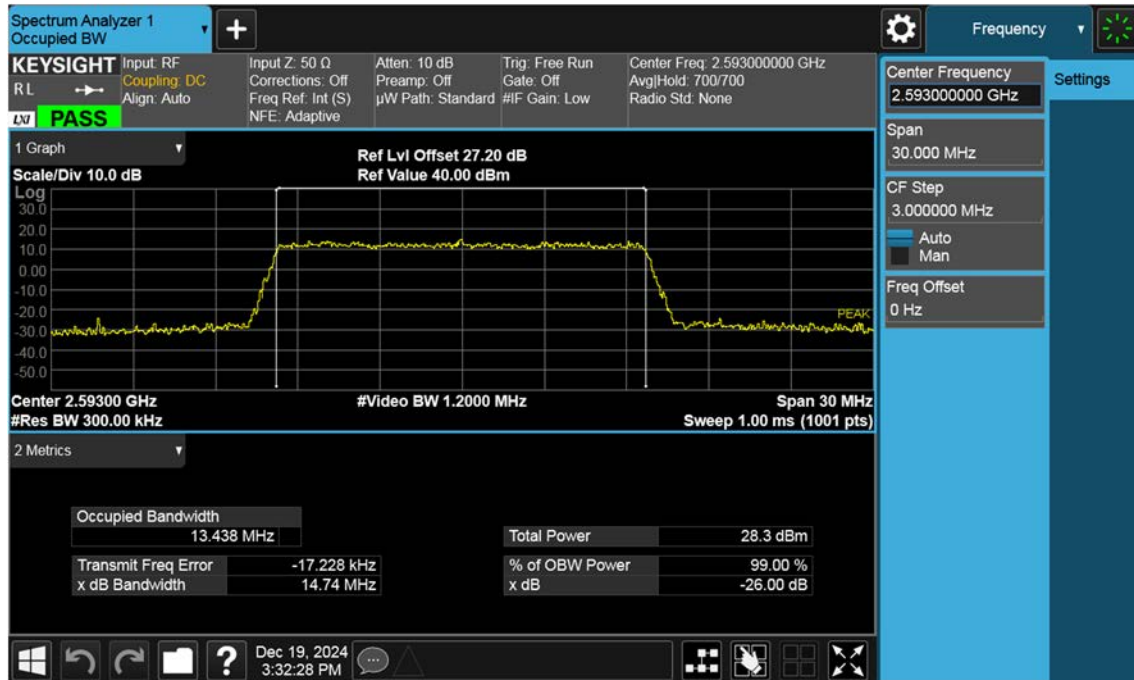
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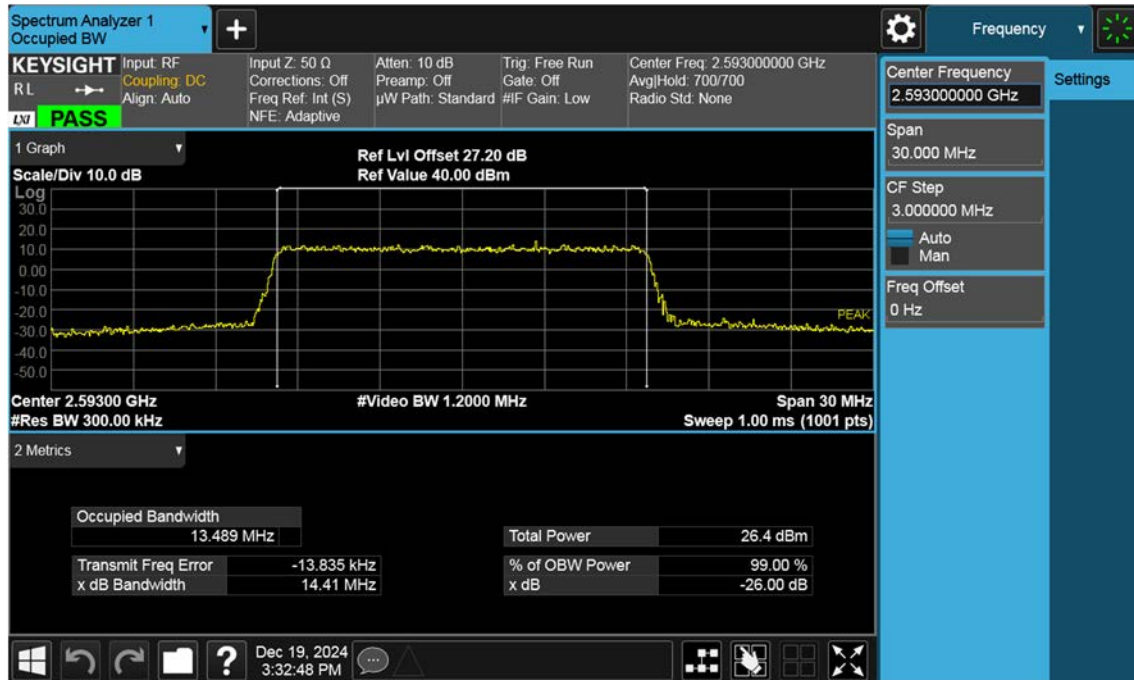
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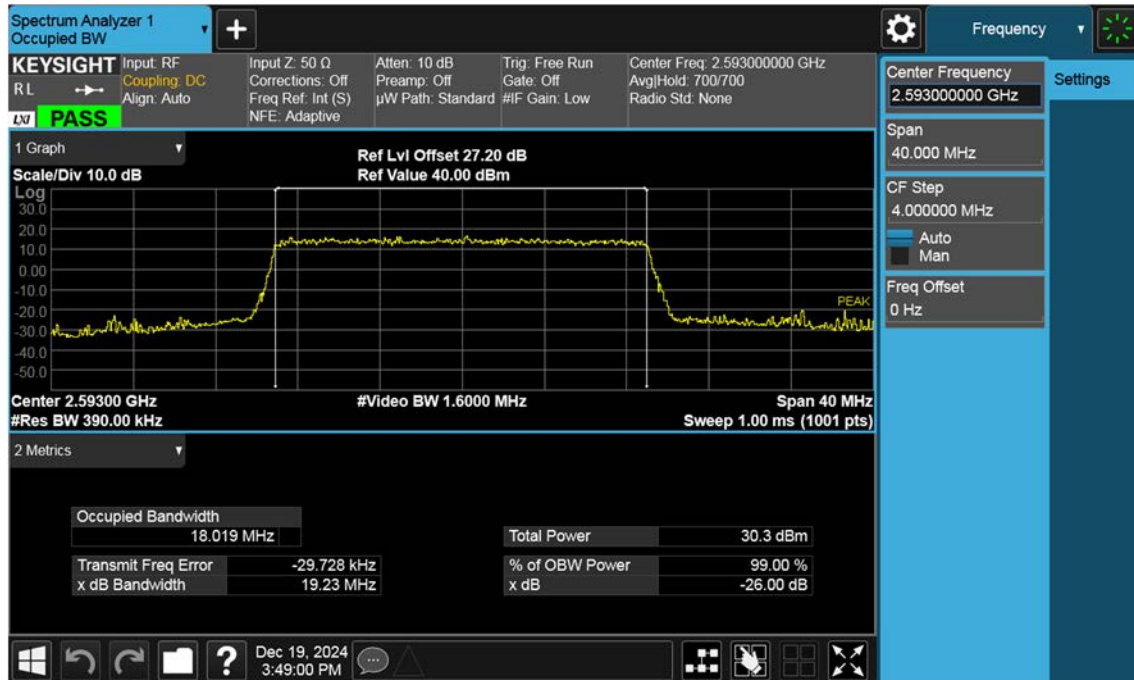
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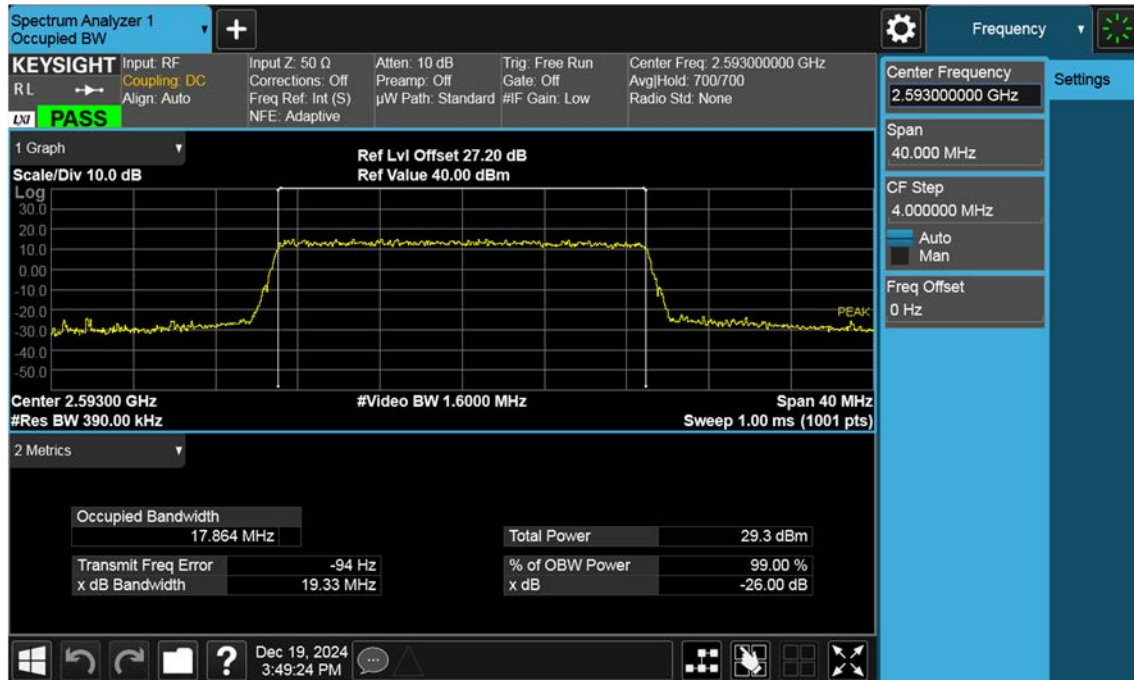
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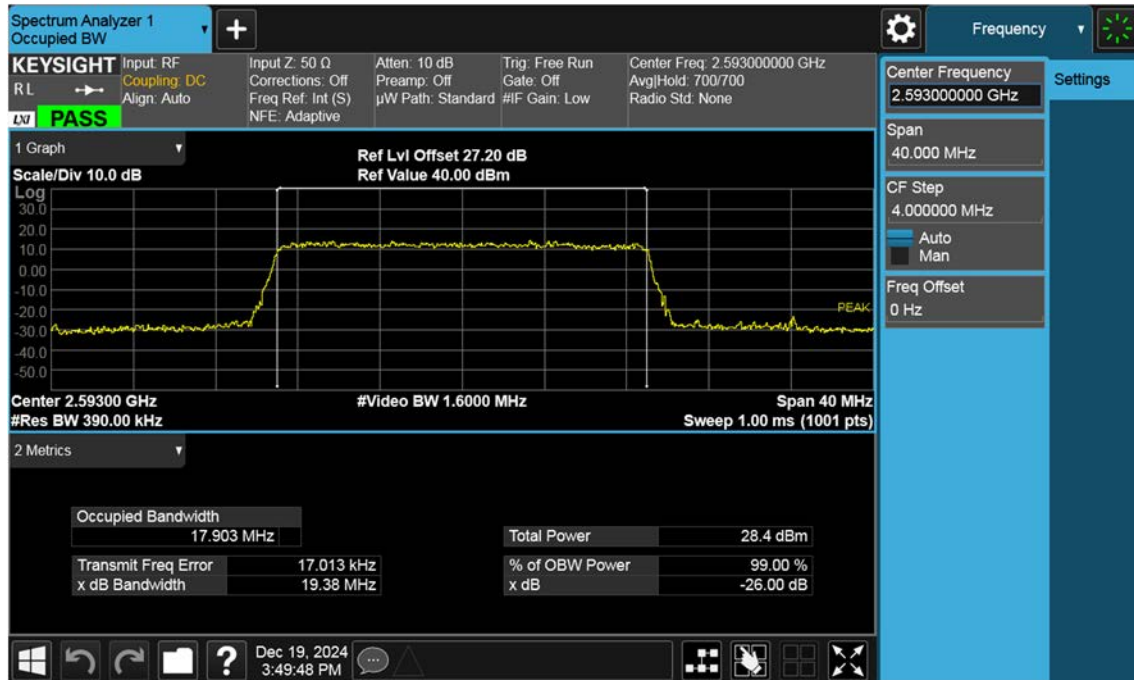
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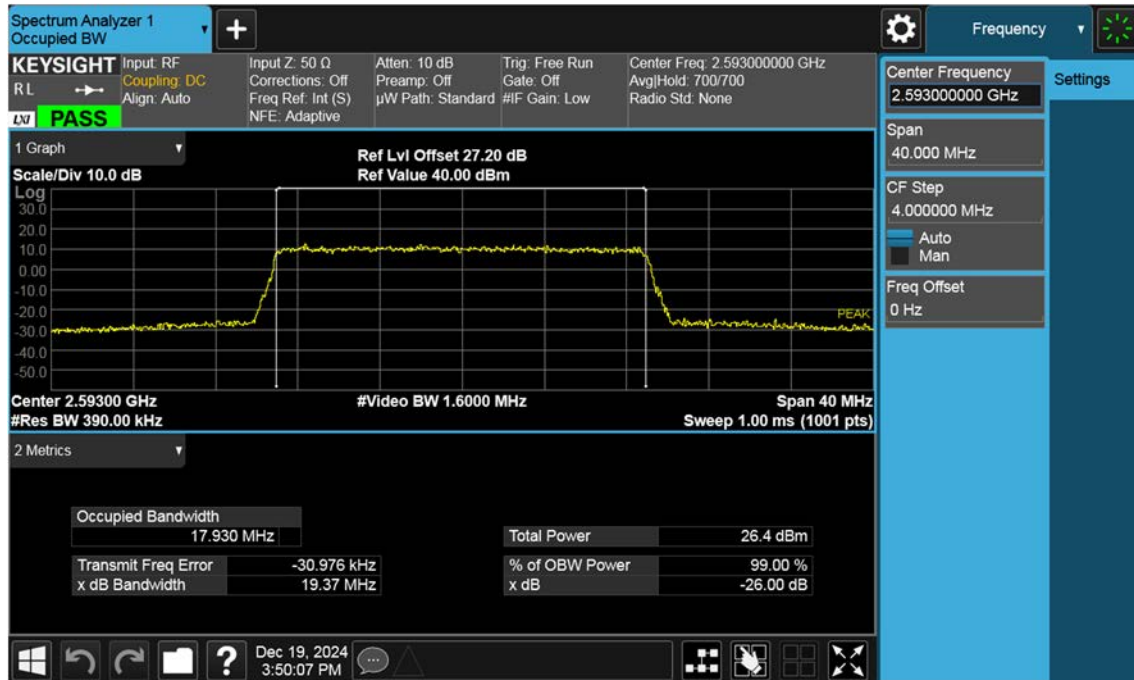
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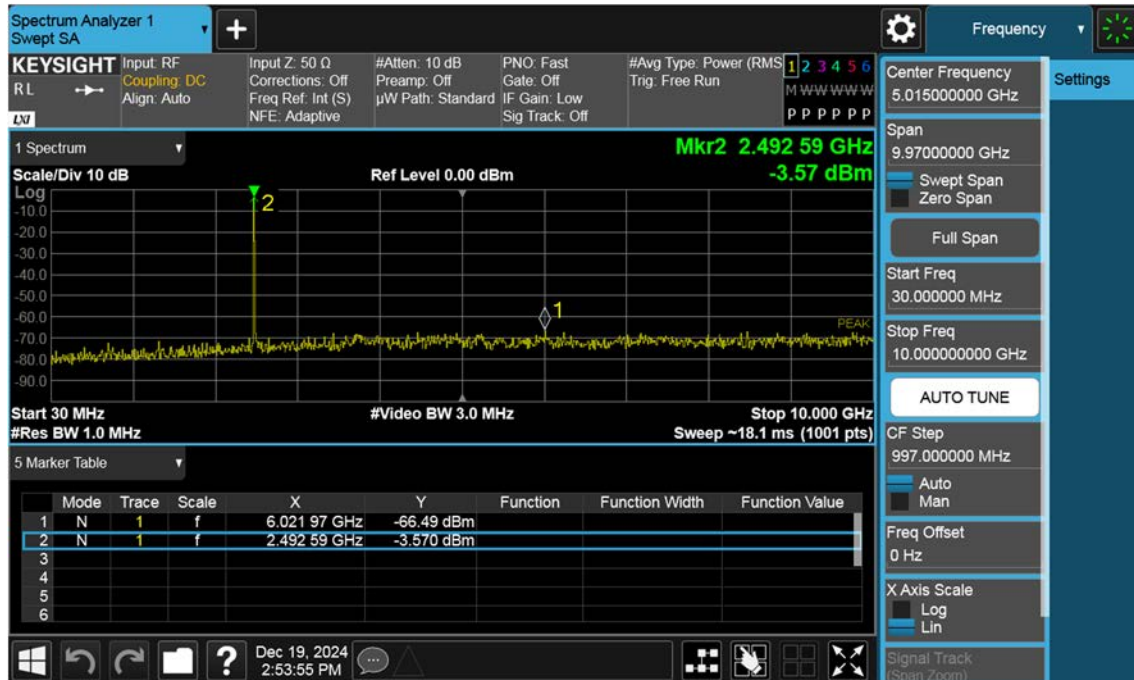
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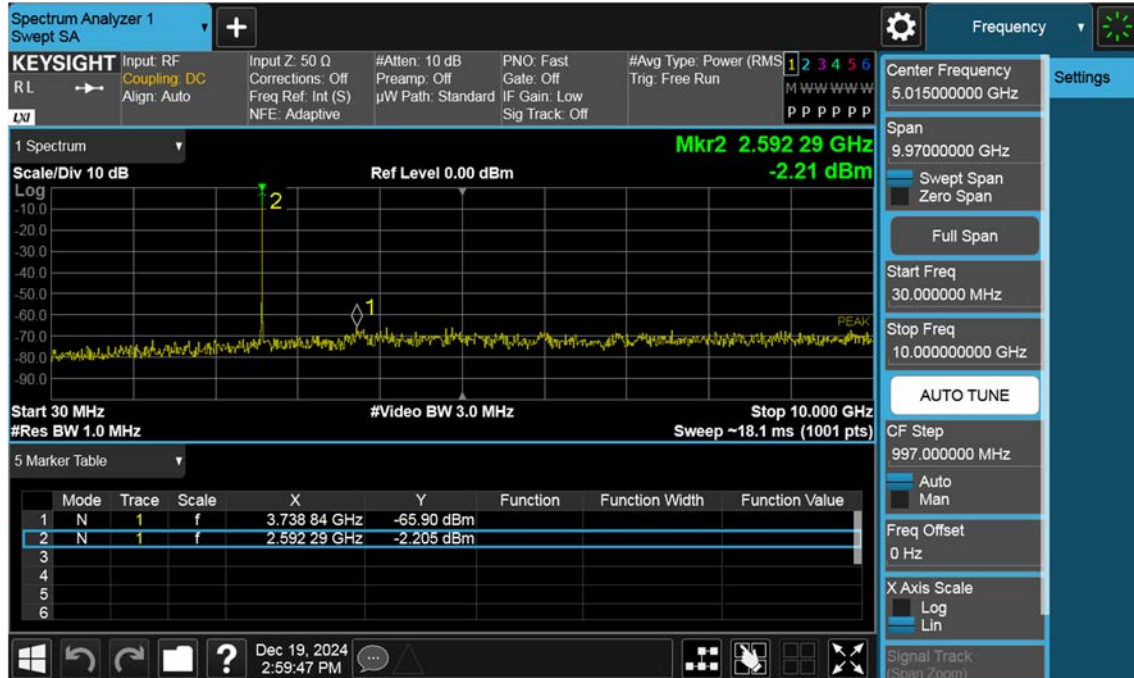
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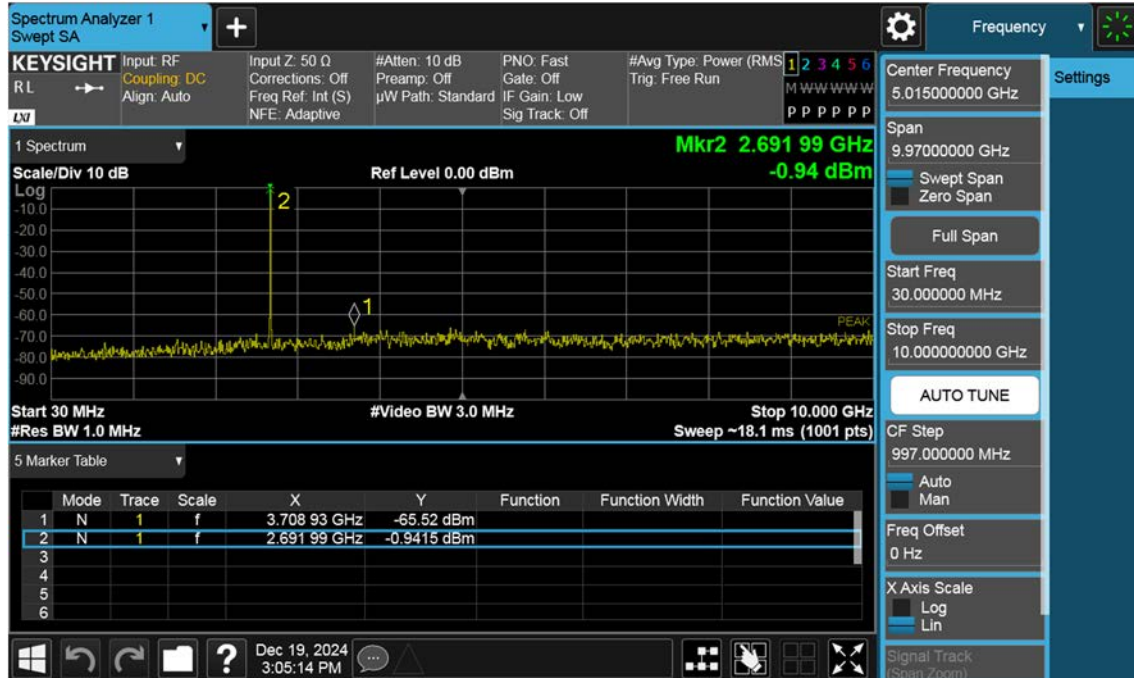
LTE B41_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



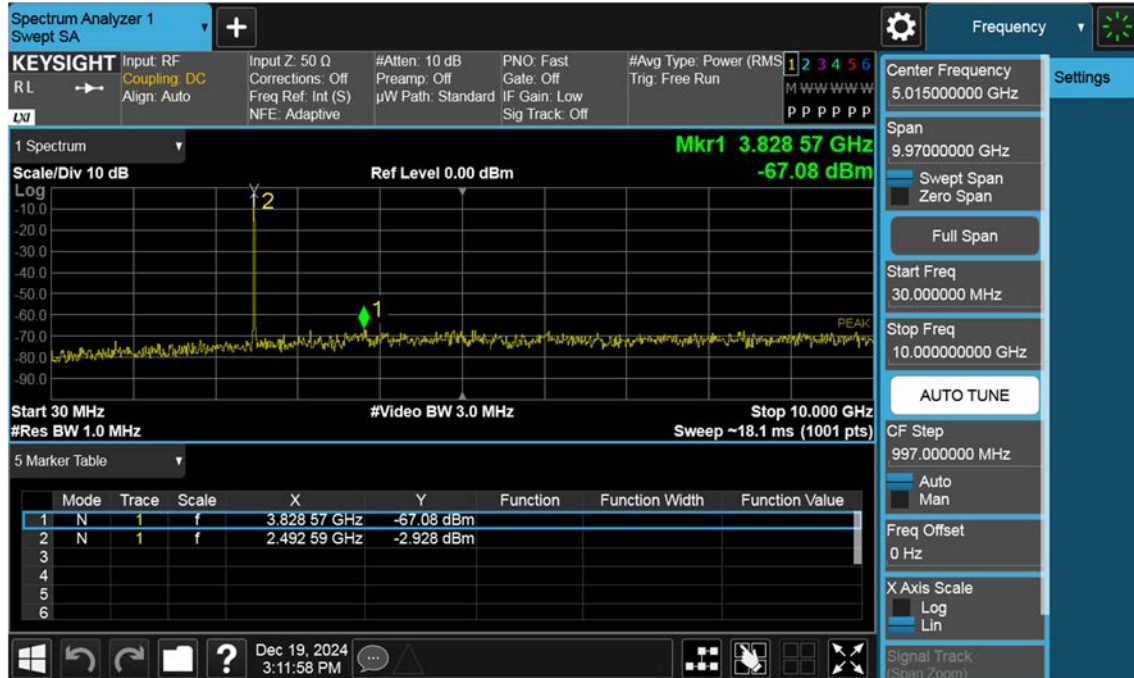
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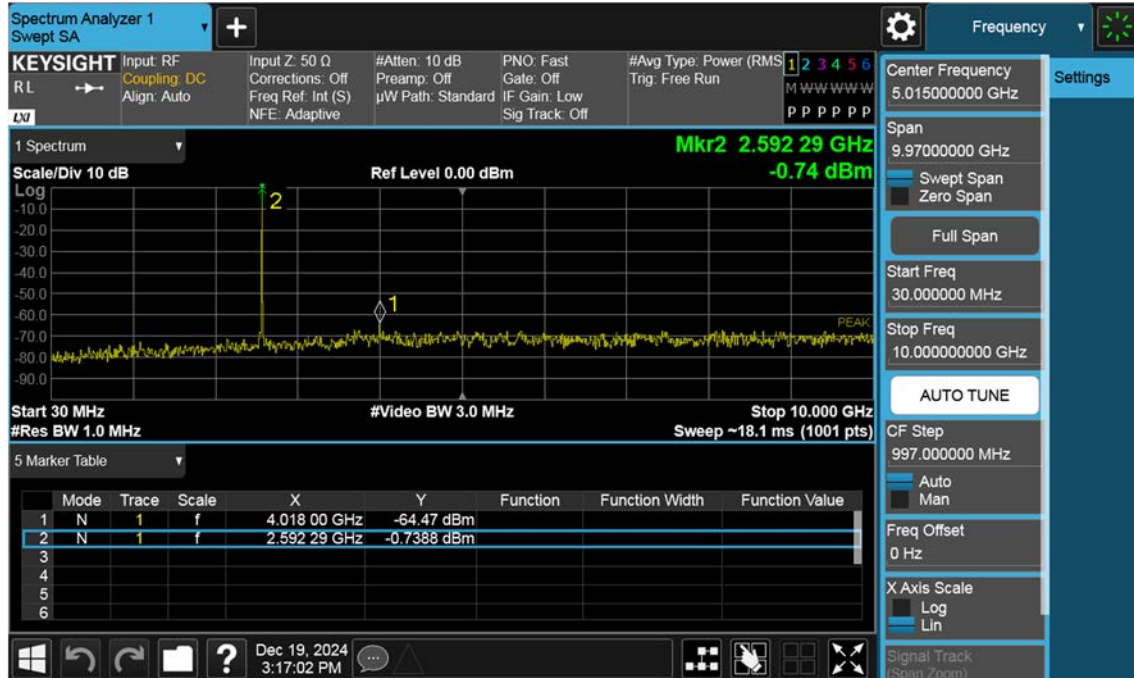
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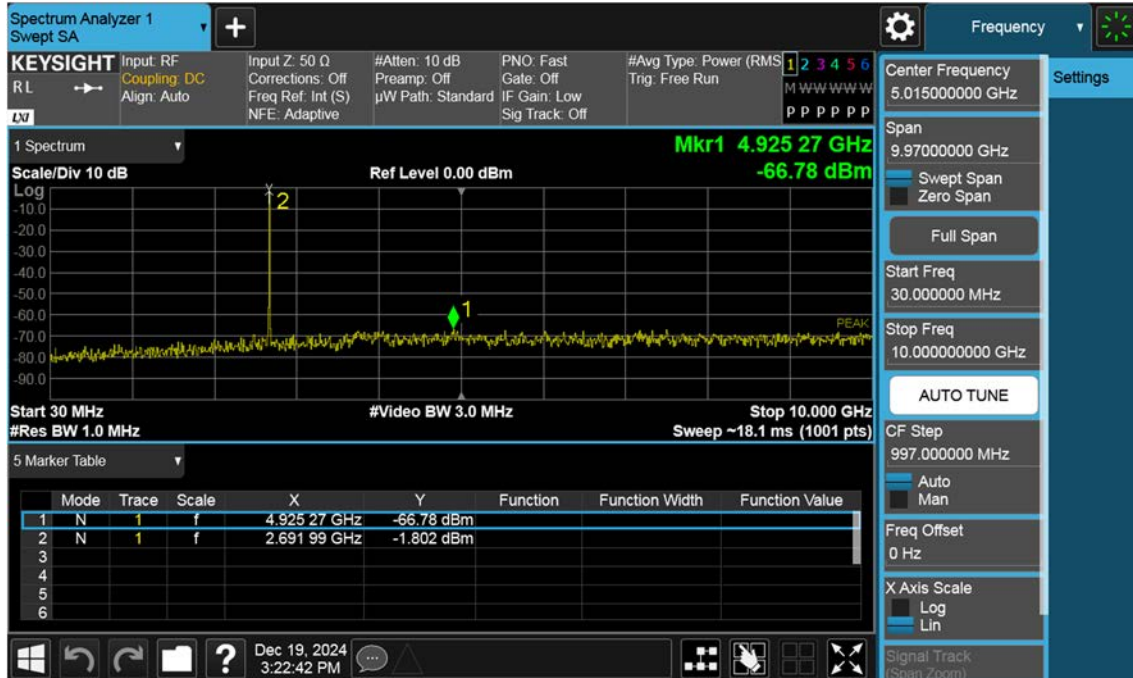
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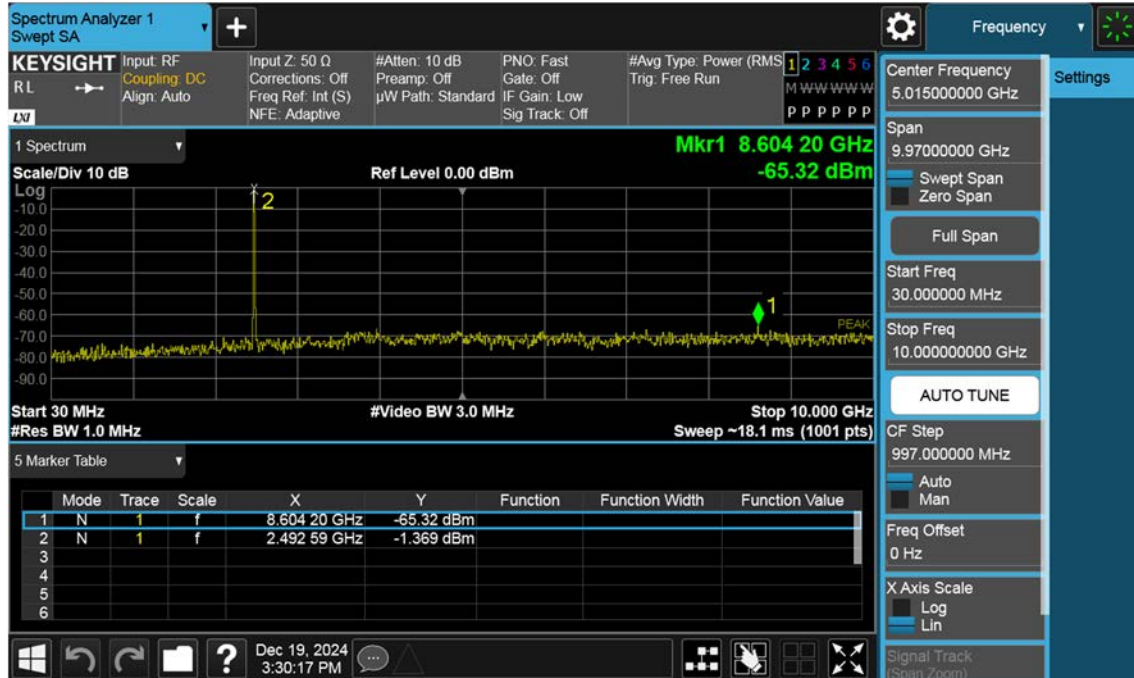
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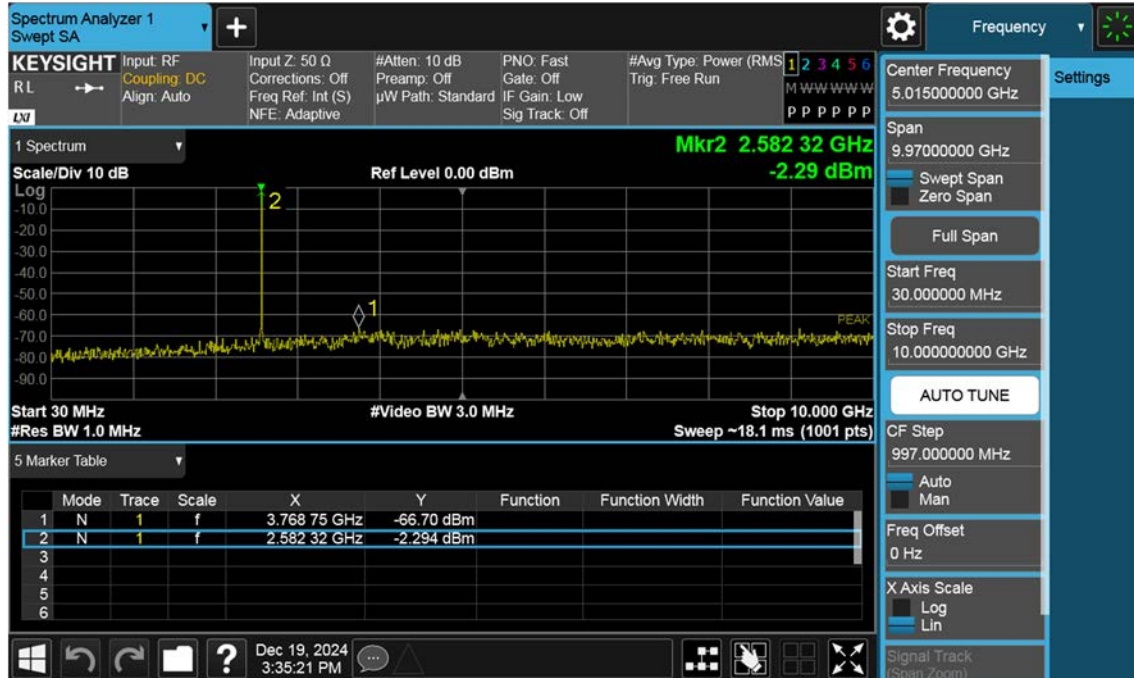
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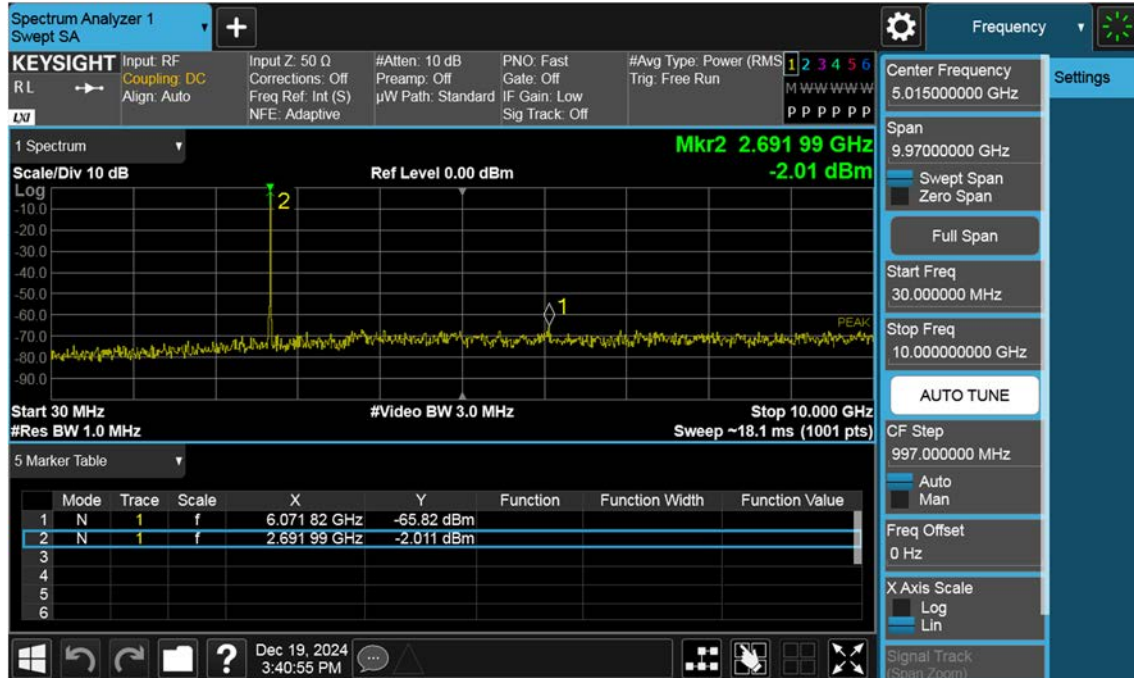
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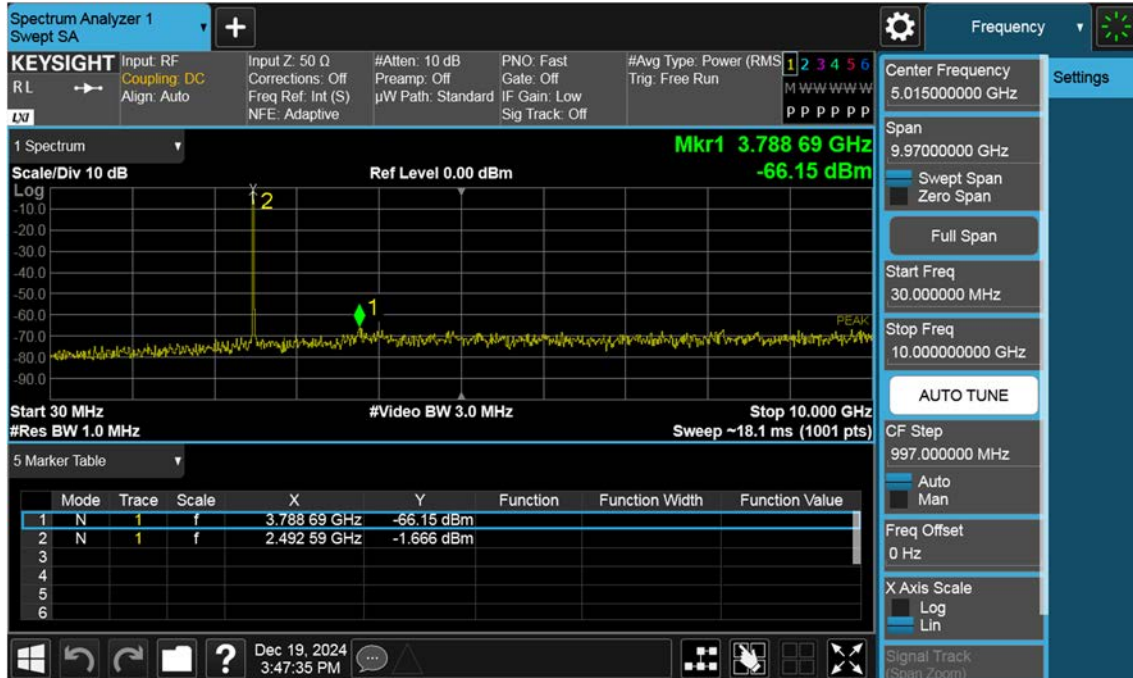
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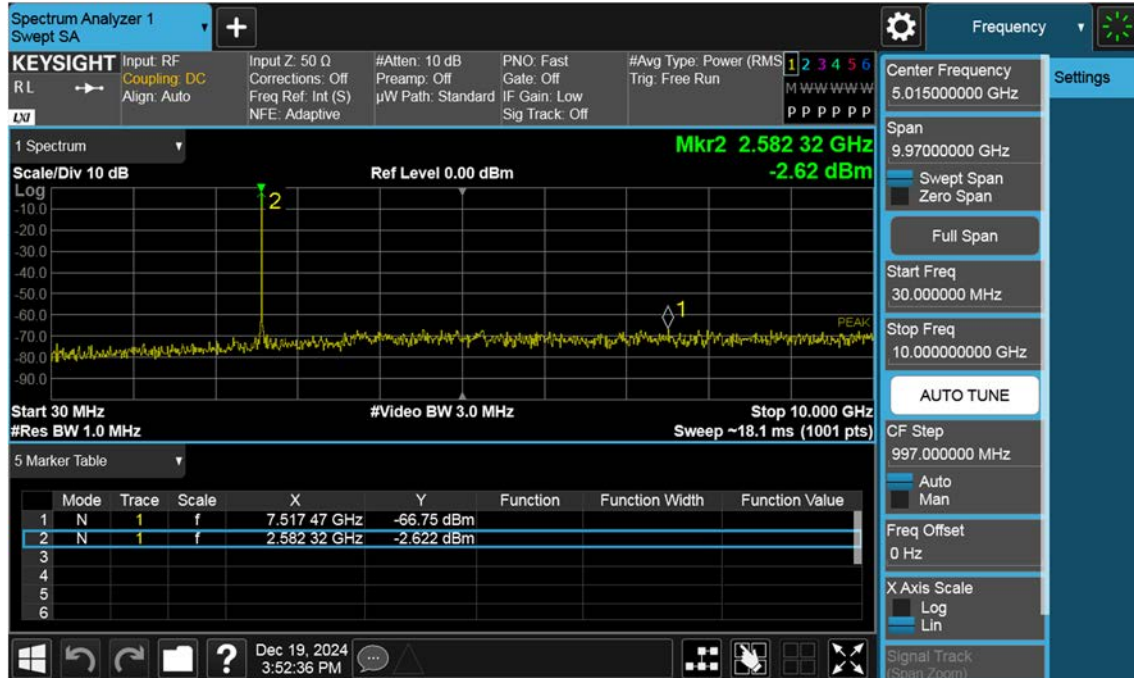
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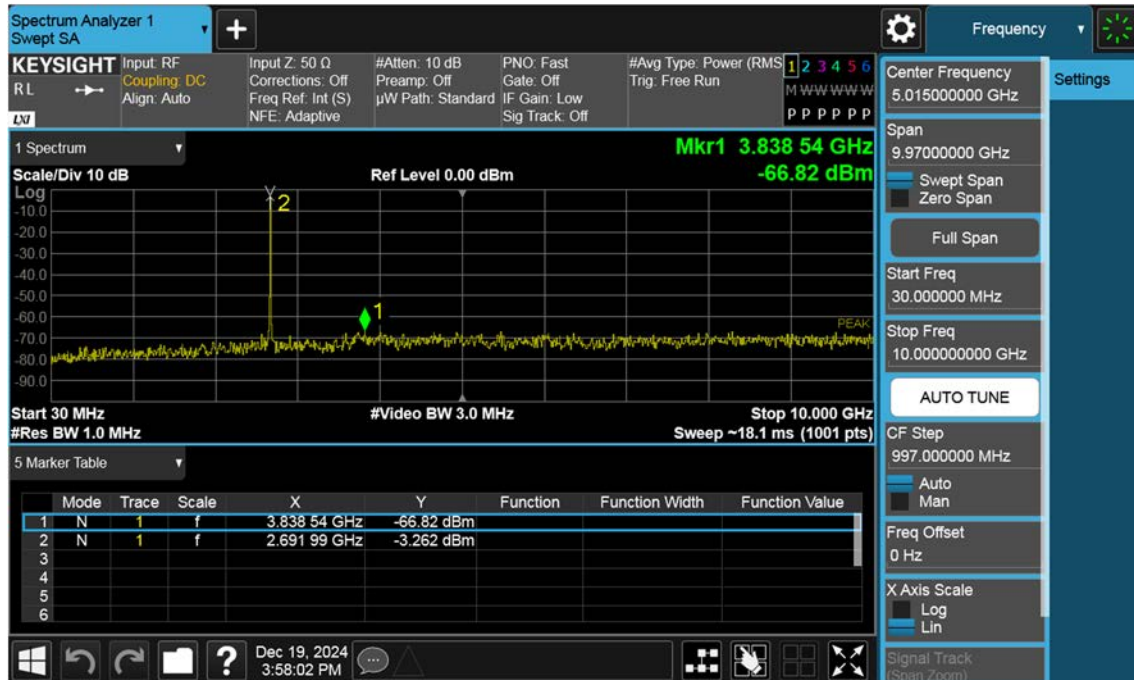
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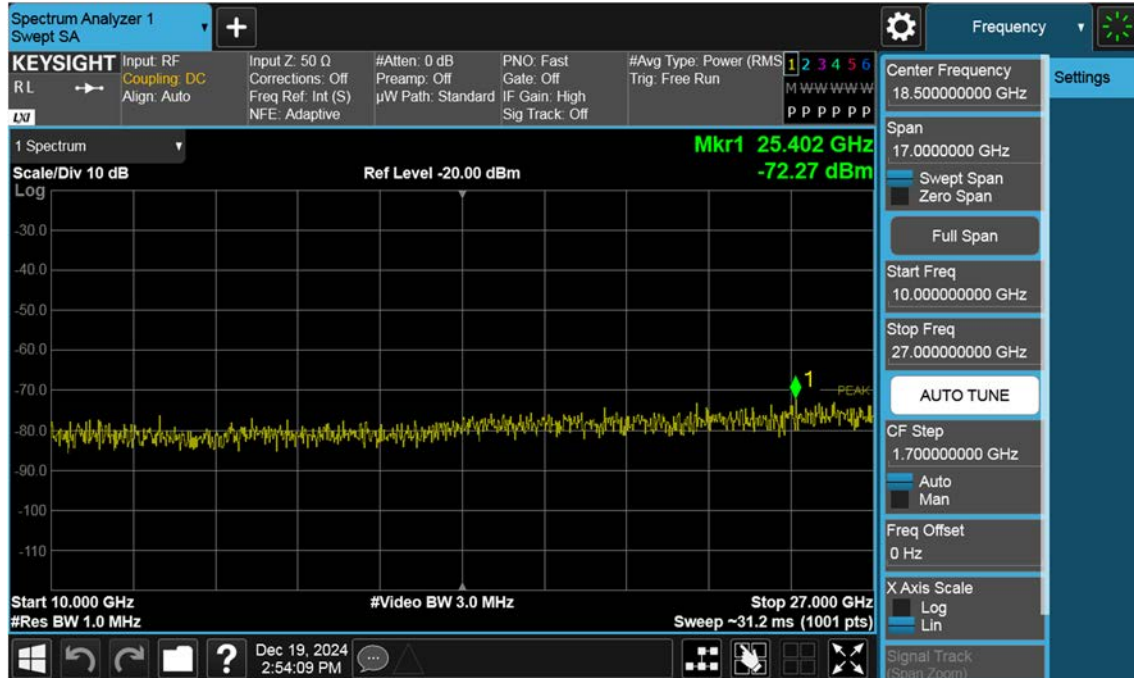
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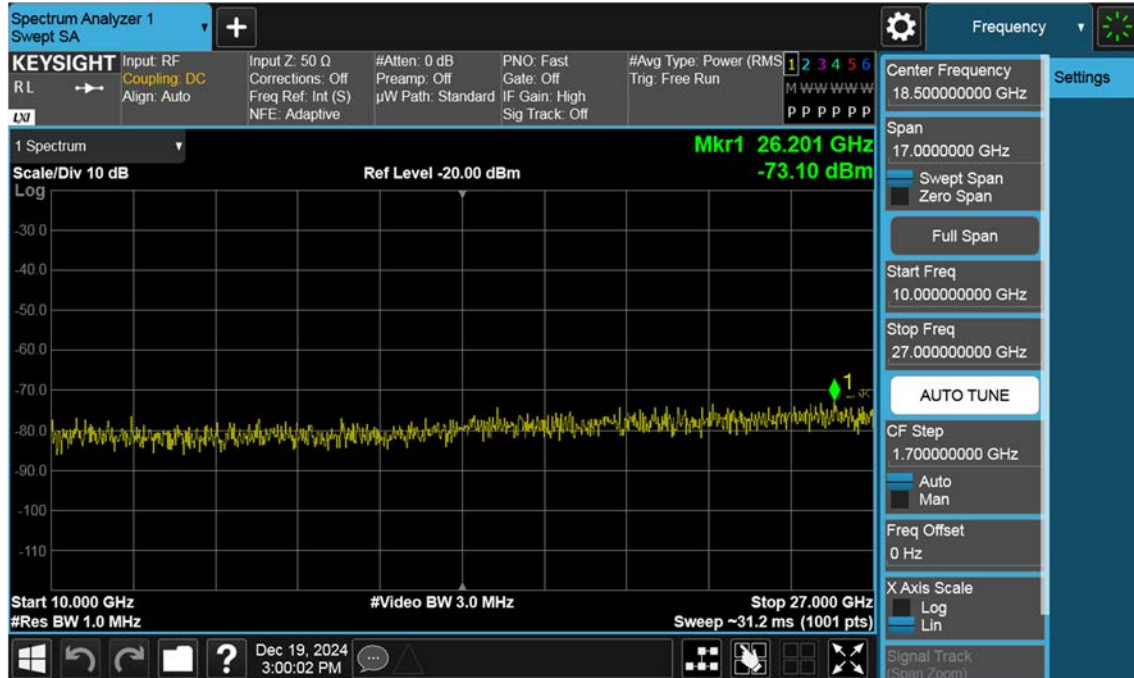
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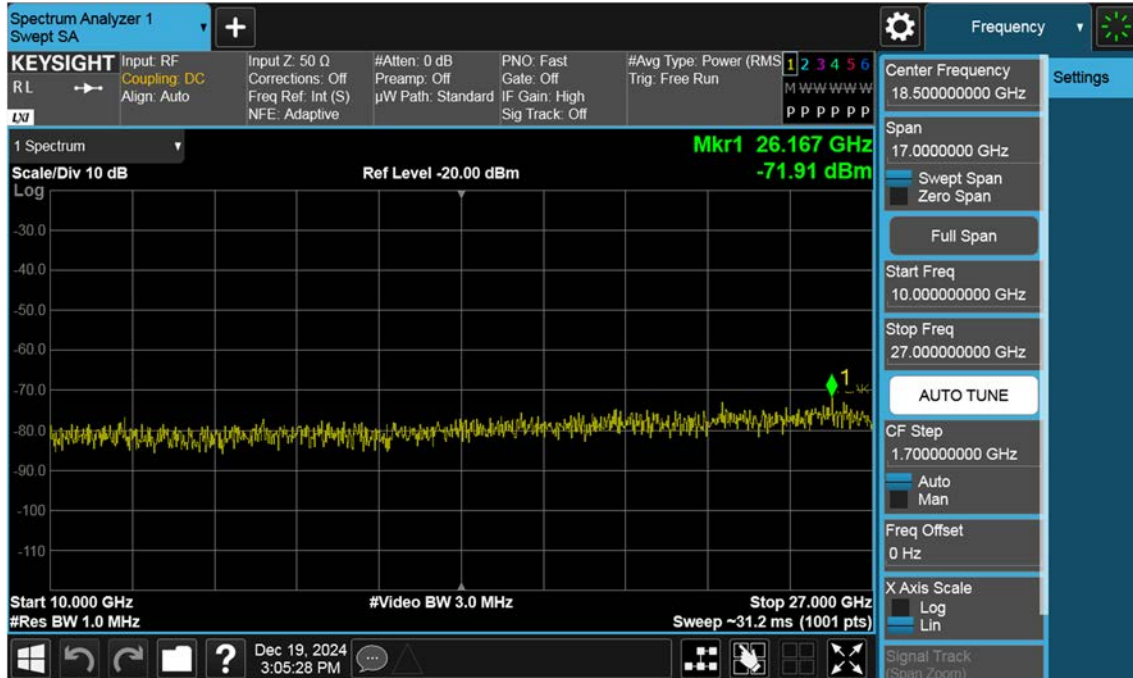
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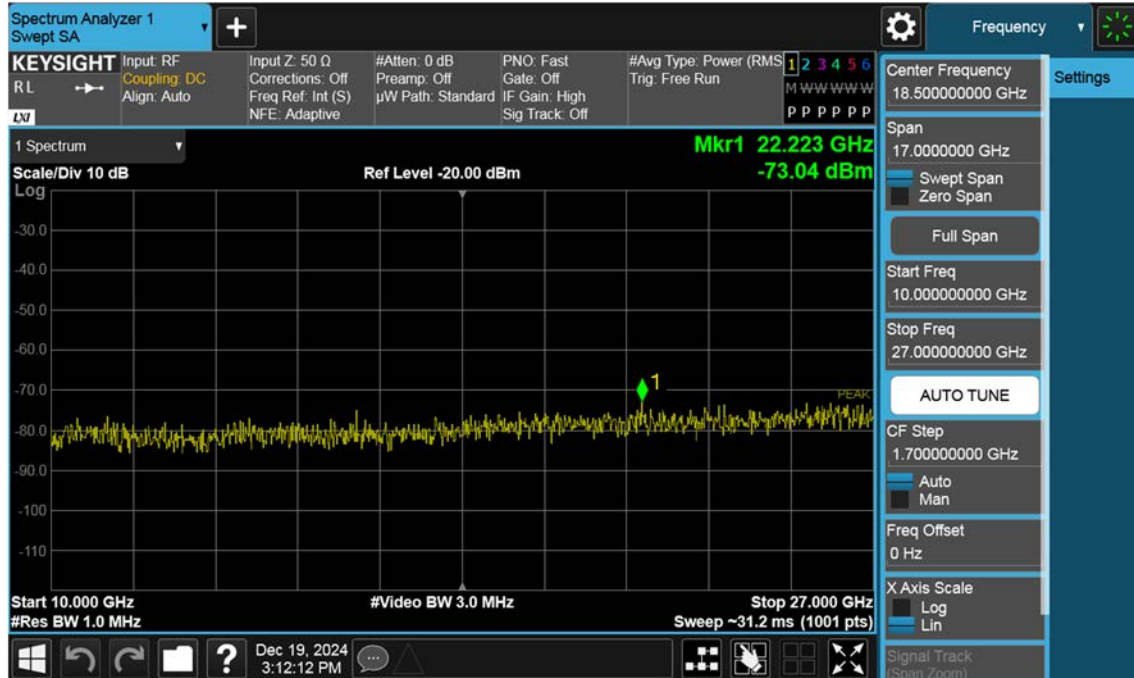
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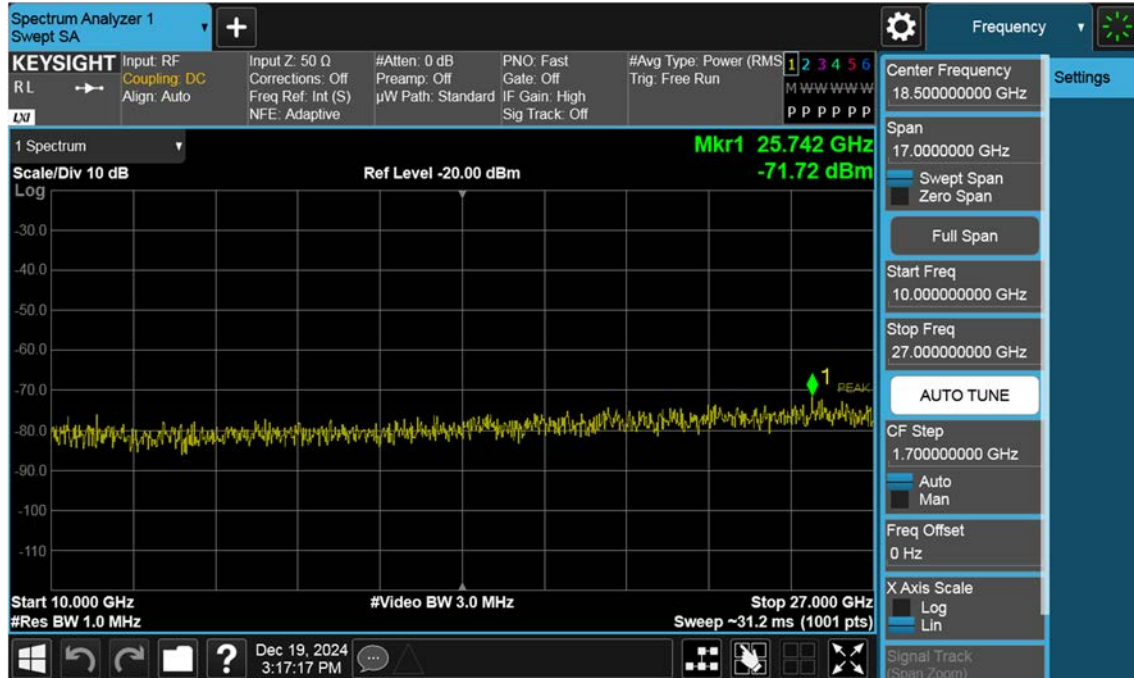
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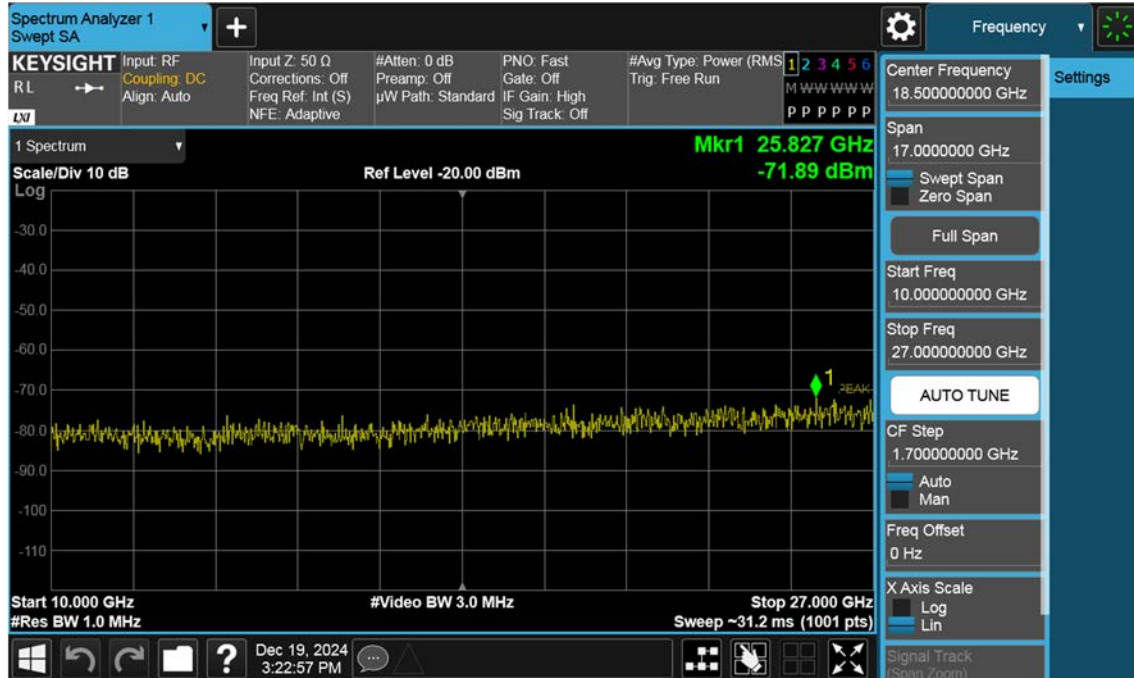
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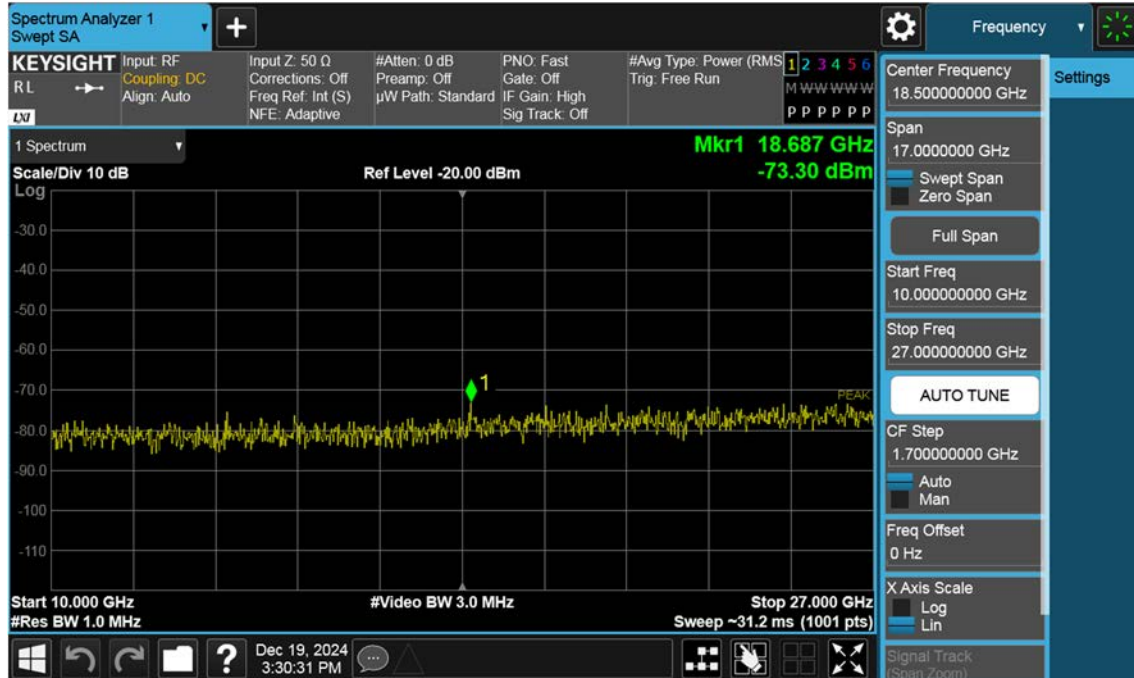
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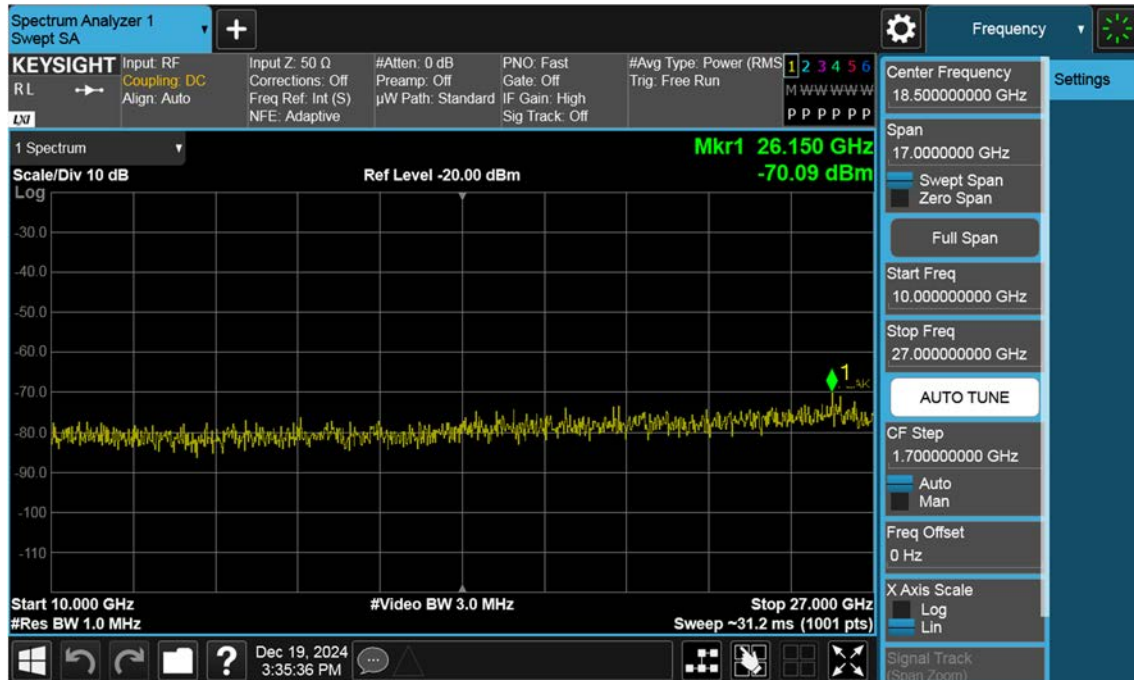
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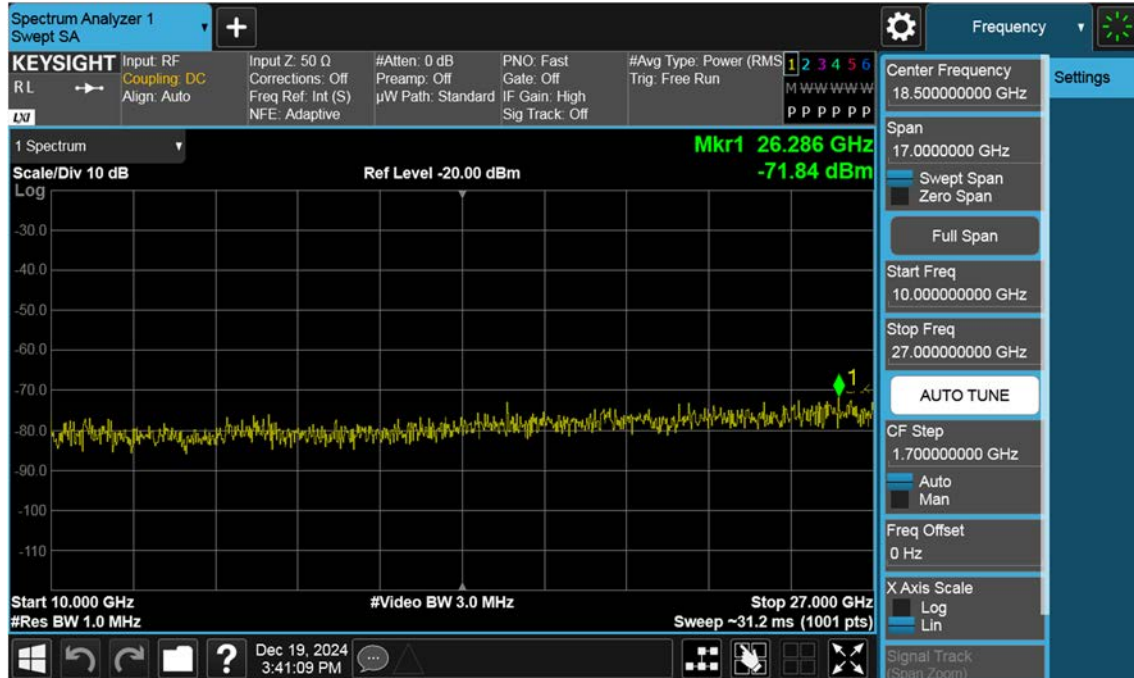
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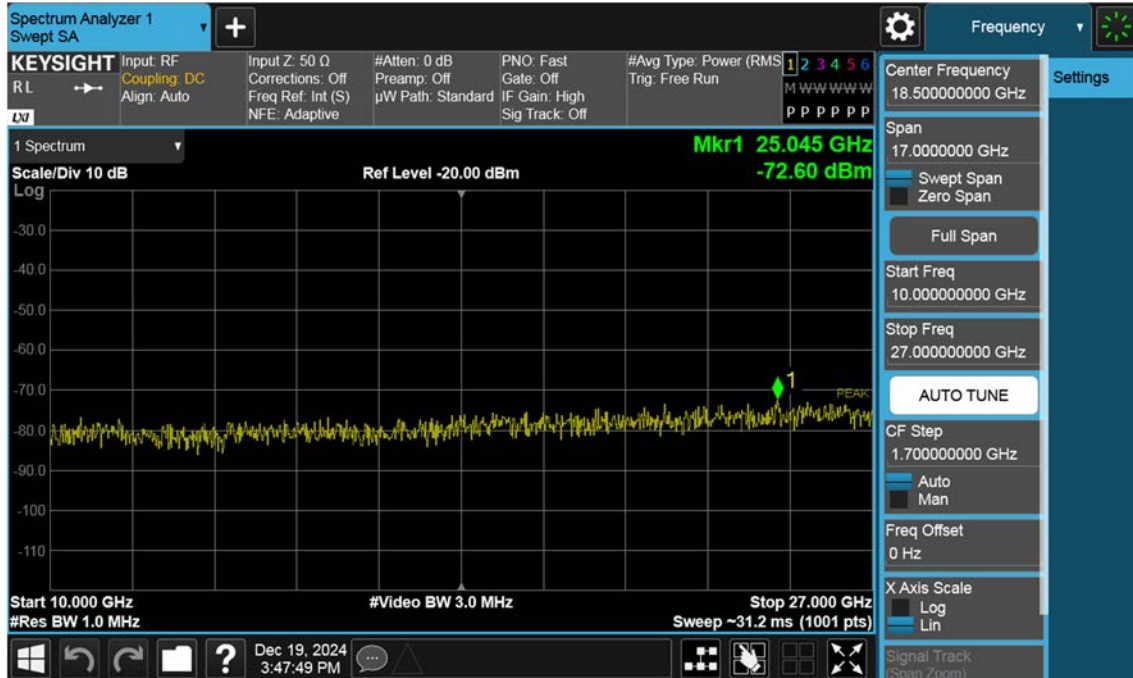
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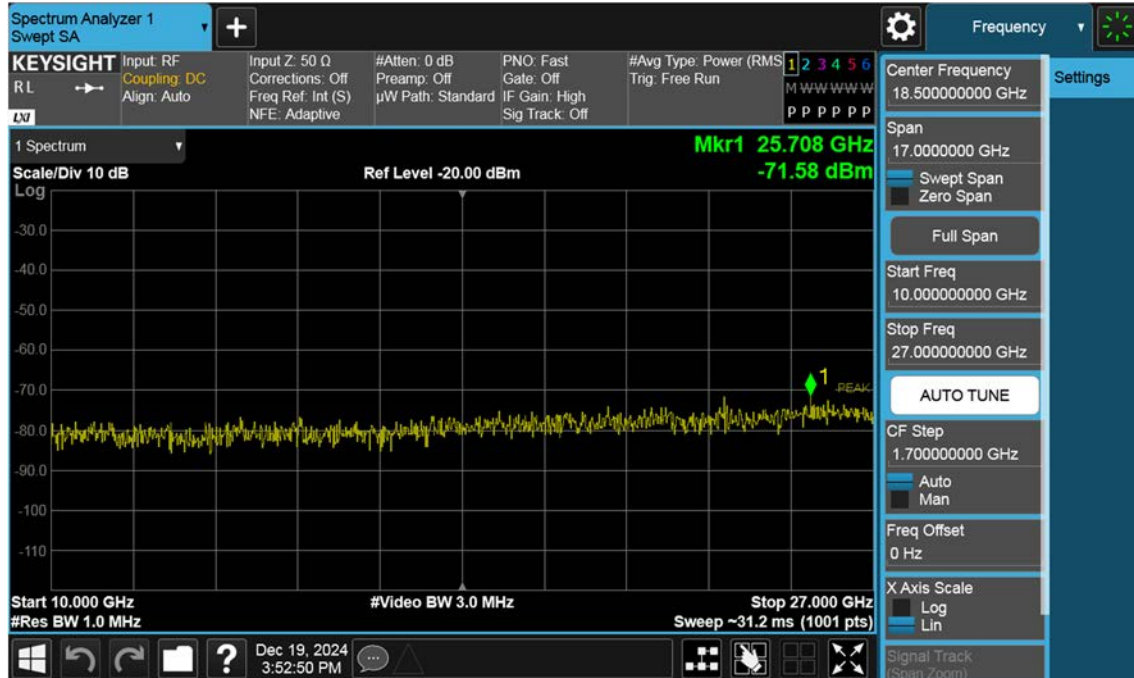
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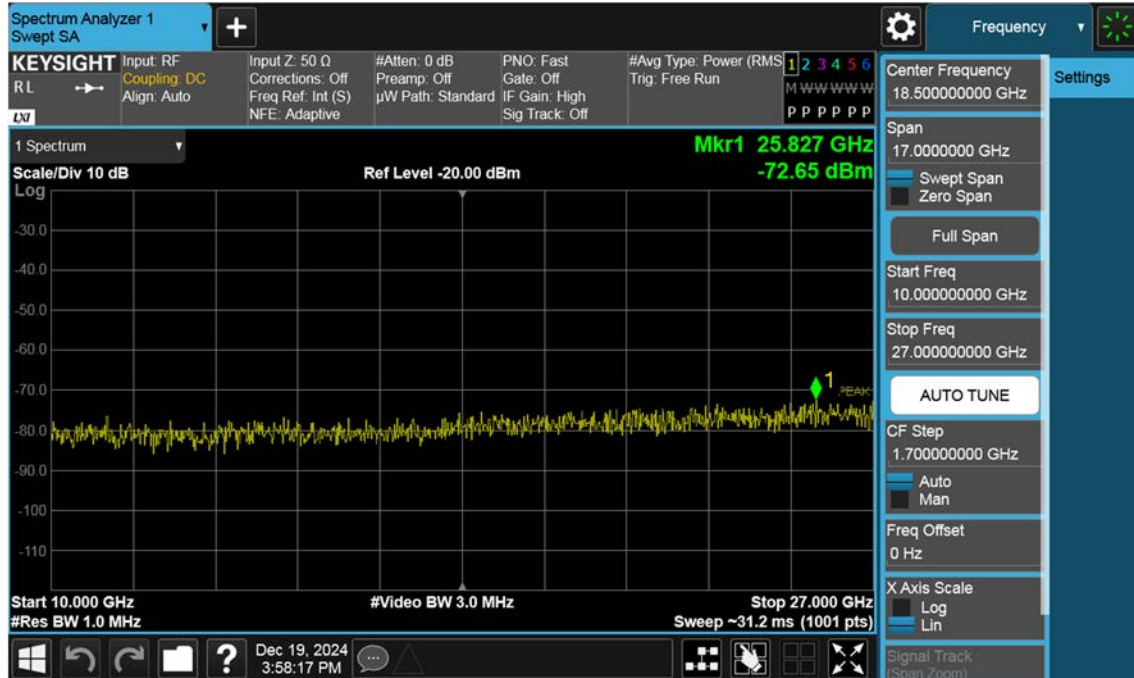
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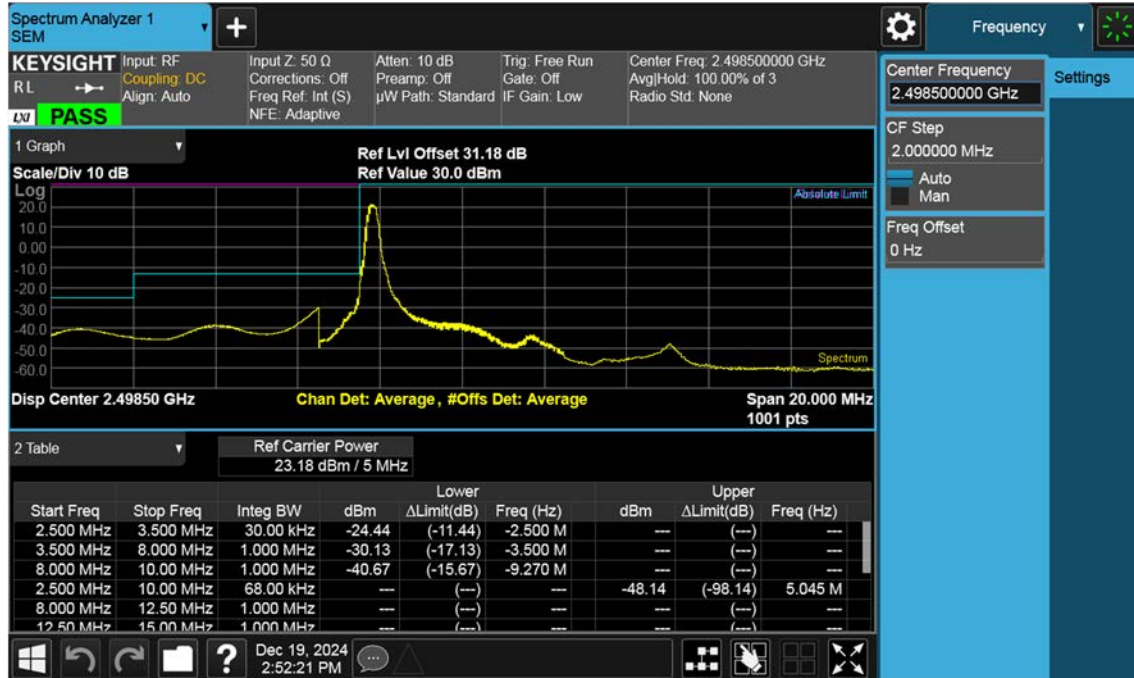
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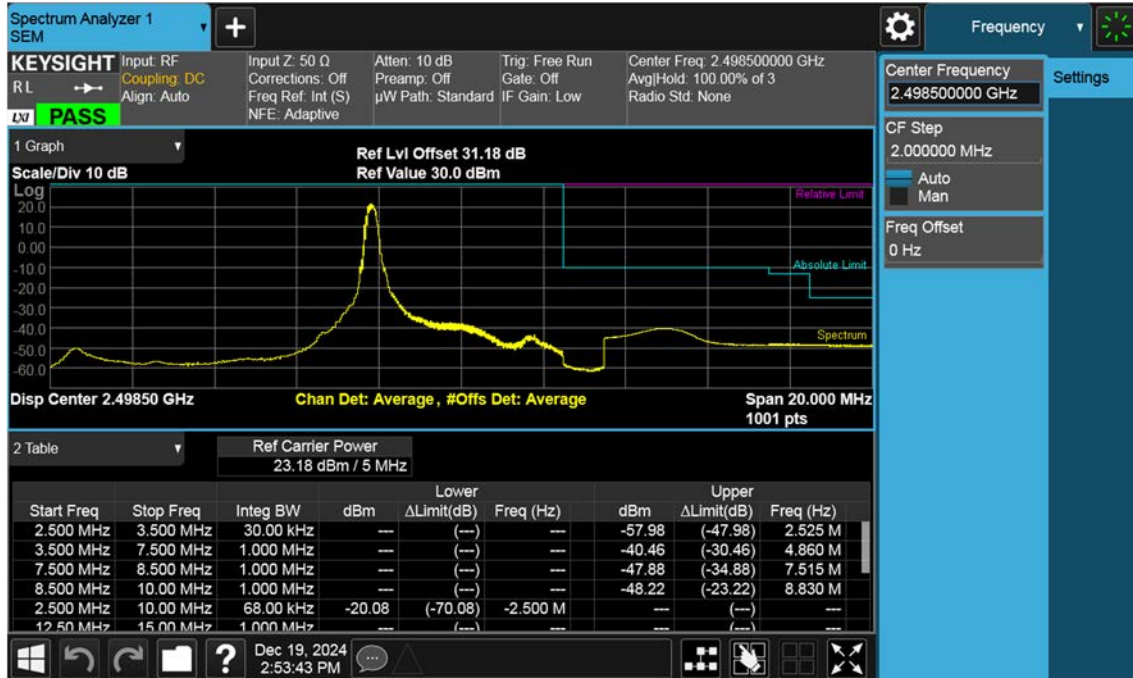
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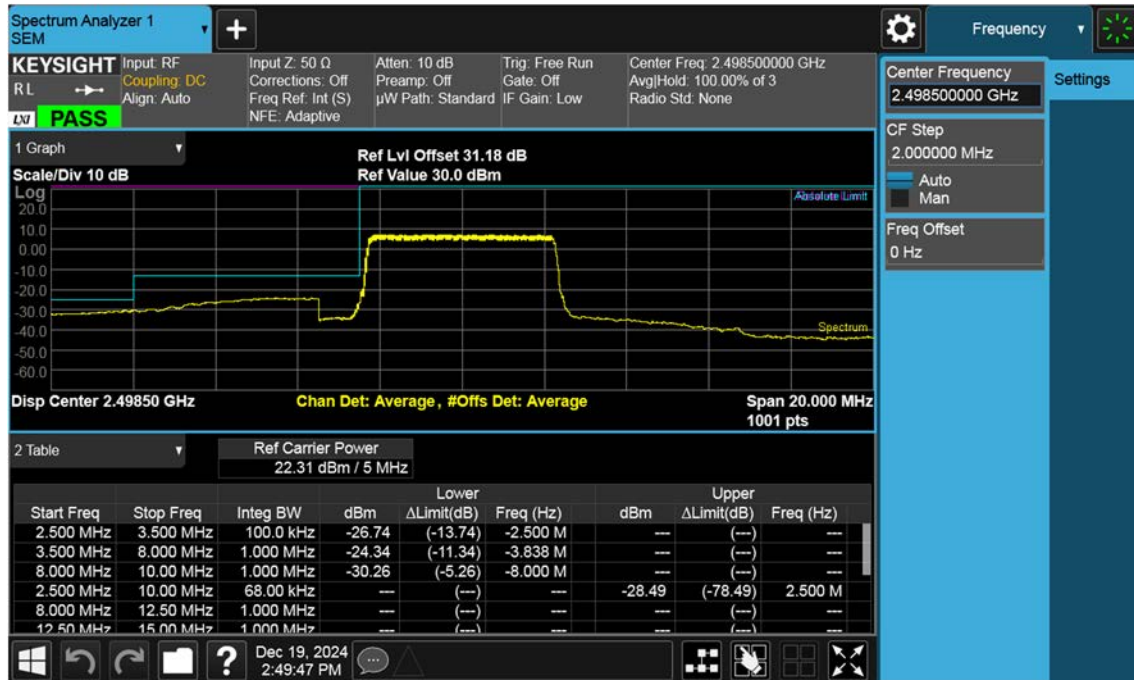
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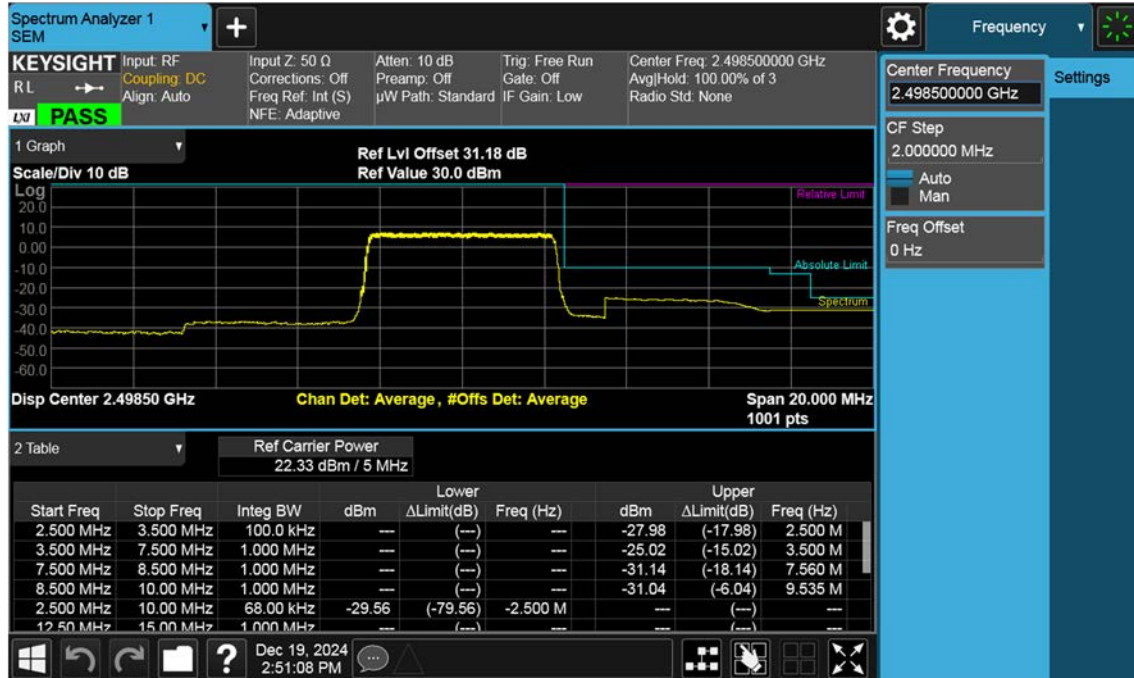
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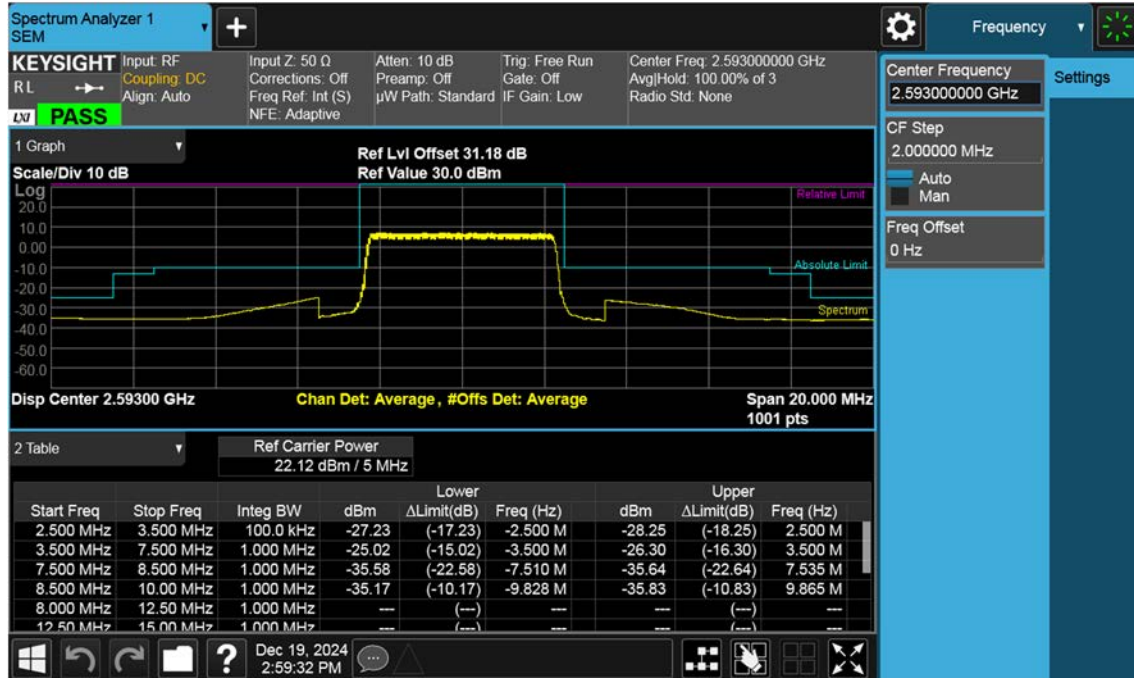
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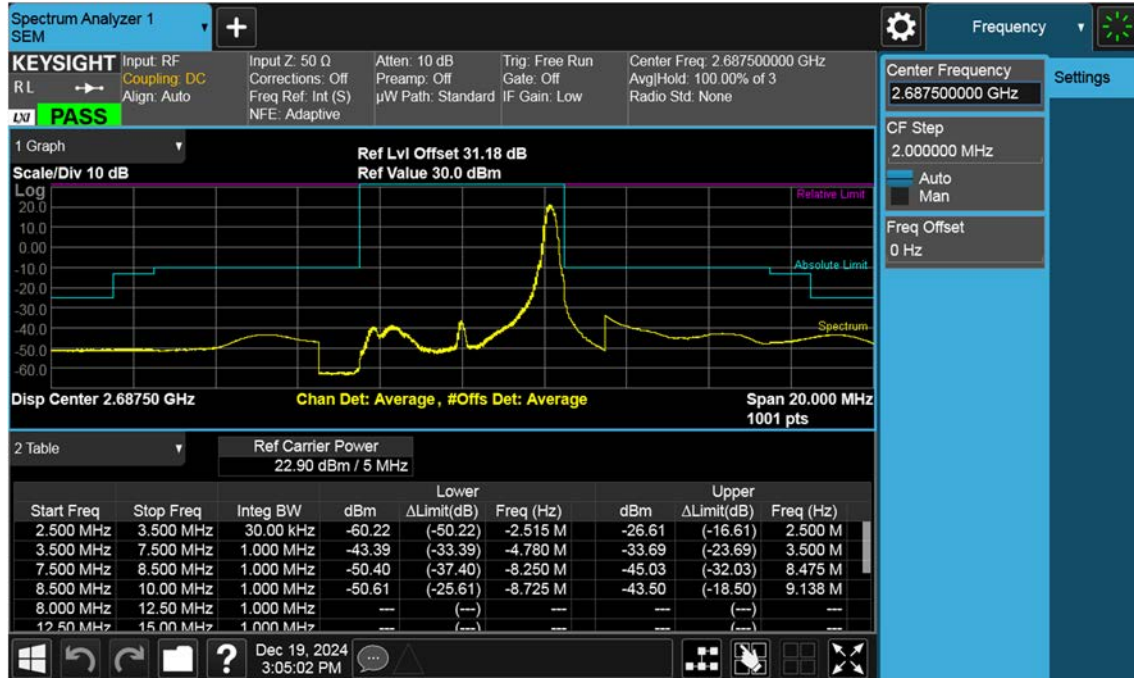
LTE B41_5 M_Channel Edge_Upper_Low_QPSK_FullRB



LTE B41_5 M_Channel Edge_Mid_QPSK_FullRB



LTE B41_5 M_Channel Edge_High_QPSK_1RB



LTE B41_5 M_Channel Edge_High_QPSK_FullRB

