

TEST REPORT

FCC LTE B7 Test for TM18FNROBM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2507-FC085

DATE OF ISSUE
July 22, 2025

Tested by
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Technical Manager
Jong Seok Lee



Accredited by KOLAS, Republic of KOREA

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Applicant **LG Electronics Inc.**
128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea

Product Name Telematics
Model Name TM18FNROBM0

Date of Test May 16, 2025 ~ July 22, 2025

Location of Test ☒ Permanent Testing Lab ☐ On Site Testing
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC ID 2B03LTM18FNROBM0

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	July 22, 2025	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

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

Model(s):	TM18FNROBM0
Voltage:	4.2V
Tx Frequency:	2502.5 – 2567.5 : 5 MHz 2505.0 – 2565.0 : 10 MHz 2507.5 – 2562.5 : 15 MHz 2510.0 – 2560.0 : 20 MHz
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #5 Conducted : BMW ICON-25SF Conducted #18
Antenna Information	Please refer to the Antenna Specification document.

1.1. SUPPORTED BANDS PER ANTENNA PORT

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

Note:

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

1.2 MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band 7 (5)	2502.5 – 2567.5	4M50G7D	QPSK	0.251	24.00
		4M48W7D	16QAM	0.213	23.29
		4M50W7D	64QAM	0.168	22.25
		4M50W7D	256QAM	0.080	19.05
LTE – Band 7 (10)	2505.0 – 2565.0	8M98G7D	QPSK	0.248	23.95
		8M99W7D	16QAM	0.212	23.26
		8M99W7D	64QAM	0.165	22.17
		8M98W7D	256QAM	0.081	19.07
LTE – Band 7 (15)	2507.5 – 2562.5	13M5G7D	QPSK	0.252	24.01
		13M5W7D	16QAM	0.215	23.32
		13M5W7D	64QAM	0.164	22.16
		13M5W7D	256QAM	0.081	19.07
LTE – Band 7 (20)	2510.0 – 2560.0	18M0G7D	QPSK	0.245	23.90
		17M9W7D	16QAM	0.211	23.25
		17M9W7D	64QAM	0.164	22.15
		17M9W7D	256QAM	0.081	19.09

2. INTRODUCTION

2.1 DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2 MEASURING INSTRUMENT CALIBRATION

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

2.3 TEST FACILITY

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

Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
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 Fully-anechoic chamber.

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

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW $\geq 3 \times$ 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 turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

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

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

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

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

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

3.3 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;

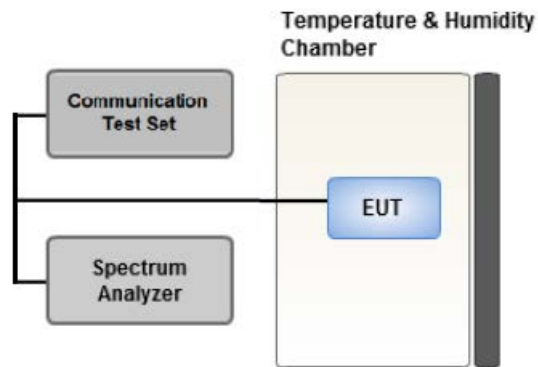
$$\text{Result}_{(\text{dBm})} = P_{\text{g}}_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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



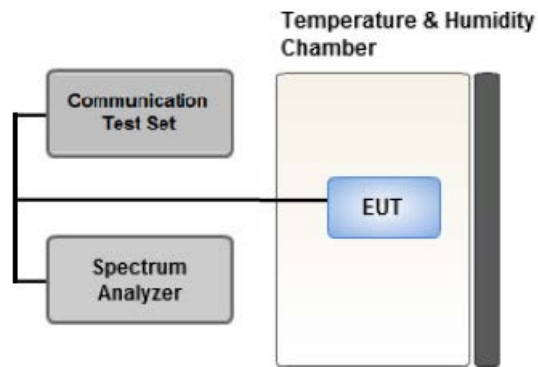
Test setup

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 %.

3.5 OCCUPIED BANDWIDTH.



Test setup

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

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

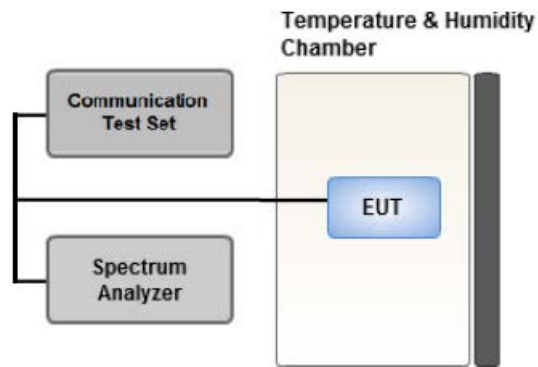
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

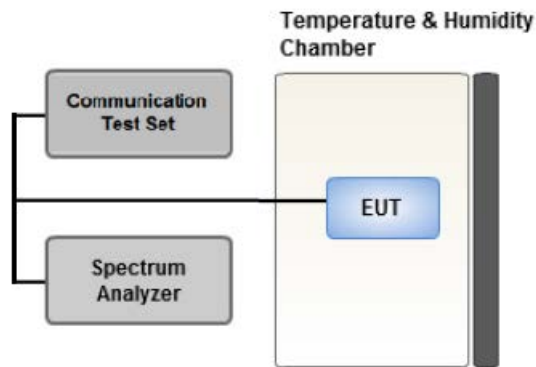
Test Overview

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

Test Settings

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

3.7 CHANNEL EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum 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

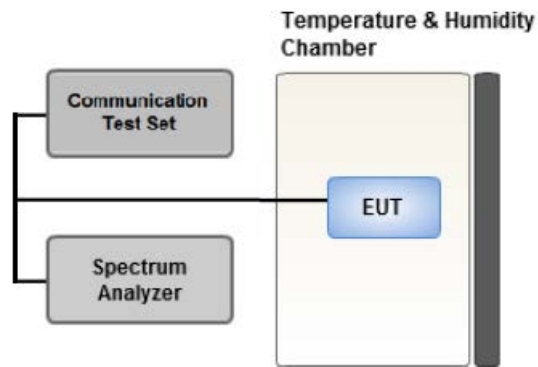
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2% of EBW, then 1 MHz after that.
4. $VBW > 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average
8. Sweep time $> \text{Number of points in sweep} \times \text{Symbol period}$
9. The trace was allowed to stabilize

Test Notes

1. The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge,
2. $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. 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 $10 \log(1 \text{ MHz}/RB)$ or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

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

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

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

[External(MIMO1) Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective 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		Z

3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- 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	5, 10, 15, 20	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	5, 10, 15, 20	Mid	Full RB	0
Band 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
		5, 10, 15, 20	Low, Mid, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	5, 10, 15, 20	Low, Mid, High	1	0

4. LIST OF TEST EQUIPMENT

[Radiated]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	03/12/2026	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	03/12/2026	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	03/12/2026	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	03/12/2026	Annual
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/489 20320/P	N/A	-
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	-
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
HIGHPASS FILTER	WHKX10-900-1000-15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
LOW NOISE AMPLIFIER	310N	SONOMA Instrument	186169	02/05/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	10/11/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial

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

[Conducted]

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

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

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

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

6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(m)(4)	■ $< 40 + 10\log_{10} (P[\text{Watts}])$ 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	Note ¹
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	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	§ 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

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 (MIMO1)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

aw	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2502.5	LTE B7/ 5 MHz	QPSK	-24.55	13.90	10.26	2.51	H	< 2.00	0.146	21.65	1	24
		16-QAM	-25.32	13.13	10.26	2.51	H		0.122	20.88		
		64-QAM	-26.32	12.13	10.26	2.51	H		0.097	19.88		
		256-QAM	-29.44	9.01	10.26	2.51	H		0.047	16.76		
2535.0		QPSK	-23.94	14.90	10.25	2.54	H		0.182	22.61	1	13
		16-QAM	-24.49	14.35	10.25	2.54	H		0.161	22.06		
		64-QAM	-25.46	13.38	10.25	2.54	H		0.129	21.09		
		256-QAM	-28.34	10.50	10.25	2.54	H		0.066	18.21		
2567.5		QPSK	-25.50	13.58	10.27	2.65	H		0.132	21.20	1	0
		16-QAM	-25.90	13.18	10.27	2.65	H		0.120	20.80		
		64-QAM	-27.00	12.08	10.27	2.65	H		0.093	19.70		
		256-QAM	-30.04	9.04	10.27	2.65	H		0.046	16.66		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2505.0	LTE B7/ 10 MHz	QPSK	-24.81	13.64	10.26	2.51	H	< 2.00	0.138	21.39	1	0
		16-QAM	-25.79	12.66	10.26	2.51	H		0.110	20.41		
		64-QAM	-26.75	11.70	10.26	2.51	H		0.088	19.45		
		256-QAM	-29.79	8.66	10.26	2.51	H		0.044	16.41		
2535.0		QPSK	-24.22	14.62	10.25	2.54	H		0.171	22.33	1	25
		16-QAM	-24.80	14.04	10.25	2.54	H		0.150	21.75		
		64-QAM	-25.66	13.18	10.25	2.54	H		0.123	20.89		
		256-QAM	-28.68	10.16	10.25	2.54	H		0.061	17.87		
2565.0		QPSK	-25.20	13.86	10.26	2.62	H		0.141	21.50	1	0
		16-QAM	-26.03	13.03	10.26	2.62	H		0.117	20.67		
		64-QAM	-26.99	12.07	10.26	2.62	H		0.094	19.71		
		256-QAM	-29.99	9.07	10.26	2.62	H		0.047	16.71		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2507.5	LTE B7/ 15 MHz	QPSK	-24.48	14.05	10.26	2.51	H	< 2.00	0.151	21.80	1	74
		16-QAM	-25.21	13.32	10.26	2.51	H		0.128	21.07		
		64-QAM	-26.24	12.29	10.26	2.51	H		0.101	20.04		
		256-QAM	-29.33	9.20	10.26	2.51	H		0.050	16.95		
2535.0		QPSK	-24.21	14.63	10.25	2.54	H		0.171	22.34	1	38
		16-QAM	-24.71	14.13	10.25	2.54	H		0.153	21.84		
		64-QAM	-25.59	13.25	10.25	2.54	H		0.125	20.96		
		256-QAM	-28.64	10.20	10.25	2.54	H		0.062	17.91		
2562.5		QPSK	-24.77	14.29	10.26	2.62	H		0.156	21.93	1	0
		16-QAM	-25.57	13.49	10.26	2.62	H		0.130	21.13		
		64-QAM	-26.49	12.57	10.26	2.62	H		0.105	20.21		
		256-QAM	-29.60	9.46	10.26	2.62	H		0.051	17.10		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2510.0	LTE B7/ 20 MHz	QPSK	-24.38	14.15	10.26	2.51	H	< 2.00	0.155	21.90	1	99
		16-QAM	-25.22	13.31	10.26	2.51	H		0.128	21.06		
		64-QAM	-26.08	12.45	10.26	2.51	H		0.105	20.20		
		256-QAM	-29.30	9.23	10.26	2.51	H		0.050	16.98		
QPSK		-24.07	14.77	10.25	2.54	H	0.177		22.48	1	0	
16-QAM		-25.10	13.74	10.25	2.54	H	0.140		21.45			
64-QAM		-25.95	12.89	10.25	2.54	H	0.115		20.60			
256-QAM		-28.99	9.85	10.25	2.54	H	0.057		17.56			
2560.0		QPSK	-24.48	14.56	10.26	2.59	H		0.167	22.23	1	0
		16-QAM	-25.17	13.87	10.26	2.59	H		0.143	21.54		
		64-QAM	-26.28	12.76	10.26	2.59	H		0.110	20.43		
		256-QAM	-29.34	9.70	10.26	2.59	H		0.055	17.37		

8.2 RADIATED SPURIOUS EMISSIONS

MODE: LTE B7
 MODULATION SIGNAL: 5 MHz QPSK
 DISTANCE: 1 meters
 LIMIT: -25 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
20775 (2502.5)	5 005.00	-55.94	10.91	-62.48	3.71	H	-55.28	1	24
	7 507.50	-54.38	11.59	-56.49	4.60	V	-49.50		
	10 010.00	-54.38	11.39	-53.97	5.47	V	-48.05		
	12 512.50	-56.42	13.16	-52.90	6.09	V	-45.83		
	15 015.00	-67.95	14.28	-49.83	6.76	H	-42.31		
21100 (2535.0)	5 070.00	-54.69	10.92	-61.45	3.80	V	-54.33	1	13
	7 605.00	-54.76	11.66	-56.95	4.64	V	-49.93		
	10 140.00	-55.16	11.34	-54.52	5.48	H	-48.66		
	12 675.00	-58.45	12.88	-54.42	6.24	V	-47.78		
	15 210.00	-65.94	14.81	-47.52	6.81	H	-39.52		
21425 (2567.5)	5 135.00	-55.52	11.04	-62.63	3.81	H	-55.40	1	0
	7 702.50	-55.15	11.56	-56.81	4.66	H	-49.91		
	10 270.00	-55.76	11.46	-55.12	5.57	H	-49.23		
	12 837.50	-57.27	12.73	-52.65	6.24	V	-46.16		
	15 405.00	-68.22	15.34	-49.07	6.85	V	-40.58		

☐ MODE: LTE B7
☐ MODULATION SIGNAL: 10 MHz QPSK
☐ DISTANCE: 1 meters
☐ LIMIT: -25 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
20800 (2505.0)	5 010.00	-55.64	10.91	-62.23	3.72	V	-55.04	1	0
	7 515.00	-55.73	11.59	-57.97	4.60	H	-50.98		
	10 020.00	-55.26	11.39	-54.41	5.47	V	-48.49		
	12 525.00	-56.94	13.14	-53.46	6.09	H	-46.41		
	15 030.00	-68.03	14.32	-50.22	6.73	V	-42.63		
21100 (2535.0)	5 070.00	-55.61	10.92	-62.37	3.80	V	-55.25	1	25
	7 605.00	-55.00	11.66	-57.19	4.64	V	-50.17		
	10 140.00	-55.48	11.34	-54.84	5.48	H	-48.98		
	12 675.00	-58.25	12.88	-54.22	6.24	H	-47.58		
	15 210.00	-67.54	14.81	-49.12	6.81	H	-41.12		
21400 (2565.0)	5 130.00	-55.92	11.02	-62.83	3.81	H	-55.62	1	0
	7 695.00	-54.38	11.58	-56.21	4.66	H	-49.29		
	10 260.00	-55.92	11.44	-55.25	5.56	V	-49.37		
	12 825.00	-57.38	12.74	-53.03	6.21	V	-46.50		
	15 390.00	-69.67	15.30	-50.44	6.85	V	-41.99		

☐ MODE: LTE B7
☐ MODULATION SIGNAL: 15 MHz QPSK
☐ DISTANCE: 1 meters
☐ LIMIT: -25 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
20825 (2507.5)	5 015.00	-55.44	10.91	-61.99	3.70	V	-54.78	1	74
	7 522.50	-55.07	11.60	-57.45	4.61	V	-50.46		
	10 030.00	-54.89	11.39	-54.24	5.47	V	-48.32		
	12 537.50	-57.86	13.13	-54.28	6.13	H	-47.28		
	15 045.00	-68.46	14.35	-50.57	6.75	H	-42.97		
21100 (2535.0)	5 070.00	-55.11	10.92	-61.87	3.80	V	-54.75	1	38
	7 605.00	-53.96	11.66	-56.15	4.64	V	-49.13		
	10 140.00	-55.25	11.34	-54.61	5.48	H	-48.75		
	12 675.00	-58.37	12.88	-54.34	6.24	V	-47.70		
	15 210.00	-67.49	14.81	-49.07	6.81	V	-41.07		
21375 (2562.5)	5 125.00	-56.04	11.01	-63.05	3.81	H	-55.85	1	0
	7 687.50	-54.93	11.58	-56.81	4.66	V	-49.89		
	10 250.00	-55.81	11.42	-55.44	5.54	V	-49.56		
	12 812.50	-57.58	12.74	-53.32	6.20	V	-46.78		
	15 375.00	-68.60	15.26	-49.37	6.87	V	-40.98		

☐ MODE: LTE B7
☐ MODULATION SIGNAL: 20 MHz QPSK
☐ DISTANCE: 1 meters
☐ LIMIT: -25 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
20850 (2510.0)	5 020.00	-56.06	10.90	-62.54	3.69	H	-55.33	1	99
	7 530.00	-55.16	11.61	-57.57	4.60	H	-50.56		
	10 040.00	-56.43	11.38	-55.91	5.49	H	-50.02		
	12 550.00	-56.98	13.11	-53.34	6.19	V	-46.42		
	15 060.00	-68.44	14.39	-50.48	6.78	V	-42.87		
21100 (2535.0)	5 070.00	-56.42	10.92	-63.18	3.80	H	-56.06	1	0
	7 605.00	-55.61	11.66	-57.80	4.64	H	-50.78		
	10 140.00	-55.81	11.34	-55.17	5.48	H	-49.31		
	12 675.00	-56.71	12.88	-52.68	6.24	V	-46.04		
	15 210.00	-67.17	14.81	-48.75	6.81	H	-40.75		
21350 (2560.0)	5 120.00	-55.90	11.00	-63.01	3.81	V	-55.82	1	0
	7 680.00	-55.20	11.60	-57.17	4.70	V	-50.27		
	10 240.00	-54.37	11.41	-53.94	5.54	H	-48.07		
	12 800.00	-58.05	12.75	-53.79	6.21	H	-47.25		
	15 360.00	-66.81	15.21	-47.25	6.88	V	-38.92		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
7	5 MHz	2535.0	QPSK	25	0	5.25	13.00
			16-QAM			5.98	
			64-QAM			6.38	
			256-QAM			6.58	
	10 MHz		QPSK	50		5.35	
			16-QAM			6.06	
			64-QAM			6.39	
			256-QAM			6.58	
	15 MHz		QPSK	75		5.35	
			16-QAM			6.06	
			64-QAM			6.37	
			256-QAM			6.57	
	20 MHz		QPSK	100		5.33	
			16-QAM			6.15	
			64-QAM			6.41	
			256-QAM			6.63	

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 56 ~ 71.
2. P.A.P.R is not required. These values are reported for information only.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
7	5 MHz	2535.0	QPSK	25	0	4.5022
			16-QAM			4.4833
			64-QAM			4.5012
			256-QAM			4.4992
	10 MHz		QPSK	50		8.9755
			16-QAM			8.9846
			64-QAM			8.9853
			256-QAM			8.9776
	15 MHz		QPSK	75		13.461
			16-QAM			13.445
			64-QAM			13.492
			256-QAM			13.470
	20 MHz		QPSK	100		17.945
			16-QAM			17.901
			64-QAM			17.941
			256-QAM			17.920

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 72 ~ 87.

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)
7	5	2502.5	3.80863	28.590	-65.20	-36.607	-25.00
		2535.0	3.82857	28.590	-66.67	-38.082	
		2567.5	4.55638	28.590	-66.56	-37.973	
	10	2505.0	3.77872	28.590	-67.31	-38.723	
		2535.0	5.23434	29.190	-66.25	-37.060	
		2565.0	3.73884	28.590	-66.79	-38.196	
	15	2507.5	9.78066	29.190	-67.12	-37.931	
		2535.0	7.16852	29.190	-66.64	-37.452	
		2562.5	3.75878	28.590	-67.09	-38.502	
	20	2510.0	4.53644	28.590	-65.03	-36.445	
		2535.0	7.46762	29.190	-66.68	-37.490	
		2560.0	5.25428	29.190	-66.77	-37.581	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 88 ~ 111.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor(dB) = Cable Loss + Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.65
1 – 5	28.59
5 – 10	29.19
10 – 15	29.71
15 – 20	30.08
Above 20(26.5)	30.73

8.6 CHANNEL EDGE

Band Width (Modulation)	Frequency (MHz)	RB Size / Offset	C.E ~ (C.E $\pm$ 1 MHz)		2 496 MHz ~ 2 499 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	2 490.5 MHz ~ 2 496 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Below 2 490.5 MHz	Above (C.E + X MHz)
			Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
5 MHz (QPSK)	2502.5	25 / 0	-27.37	-27.39	-24.59	-24.77	-29.53	-30.37	-44.90	-31.09
10 MHz (QPSK)	2505.0	50 / 0	-28.83	-29.22	-26.08	-25.29	-29.49	-29.31	-39.15	-31.53
15 MHz (QPSK)	2507.5	75 / 0	-30.73	-30.02	-26.95	-26.78	-29.60	-29.21	-35.52	-34.35
20 MHz (QPSK)	2510.0	100 / 0	-30.07	-29.97	-27.53	-27.57	-30.19	-29.89	-34.47	-37.25
Limit(dBm)			-10.0		-10.0		-13.0		-25.0	

Band Width (Modulation)	Frequency (MHz)	RB Size / Offset	C.E ~ (C.E $\pm$ 1 MHz)		(C.E $\pm$ 1 MHz) ~ (C.E $\pm$ 5 MHz)	
			Lower	Upper	Lower	Upper
5 MHz (QPSK)	2535.0	25 / 0	-27.00	-27.12	-22.64	-23.03
	2567.5	25 / 0	-27.15	-27.88	-23.80	-23.58
10 MHz (QPSK)	2535.0	50 / 0	-28.84	-28.80	-24.73	-24.43
	2565.0	50 / 0	-28.44	-29.28	-24.56	-24.85
15 MHz (QPSK)	2535.0	75 / 0	-29.88	-29.65	-26.13	-25.69
	2562.5	75 / 0	-28.19	-29.21	-24.68	-25.96
20 MHz (QPSK)	2535.0	100 / 0	-30.64	-29.52	-28.18	-26.98
	2560.0	100 / 0	-29.39	-29.60	-26.77	-26.58
Limit(dBm)			-10.0		-10.0	

Band Width (Modulation)	Frequency (MHz)	Resource Block Size	(C.E $\pm$ 5 MHz) ~ (C.E $\pm$ X MHz)		Above (C.E $\pm$ X MHz)	
			Lower	Upper	Lower	Upper
5 MHz (QPSK)	2535.0	25 / 0	-29.83	-29.12	-31.59	-30.01
	2567.5	25 / 0	-28.68	-30.28	-29.40	-30.64
10 MHz (QPSK)	2535.0	50 / 0	-26.71	-27.58	-31.74	-30.65
	2565.0	50 / 0	-28.02	-28.70	-31.85	-32.34
15 MHz (QPSK)	2535.0	75 / 0	-28.38	-28.40	-35.19	-33.26
	2562.5	75 / 0	-28.16	-28.14	-34.25	-38.73
20 MHz (QPSK)	2535.0	100 / 0	-30.01	-29.67	-35.50	-33.65
	2560.0	100 / 0	-28.86	-29.67	-35.98	-41.27
Limit(dBm)			-13.0		-25.0	

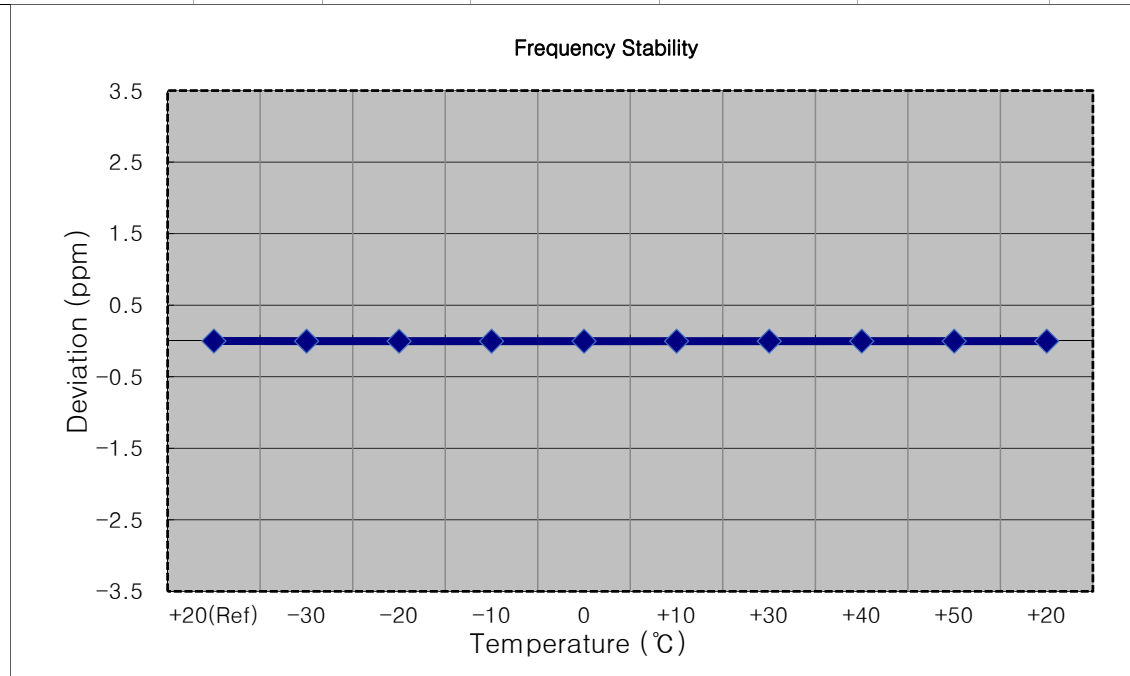
Note:

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. Plots of the EUT's Channel Edge are shown Page 112 ~ 135.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

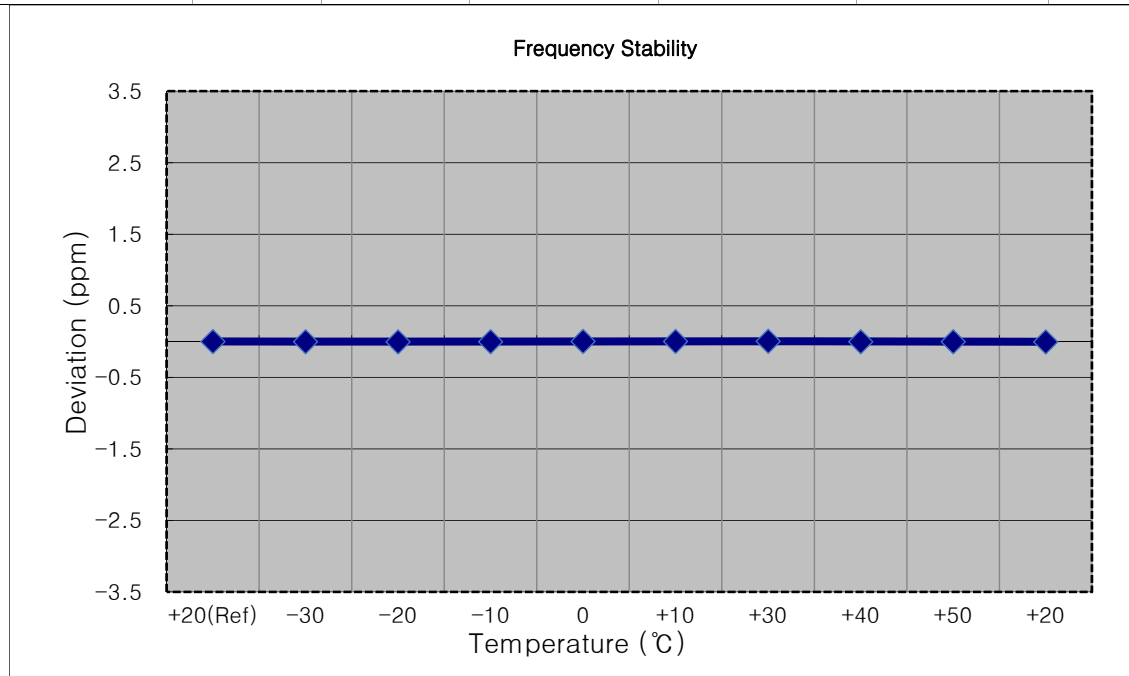
- ▣ MODE: LTE 7
- ▣ OPERATING FREQUENCY: 2,502,500,000 Hz
- ▣ CHANNEL: 20775 (5 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	4.200	+20(Ref)	2502 499 987	0.0	0.000 000	0.000
100 %		-30	2502 499 981	-6.9	0.000 000	-0.003
100 %		-20	2502 499 979	-8.2	0.000 000	-0.003
100 %		-10	2502 499 981	-6.0	0.000 000	-0.002
100 %		0	2502 499 980	-7.0	0.000 000	-0.003
100 %		+10	2502 499 978	-9.8	0.000 000	-0.004
100 %		+30	2502 499 979	-8.4	0.000 000	-0.003
100 %		+40	2502 499 979	-8.8	0.000 000	-0.004
100 %		+50	2502 499 980	-7.1	0.000 000	-0.003
Lowest voltage	3.700	+20	2502 499 980	-7.9	0.000 000	-0.003



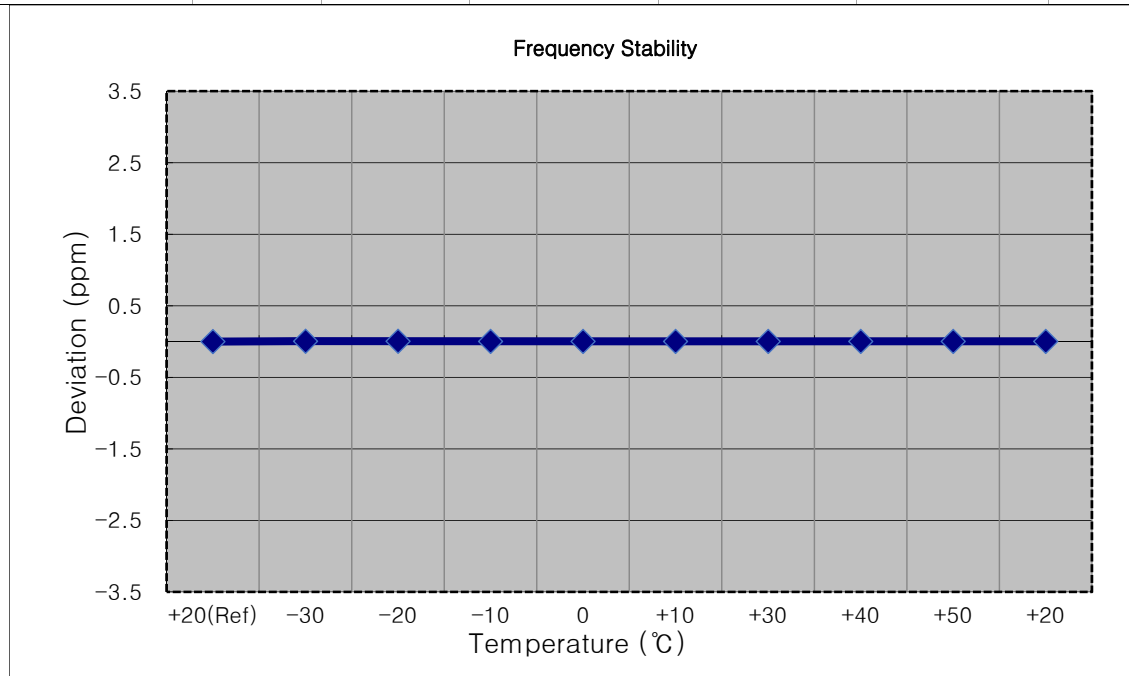
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,505,000,000 Hz</u>
CHANNEL:	<u>20800 (10 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	2504 999 993	0.0	0.000 000	0.000
100 %		-30	2504 999 990	-3.7	0.000 000	-0.001
100 %		-20	2504 999 984	-9.0	0.000 000	-0.004
100 %		-10	2504 999 987	-6.6	0.000 000	-0.003
100 %		0	2504 999 999	5.2	0.000 000	0.002
100 %		+10	2504 999 999	5.1	0.000 000	0.002
100 %		+30	2505 000 003	9.1	0.000 000	0.004
100 %		+40	2504 999 986	-7.5	0.000 000	-0.003
100 %		+50	2504 999 987	-6.4	0.000 000	-0.003
Lowest voltage	3.700	+20	2504 999 985	-8.5	0.000 000	-0.003



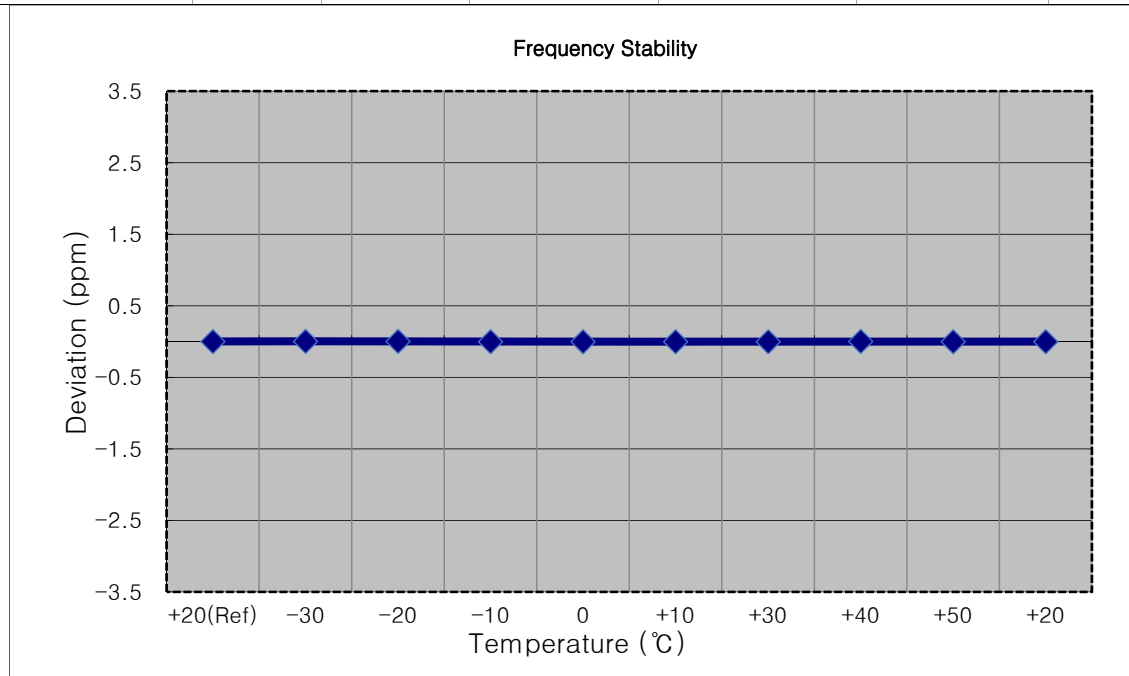
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,507,500,000 Hz</u>
CHANNEL:	<u>20825 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	4.200	+20(Ref)	2507 500 008	0.0	0.000 000	0.000
100 %		-30	2507 500 017	9.6	0.000 000	0.004
100 %		-20	2507 500 019	11.3	0.000 000	0.005
100 %		-10	2507 500 012	3.7	0.000 000	0.001
100 %		0	2507 500 015	7.0	0.000 000	0.003
100 %		+10	2507 500 013	4.8	0.000 000	0.002
100 %		+30	2507 500 016	8.6	0.000 000	0.003
100 %		+40	2507 500 016	8.3	0.000 000	0.003
100 %		+50	2507 500 016	8.5	0.000 000	0.003
Lowest voltage	3.700	+20	2507 500 014	5.9	0.000 000	0.002



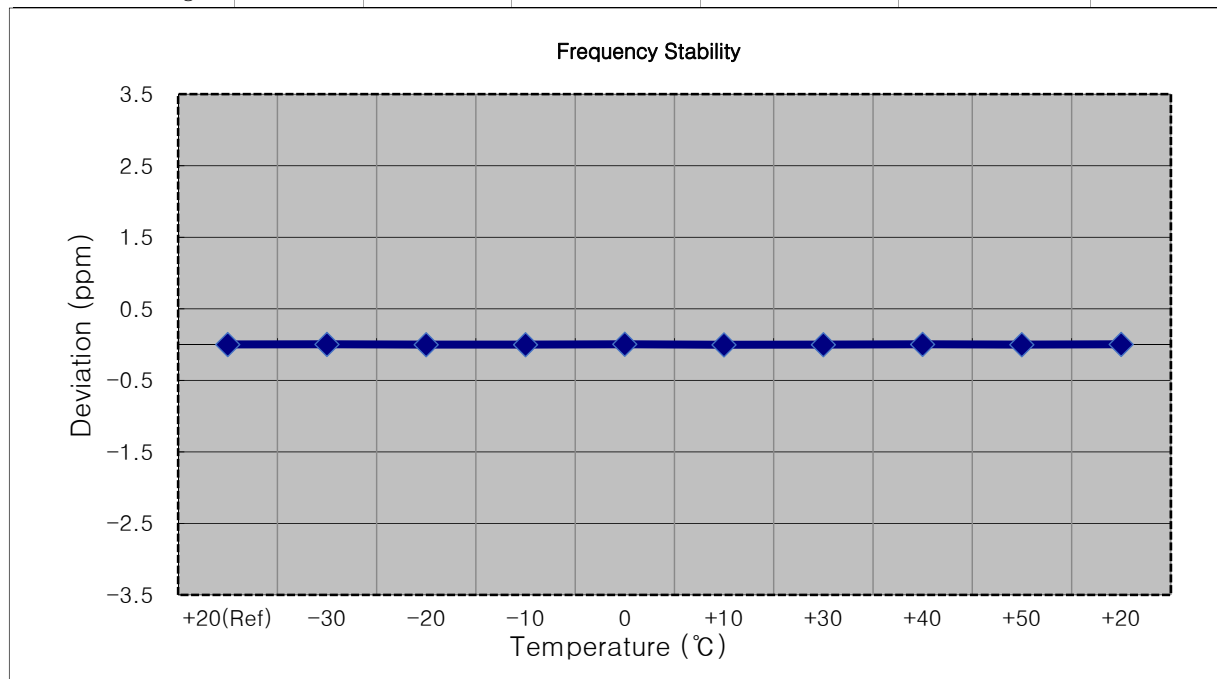
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,510,000,000 Hz</u>
CHANNEL:	<u>20850 (20 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	4.200	+20(Ref)	2509 999 994	0.0	0.000 000	0.000
100 %		-30	2509 999 999	-4.4	0.000 000	0.002
100 %		-20	2509 999 998	3.5	0.000 000	0.001
100 %		-10	2509 999 990	-4.7	0.000 000	-0.002
100 %		0	2509 999 989	-5.6	0.000 000	-0.002
100 %		+10	2509 999 989	-5.9	0.000 000	-0.002
100 %		+30	2509 999 989	-5.8	0.000 000	-0.002
100 %		+40	2509 999 999	4.5	0.000 000	0.002
100 %		+50	2509 999 990	-4.5	0.000 000	-0.002
Lowest voltage	3.700	+20	2509 999 991	-3.3	0.000 000	-0.001



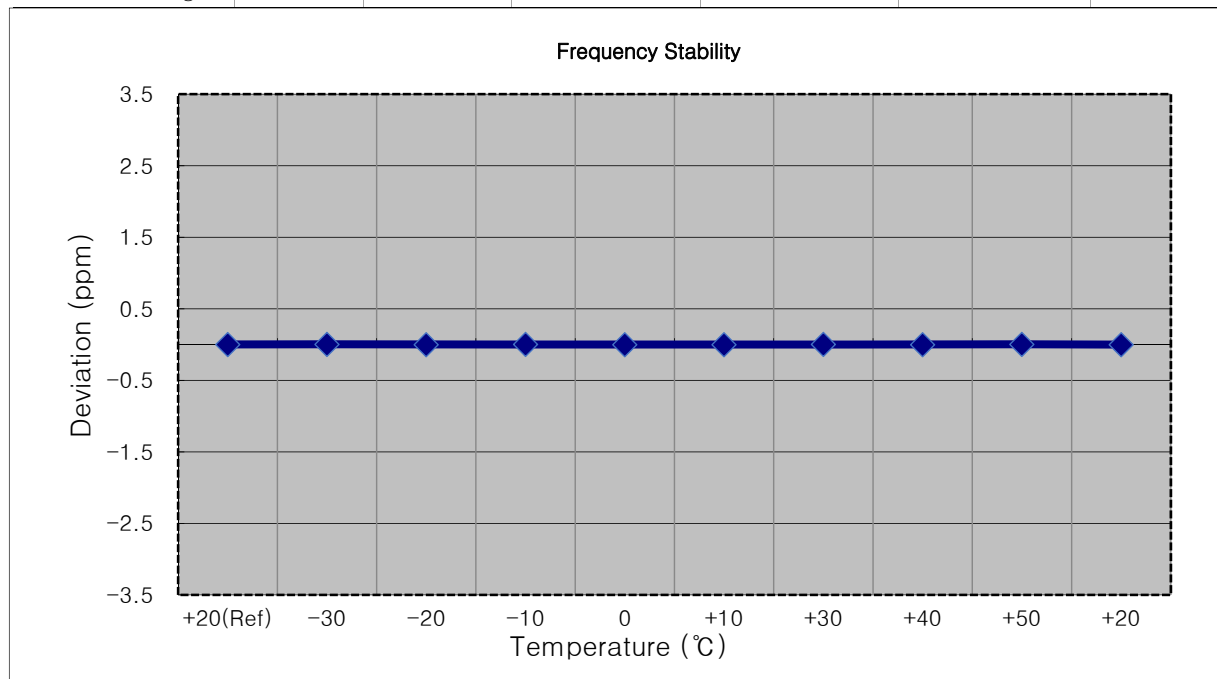
☒ MODE: LTE 7
☒ OPERATING FREQUENCY: 2,535,000,000 Hz
☒ CHANNEL: 21100 (5 MHz)
☒ REFERENCE VOLTAGE: 4.200 VDC
☒ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	2534 999 994	0.0	0.000 000	0.000
100 %		-30	2534 999 998	-4.0	0.000 000	0.002
100 %		-20	2534 999 986	-7.7	0.000 000	-0.003
100 %		-10	2534 999 988	-5.6	0.000 000	-0.002
100 %		0	2535 000 004	10.3	0.000 000	0.004
100 %		+10	2534 999 986	-8.3	0.000 000	-0.003
100 %		+30	2534 999 986	-7.7	0.000 000	-0.003
100 %		+40	2534 999 999	5.0	0.000 000	0.002
100 %		+50	2534 999 987	-6.6	0.000 000	-0.003
Lowest voltage	3.700	+20	2534 999 998	4.5	0.000 000	0.002



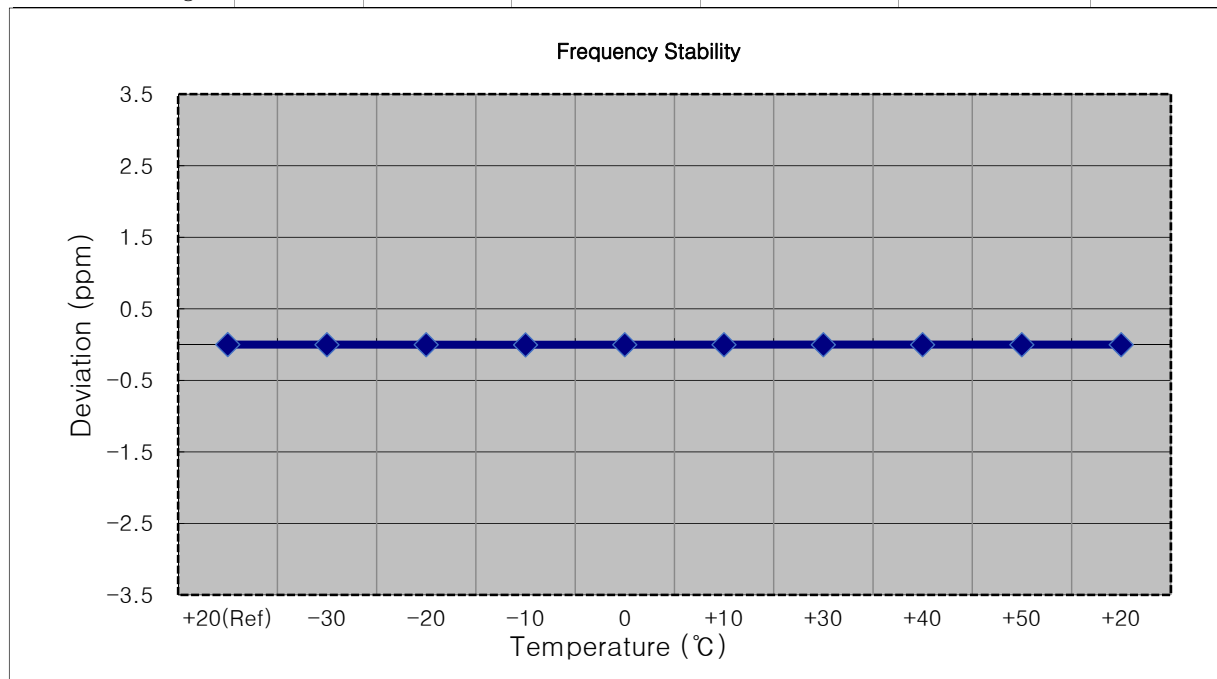
■ MODE: LTE 7
 ■ OPERATING FREQUENCY: 2,535,000,000 Hz
 ■ CHANNEL: 21100 (10 MHz)
 ■ REFERENCE VOLTAGE: 4.200 VDC
 ■ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	2534 999 993	0.0	0.000 000	0.000
100 %		-30	2534 999 998	5.2	0.000 000	0.002
100 %		-20	2534 999 987	-5.9	0.000 000	-0.002
100 %		-10	2535 000 000	7.0	0.000 000	0.003
100 %		0	2534 999 988	-5.2	0.000 000	-0.002
100 %		+10	2534 999 986	-6.8	0.000 000	-0.003
100 %		+30	2534 999 997	3.5	0.000 000	0.001
100 %		+40	2534 999 988	-4.8	0.000 000	-0.002
100 %		+50	2534 999 998	4.7	0.000 000	0.002
Lowest voltage	3.700	+20	2534 999 987	-5.9	0.000 000	-0.002



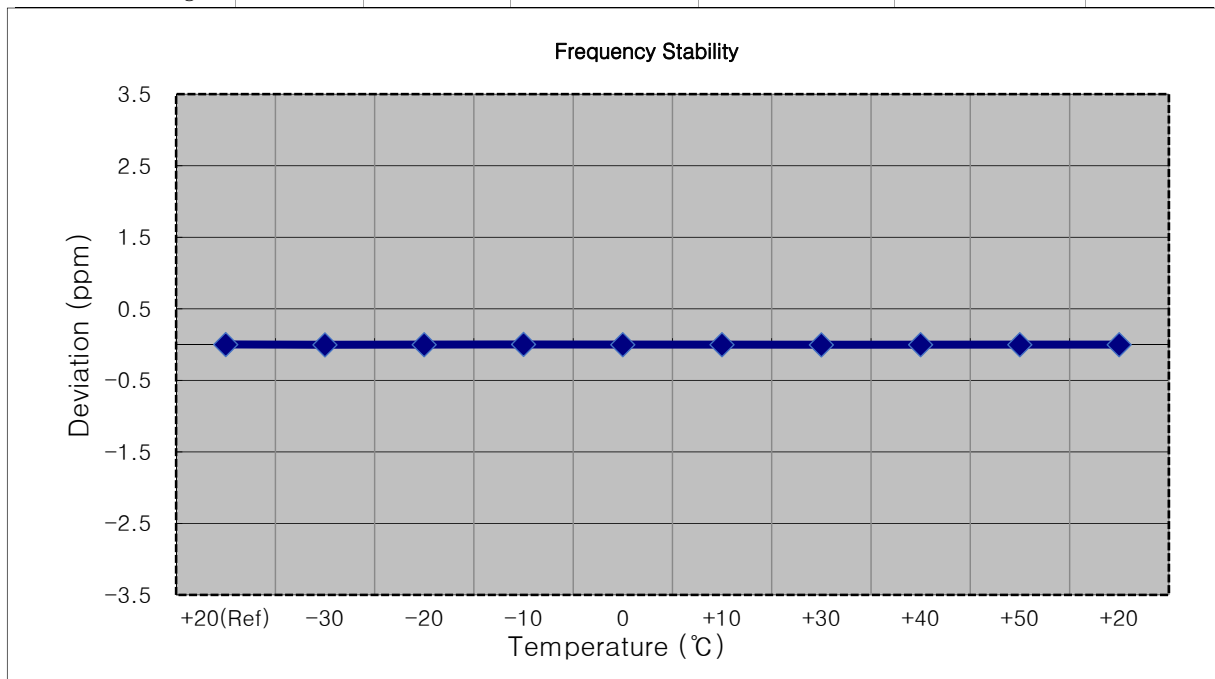
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,535,000,000 Hz</u>
CHANNEL:	<u>21100 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	2534 999 995	0.0	0.000 000	0.000
100 %		-30	2534 999 987	-7.7	0.000 000	-0.003
100 %		-20	2534 999 987	-7.5	0.000 000	-0.003
100 %		-10	2534 999 983	-11.7	0.000 000	-0.005
100 %		0	2534 999 990	-5.0	0.000 000	-0.002
100 %		+10	2534 999 988	-6.7	0.000 000	-0.003
100 %		+30	2534 999 990	-4.5	0.000 000	-0.002
100 %		+40	2534 999 987	-7.4	0.000 000	-0.003
100 %		+50	2534 999 989	-5.4	0.000 000	-0.002
Lowest voltage	3.700	+20	2534 999 990	-4.6	0.000 000	-0.002



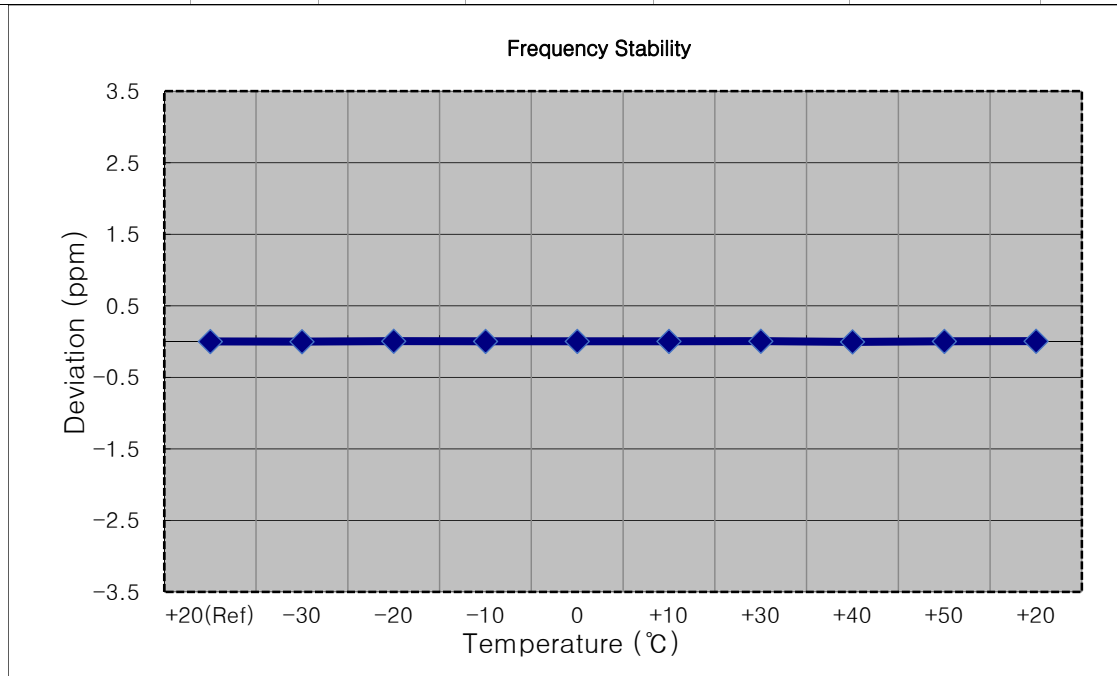
■ MODE: LTE 7
 ■ OPERATING FREQUENCY: 2,535,000,000 Hz
 ■ CHANNEL: 21100 (20 MHz)
 ■ REFERENCE VOLTAGE: 4.200 VDC
 ■ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	2535 000 006	0.0	0.000 000	0.000
100 %		-30	2534 999 998	-8.1	0.000 000	-0.003
100 %		-20	2535 000 000	-5.7	0.000 000	-0.002
100 %		-10	2535 000 011	5.2	0.000 000	0.002
100 %		0	2535 000 000	-6.1	0.000 000	-0.002
100 %		+10	2534 999 999	-6.5	0.000 000	-0.003
100 %		+30	2534 999 995	-10.5	0.000 000	-0.004
100 %		+40	2535 000 002	-4.2	0.000 000	-0.002
100 %		+50	2535 000 000	-5.6	0.000 000	-0.002
Lowest voltage	3.700	+20	2534 999 998	-7.6	0.000 000	-0.003



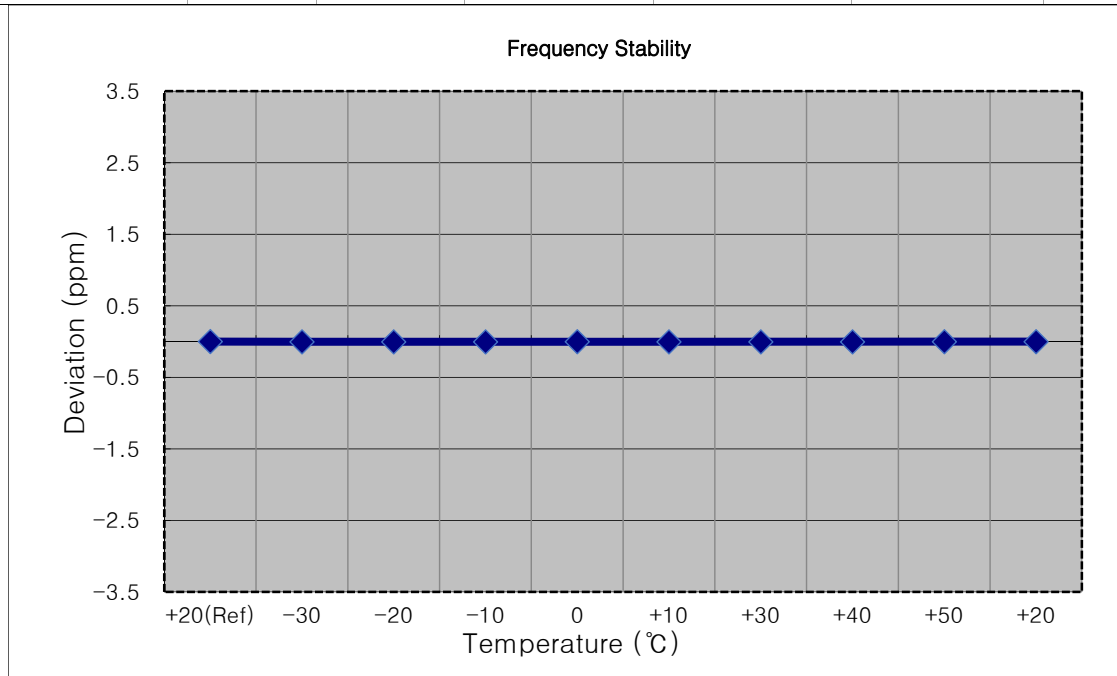
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,567,500,000 Hz</u>
CHANNEL:	<u>21425 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	2567 499 993	0.0	0.000 000	0.000
100 %		-30	2567 499 985	-7.2	0.000 000	-0.003
100 %		-20	2567 500 005	12.7	0.000 000	0.005
100 %		-10	2567 499 998	5.6	0.000 000	0.002
100 %		0	2567 499 998	5.3	0.000 000	0.002
100 %		+10	2567 499 999	6.4	0.000 000	0.002
100 %		+30	2567 500 002	9.5	0.000 000	0.004
100 %		+40	2567 499 981	-11.6	0.000 000	-0.005
100 %		+50	2567 500 001	8.2	0.000 000	0.003
Lowest voltage	3.700	+20	2567 500 002	9.6	0.000 000	0.004



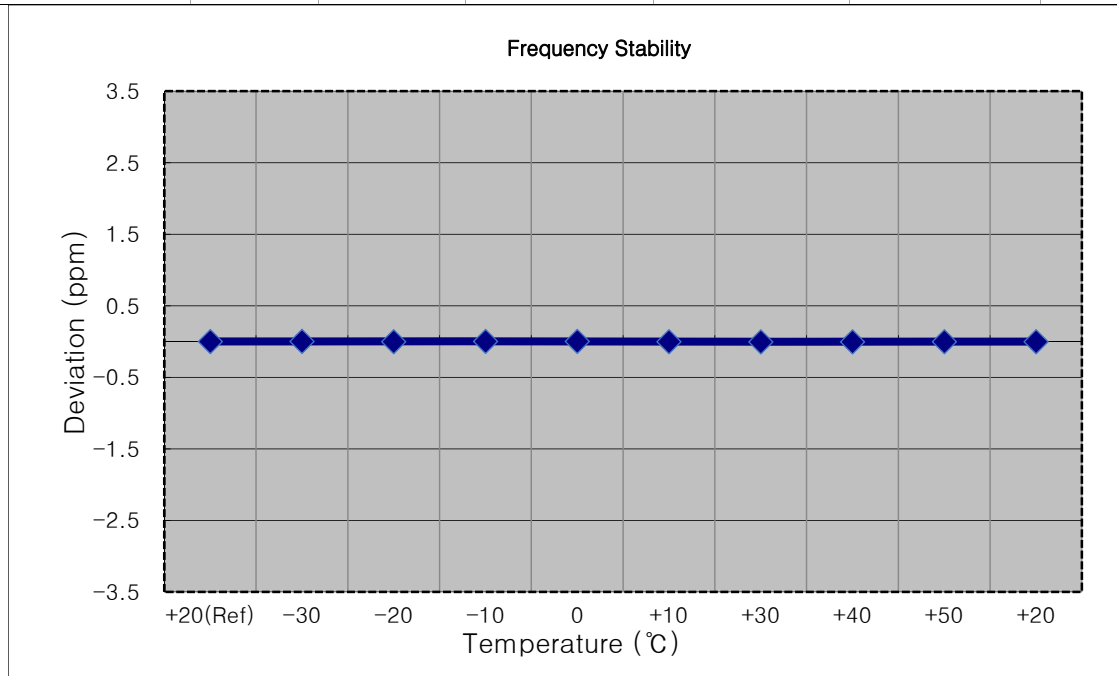
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,565,000,000 Hz</u>
CHANNEL:	<u>21400 (10 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	4.200	+20(Ref)	2564 999 988	0.0	0.000 000	0.000
100 %		-30	2564 999 978	-10.0	0.000 000	-0.004
100 %		-20	2564 999 977	-11.3	0.000 000	-0.004
100 %		-10	2564 999 978	-10.1	0.000 000	-0.004
100 %		0	2564 999 980	-8.0	0.000 000	-0.003
100 %		+10	2564 999 978	-10.3	0.000 000	-0.004
100 %		+30	2564 999 980	-8.7	0.000 000	-0.003
100 %		+40	2564 999 978	-10.6	0.000 000	-0.004
100 %		+50	2564 999 982	-6.4	0.000 000	-0.002
Lowest voltage	3.700	+20	2564 999 981	-7.0	0.000 000	-0.003



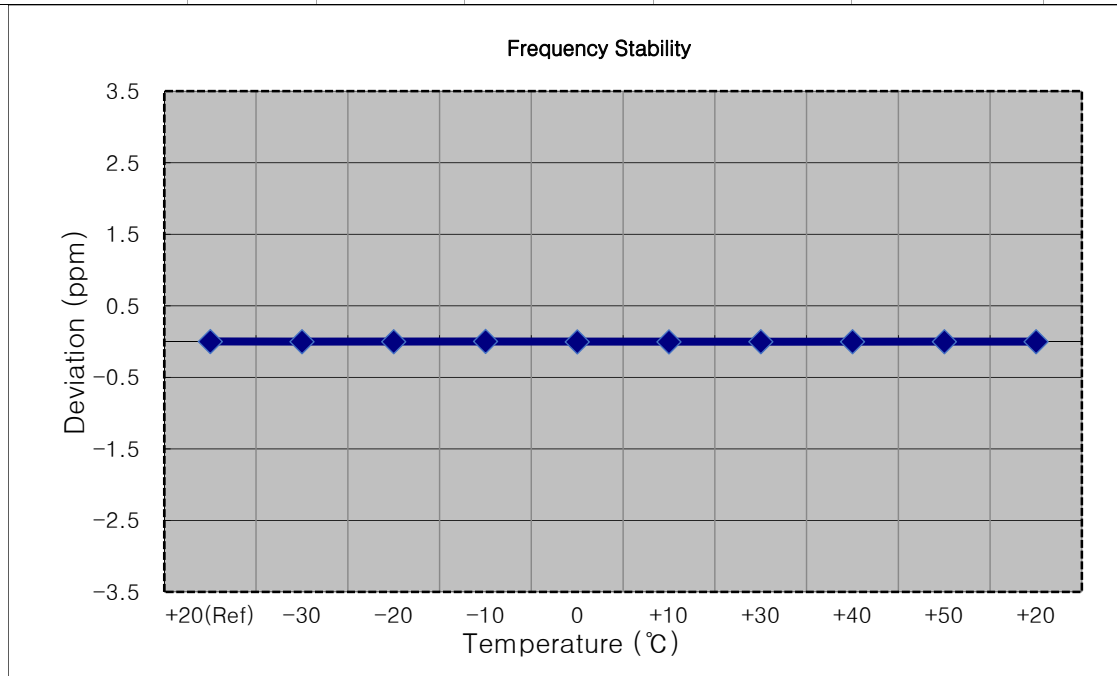
MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,562,500,000 Hz</u>
CHANNEL:	<u>21375 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	4.200	+20(Ref)	2562 499 991	0.0	0.000 000	0.000
100 %		-30	2562 499 997	6.0	0.000 000	0.002
100 %		-20	2562 499 984	-7.7	0.000 000	-0.003
100 %		-10	2562 499 997	5.4	0.000 000	0.002
100 %		0	2562 499 997	5.8	0.000 000	0.002
100 %		+10	2562 499 986	-4.8	0.000 000	-0.002
100 %		+30	2562 499 983	-8.2	0.000 000	-0.003
100 %		+40	2562 499 983	-8.4	0.000 000	-0.003
100 %		+50	2562 499 985	-6.2	0.000 000	-0.002
Lowest voltage	3.700	+20	2562 499 984	-7.5	0.000 000	-0.003



MODE:	<u>LTE 7</u>
OPERATING FREQUENCY:	<u>2,560,000,000 Hz</u>
CHANNEL:	<u>21350 (20 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency Error	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	(Hz)	(%)	
100 %	4.200	+20(Ref)	2559 999 992	0.0	0.000 000	0.000
100 %		-30	2559 999 986	-6.6	0.000 000	-0.003
100 %		-20	2559 999 986	-6.1	0.000 000	-0.002
100 %		-10	2560 000 001	8.5	0.000 000	0.003
100 %		0	2559 999 983	-9.4	0.000 000	-0.004
100 %		+10	2559 999 984	-8.2	0.000 000	-0.003
100 %		+30	2559 999 986	-6.0	0.000 000	-0.002
100 %		+40	2559 999 985	-6.7	0.000 000	-0.003
100 %		+50	2559 999 987	-4.7	0.000 000	-0.002
Lowest voltage	3.700	+20	2559 999 985	-7.0	0.000 000	-0.003



9. TEST DATA (Internal(BUA))

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

aw	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2502.5	LTE B7/ 5 MHz	QPSK	-25.37	13.08	10.26	2.51	H	< 2.00	0.121	20.83	1	0
		16-QAM	-25.93	12.52	10.26	2.51	H		0.106	20.27		
		64-QAM	-27.19	11.26	10.26	2.51	H		0.080	19.01		
		256-QAM	-30.22	8.23	10.26	2.51	H		0.040	15.98		
2535.0		QPSK	-24.25	14.59	10.25	2.54	H		0.170	22.30	1	13
		16-QAM	-25.15	13.69	10.25	2.54	H		0.138	21.40		
		64-QAM	-25.94	12.90	10.25	2.54	H		0.115	20.61		
		256-QAM	-29.00	9.84	10.25	2.54	H		0.057	17.55		
2567.5		QPSK	-24.74	14.34	10.27	2.65	H		0.157	21.96	1	13
		16-QAM	-24.96	14.12	10.27	2.65	H		0.149	21.74		
		64-QAM	-25.97	13.11	10.27	2.65	H		0.118	20.73		
		256-QAM	-32.37	6.71	10.27	2.65	H		0.027	14.33		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2505.0	LTE B7/ 10 MHz	QPSK	-25.34	13.11	10.26	2.51	H	< 2.00	0.122	20.86	1	49
		16-QAM	-26.31	12.14	10.26	2.51	H		0.097	19.89		
		64-QAM	-27.03	11.42	10.26	2.51	H		0.083	19.17		
		256-QAM	-30.15	8.30	10.26	2.51	H		0.040	16.05		
2535.0		QPSK	-24.31	14.53	10.25	2.54	H		0.167	22.24	1	25
		16-QAM	-25.07	13.77	10.25	2.54	H		0.141	21.48		
		64-QAM	-26.11	12.73	10.25	2.54	H		0.111	20.44		
		256-QAM	-29.02	9.82	10.25	2.54	H		0.057	17.53		
2565.0		QPSK	-24.67	14.39	10.26	2.62	H		0.160	22.03	1	0
		16-QAM	-25.32	13.74	10.26	2.62	H		0.137	21.38		
		64-QAM	-26.06	13.00	10.26	2.62	H		0.116	20.64		
		256-QAM	-29.20	9.86	10.26	2.62	H		0.056	17.50		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2507.5	LTE B7/ 15 MHz	QPSK	-25.01	13.52	10.26	2.51	H	< 2.00	0.134	21.27	1	74
		16-QAM	-25.86	12.67	10.26	2.51	H		0.110	20.42		
		64-QAM	-26.92	11.61	10.26	2.51	H		0.086	19.36		
		256-QAM	-29.87	8.66	10.26	2.51	H		0.044	16.41		
2535.0		QPSK	-24.33	14.51	10.25	2.54	H		0.167	22.22	1	74
		16-QAM	-25.16	13.68	10.25	2.54	H		0.138	21.39		
		64-QAM	-26.21	12.63	10.25	2.54	H		0.108	20.34		
		256-QAM	-29.08	9.76	10.25	2.54	H		0.056	17.47		
2562.5		QPSK	-24.26	14.80	10.26	2.62	H		0.175	22.44	1	0
		16-QAM	-24.95	14.11	10.26	2.62	H		0.150	21.75		
		64-QAM	-26.03	13.03	10.26	2.62	H		0.117	20.67		
		256-QAM	-29.01	10.05	10.26	2.62	H		0.059	17.69		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2510.0	LTE B7/ 20 MHz	QPSK	-25.43	13.10	10.26	2.51	H	< 2.00	0.122	20.85	1	99
		16-QAM	-26.21	12.32	10.26	2.51	H		0.102	20.07		
		64-QAM	-27.02	11.51	10.26	2.51	H		0.084	19.26		
		256-QAM	-30.20	8.33	10.26	2.51	H		0.041	16.08		
QPSK		-24.50	14.34	10.25	2.54	H	0.160		22.05	1	50	
16-QAM		-25.56	13.28	10.25	2.54	H	0.126		20.99			
64-QAM		-26.22	12.62	10.25	2.54	H	0.108		20.33			
256-QAM		-29.35	9.49	10.25	2.54	H	0.052		17.20			
2560.0		QPSK	-24.61	14.43	10.26	2.59	H		0.162	22.10	1	0
		16-QAM	-25.36	13.68	10.26	2.59	H		0.136	21.35		
		64-QAM	-26.36	12.68	10.26	2.59	H		0.108	20.35		
		256-QAM	-29.43	9.61	10.26	2.59	H		0.053	17.28		

9.2 RADIATED SPURIOUS EMISSIONS

MODE: LTE B7
 MODULATION SIGNAL: 5 MHz QPSK
 DISTANCE: 1 meters
 LIMIT: -25 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
20775 (2502.5)	5 005.00	-55.22	10.91	-61.76	3.71	V	-54.56	1	0
	7 507.50	-55.54	11.59	-57.65	4.60	H	-50.66		
	10 010.00	-53.93	11.39	-53.52	5.47	V	-47.60		
	12 512.50	-56.79	13.16	-53.27	6.09	V	-46.20		
	15 015.00	-63.81	14.28	-45.69	6.76	V	-38.17		
21100 (2535.0)	5 070.00	-55.54	10.92	-62.30	3.80	V	-55.18	1	13
	7 605.00	-54.27	11.66	-56.46	4.64	H	-49.44		
	10 140.00	-54.47	11.34	-53.83	5.48	V	-47.97		
	12 675.00	-56.63	12.88	-52.60	6.24	V	-45.96		
	15 210.00	-62.38	14.81	-43.96	6.81	V	-35.96		
21425 (2567.5)	5 135.00	-53.56	11.04	-60.67	3.81	V	-53.44	1	13
	7 702.50	-53.52	11.56	-55.18	4.66	V	-48.28		
	10 270.00	-54.48	11.46	-53.84	5.57	H	-47.95		
	12 837.50	-55.86	12.73	-51.24	6.24	V	-44.75		
	15 405.00	-62.26	15.34	-43.11	6.85	H	-34.62		

■ MODE: LTE B7
 ■ MODULATION SIGNAL: 10 MHz QPSK
 ■ DISTANCE: 1 meters
 ■ LIMIT: -25 dBm

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
20800 (2505.0)	5 010.00	-55.29	10.91	-61.88	3.72	H	-54.69	1	49
	7 515.00	-55.52	11.59	-57.76	4.60	H	-50.77		
	10 020.00	-54.30	11.39	-53.45	5.47	H	-47.53		
	12 525.00	-56.18	13.14	-52.70	6.09	H	-45.65		
	15 030.00	-62.81	14.32	-45.00	6.73	H	-37.41		
21100 (2535.0)	5 070.00	-54.45	10.92	-61.21	3.80	V	-54.09	1	25
	7 605.00	-54.25	11.66	-56.44	4.64	H	-49.42		
	10 140.00	-53.87	11.34	-53.23	5.48	H	-47.37		
	12 675.00	-56.23	12.88	-52.20	6.24	V	-45.56		
	15 210.00	-63.18	14.81	-44.76	6.81	H	-36.76		
21400 (2565.0)	5 130.00	-55.56	11.02	-62.47	3.81	V	-55.26	1	0
	7 695.00	-53.38	11.58	-55.21	4.66	H	-48.29		
	10 260.00	-53.18	11.44	-52.51	5.56	V	-46.63		
	12 825.00	-56.57	12.74	-52.22	6.21	V	-45.69		
	15 390.00	-62.88	15.30	-43.65	6.85	V	-35.20		

☐ MODE: LTE B7
☐ MODULATION SIGNAL: 15 MHz QPSK
☐ DISTANCE: 1 meters
☐ LIMIT: -25 dBm

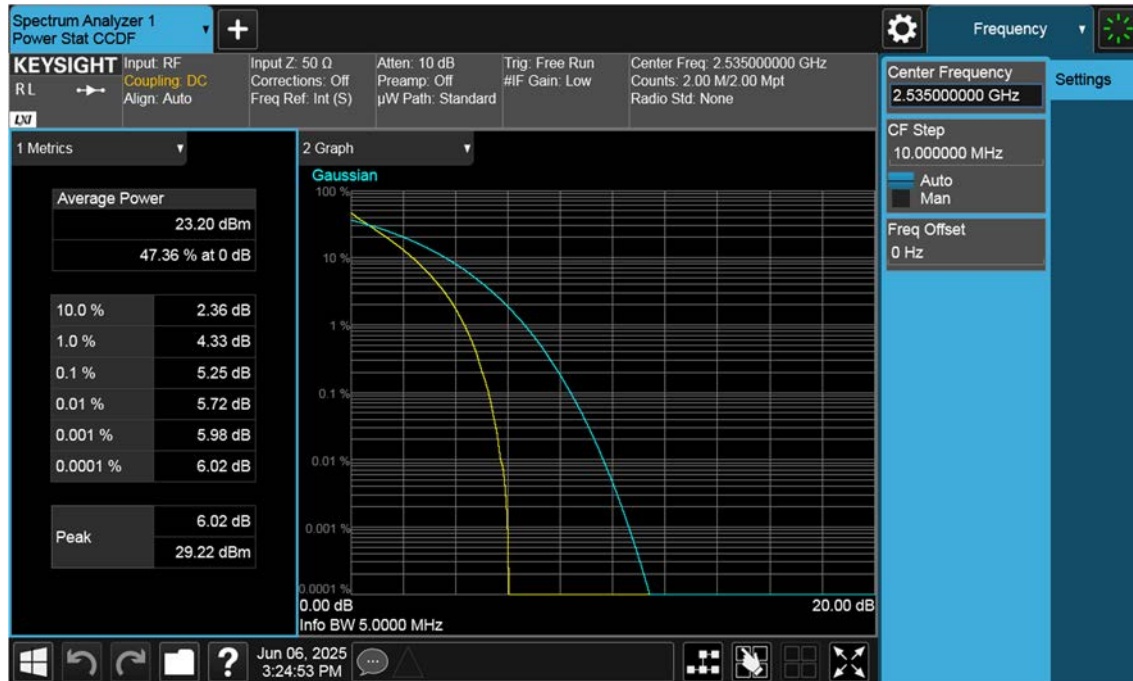
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								Size	Offset
20825 (2507.5)	5 015.00	-55.34	10.91	-61.89	3.70	V	-54.68	1	74
	7 522.50	-53.70	11.60	-56.08	4.61	V	-49.09		
	10 030.00	-54.13	11.39	-53.48	5.47	V	-47.56		
	12 537.50	-56.31	13.13	-52.73	6.13	V	-45.73		
	15 045.00	-62.01	14.35	-44.12	6.75	V	-36.52		
21100 (2535.0)	5 070.00	-54.74	10.92	-61.50	3.80	H	-54.38	1	74
	7 605.00	-54.13	11.66	-56.32	4.64	H	-49.30		
	10 140.00	-54.49	11.34	-53.85	5.48	V	-47.99		
	12 675.00	-56.06	12.88	-52.03	6.24	V	-45.39		
	15 210.00	-61.47	14.81	-43.05	6.81	V	-35.05		
21375 (2562.5)	5 125.00	-54.08	11.01	-61.09	3.81	H	-53.89	1	0
	7 687.50	-53.82	11.58	-55.70	4.66	V	-48.78		
	10 250.00	-54.04	11.42	-53.67	5.54	V	-47.79		
	12 812.50	-56.23	12.74	-51.97	6.20	V	-45.43		
	15 375.00	-61.11	15.26	-41.88	6.87	V	-33.49		

☐ MODE: LTE B7
☐ MODULATION SIGNAL: 20 MHz QPSK
☐ DISTANCE: 1 meters
☐ LIMIT: -25 dBm

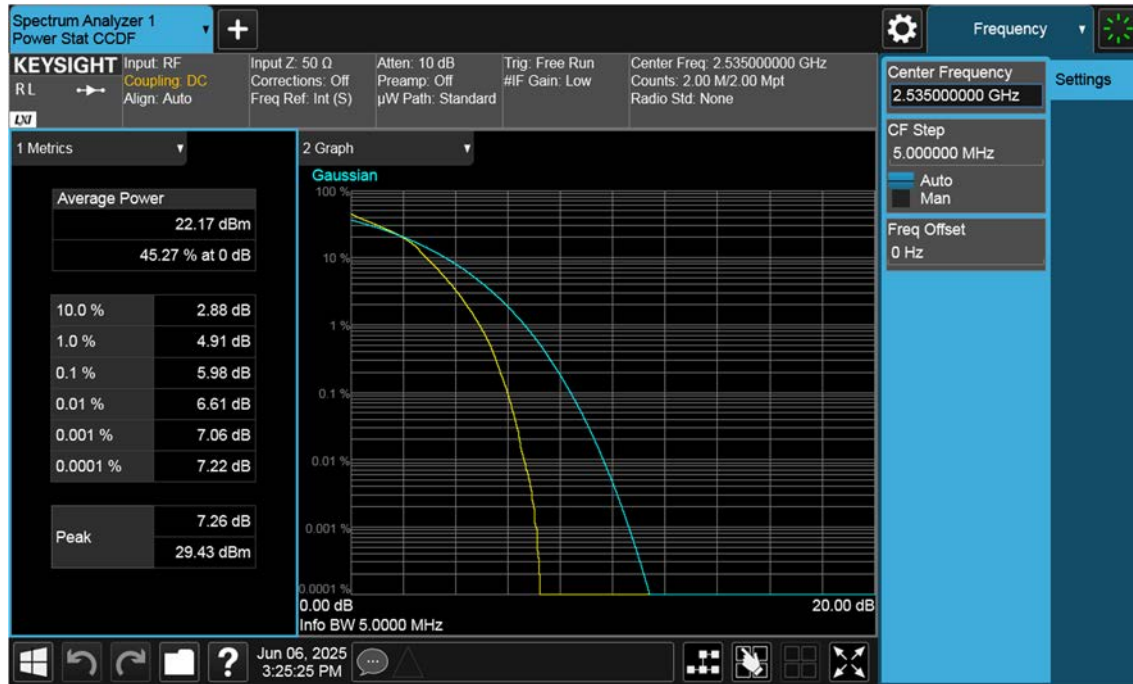
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								Size	Offset
20850 (2510.0)	5 020.00	-55.56	10.90	-62.04	3.69	H	-54.83	1	99
	7 530.00	-54.93	11.61	-57.34	4.60	V	-50.33		
	10 040.00	-54.44	11.38	-53.92	5.49	V	-48.03		
	12 550.00	-56.44	13.11	-52.80	6.19	V	-45.88		
	15 060.00	-62.08	14.39	-44.12	6.78	H	-36.51		
21100 (2535.0)	5 070.00	-54.83	10.92	-61.59	3.80	H	-54.47	1	50
	7 605.00	-54.45	11.66	-56.64	4.64	V	-49.62		
	10 140.00	-54.32	11.34	-53.68	5.48	H	-47.82		
	12 675.00	-55.20	12.88	-51.17	6.24	V	-44.53		
	15 210.00	-62.66	14.81	-44.24	6.81	V	-36.24		
21350 (2560.0)	5 120.00	-54.10	11.00	-61.21	3.81	H	-54.02	1	0
	7 680.00	-54.51	11.60	-56.48	4.70	H	-49.58		
	10 240.00	-53.94	11.41	-53.51	5.54	H	-47.64		
	12 800.00	-56.21	12.75	-51.95	6.21	H	-45.41		
	15 360.00	-61.65	15.21	-42.09	6.88	V	-33.76		

10. TEST PLOTS

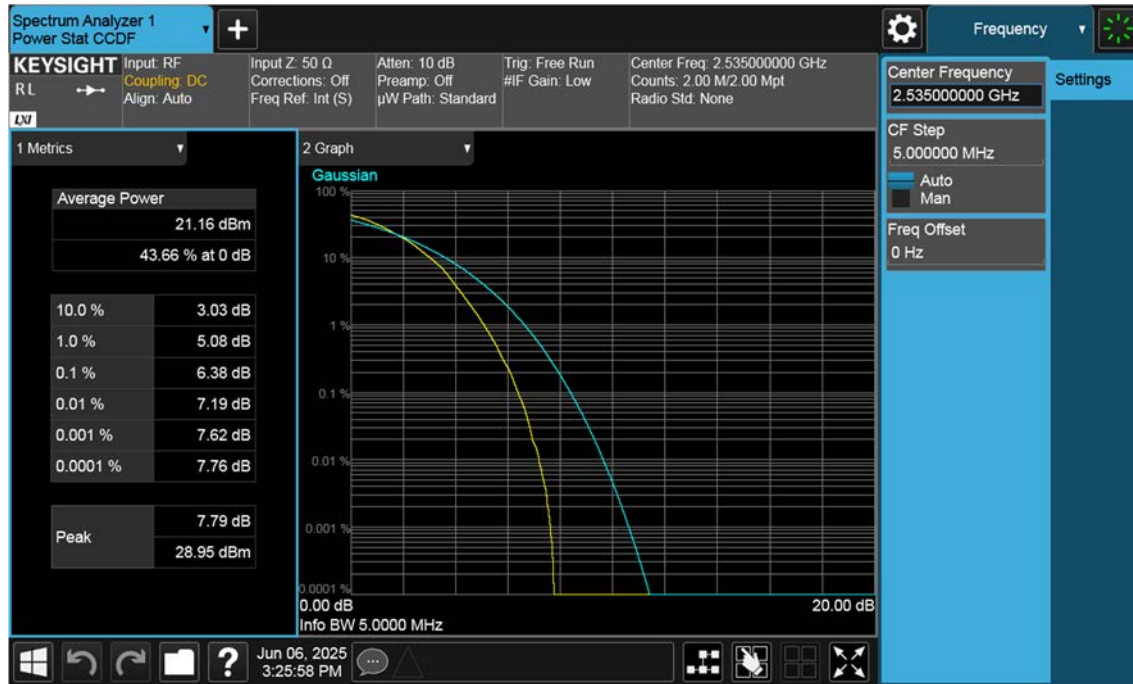
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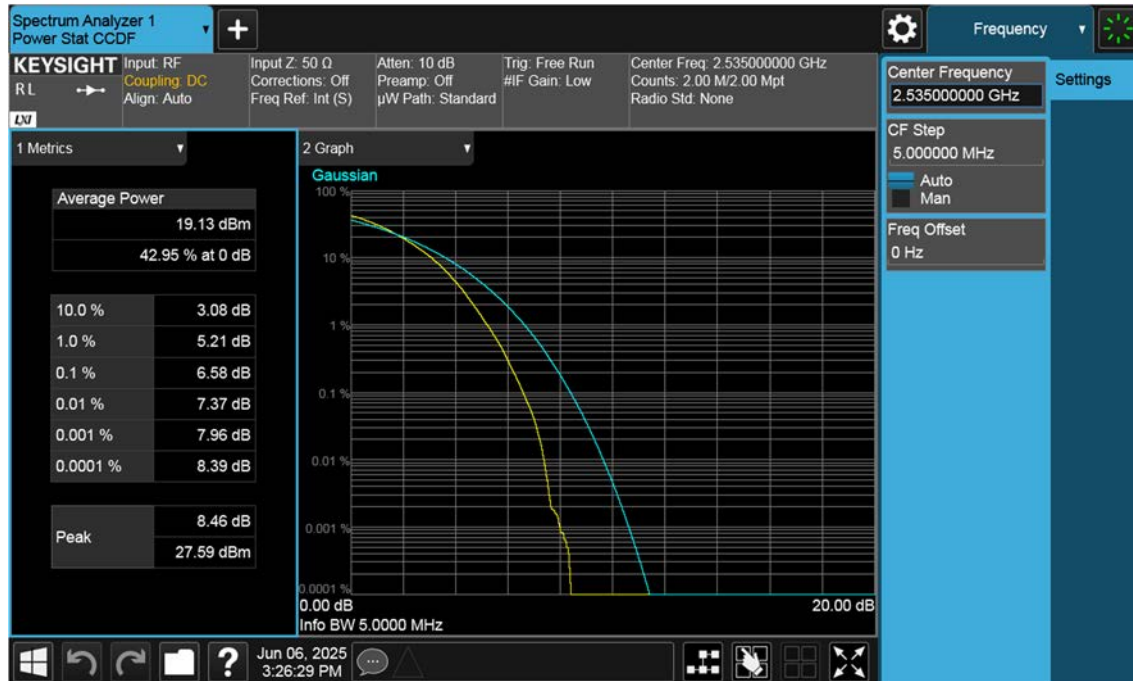
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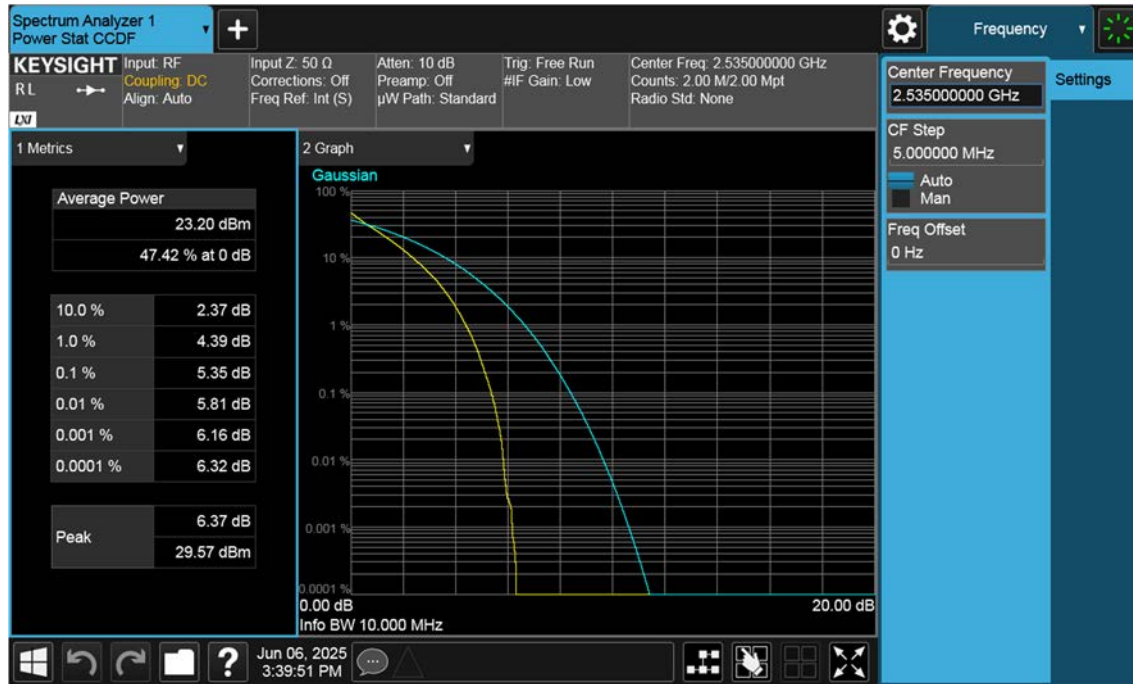
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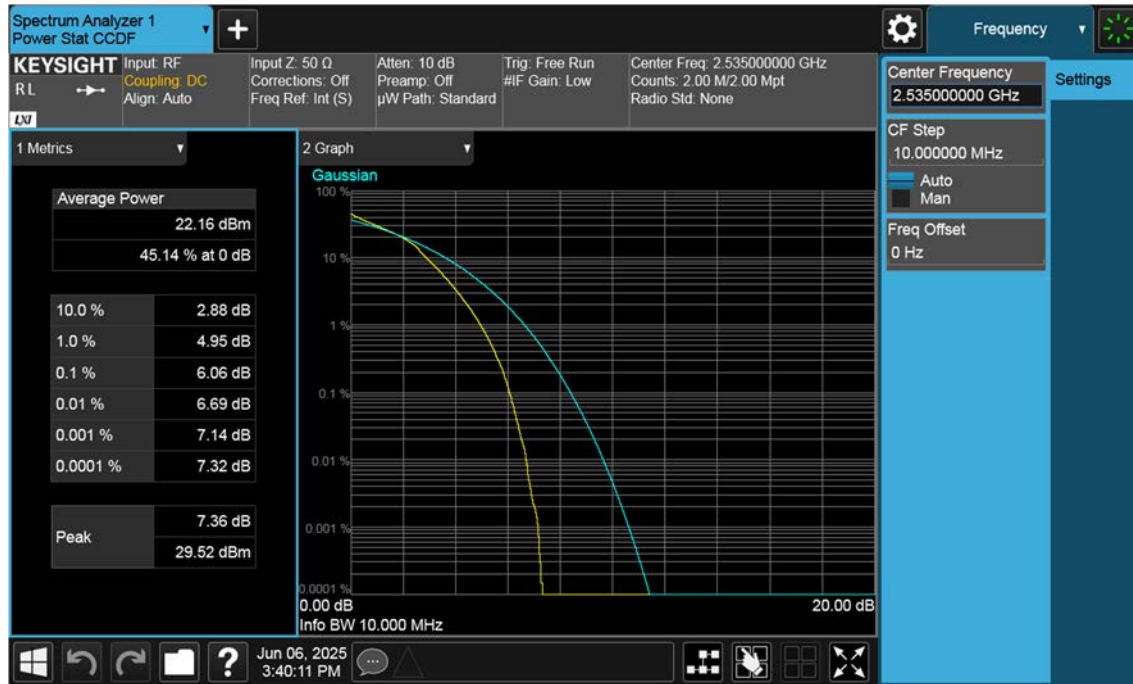
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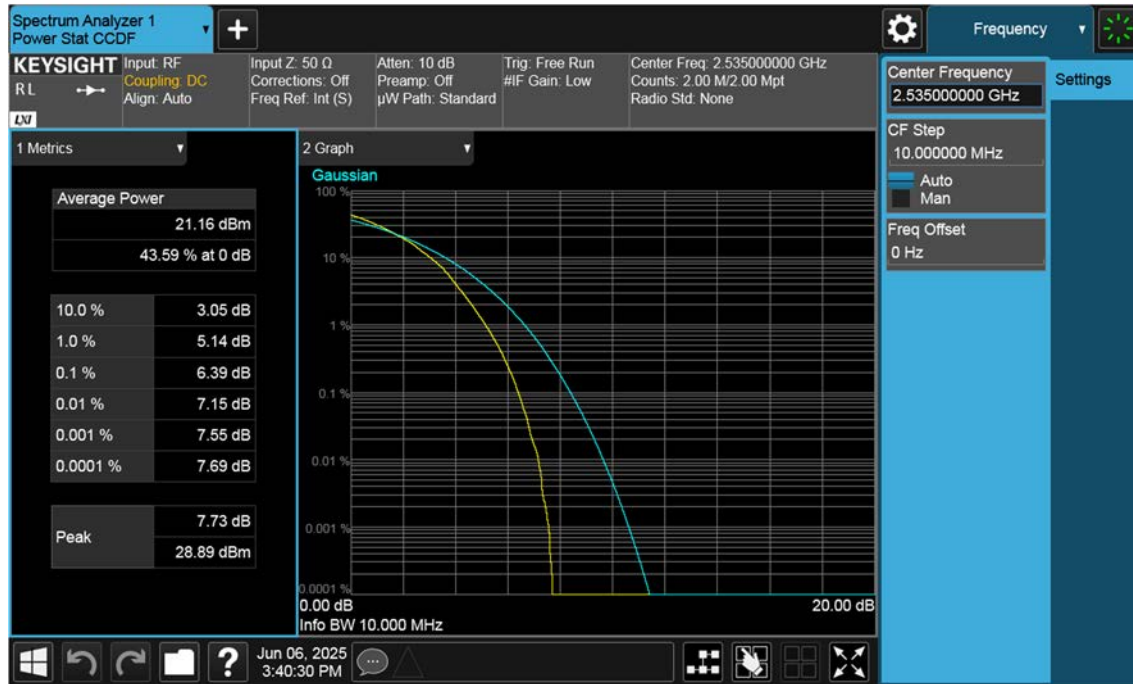
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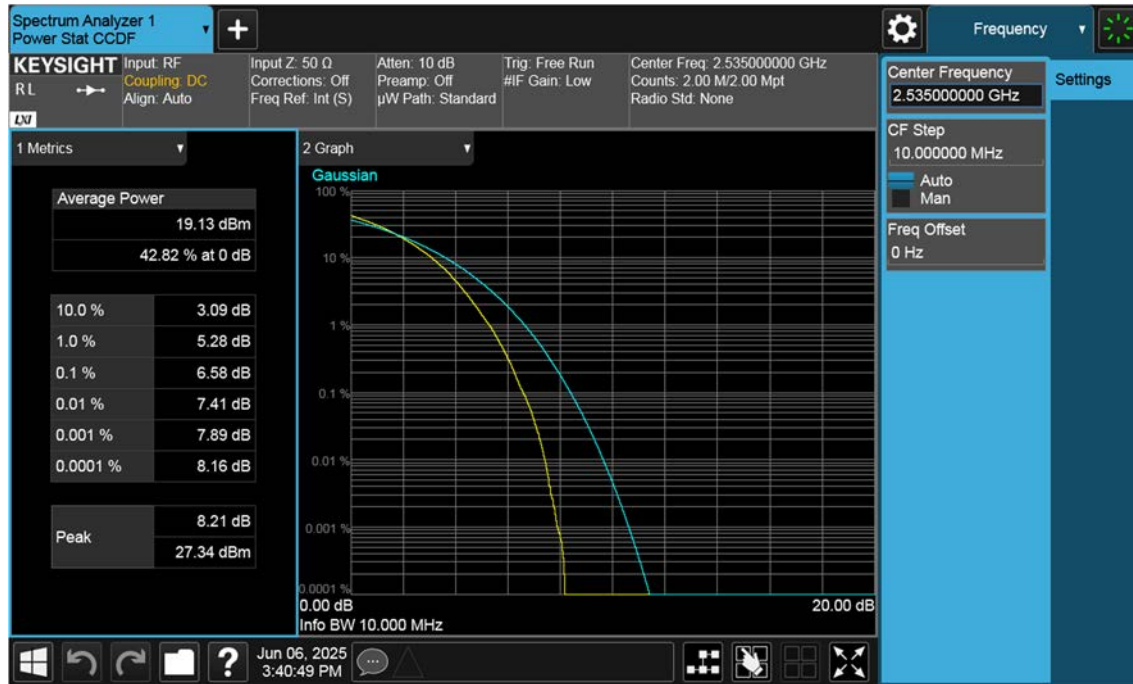
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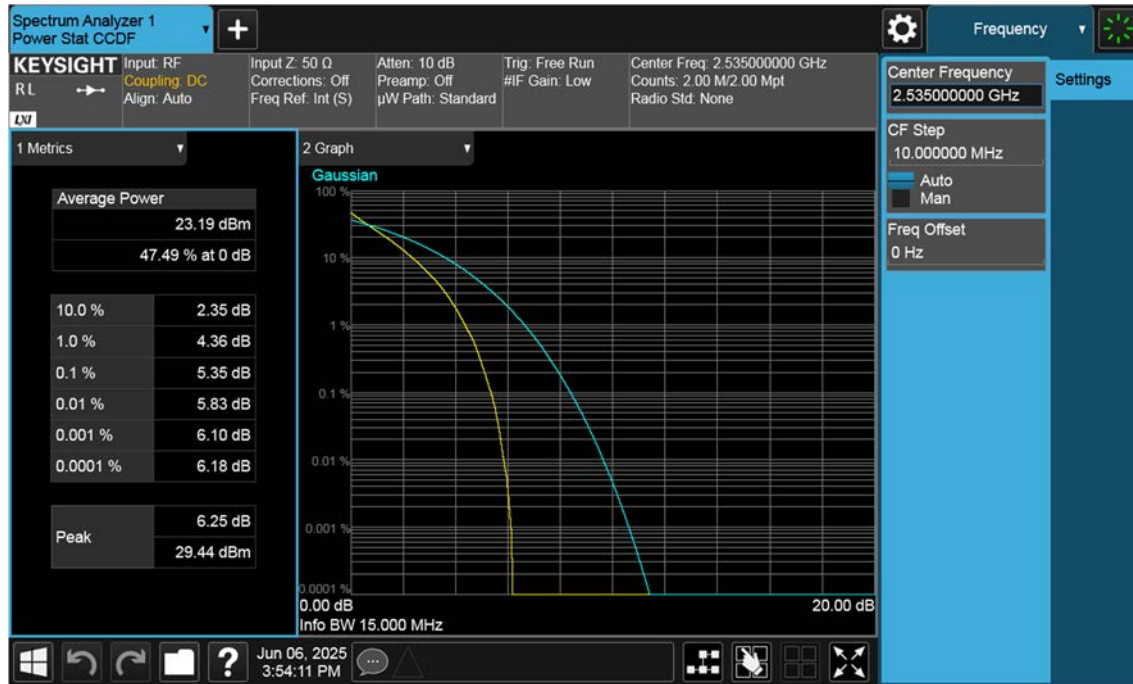
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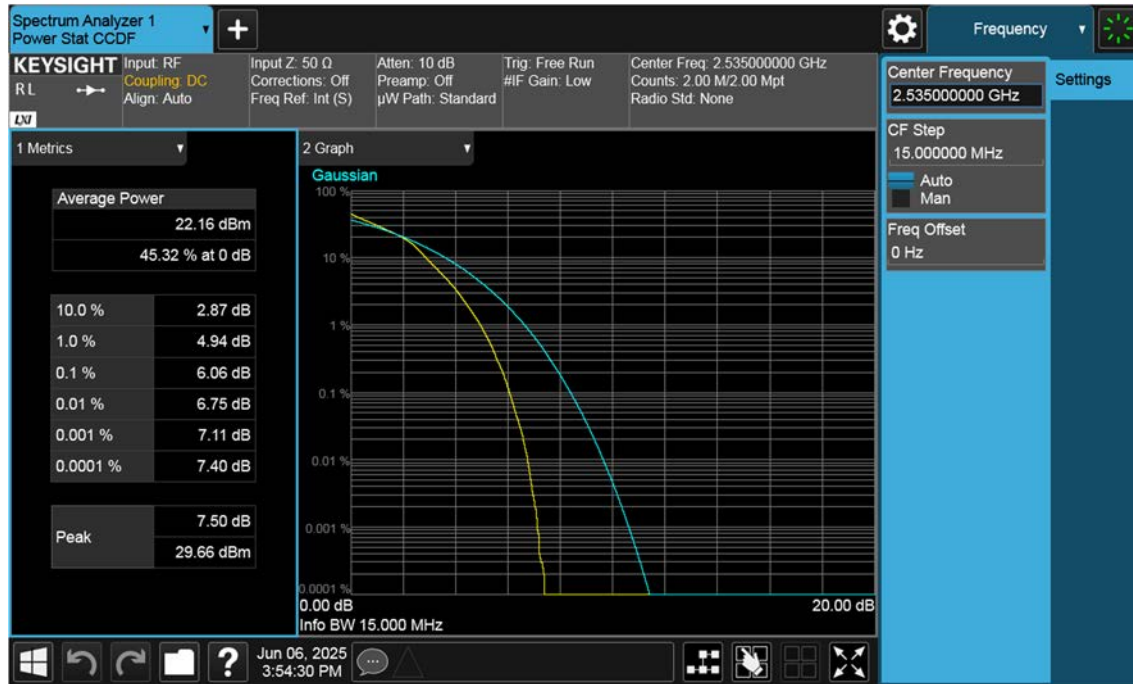
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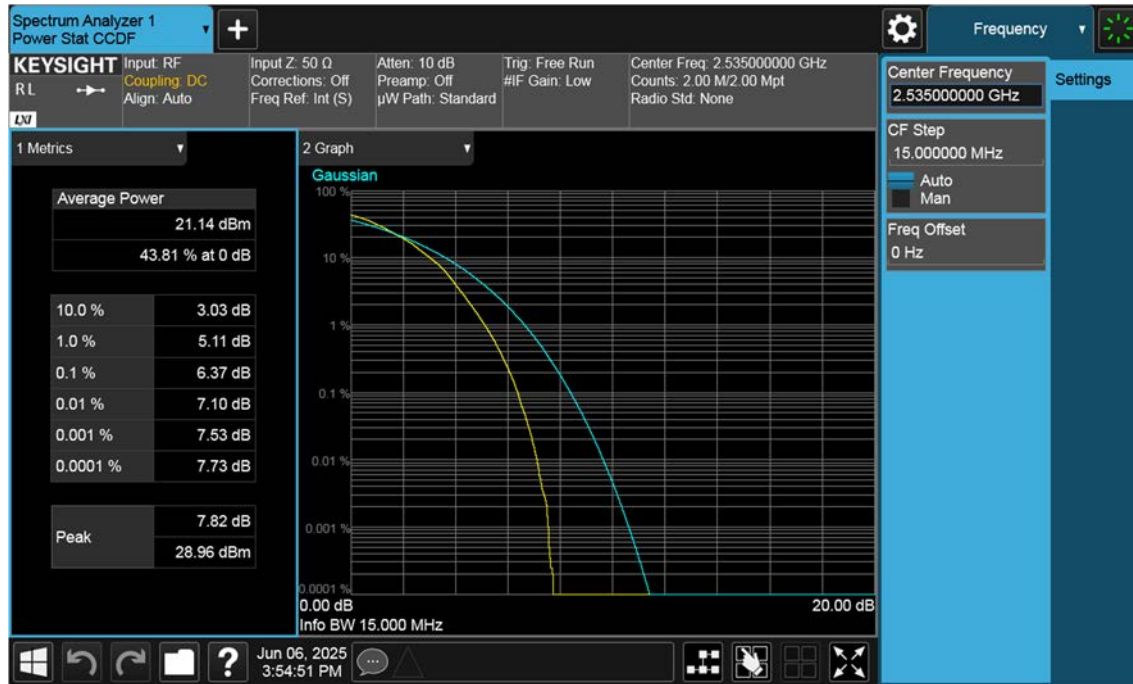
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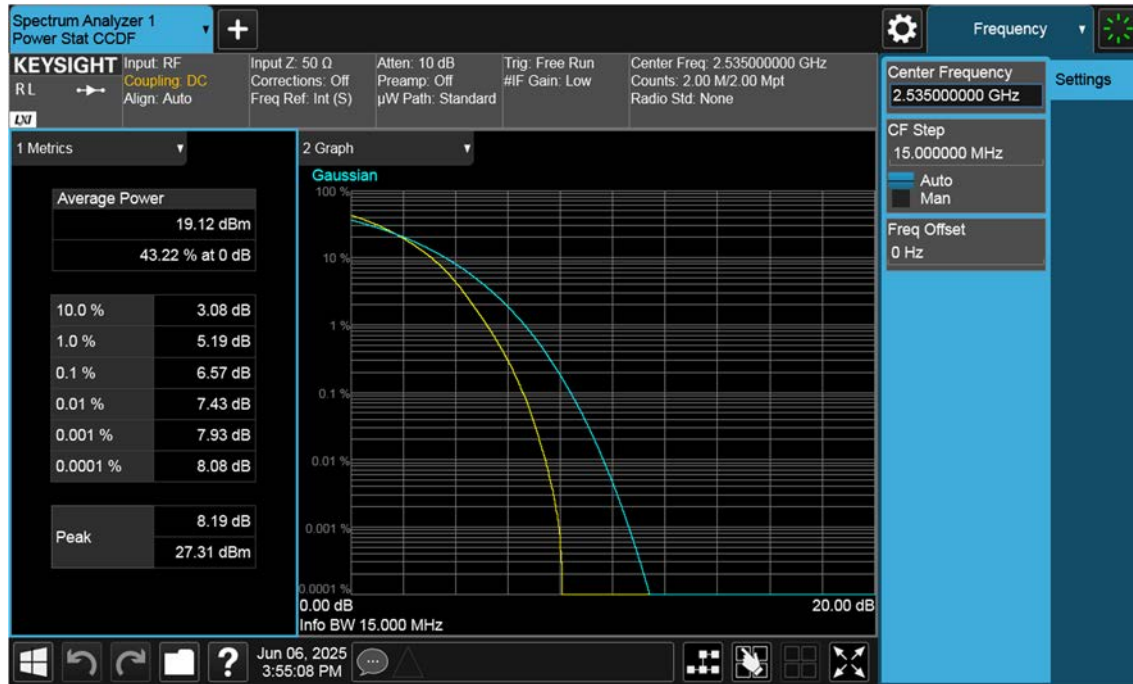
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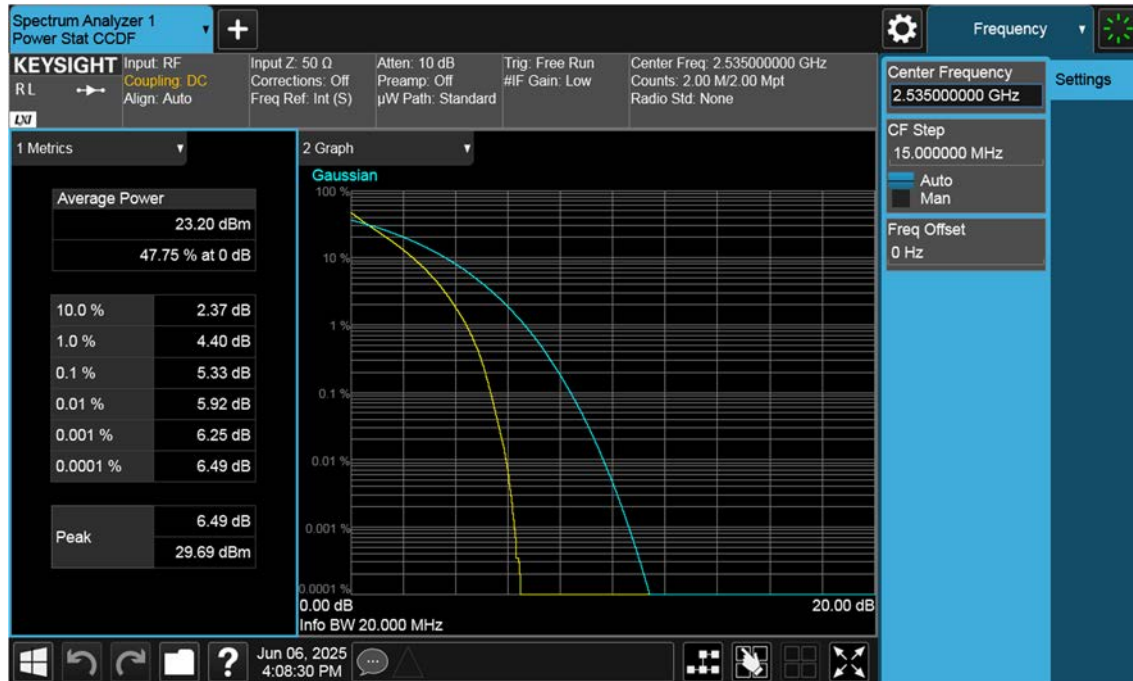
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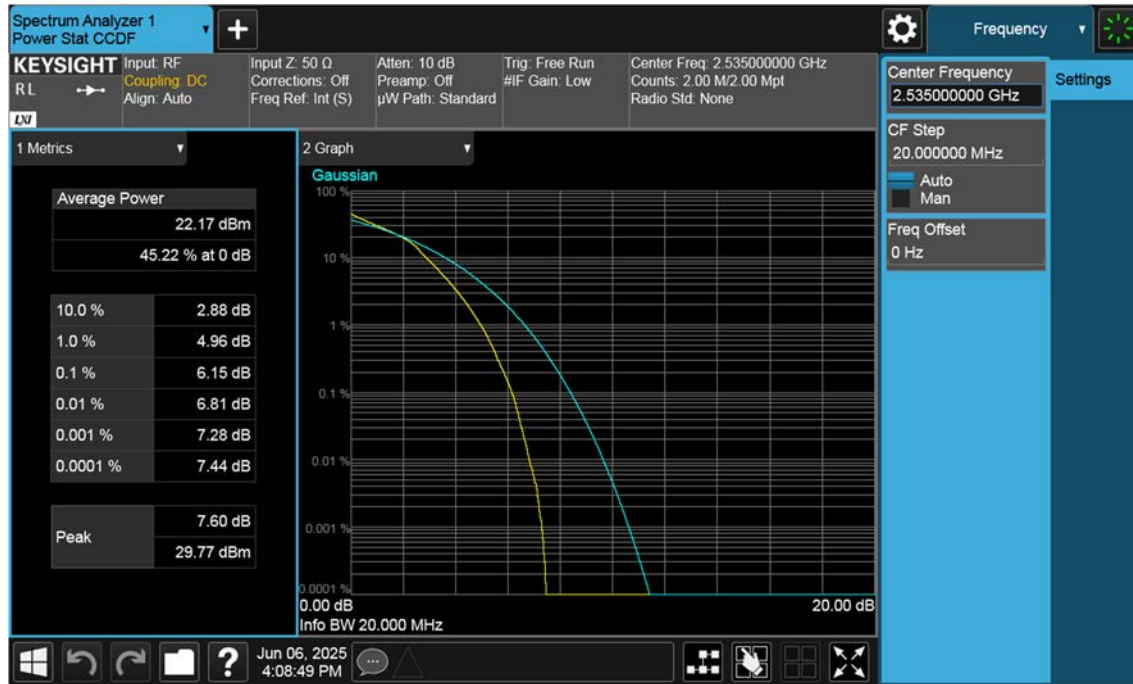
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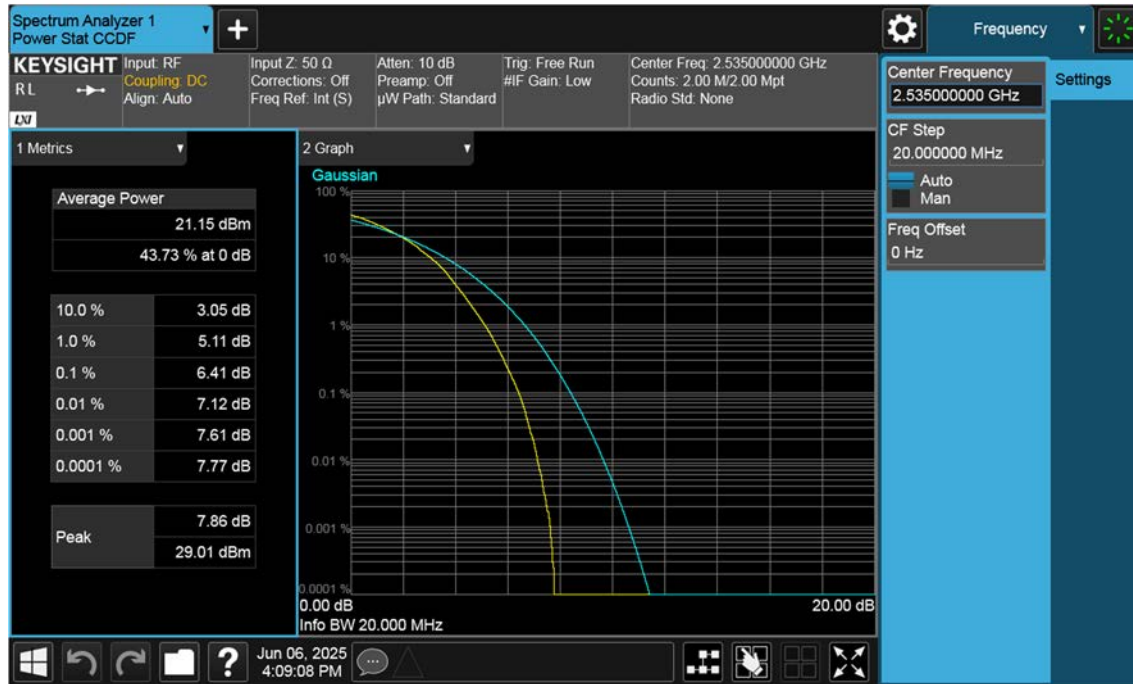
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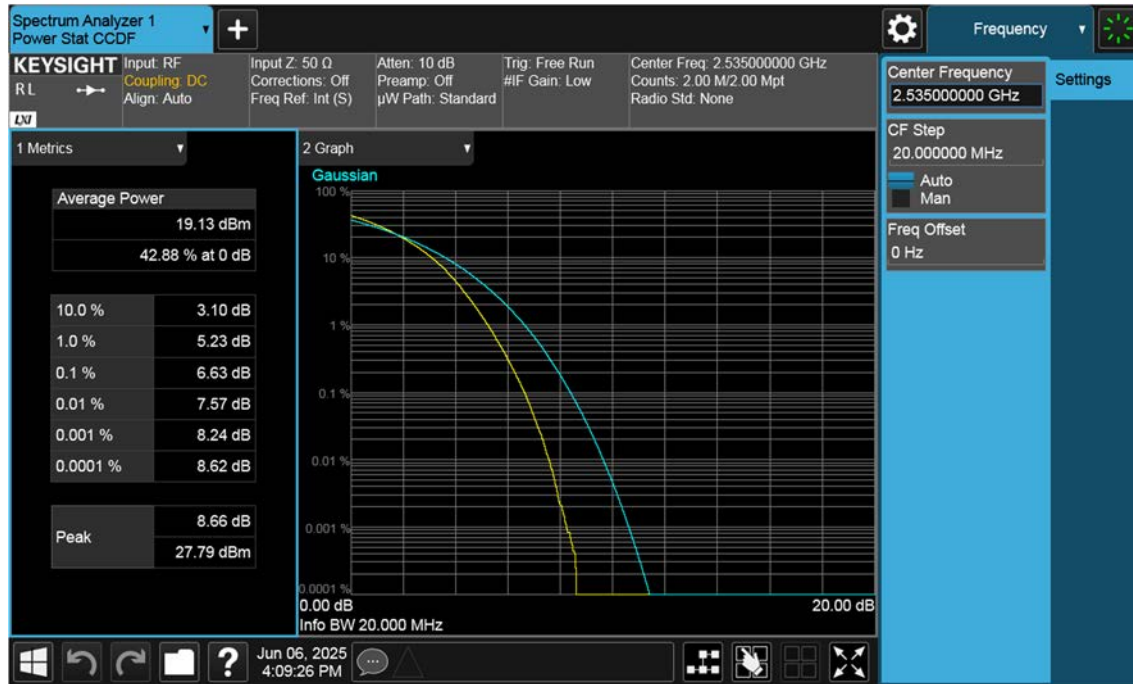
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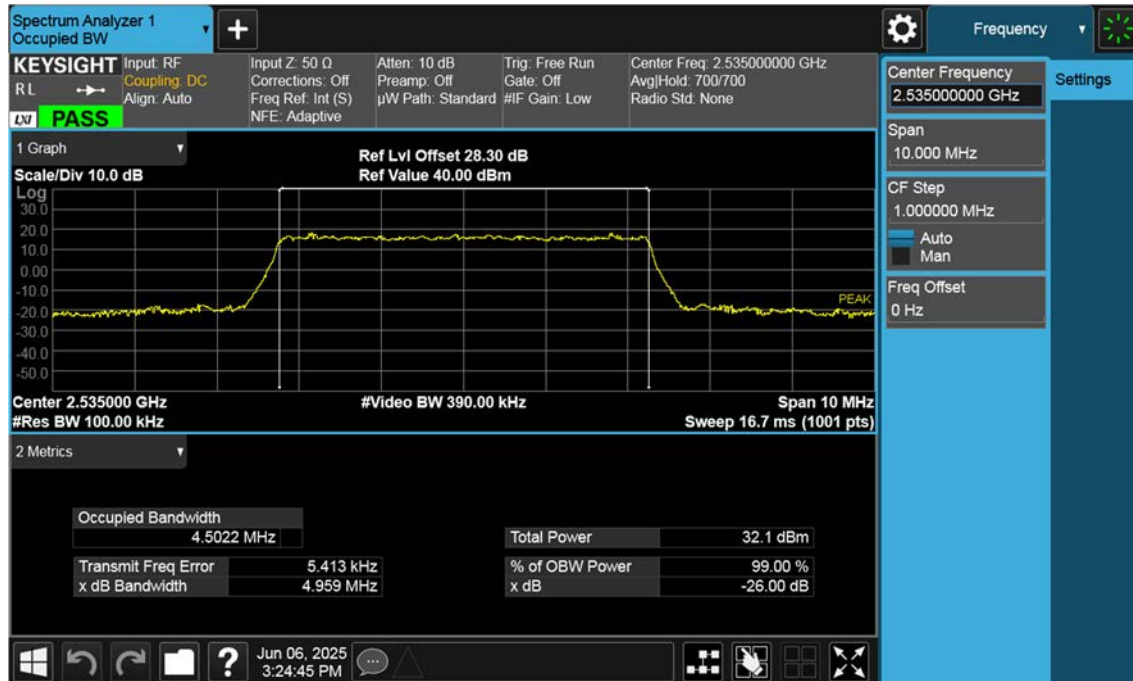
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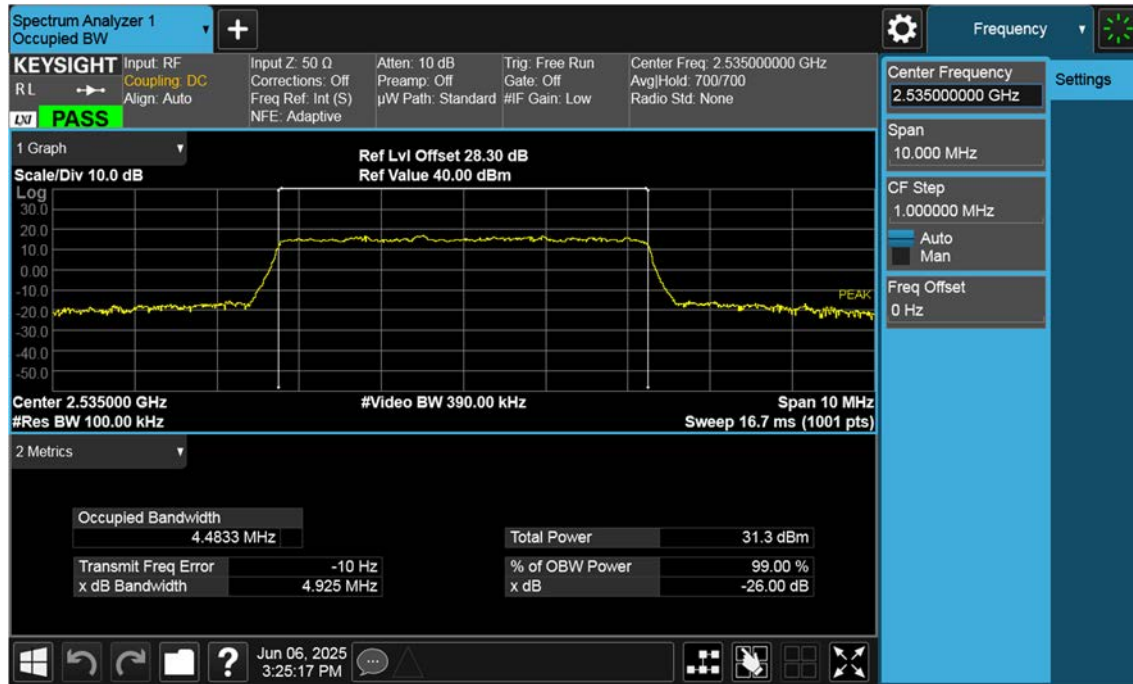
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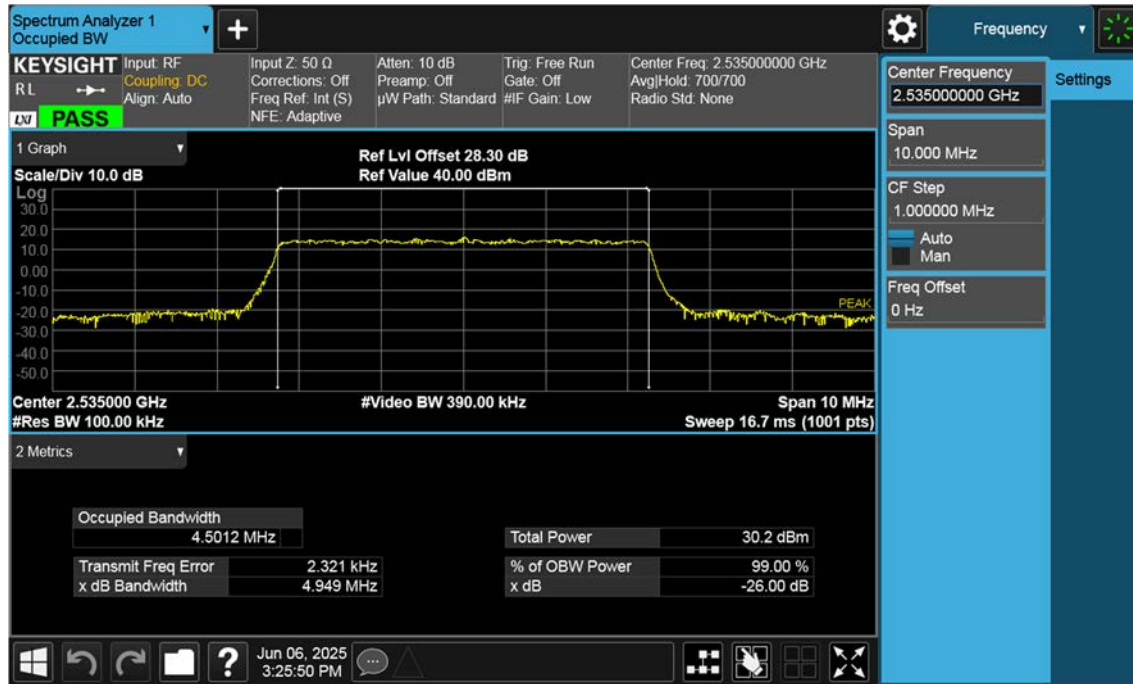
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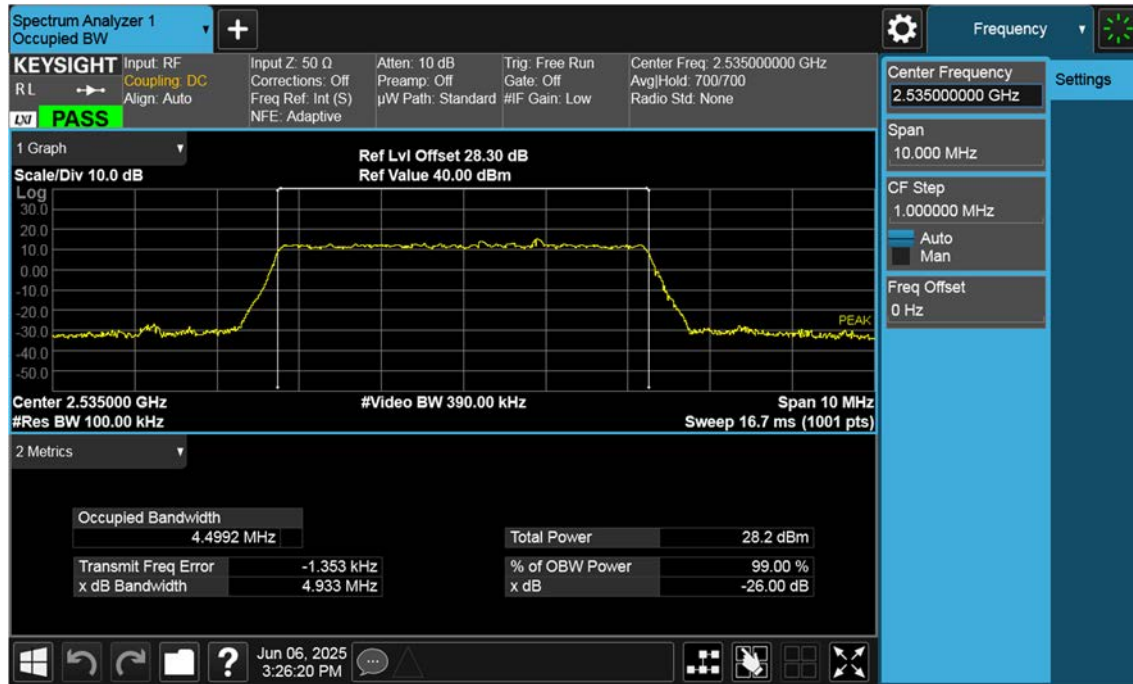
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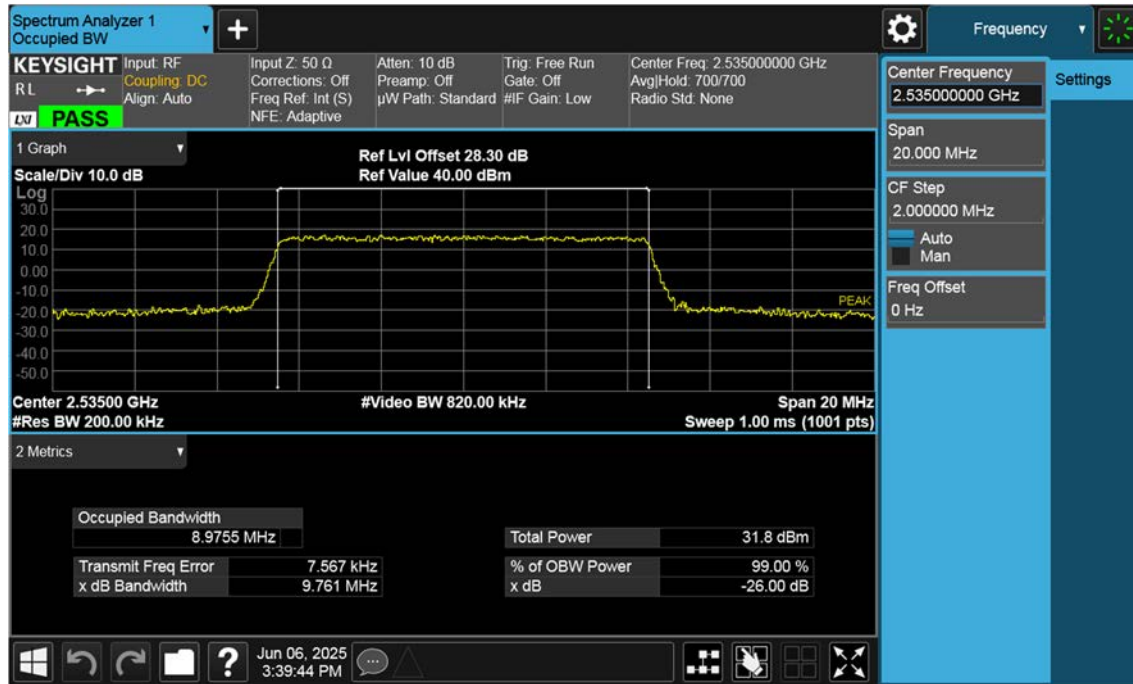
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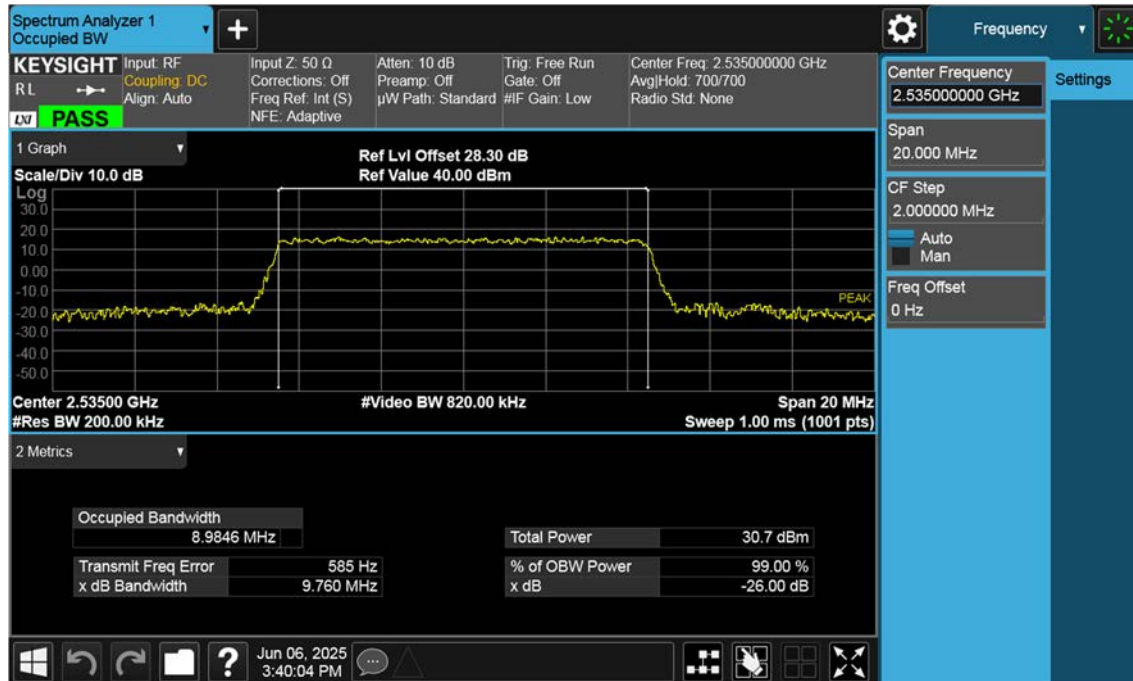
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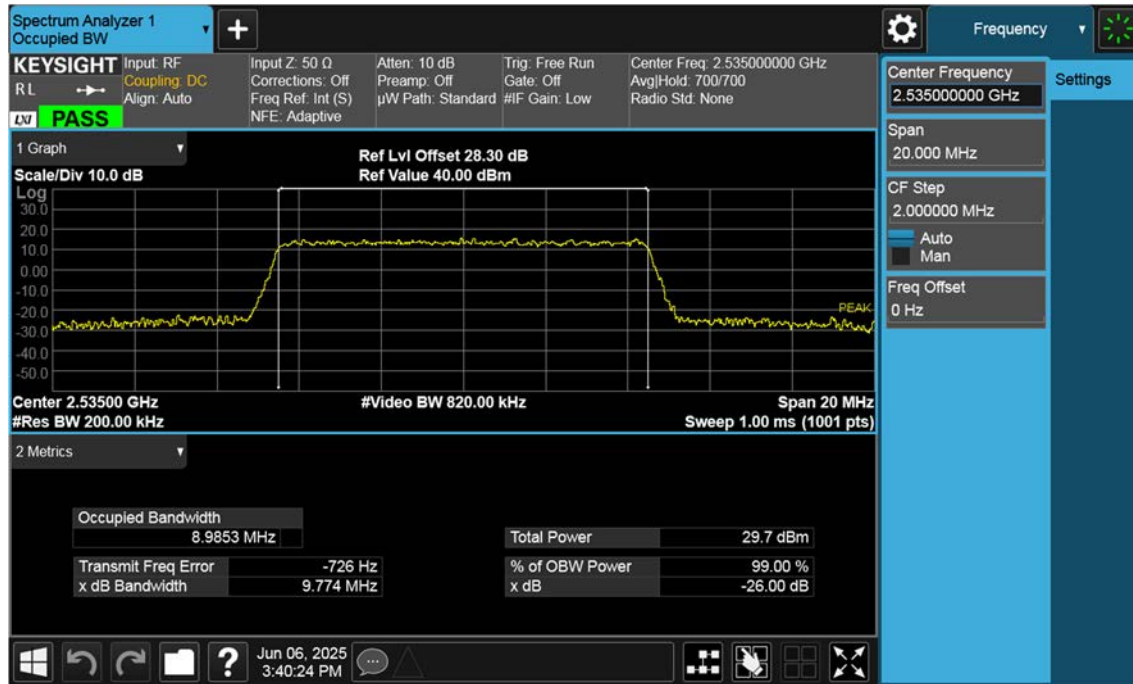
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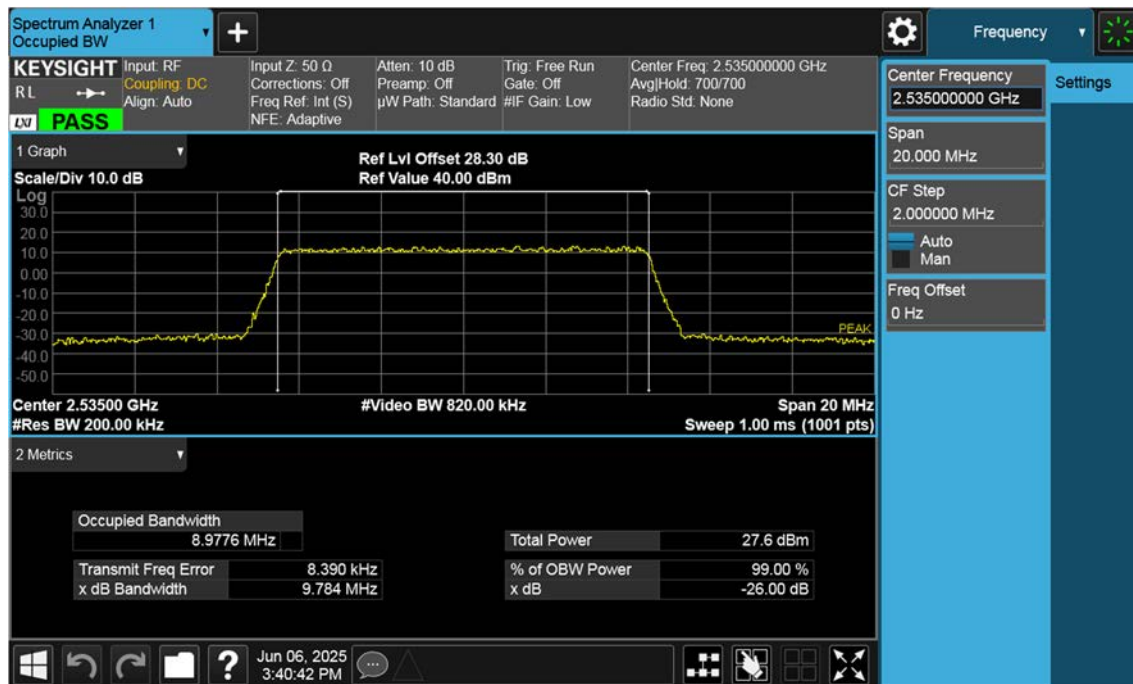
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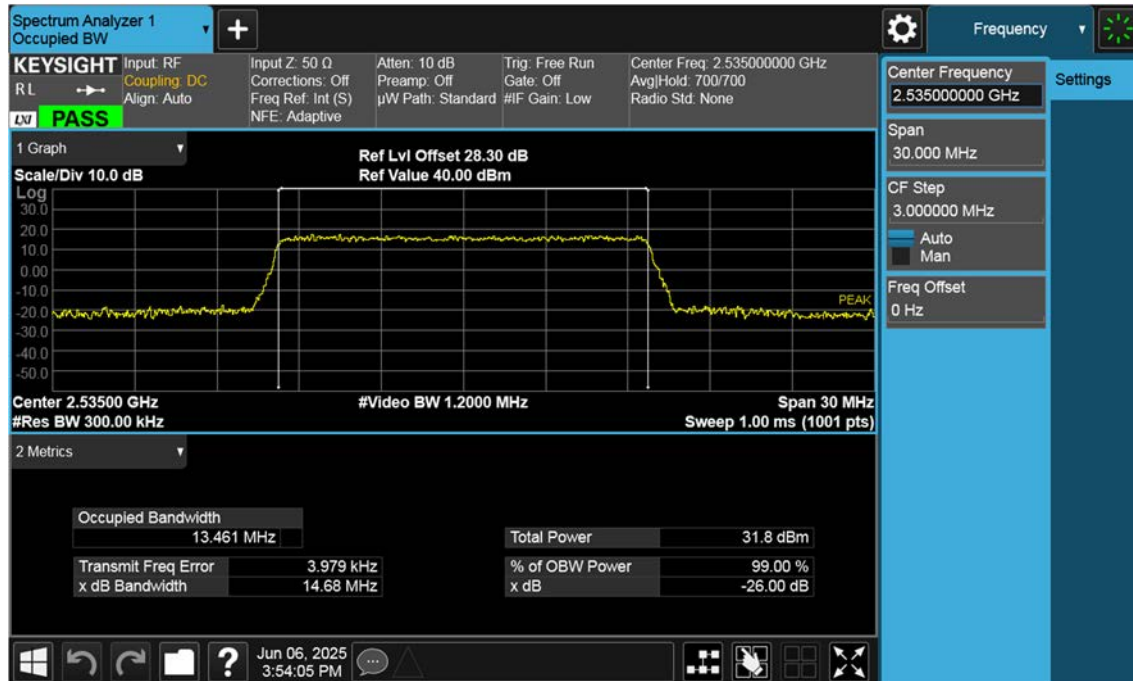
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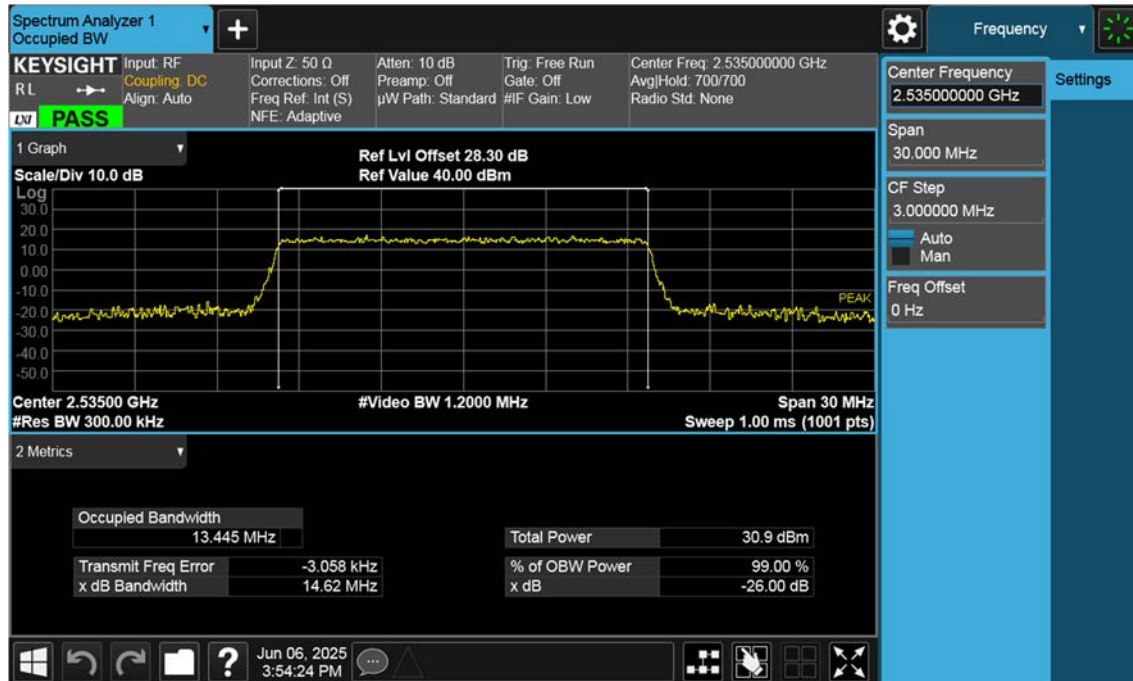
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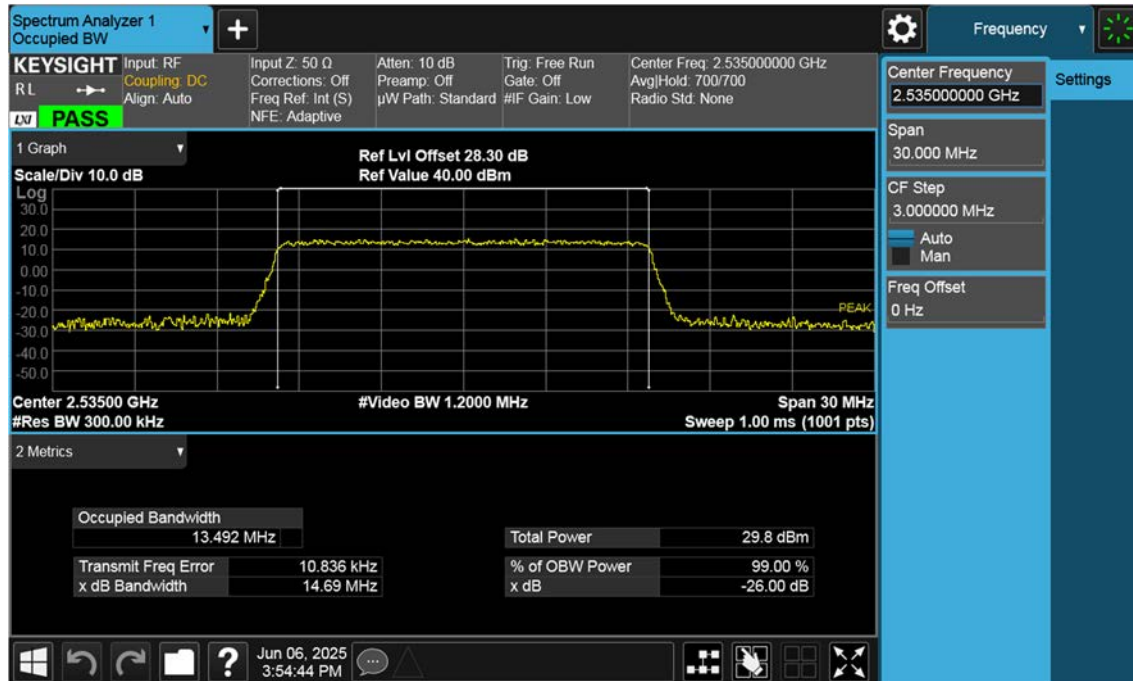
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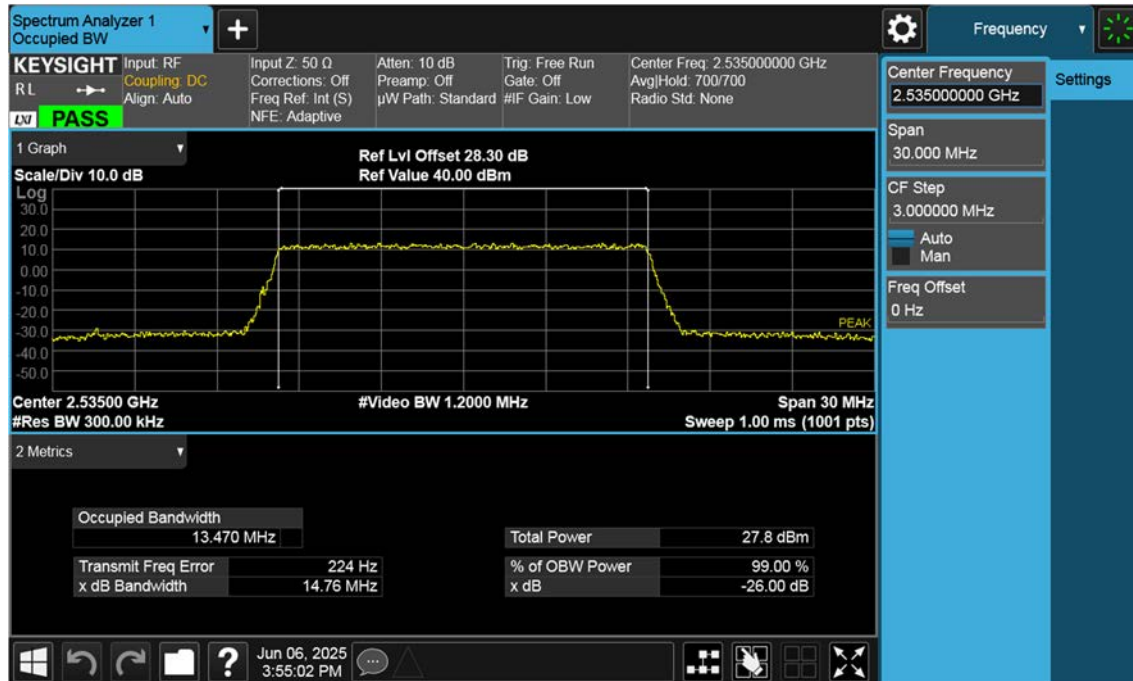
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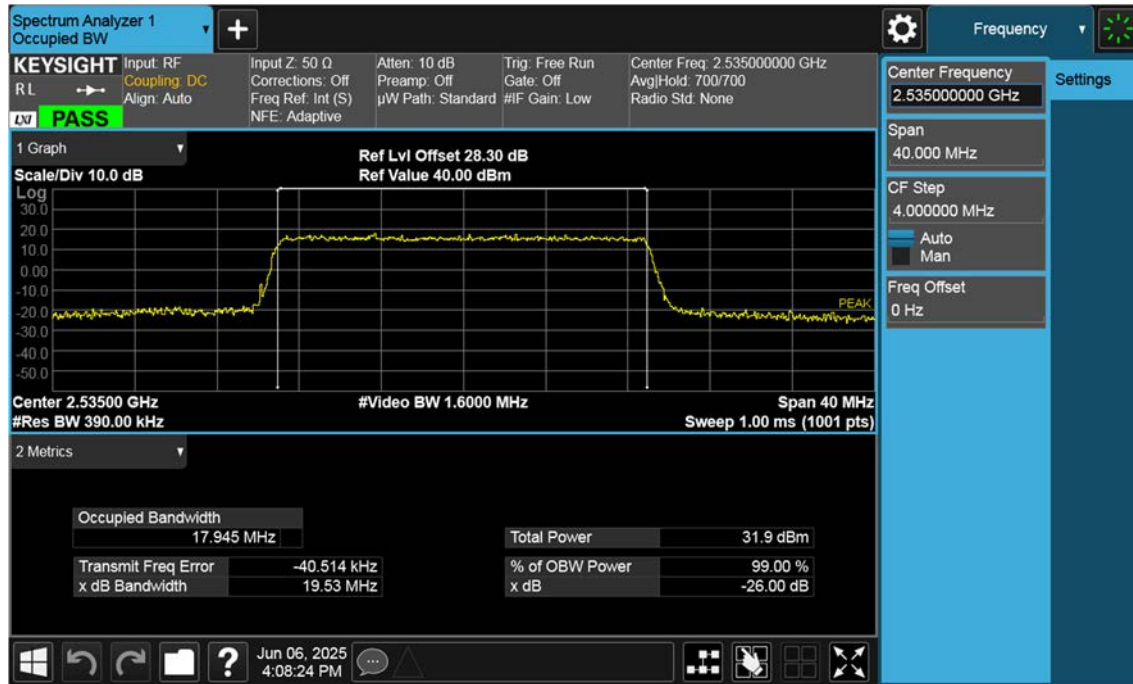
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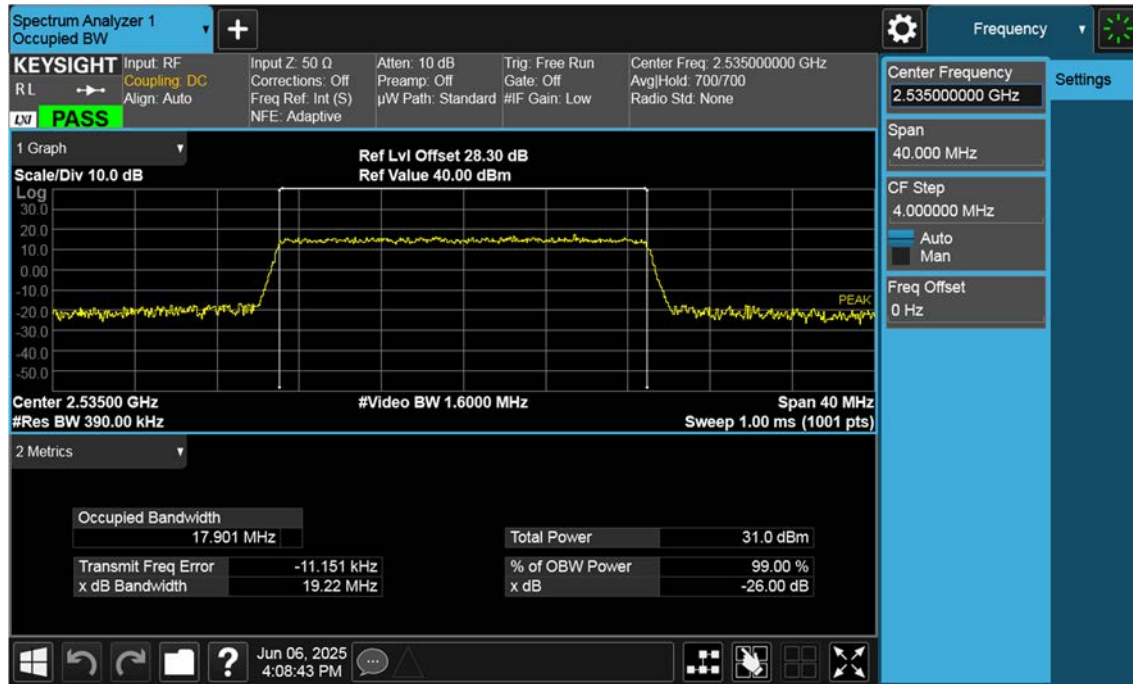
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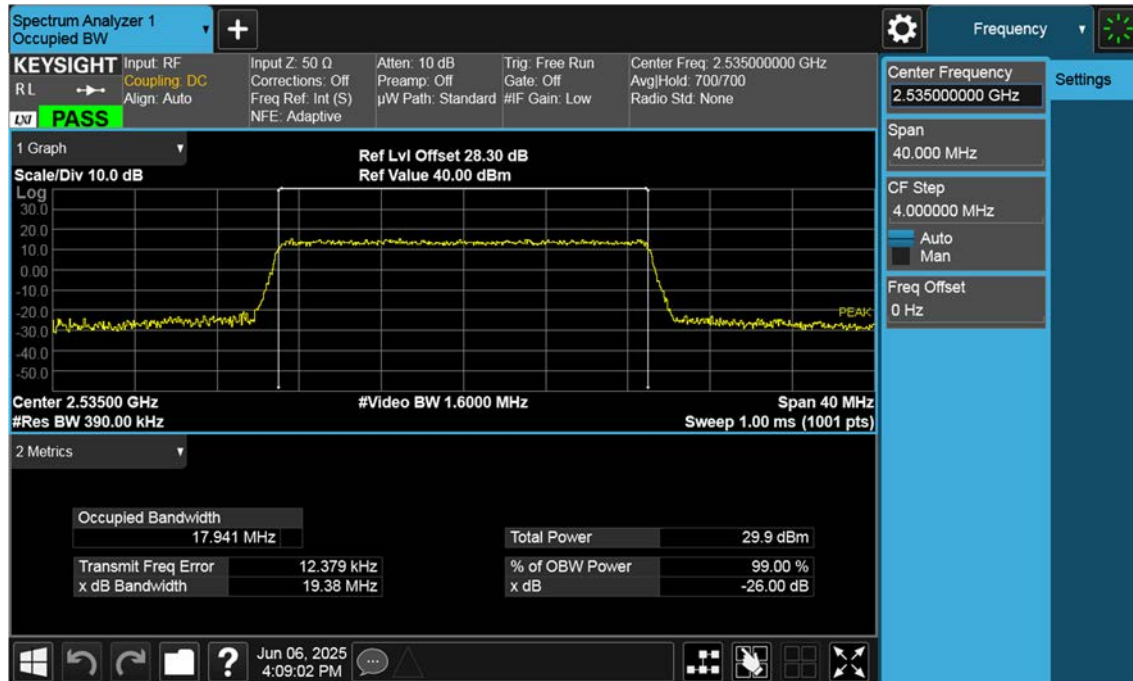
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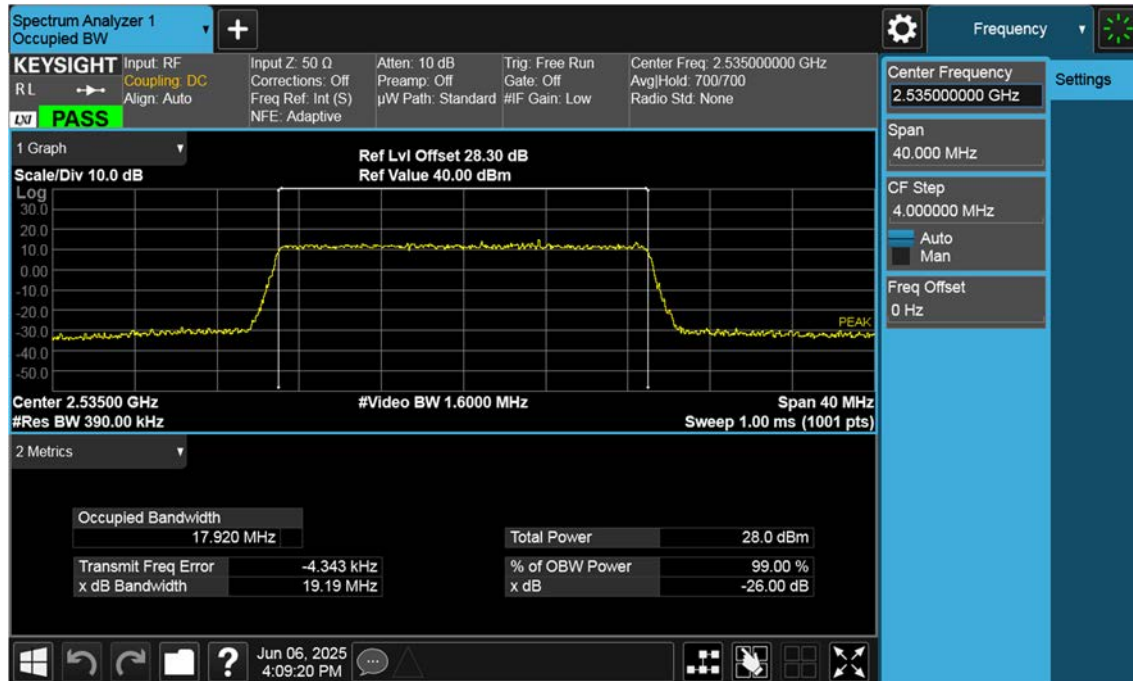
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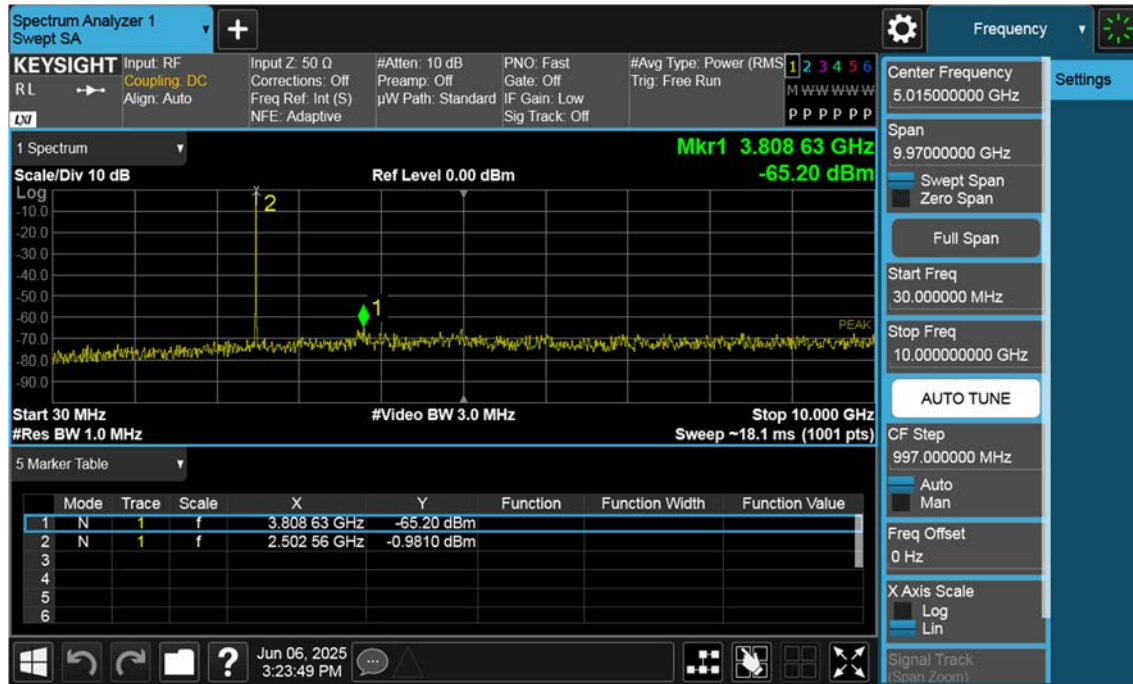
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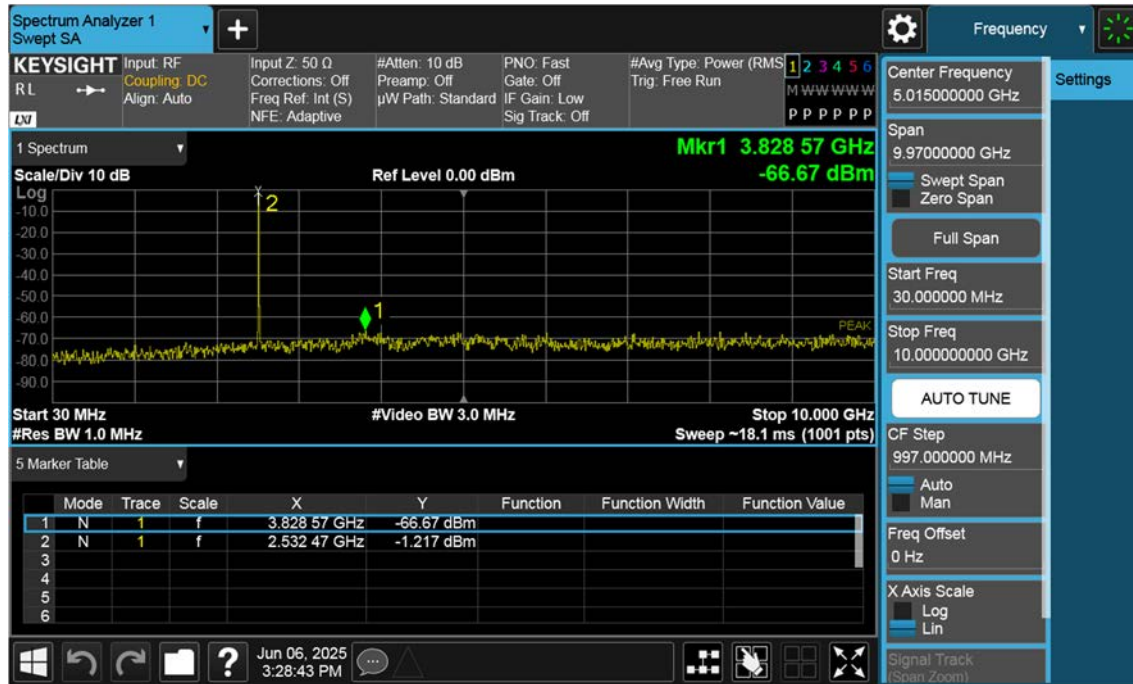
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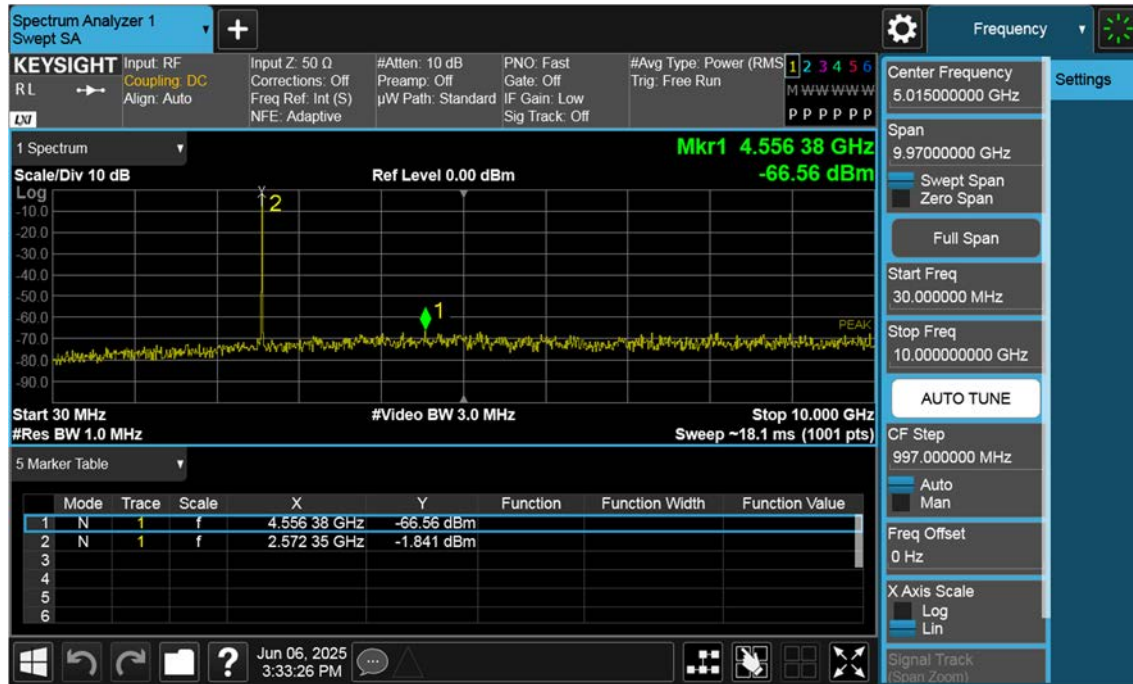
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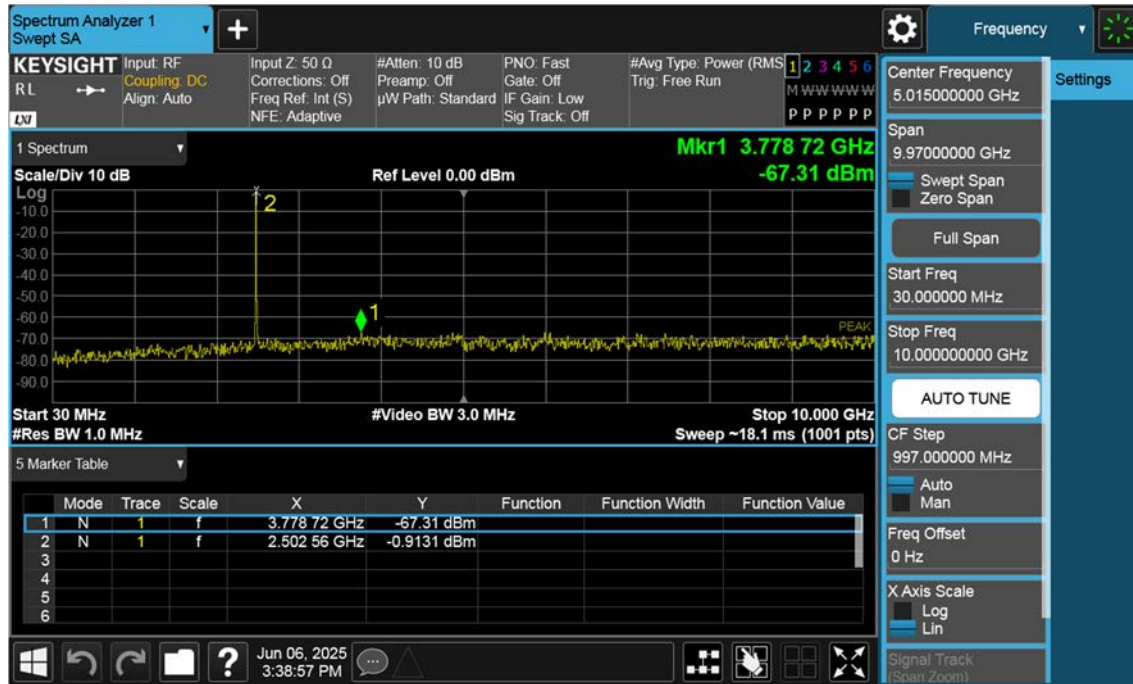
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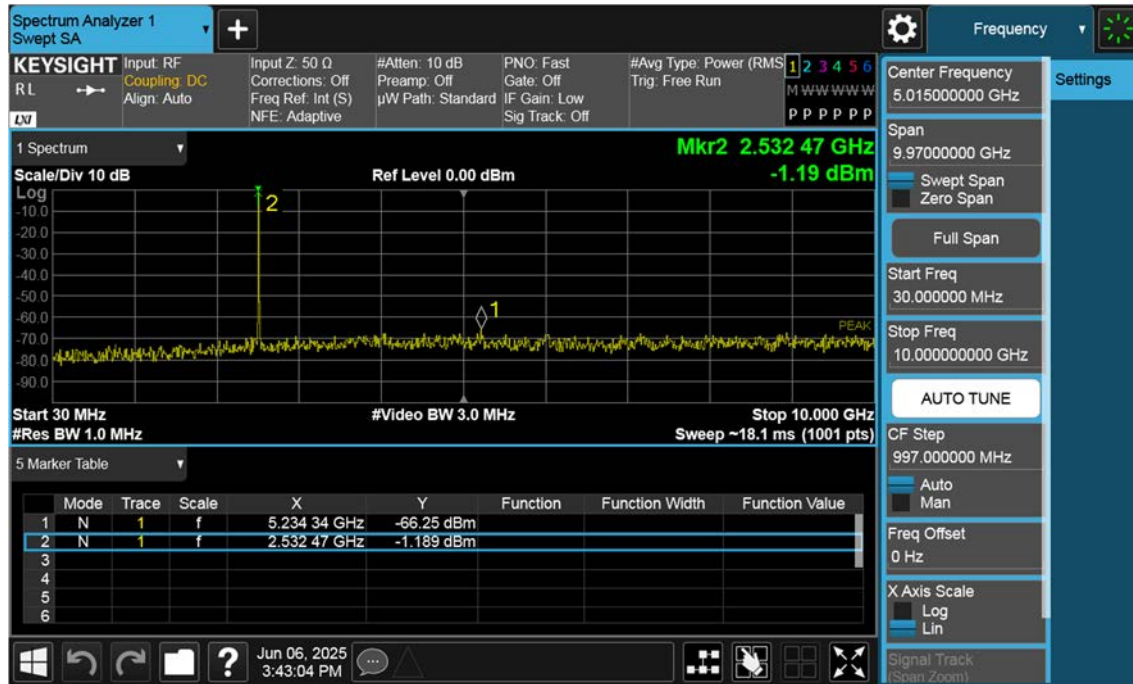
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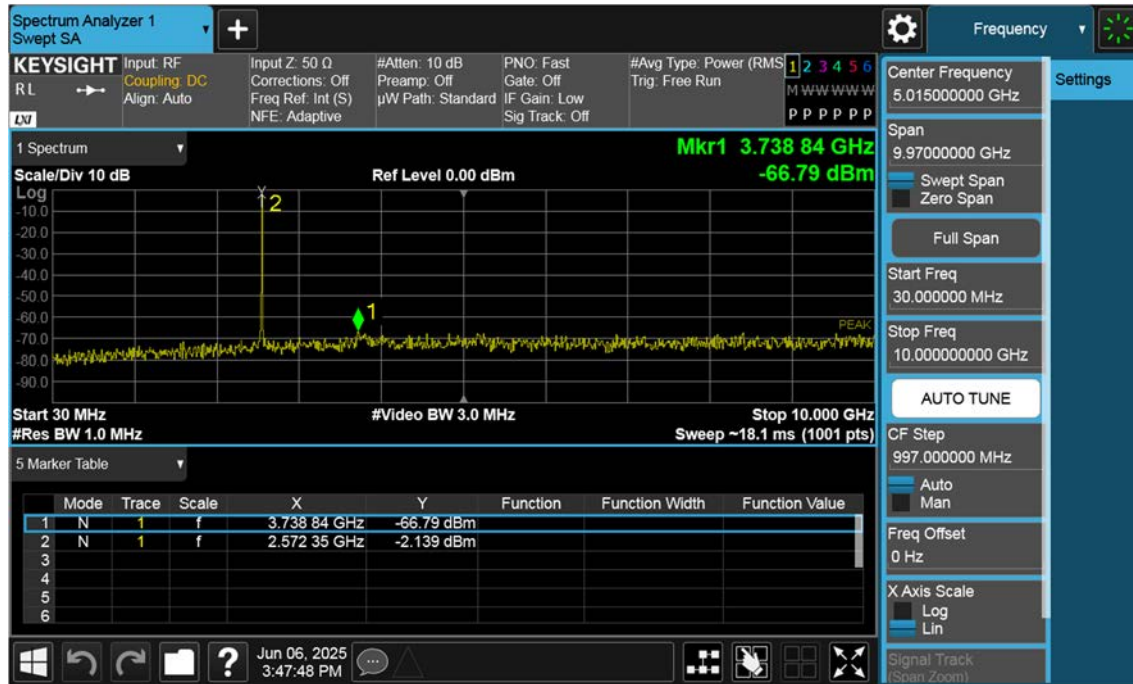
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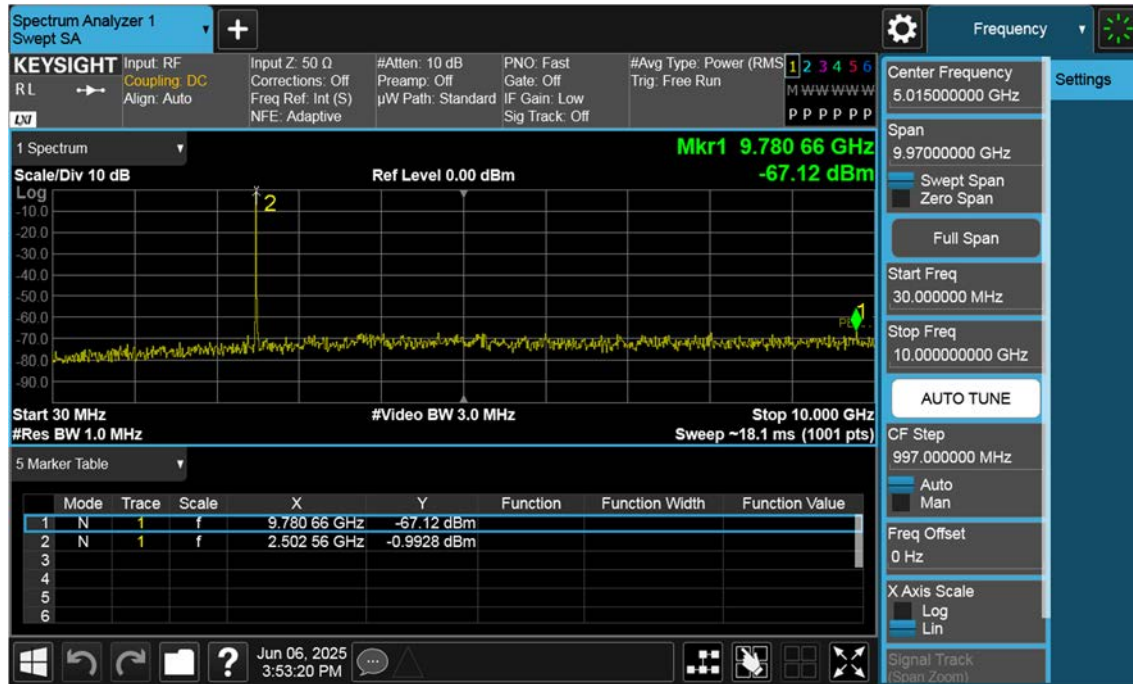
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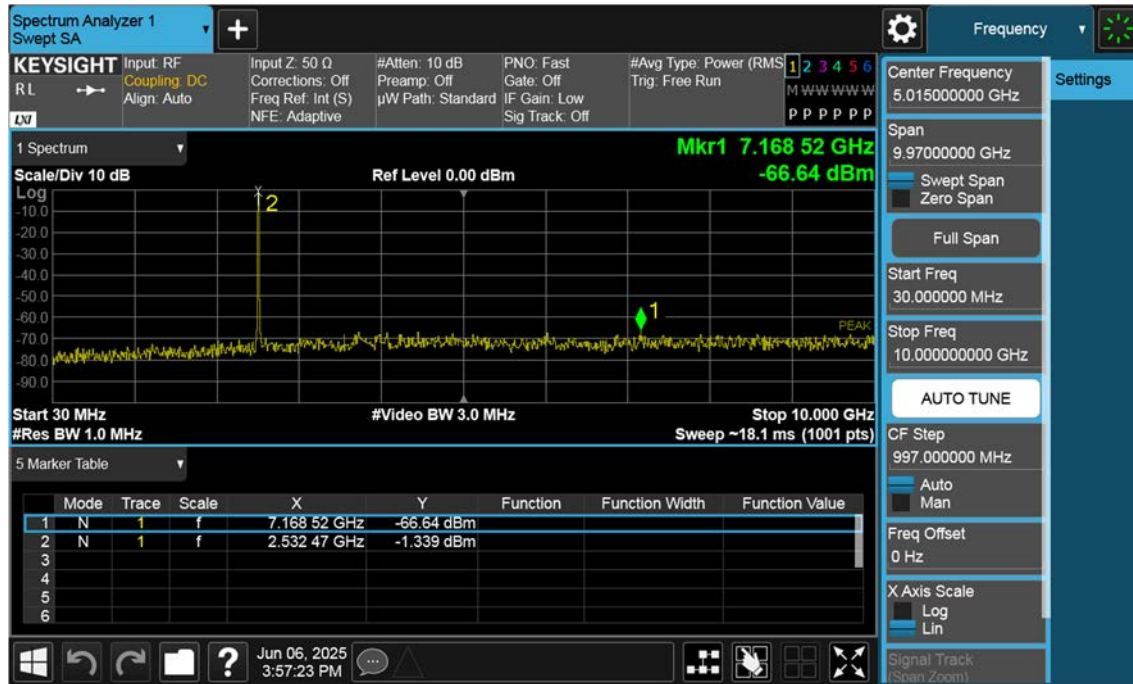
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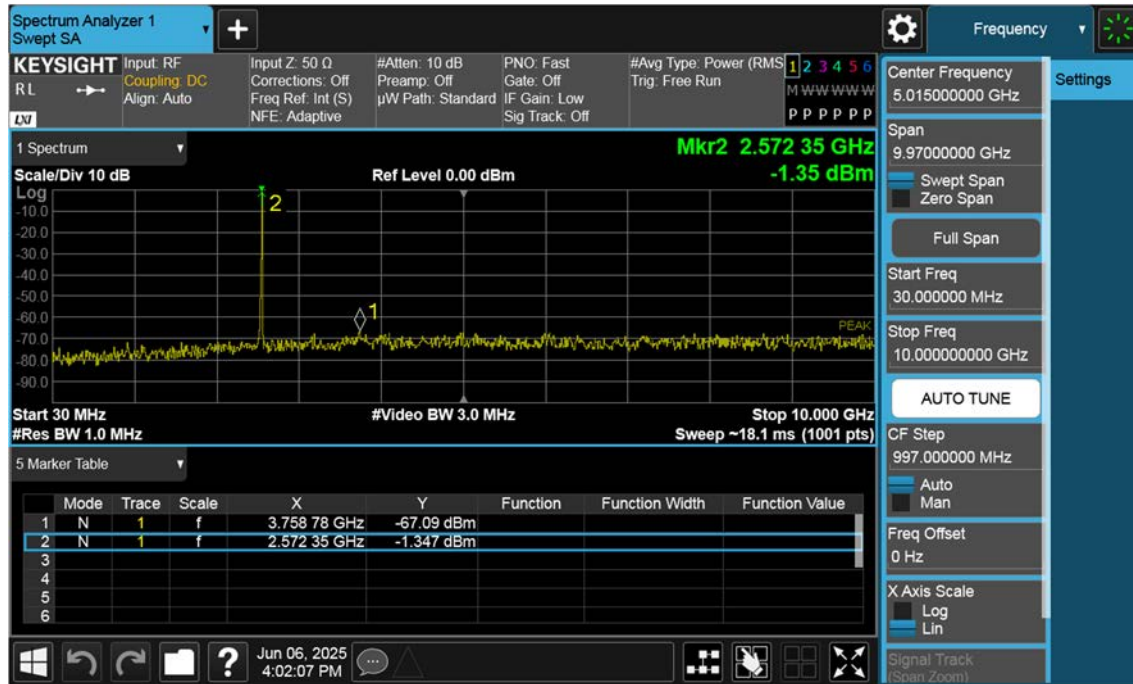
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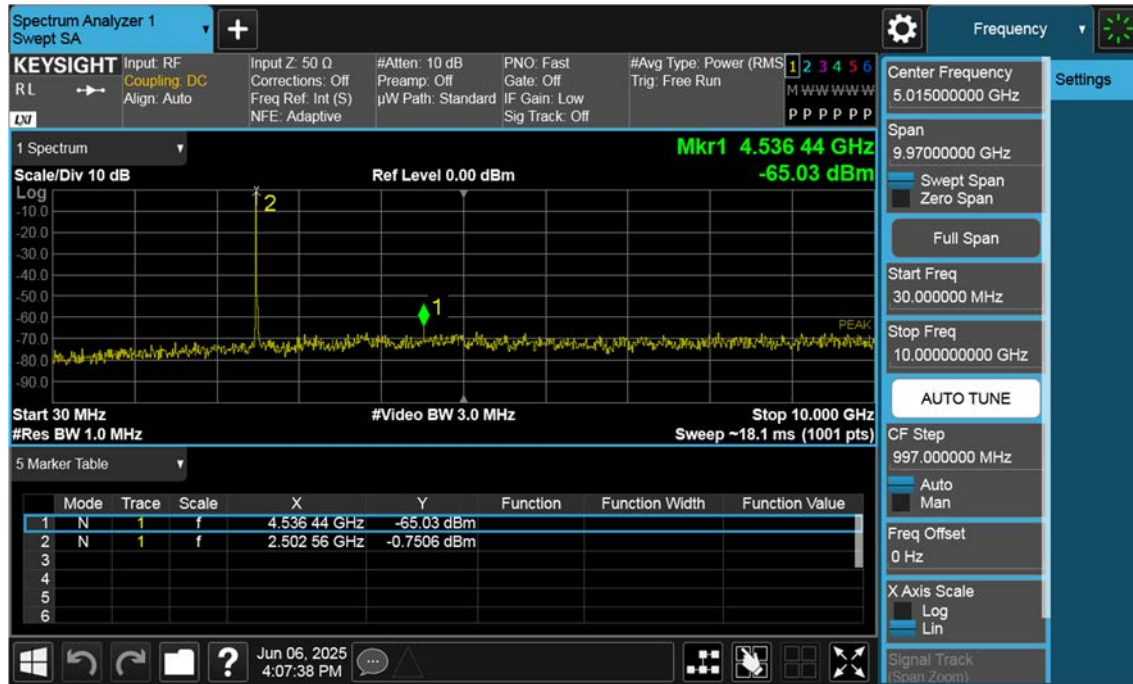
LTE B7_15 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



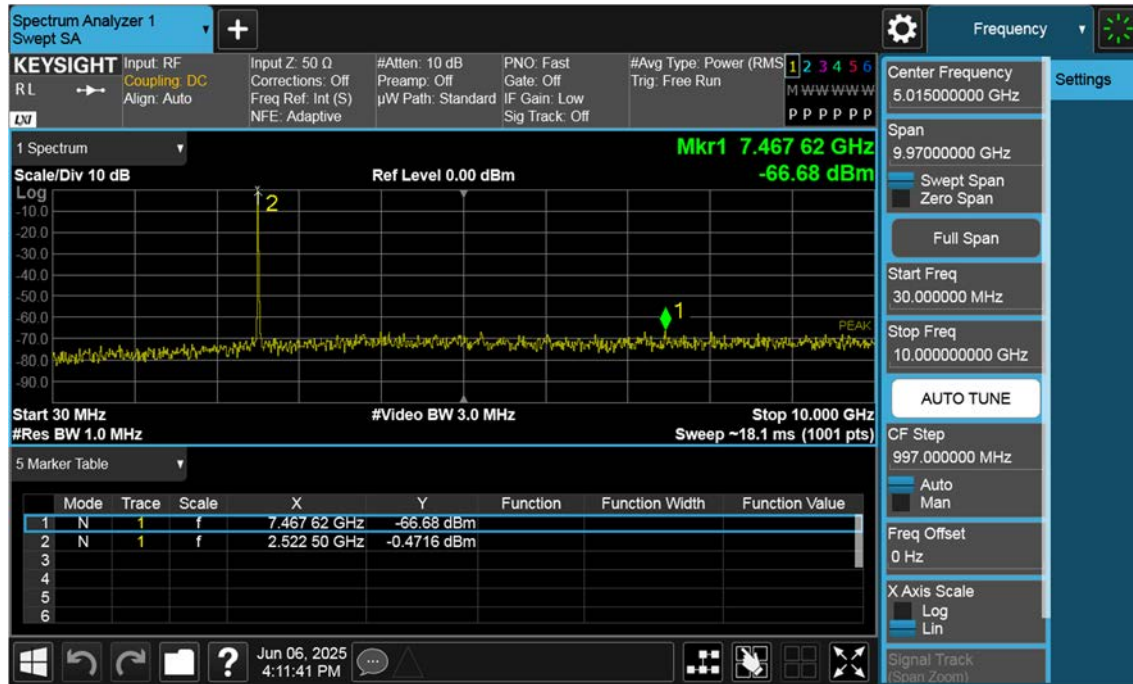
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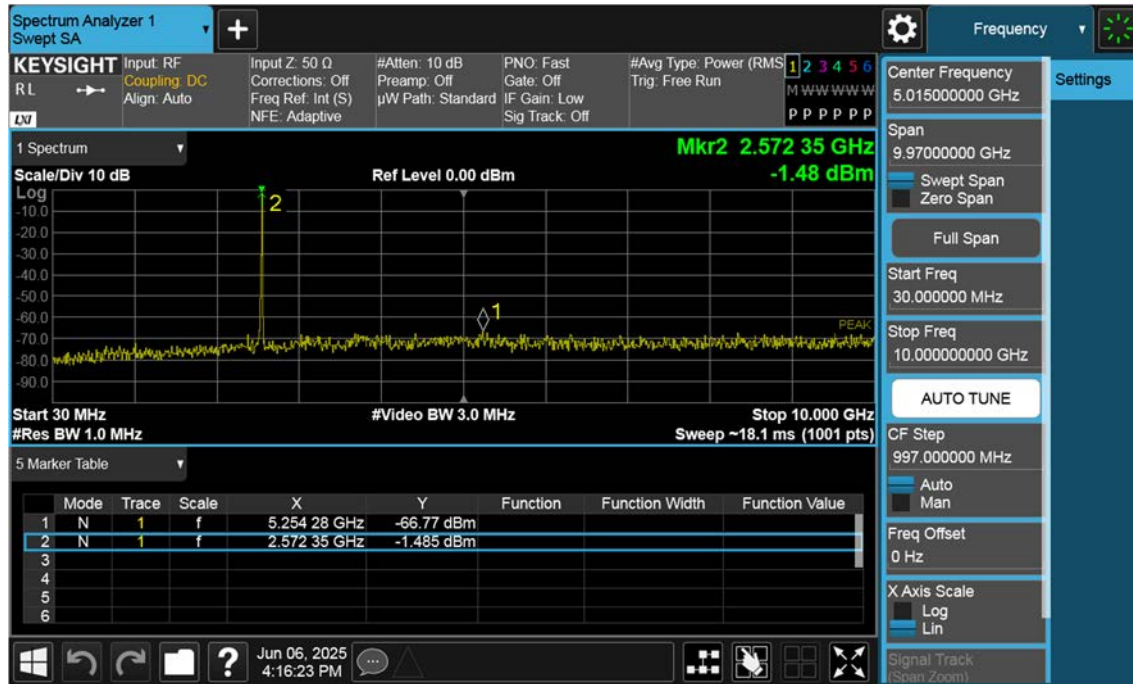
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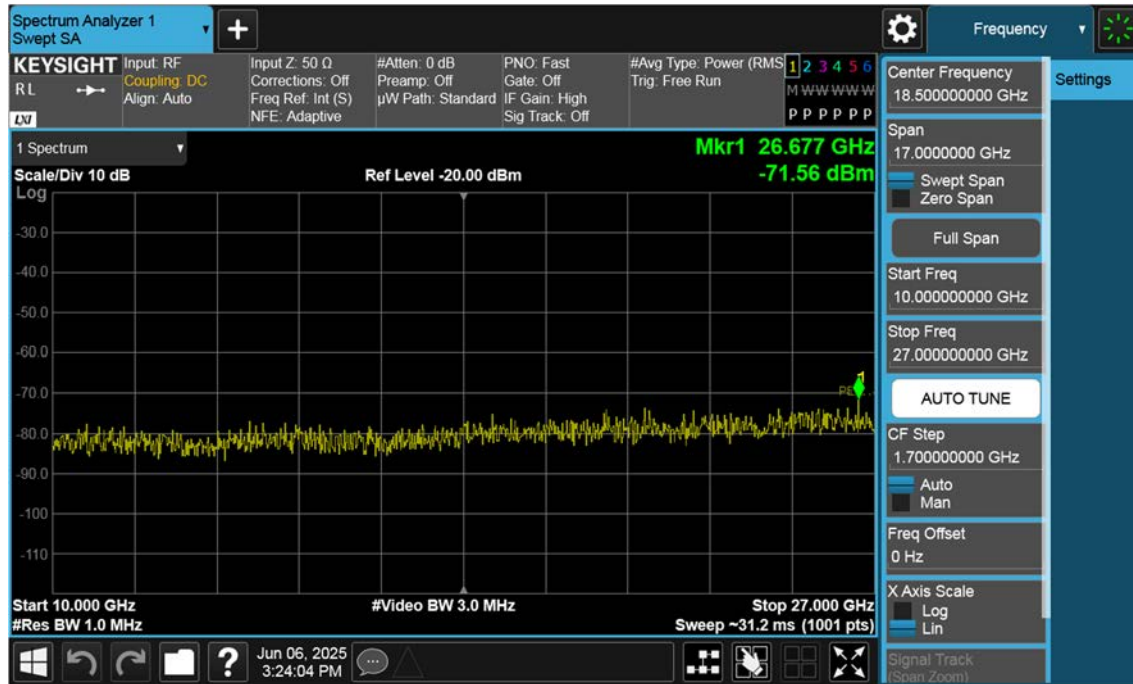
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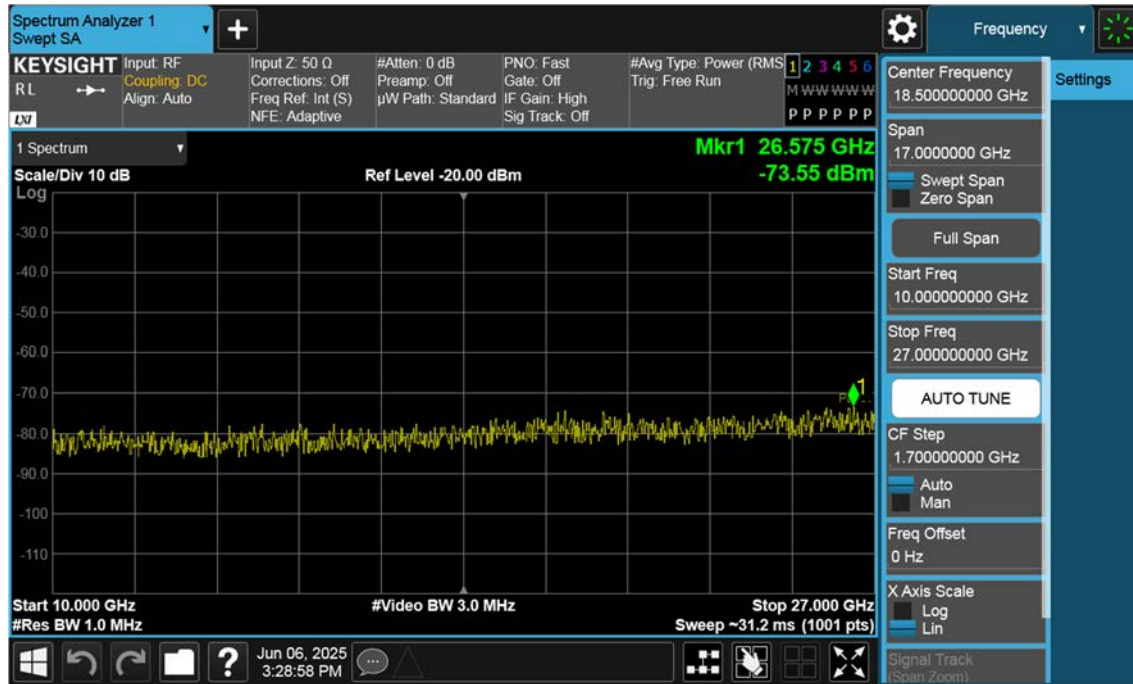
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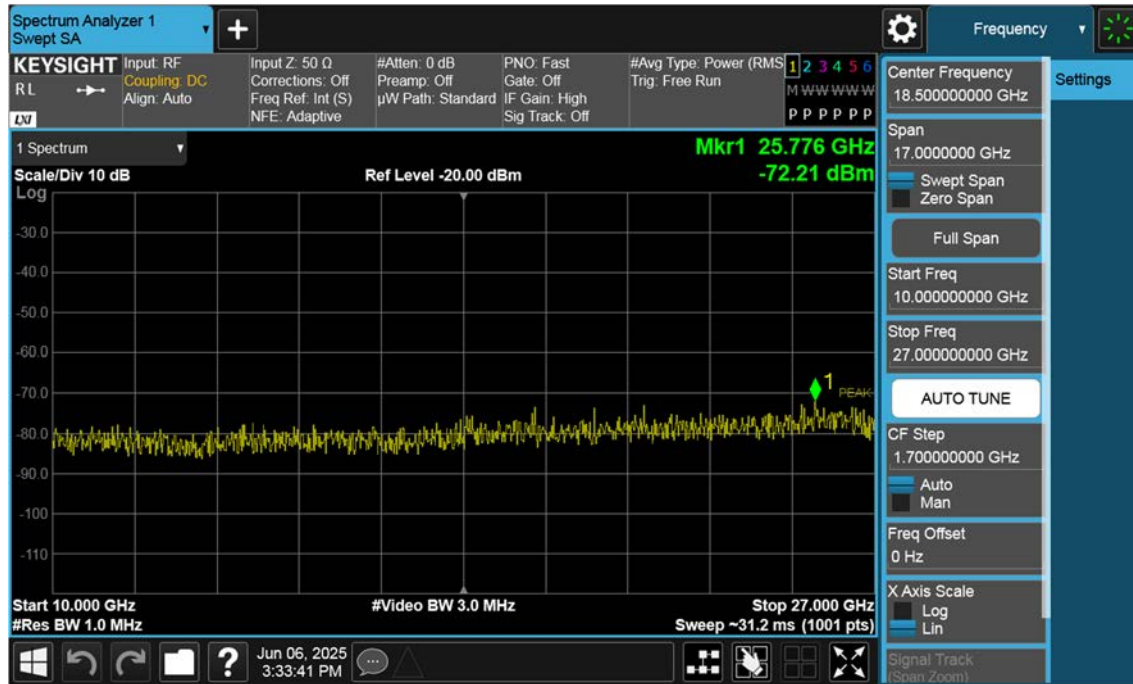
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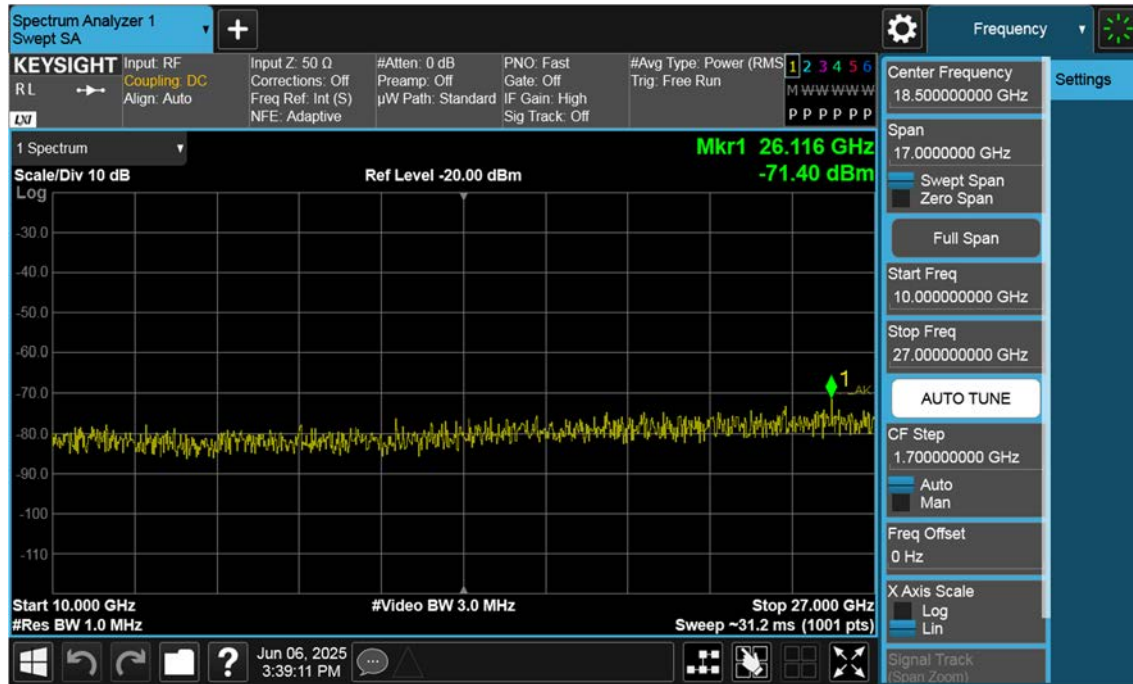
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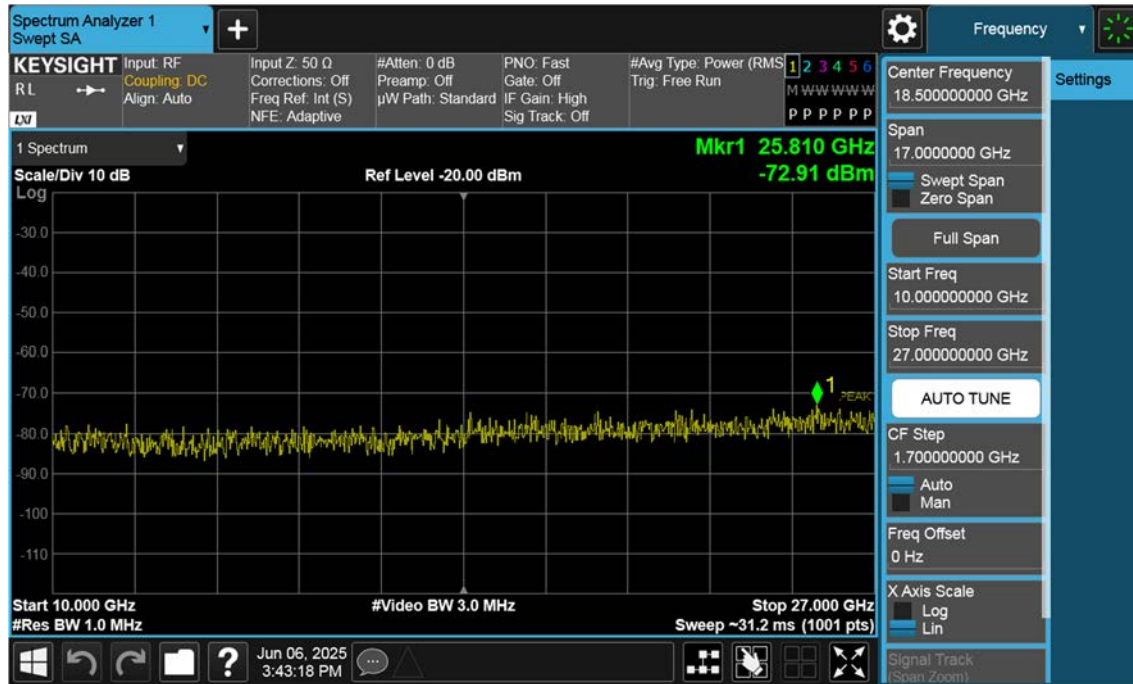
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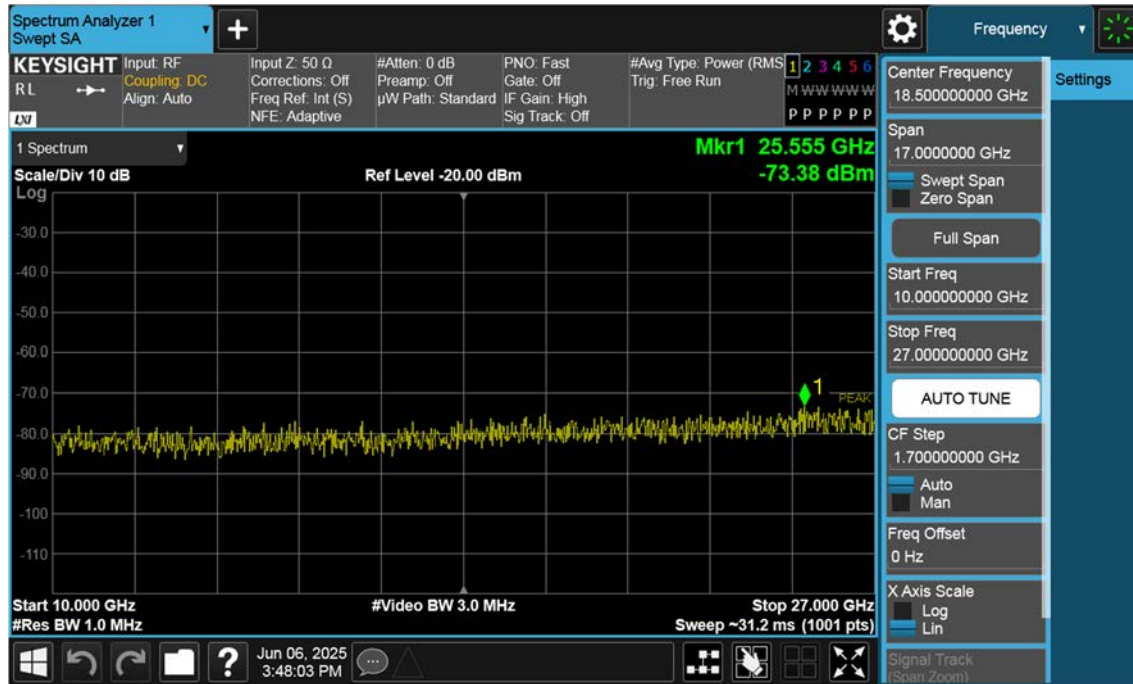
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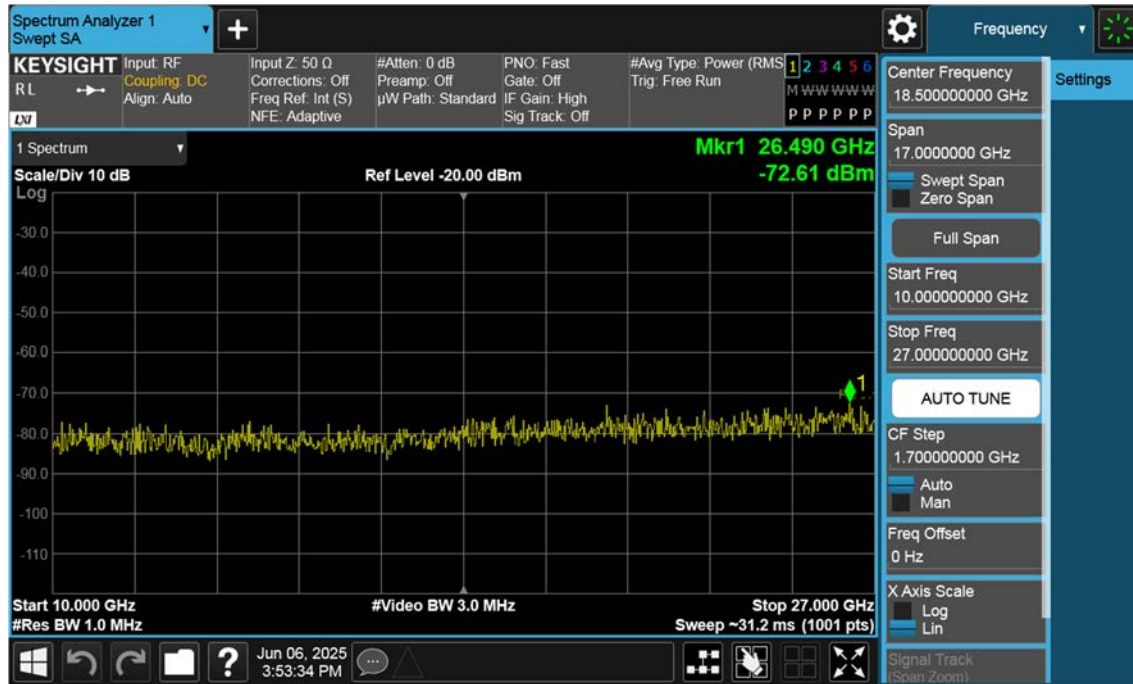
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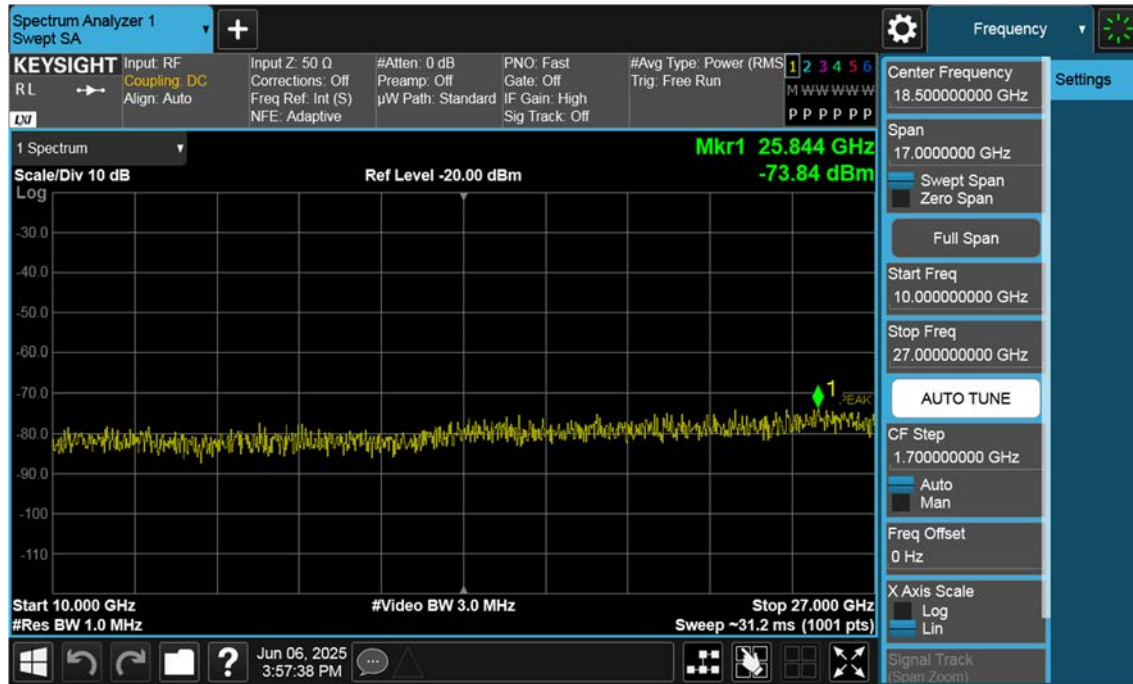
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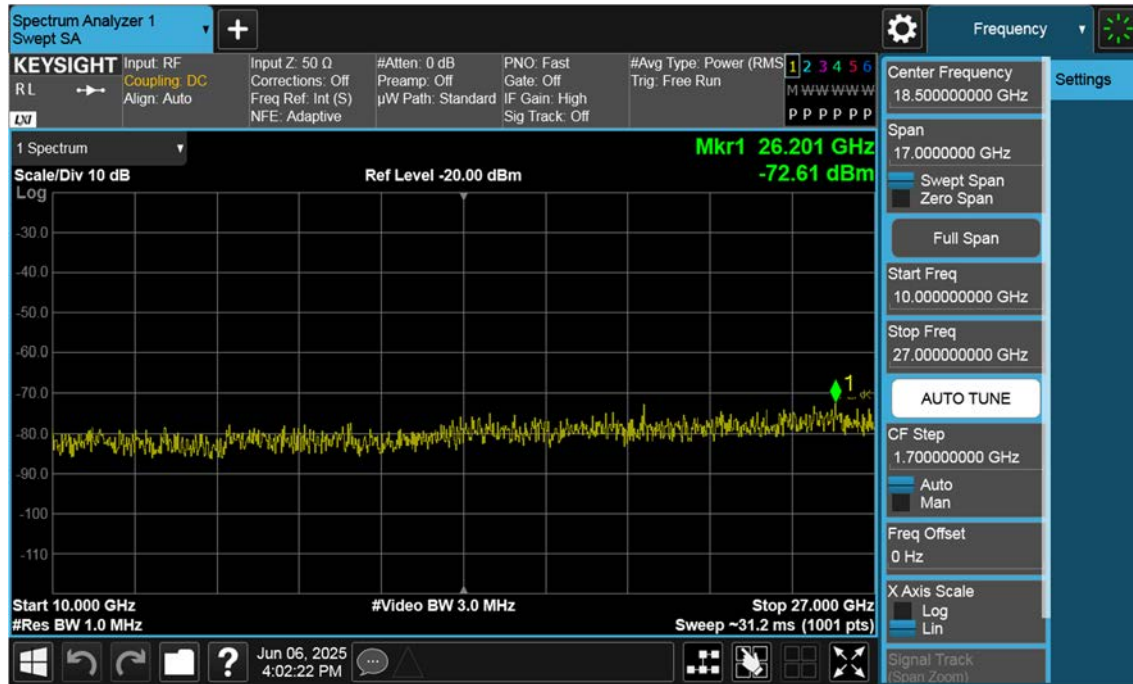
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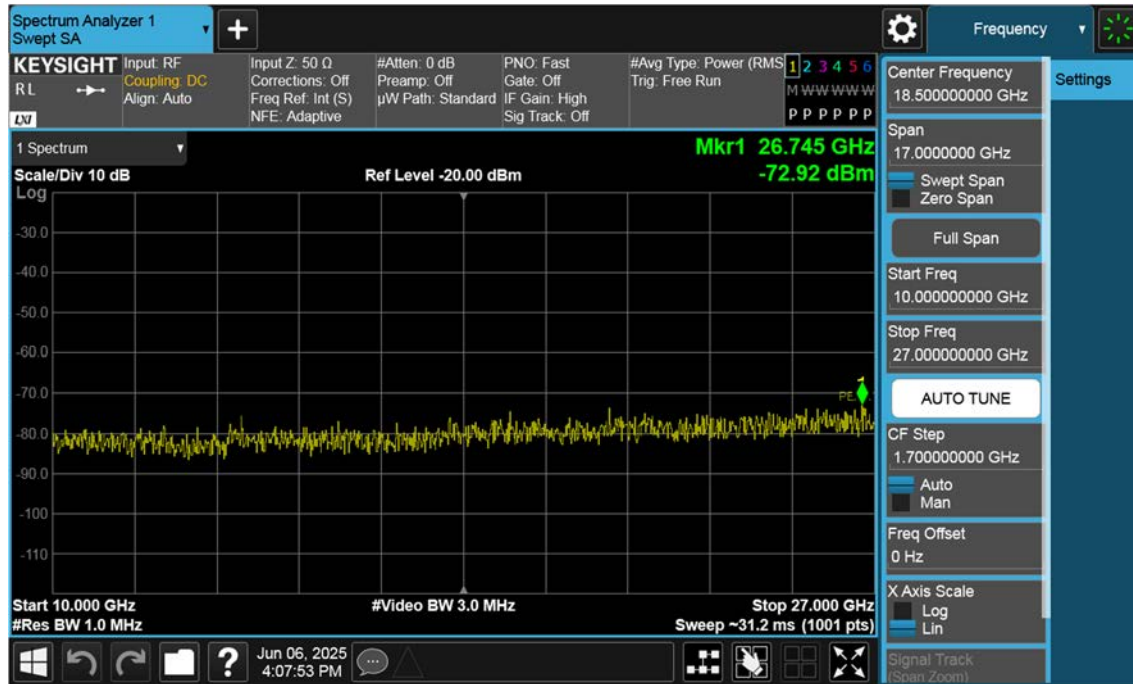
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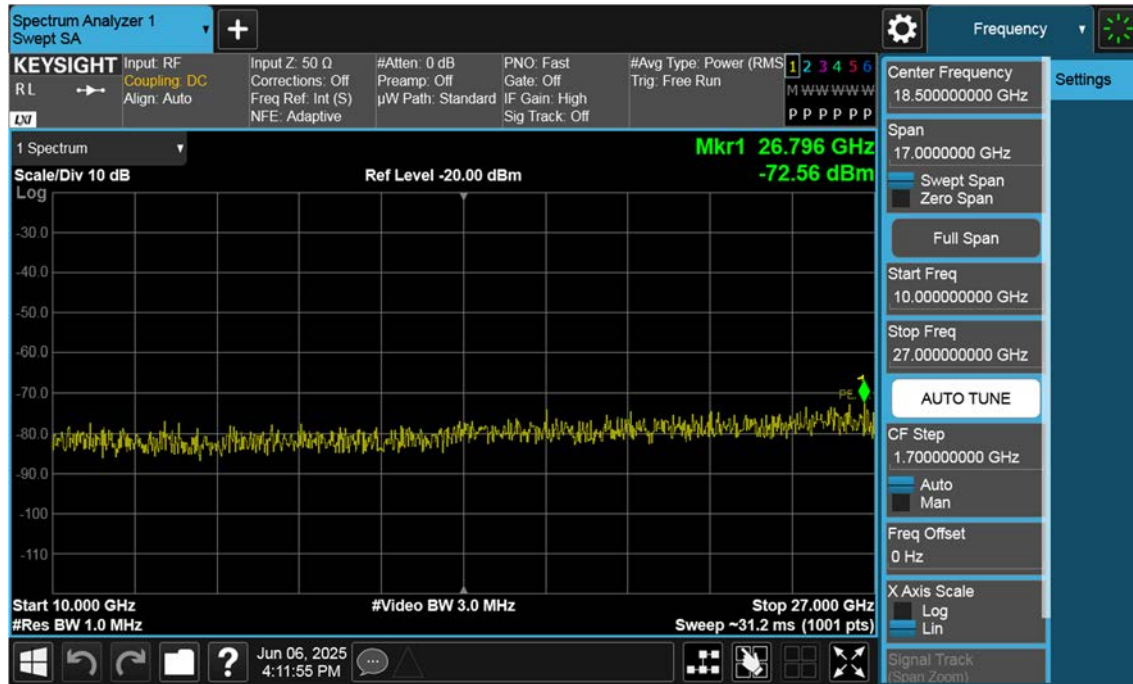
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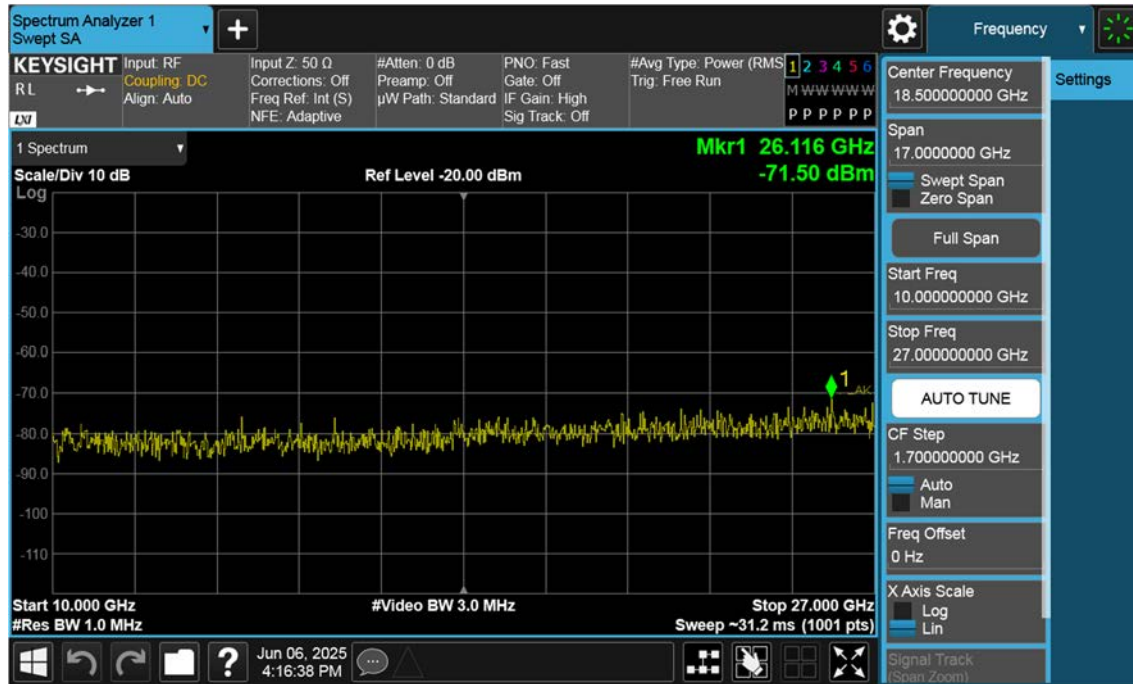
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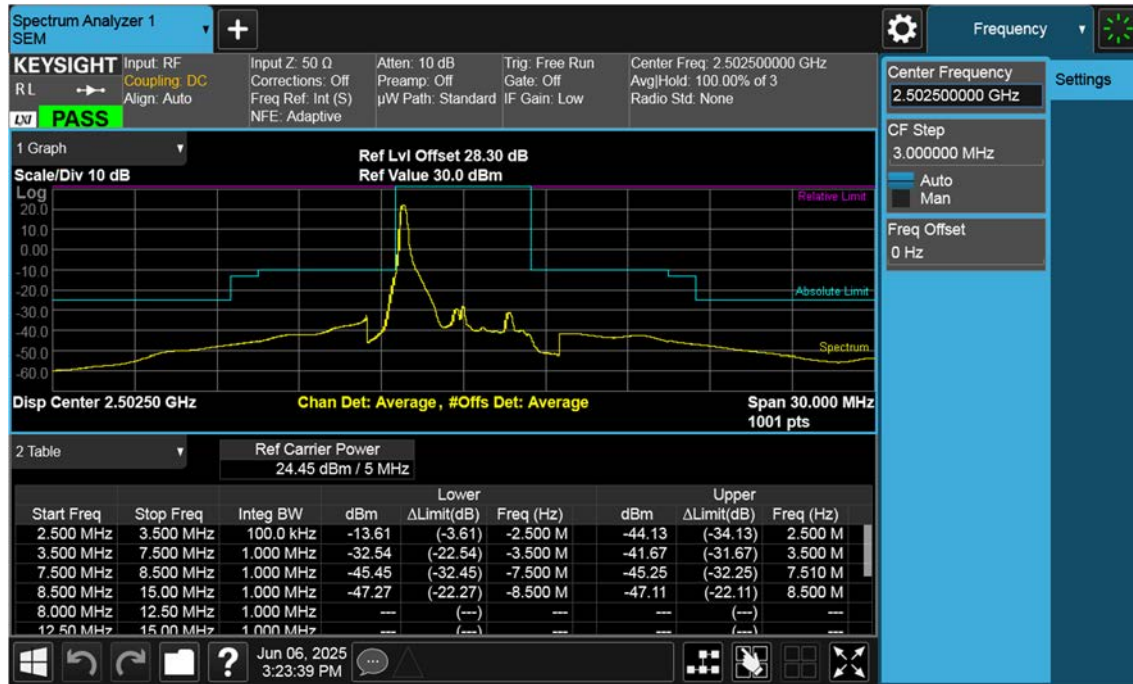
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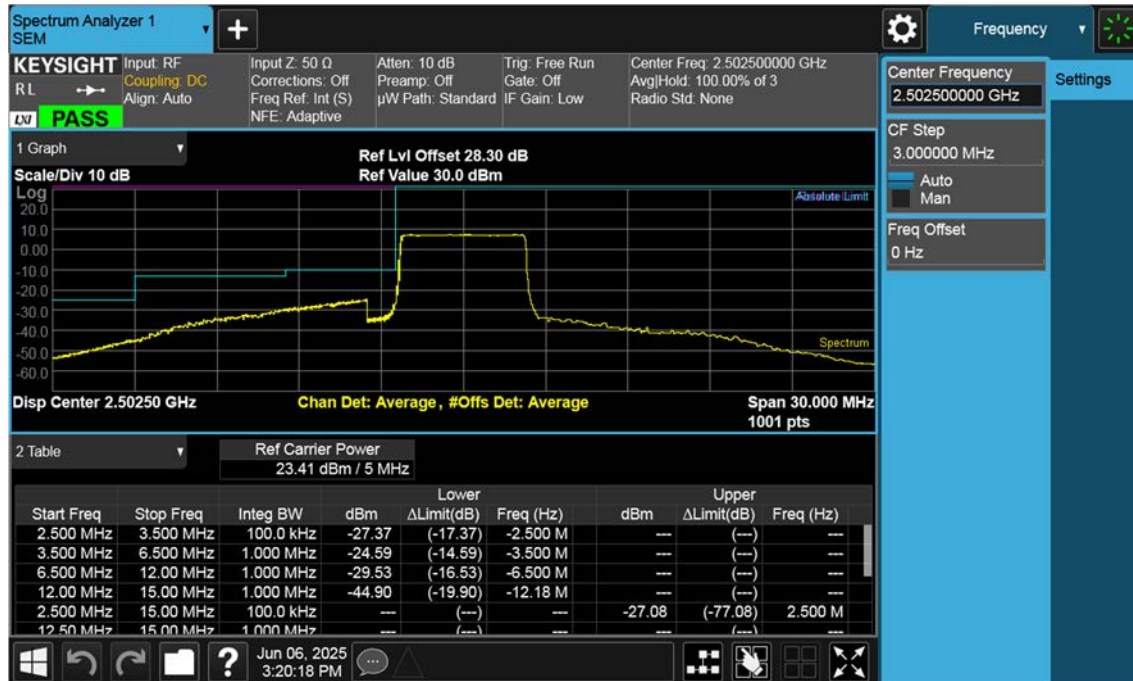
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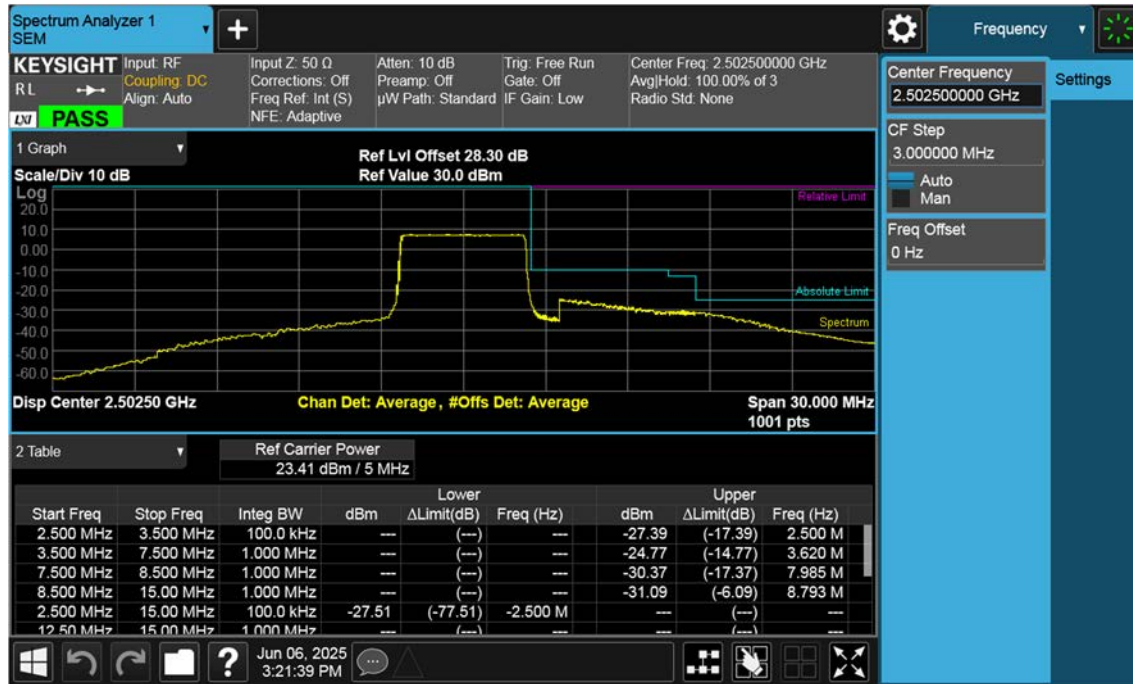
LTE B7_5 M_Channel Edge_Low_QPSK_1RB



LTE B7_5 M_Channel Edge_Lower_Low_QPSK_FullRB



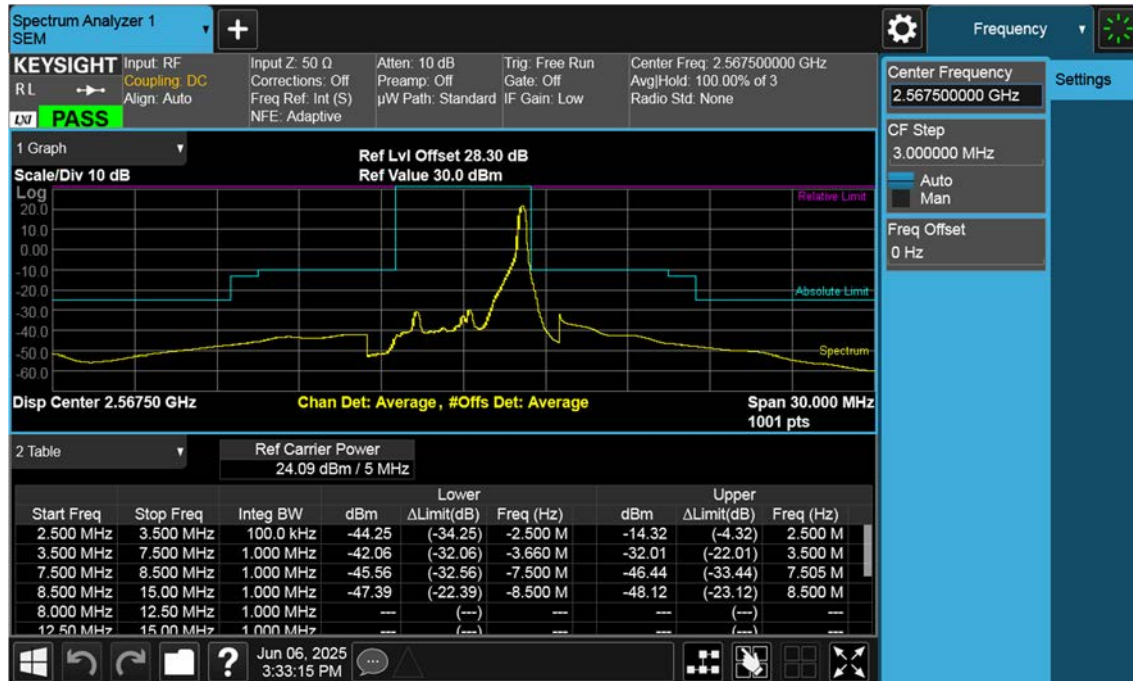
LTE B7_5 M_Channel Edge_Upper_Low_QPSK_FullRB



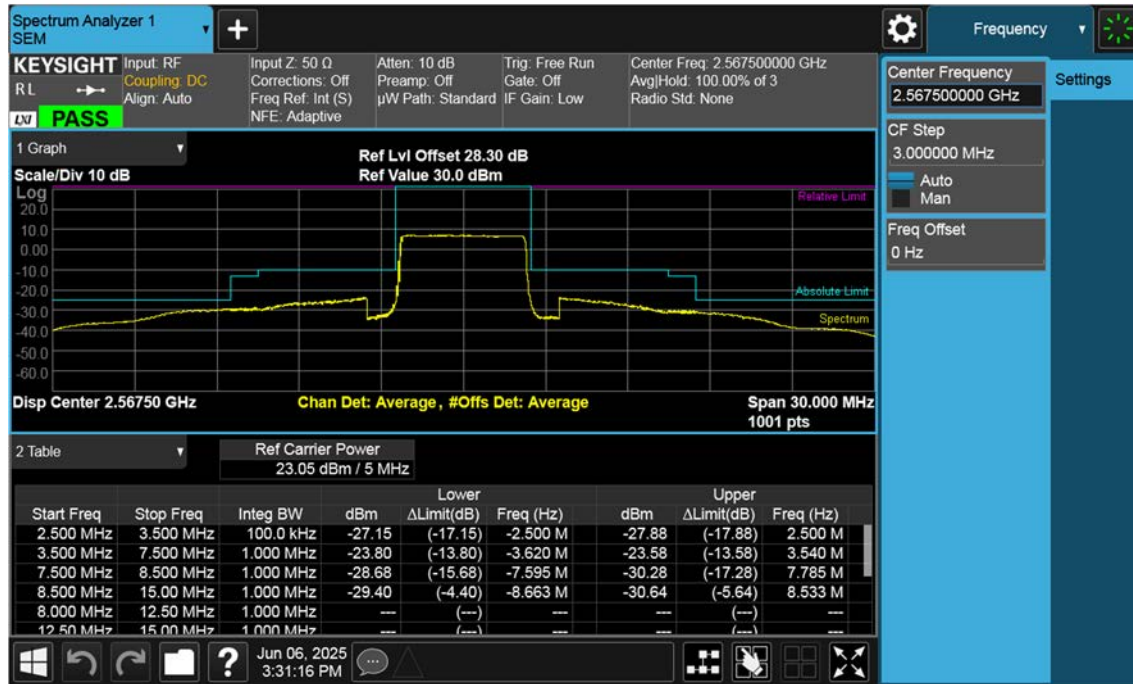
LTE B7_5 M_Channel Edge_Mid_QPSK_FullRB



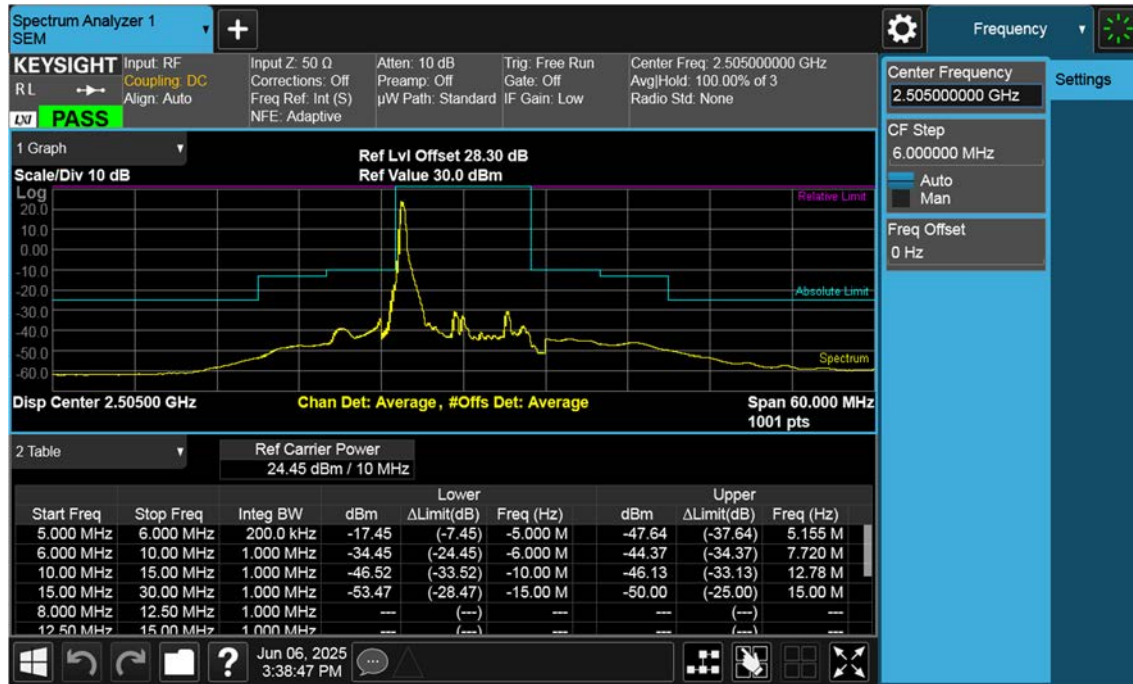
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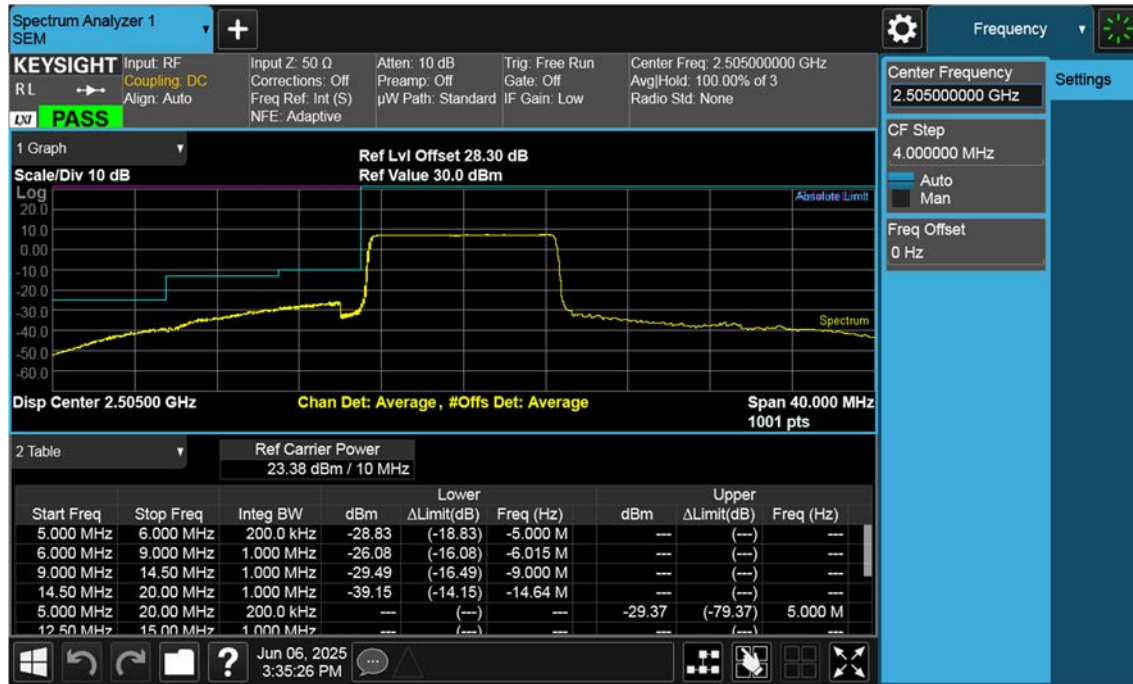
LTE B7_5 M_Channel Edge_High_QPSK_FullRB



LTE B7_10 M_Channel Edge_Low_QPSK_1RB



LTE B7_10 M_Channel Edge_Lower_Low_QPSK_FullRB



LTE B7_10 M_Channel Edge_Upper_Low_QPSK_FullRB

