

TEST REPORT

Report Number: R16238088-E21A

Applicant : Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

Model : SM-F976U, SM-F976U1

FCC ID : A3LSMF976U

EUT Description : GSM/WCDMA/LTE/NR/SCS/NTN Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax/be, UWB, WPT and NFC

Test Standard(s) : FCC 47 CFR PART 2, PART 27
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-195 ISSUE 2

Date Of Issue:
2026-05-01

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2026-05-01	Initial Review	Noah Bennett

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

EUT DESCRIPTION: GSM/WCDMA/LTE/NR/SCS/NTN Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be,
UWB, WPT and NFC

SERIAL NUMBERS: ZBK0208M, ZBD0487M, ZAT0031M, ZBK0219M, ZBK0213M

SAMPLE RECEIVE DATE: 2026-03-09

DATE TESTED: 2026-03-09 to 2026-04-28

APPLICABLE STANDARDS	TEST RESULTS
STANDARD	
FCC 47 CFR PART 2, PART 27	Complies
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-195 ISSUE 2	

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For

UL LLC By:

Prepared By:



Bob Delisi
Principal Engineer
Consumer Technology Division
UL LLC



Noah Bennett
Engineer Project Associate
Consumer Technology Division
UL LLC

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for correctly integrating customer-provided data with measurements performed by UL LLC.

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
Equivalent Isotropic Radiated Power	27.50 (a) (3)	RSS195§5.5	Complies	-
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS195	Complies	-
Band Edge and Emission Mask	2.1051, 27.53(a)	RSS195§5.6 & §5.6.2	Complies	-
Out of Band Emissions	2.1051, 27.53(a)	RSS195§5.6.2	Complies	-
Frequency Stability	2.1055, 27.54	RSS195§5.4	Complies	-
Peak-to-Average Ratio	-	-	Complies	-
Field Strength of Spurious Radiation	2.1053, 27.53(a)	RSS195§5.6 & §5.6.2	Complies	-

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.

FCC published lists of [measurement procedures](#) for compliance testing.

ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 27
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-195 Issue 2

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 2800 Suite Perimeter Park Dr. Suite B Morrisville, NC 27560, USA	US0067	27265	825374

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.52 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.88 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.24 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.37 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.17 dB
Occupied Channel Bandwidth	±0.39 %
Temperature	±0.9 °C
Supply voltages	±0.45 %
Time	±0.02 %

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/NR/SCS/NTN Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC.

Model differences:

Representative Model	Difference	Derivative Model
		SM-F976U1
SM-F976U	Hardware	Same as SM-F976U
	Software	Different UI

The EUT supports the following LTE and 5G NR Bands and their antenna configurations:

Mode and Bands	Config 0	Config 1
LTE Band30 & 5G NR n30	ANT B	ANT G

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration, and the tables below contain the highest of all configurations, average conducted and peak EIRP output powers as follows:

LTE BAND 30

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	21.59	0.144	4.5282	4528.2	4M53G7W
	16QAM			20.88	0.122	4.5184	4518.4	4M52D7W
10.0	QPSK	2310.0	2310.0	21.67	0.147	9.0302	9030.2	9M03G7W
	16QAM			20.84	0.121	9.0191	9019.1	9M02D7W

5G NR n30

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	16QAM	2307.5	2312.5	18.79	0.076	4.5433	4543.3	4M54D7W
10.0	BPSK	2310.0	2310.0	19.69	0.093	8.9815	8981.5	8M98G7W
	16QAM			18.62	0.073	9.0023	9002.3	9M00D7W

6.3. WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based upon an engineering evaluation made on pre-tuned conducted average power provided by the manufacturer. The modulations with the highest output power were selected as worst-case. Conducted tests were performed on the worst-case antenna port per band. Full radiated Emissions Testing on each antenna was performed and reported.

The following is the worst-case antenna port, and modulation, as tested:

GSM & WCDMA Bands	Worst-Case Antenna Port	Worst-Case Modulation
LTE Band 30, 5G NR n30	ANT G	QPSK (LTE) BPSK (FR1)

The EUT was investigated in three orthogonal orientations X/Y/Z on both Low Band (Fundamental Below 1GHz) Mid Band (Fundamental between 1-3GHz) and High Band (Fundamental above 3GHz) over all antennas to find the worst-case orientation. For Simultaneous Tx scans in which there are two or more F_c ranges with different worst-case orientations, scans were performed in the orientation with the highest output power, and sufficient margin was added to cover other orientations. The following are the worst-case orientations:

LTE and 5G NR Band(s)	Config 0 Orientation	Config 1 Orientation
Low Band ($F_c < 1\text{GHz}$)	-	-
Mid Band ($1\text{GHz} < F_c < 3\text{GHz}$)	Open, X	Open, X
High Band ($F_c > 3\text{GHz}$)	-	-

The EUT was tested while connected to AC Lines via charging cable and brick to represent worst case emissions.

Worst Case emissions from 9kHz-30Mhz, 30-1000MHz, 18-26.5GHz, and 26.5GHz-40GHz were done on the modes with the highest pre-tuned conducted average power per antenna. No emissions within 20dB were observed.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Flextronics	G-1000-US	Na	na

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	<3m	Phone to power adapter

TEST SETUP

The EUT was connected to a base station simulator and set to transmit at max power for LTE and 5G NR testing

SETUP DIAGRAM

Please see R16238088-EP1 for Setup Diagrams and Setup Photos.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
8939	Passive Loop Antenna	EMCO	EM-6872	2024-11-18	2026-11-18
8940	Passive Loop Antenna	EMCO	EM-6871	2024-11-18	2026-11-18
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2026-02-09	2028-02-09
	1-18 GHz				
*206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-04-09	2026-04-30
	18-40 GHz				
204704	Horn Antenna, 18-26.5GHz	Com Power	AH-826	2025-07-15	2027-07-15
204705	Horn Antenna, 26-40GHz	Com Power	AH-640	2025-11-19	2027-11-19
	Gain-Loss Chains				
207638	Gain-loss string: 0.009-30MHz	Various	Various	2025-06-13	2026-06-13
207639	Gain-loss string: 25-1000MHz	Various	Various	2025-06-13	2026-06-13
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-13
225795	Gain-loss string: 18-40GHz	Various	Various	2025-06-13	2026-06-13
	Receiver & Software				
*197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-30
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
213025	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	NA	NA
208720	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	NA	NA
21725	Radio Communications Tester	Rohde and Schwarz	CMX500	NA	NA
212167	Wideband Radio Communications Tester	Anritsu	MT8821C	NA	NA
*77414 (BRF003)	2.4GHz notch filter, 2W, Fhigh =18GHz	Micro-Tronics	BRM50702	2025-03-13	2026-03-31

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-07-15	2027-07-15
	Gain-Loss Chains				
91977	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
239540	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
213025	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	NA	NA
*77414 (BRF003)	2.4GHz notch filter, 2W, Fhigh =18GHz	Micro-Tronics	BRM50702	2025-03-13	2026-03-31

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
88761	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-11-19	2027-11-19
	Gain-Loss Chains				
91979	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
	Receiver & Software				
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
*77414 (BRF003)	2.4GHz notch filter, 2W, Fhigh =18GHz	Micro-Tronics	BRM50702	2025-03-13	2026-03-31

*Note – All Equipment was in calibration during time of testing.

Wireless Conducted Measurement Equipment.

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Additional Equipment used					
90411	Spectrum Analyzer MY54490314	Keysight Technologies	N9030A	2026-03-03	2027-03-03
90416	Spectrum Analyzer MY54490254	Keysight Technologies	N9030A	2025-07-31	2026-07-31
212967	Wideband Radio Communications Tester 170733	Rohde and Schwarz	CMW500	2026-02-13	2027-02-13
212166	Wideband Radio Communications Tester	Anritsu	MT8000A	2026-02-23	2027-02-23
*262469	Humidity and Temperature Probe	Control Company	15-077-963	2025-04-28	2026-04-30

Test Equipment Used - Wireless Conducted Attenuators, Cables, and Couplers

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Attenuators					
226569	2.92mm Coaxial 10dB Attenuator 40GHz	Fairview Microwave	SA4014-10	2025-09-02	2026-09-02
226554	20dB Attenuator	CentricRF	C18S2-20	2025-03-31 2026-04-01	2026-03-31 2027-04-01
226552	20dB Attenuator	CentricRF	C18S2-20	2025-03-31 2026-04-01	2026-03-31 2027-04-01
Cables					
246257	SMA Cable	Huber + Suhner	104PEA	2025-09-05	2026-09-05
Couplers					
*238018 (CPL003-SAR)	Ultra-Wideband Directional Coupler 0.5-18GHz	Mini-Circuits	ZUDC10-183+	2025-04-48	2026-04-30

8. CONDUCTED TEST RESULTS

8.1 OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS195

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was teste.

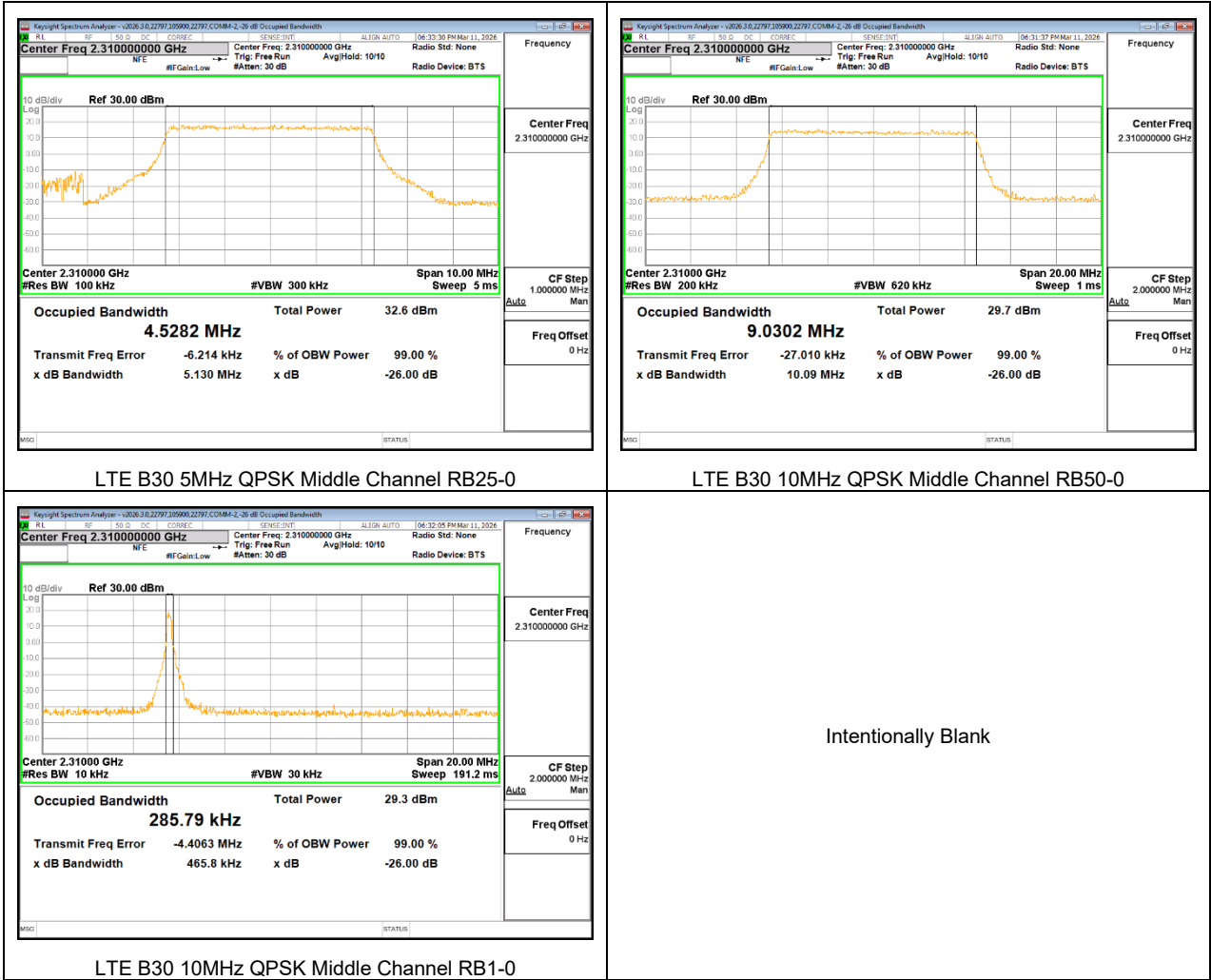
LTE BAND 30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 30	5MHz, QPSK	25/0	2310.0	4.5282	5.130
	5MHz, 16QAM			4.5184	5.277
	10MHz, QPSK	50/0		9.0302	10.09
	10MHz, 16QAM			9.0191	10.07
	10MHz, QPSK	1/0		.28579	.4658

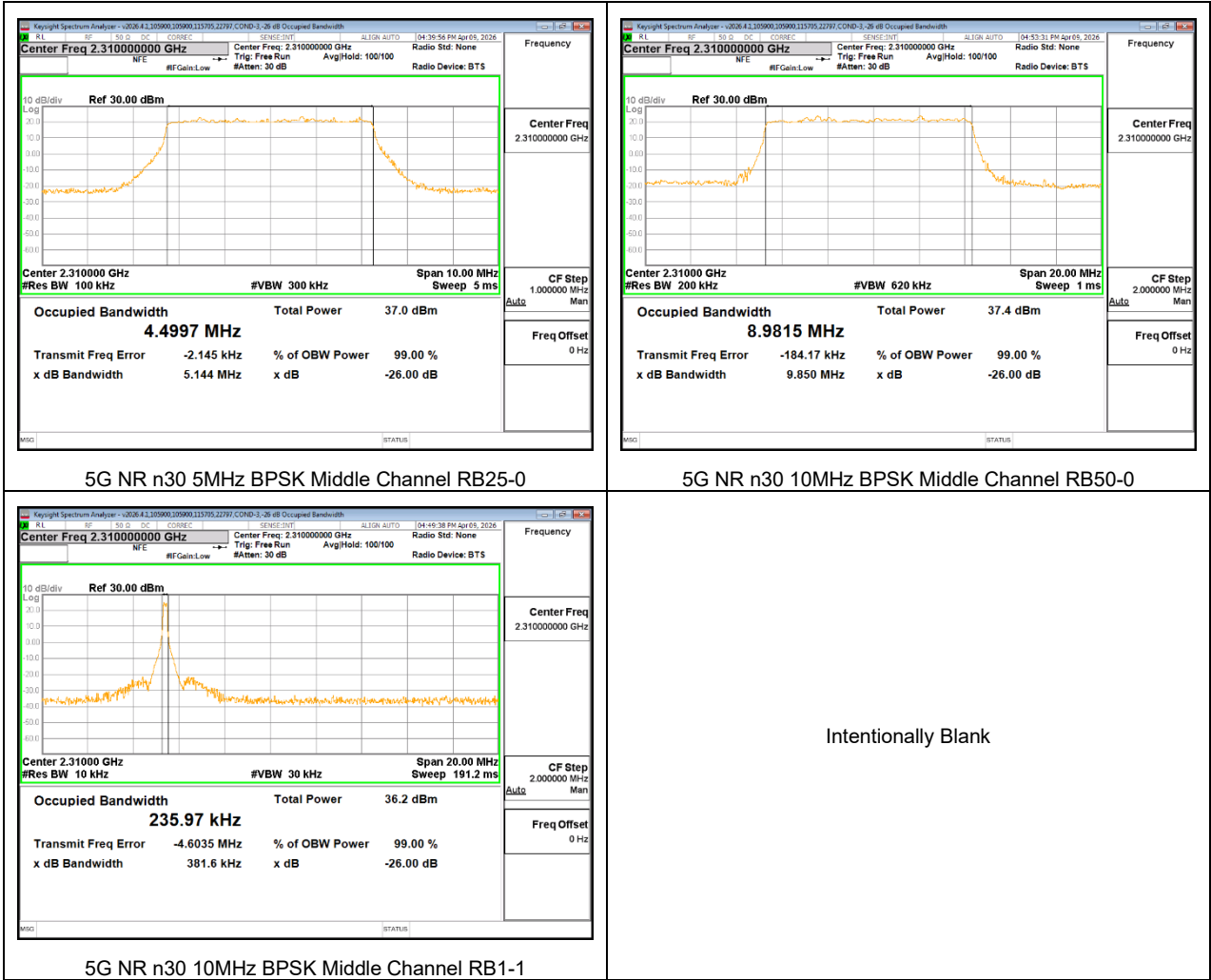
5G NR n30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n30	5MHz, BPSK	25/0	2310.0	4.4997	5.144
	5MHz, 16QAM			4.5433	5.261
	10MHz, BPSK	50/0		8.9815	9.850
	10MHz, 16QAM			9.0023	9.808
	10MHz, BPSK	1/1		.23597	.3816

8.1.1. LTE BAND 30



8.1.2. 5G NR n30



8.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

ISED: RSS195§5.6

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

RSS195§5.6.2 Mobile, Portable and Low-Power Fixed Subscriber Equipment

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P (dBW), by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

According to [Notice 2022-CEB001](#) In order to demonstrate compliance with the unwanted emission limit of -13 dBm/MHz, the power level measured within the first 1 MHz immediately adjacent to the channel edges shall be integrated over the full 1 MHz bandwidth with a resolution as close as possible to 1% (no less than 1%) of the occupied bandwidth.

TEST PROCEDURE

For Spectrum Emission Mask plots, the spectrum analyzer is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (BAND 30)

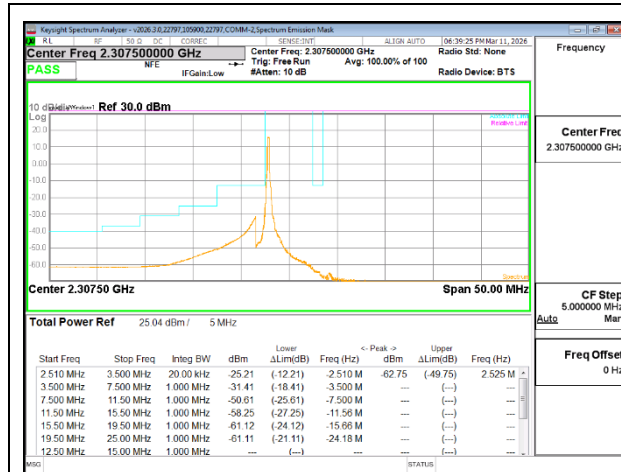
(5) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.*, 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

To show compliance with this requirement the spectrum analyzer is configured to measure the adjacent channel power for the frequency blocks adjacent to the channel edge. The integration of power is performed over a bandwidth > 1MHz and if the measurement is less than -13dBm when measured over more than 1MHz then the power must be less than -13dBm/MHz.

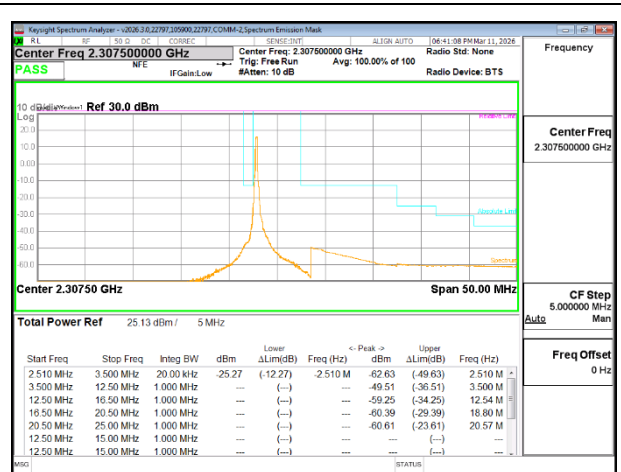
RESULTS

See the following pages.

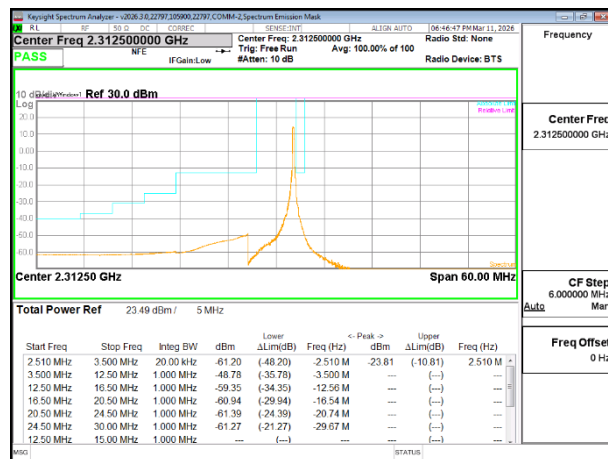
8.2.1. LTE BAND 30 EMISSION MASK



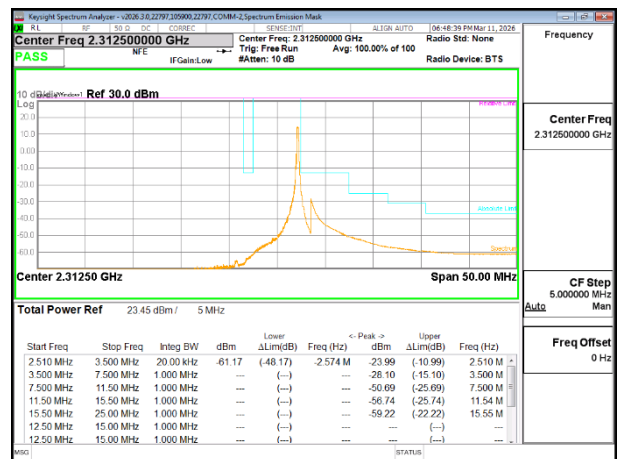
LTE B30 5MHz QPSK Low Channel RB1-0 (Low side)



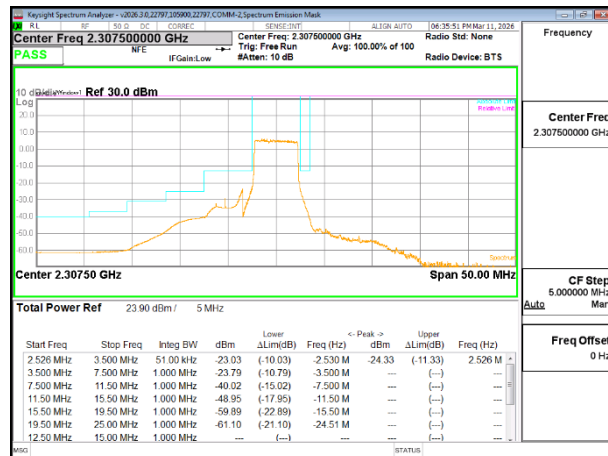
LTE B30 5MHz QPSK Low Channel RB1-0 (High side)



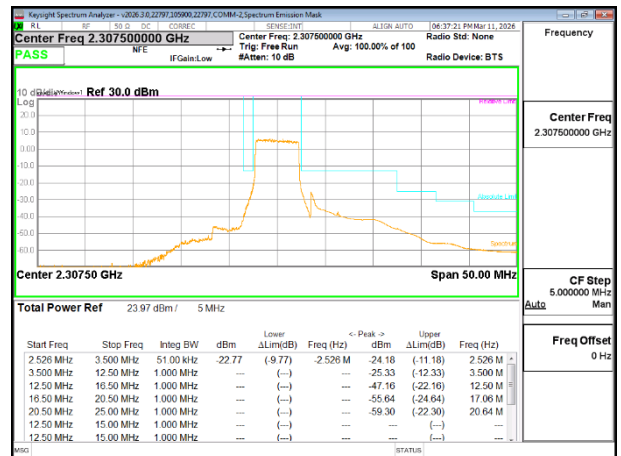
LTE B30 5MHz QPSK High Channel RB1-24 (Low side)



LTE B30 5MHz QPSK High Channel RB1-24 (High side)



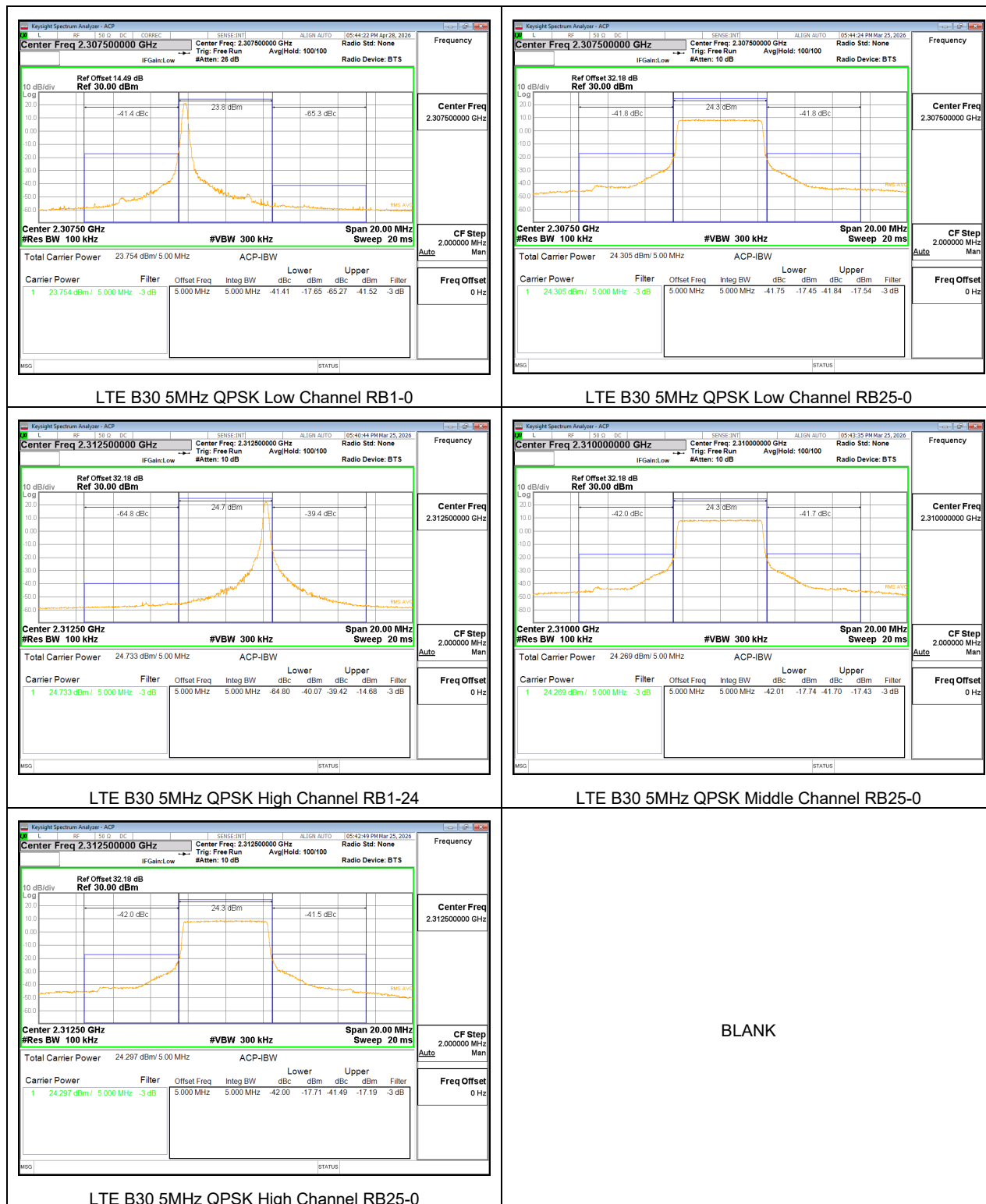
LTE B30 5MHz QPSK Low Channel RB25-0 (Low side)

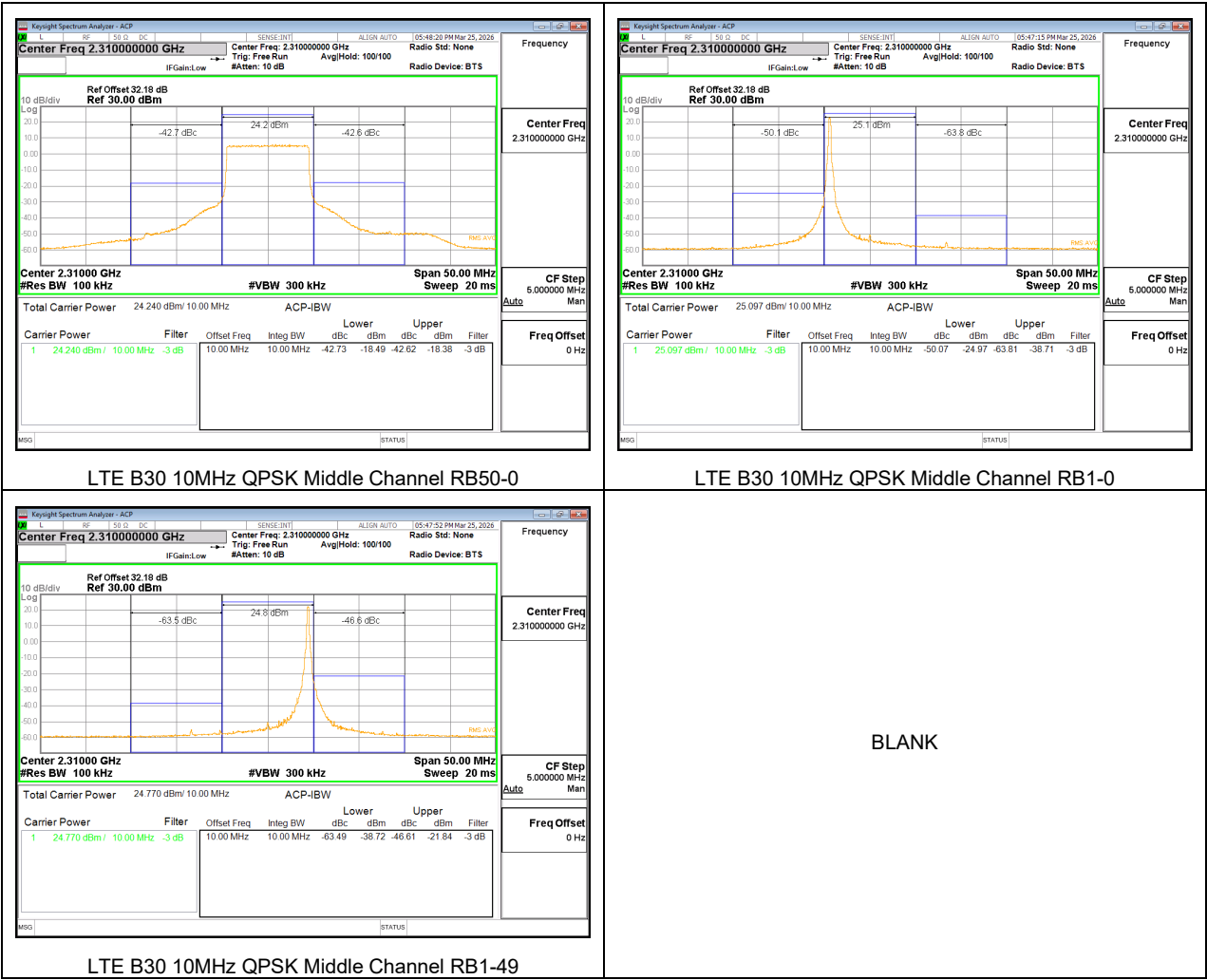


LTE B30 5MHz QPSK Low Channel RB25-0 (High side)



8.2.2. LTE BAND 30 ADJACENT CHANNEL POWER





Keysight Spectrum Analyzer - ACP

Center Freq 2.310000000 GHz

Center Freq: 2.310000000 GHz

Trig: Free Run

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

IF Gain: Low

Ref Offset 32.18 dB

Ref 30.00 dBm

10 dB/div

20.0

10.0

0.0

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

-80.0

24.8 dBm

-63.5 dBc

-46.6 dBc

Center Freq 2.310000000 GHz

Center Freq 2.310000000 GHz

Center 2.310000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 50.00 MHz

Sweep 20 ms

Total Carrier Power 24.770 dBm/ 10.00 MHz

ACP-IBW

Carrier Power

Filter

Offset Freq

Integ BW

dBc

dBm

dBc

dBm

Filter

1

24.770 dBm/ 10.00 MHz

-3 dB

10.00 MHz

10.00 MHz

-63.49

-38.72

-46.61

-21.84

-3 dB

CF Step 5.000000 MHz

Auto

Man

Freq Offset 0 Hz

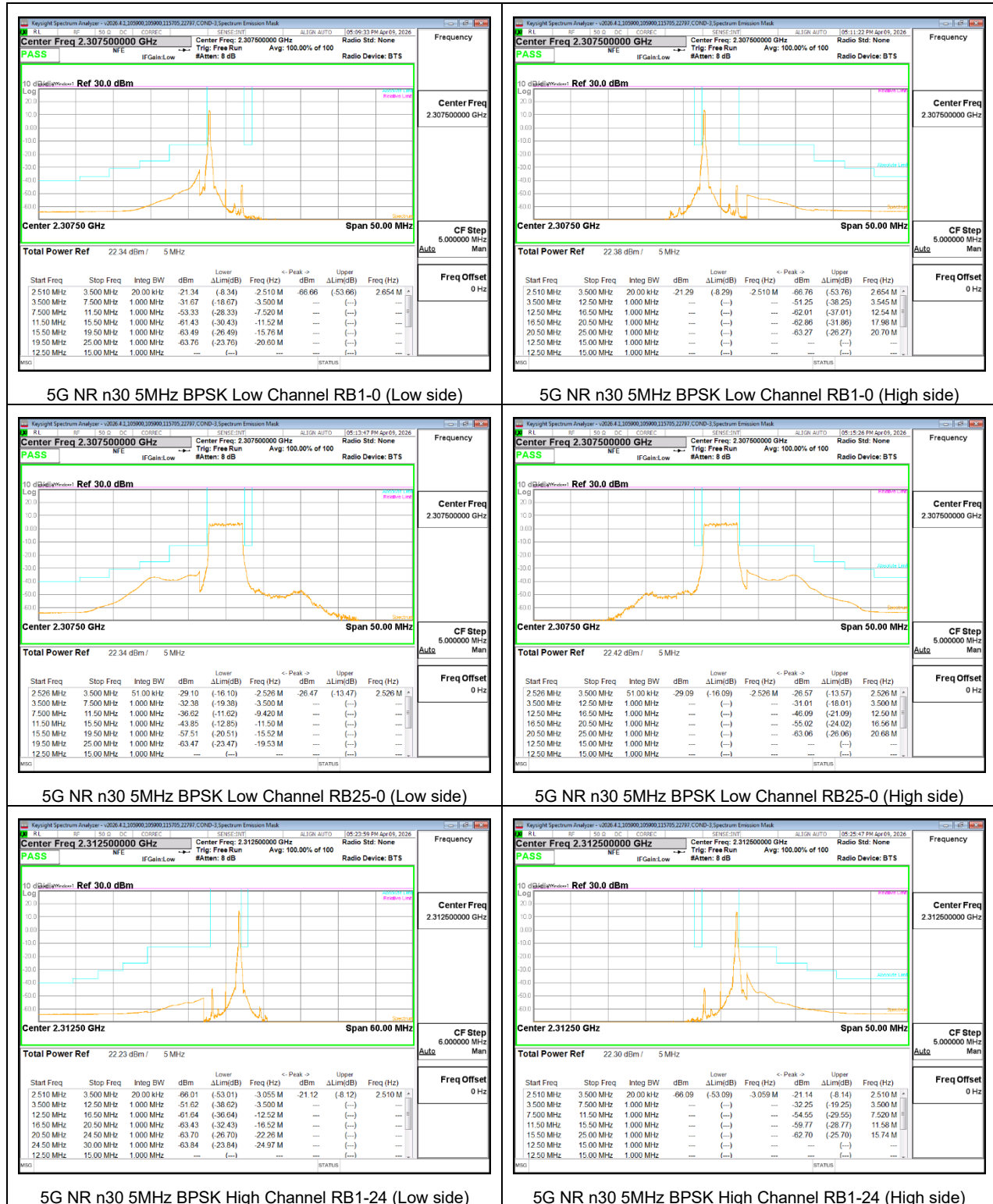
MSG

STATUS

LTE B30 10MHz QPSK Middle Channel RB1-49

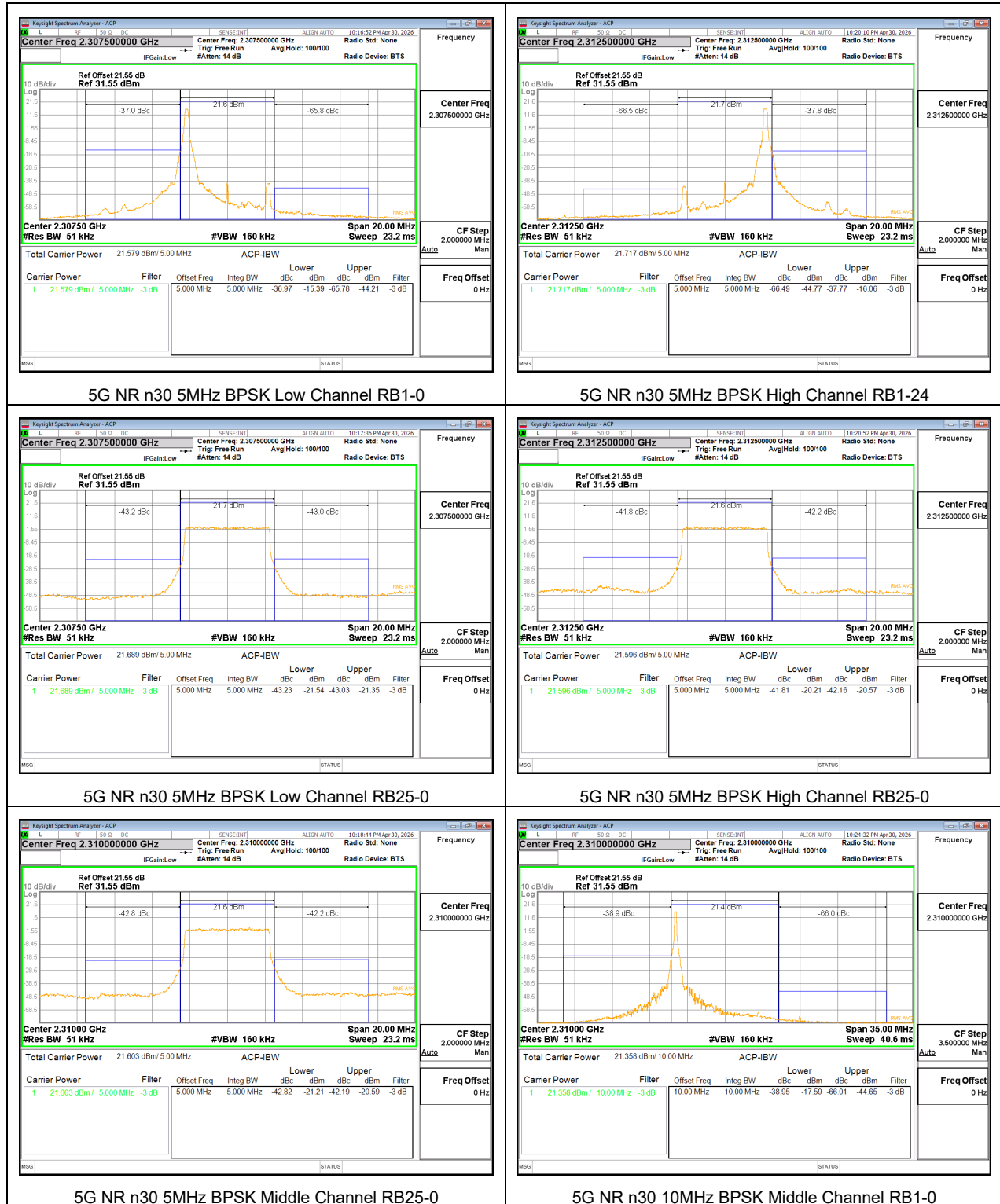
BLANK

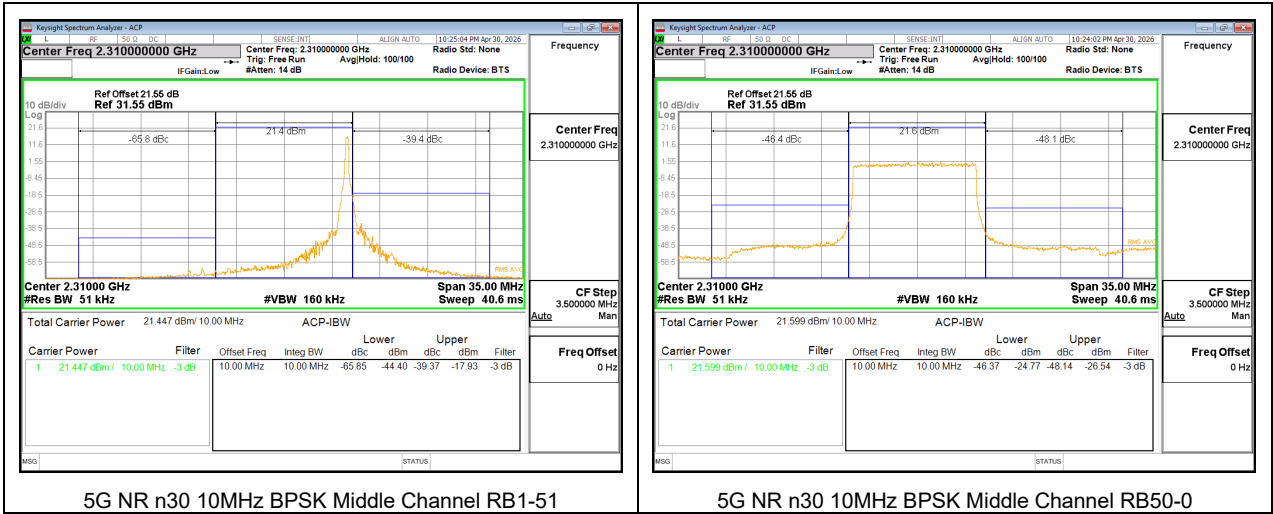
8.2.3. 5G NR n30 EMISSION MASK





8.2.4. 5G NR n30 ADJACENT CHANNEL POWER





8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §27.53 (a)

The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

RSS195§5.6.2

The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

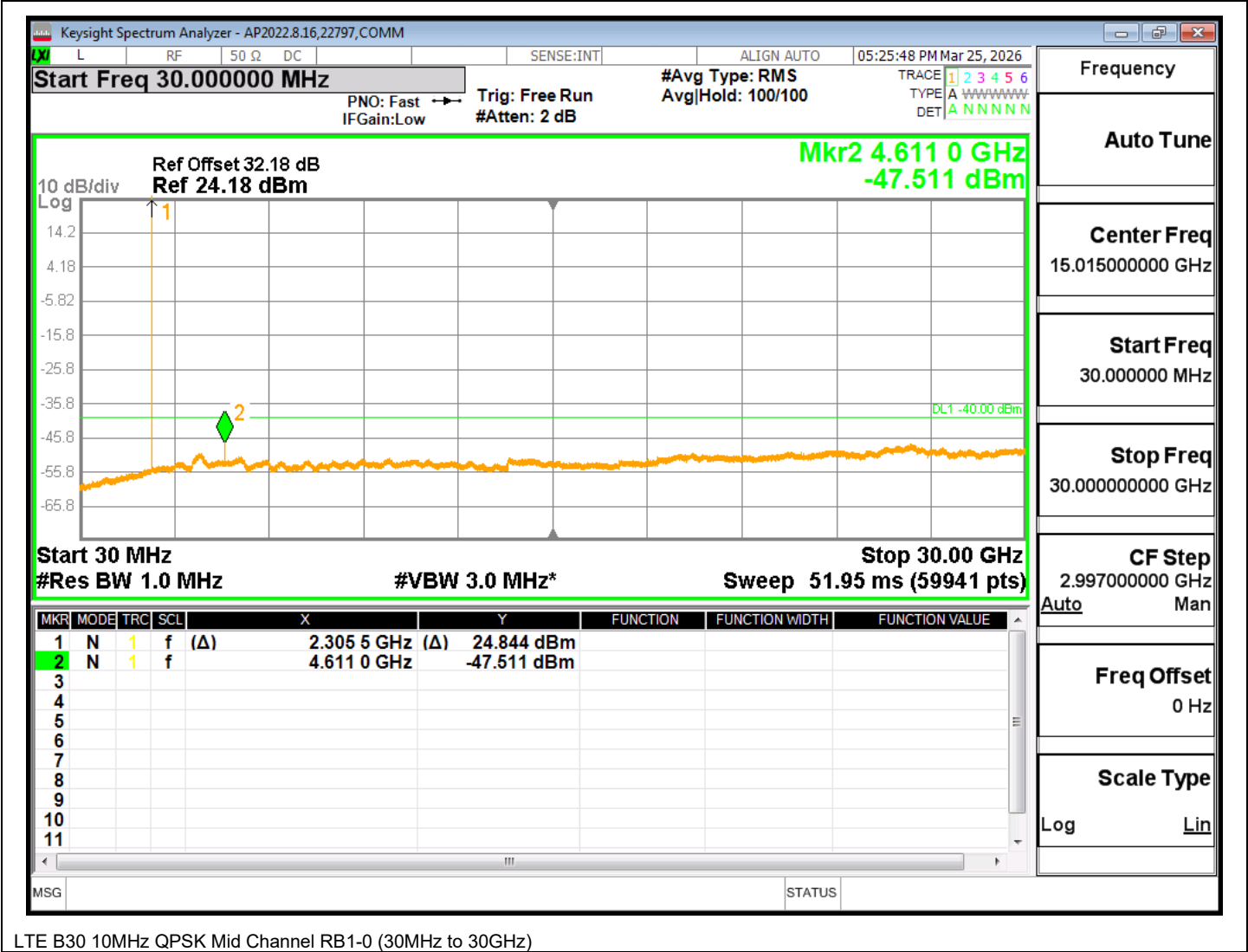
For each out of band emissions measurement:

- Set display line at required limit.
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

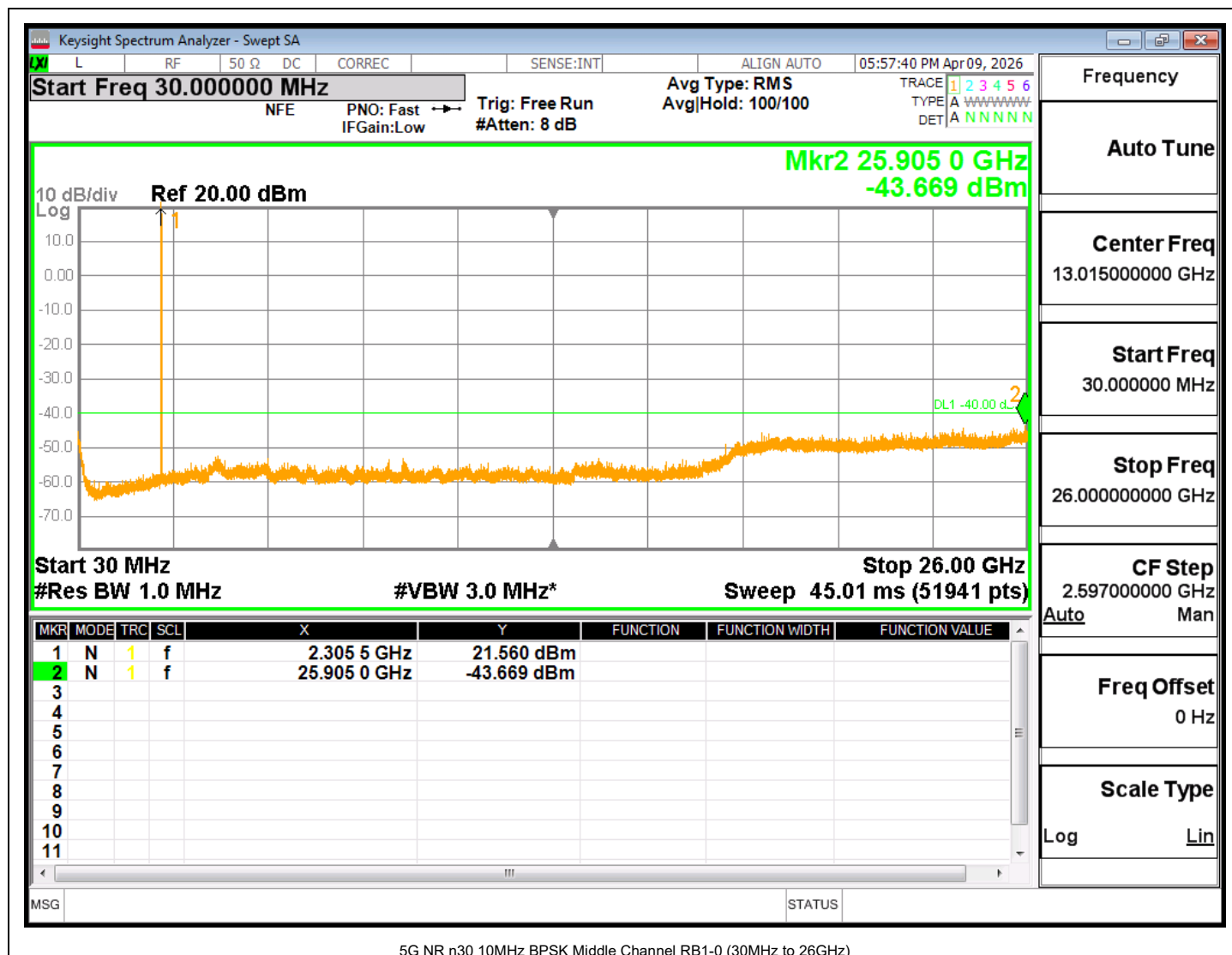
RESULTS

See the following pages.

8.3.1 LTE BAND 30



8.3.2. 5G NR n30



8.4. FREQUENCY STABILITY

LIMITS

FCC: §27.54
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

ISED: RSS195§5.4
The applicant shall ensure frequency stability by showing that the occupied bandwidth is maintained within the range of the operating frequency blocks when testing under the temperature and supply voltage variations specified for the frequency stability measurement in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 100%)

Normal, 3.89VDC
End Voltage, 3.69VDC.

Frequency Stability vs Temperature:
The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:
The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

Test Engineer ID:	105900/84740	Test Date:	2026-04-08
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8.4.1. LTE BAND 30 (QPSK 10MHz BANDWIDTH)

Band	30	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2305	2315			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	2301.6338	2318.5763			
Extreme (50°C)		2301.6337	2318.5762	-2.69	-0.001	Yes
Extreme (40°C)		2301.6338	2318.5763	3.93	0.002	Yes
Extreme (30°C)		2301.6338	2318.5763	6.88	0.003	Yes
Extreme (10°C)		2301.6337	2318.5762	-4.67	-0.002	Yes
Extreme (0°C)		2301.6337	2318.5762	-2.38	-0.001	Yes
Extreme (-10°C)		2301.6338	2318.5763	6.72	0.003	Yes
Extreme (-20°C)		2301.6338	2318.5763	3.59	0.002	Yes
Extreme (-30°C)		2301.6337	2318.5762	-1.69	-0.001	Yes
20°C	End Point Voltage	2301.6337	2318.5762	-6.39	-0.003	Yes

8.4.2. 5G NR n30 (BPSK 10MHz BANDWIDTH)

Band	30	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2305	2315			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	2303.2538	2316.5150			
Extreme (50°C)		2303.2537	2316.5150	-0.0025	0.000	Yes
Extreme (40°C)		2303.2538	2316.5150	0.0024	0.000	Yes
Extreme (30°C)		2303.2537	2316.5150	-0.0044	0.000	Yes
Extreme (10°C)		2303.2537	2316.5150	-0.0041	0.000	Yes
Extreme (0°C)		2303.2537	2316.5150	-0.002	0.000	Yes
Extreme (-10°C)		2303.2537	2316.5150	-0.0064	0.000	Yes
Extreme (-20°C)		2303.2538	2316.5150	0.0067	0.000	Yes
Extreme (-30°C)		2303.2538	2316.5150	0.0002	0.000	Yes
20°C	End Point Voltage	2303.2537	2316.5150	-0.0004	0.000	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

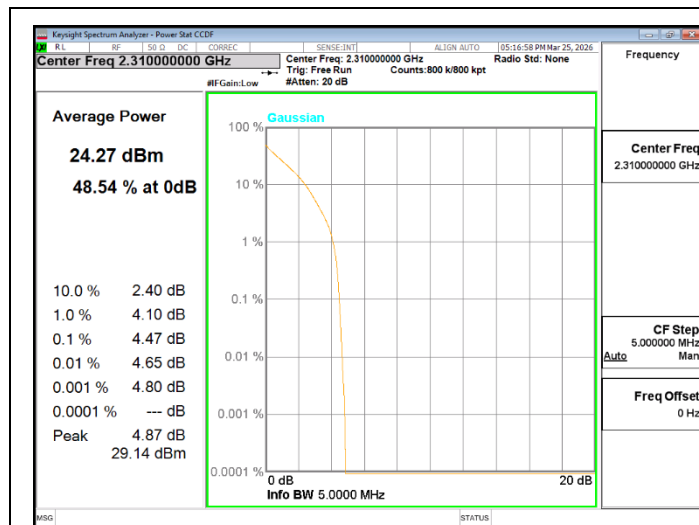
RESULT

Config 0 to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

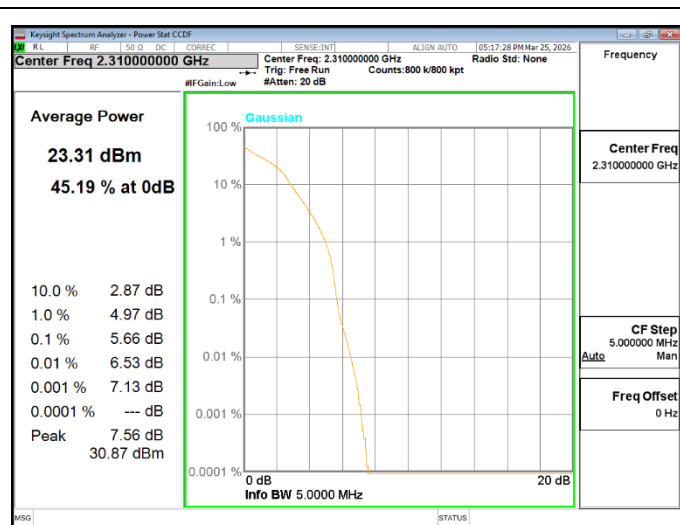
TEST PROCEDURE

The EUT was connected to a Wideband Power Sensor to measure Peak and Average Output power.

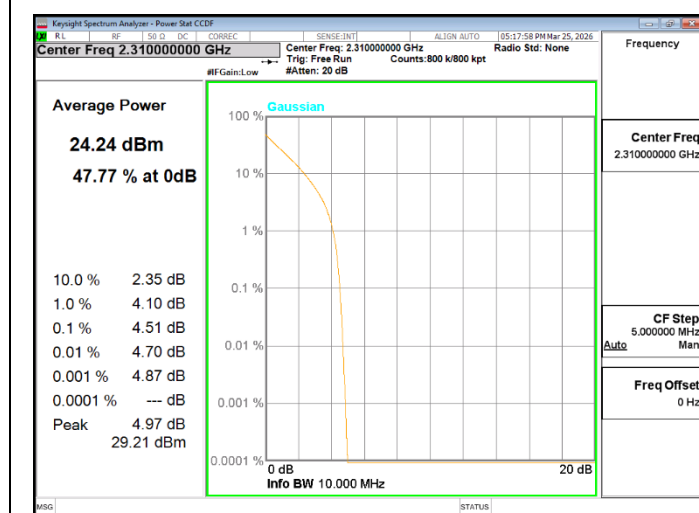
8.5.1. LTE BAND 30



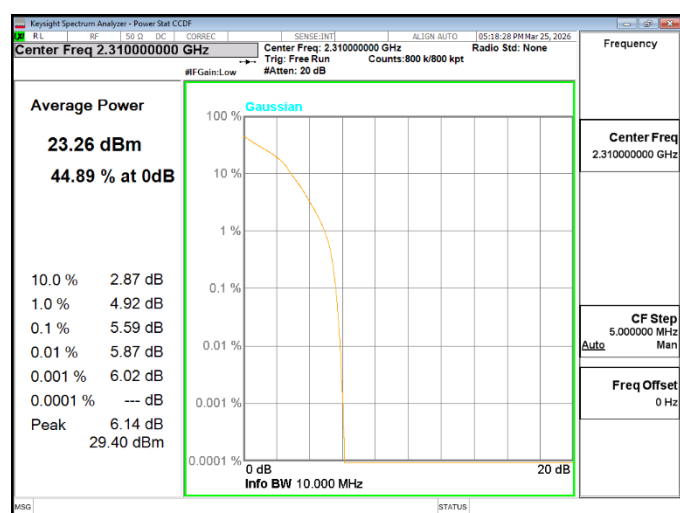
LTE30_5M_QPSK_2310_RB25-0



LTE30_5M_16QAM_2310_RB25-0

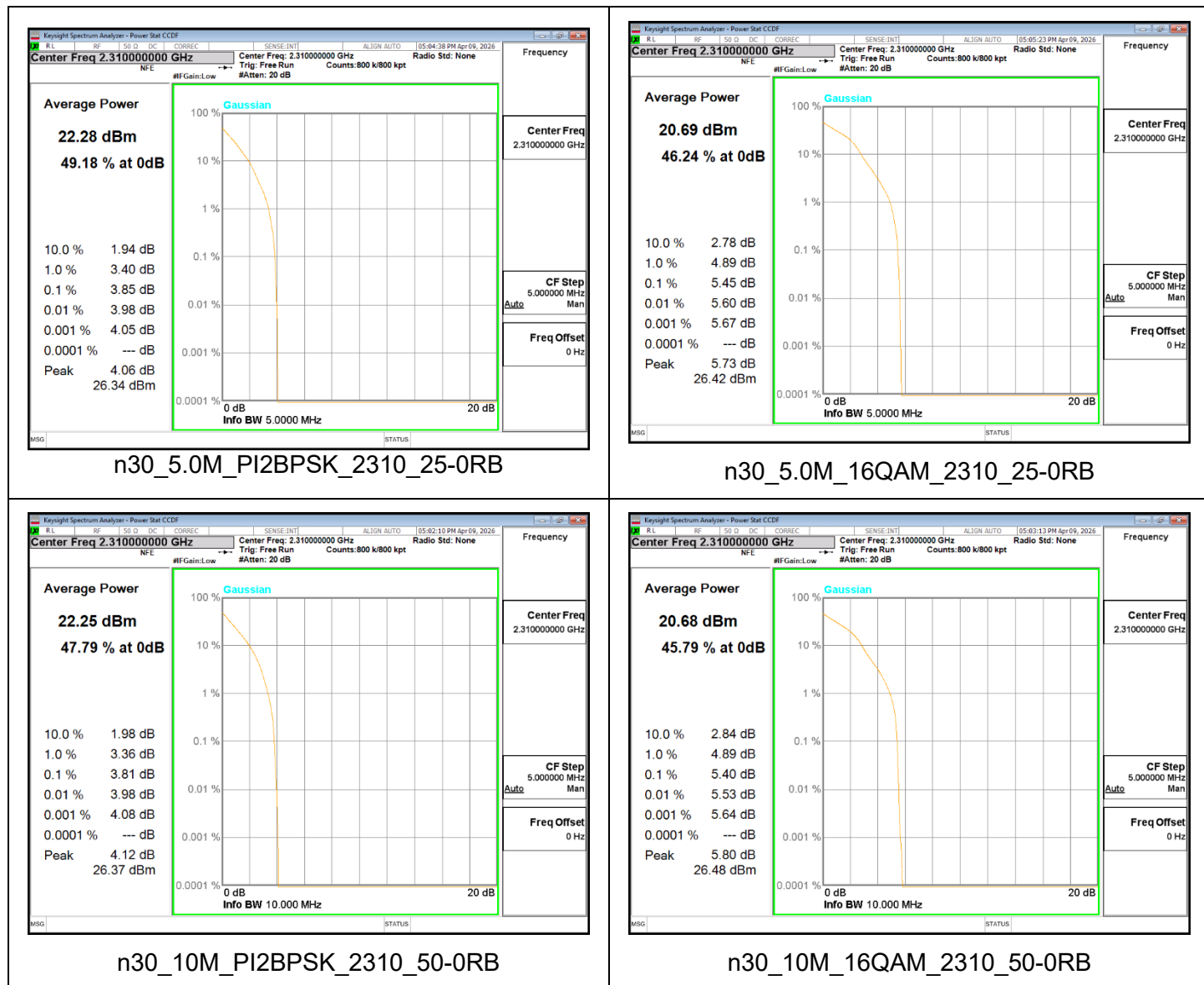


LTE30_10M_QPSK_2310_RB50-0



LTE30_10M_16QAM_2310_RB50-0

8.5.2. 5G NR n30



9. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

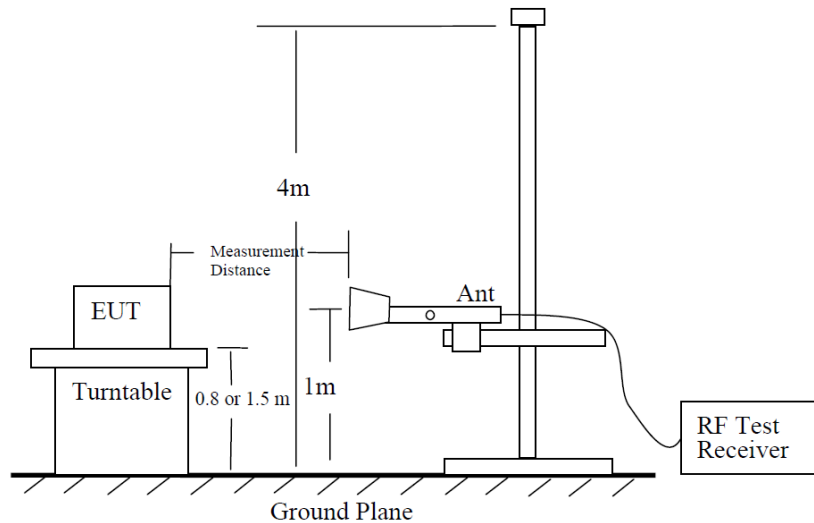


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

9.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1046, §27.50

ISED: RSS195§5.5

LIMITS

27.50(a)(3)

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

RSS139§5.5

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

TEST PROCEDURE

ANSI / TIA / EIA 603-E (2016), Clause 2.2.17; PSA setting reference to 971168 D01

For average power measurements:

- a) Set span to at least 1.5 times the OBW;
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz;
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set number of points in sweep $\geq 2 \times$ span / RBW;
- e) Sweep time = auto-couple;
- f) Detector = RMS (power averaging);
- g) Use free run trigger If burst duty cycle ≥ 98 ;
- h) Add a duty cycle correction factor ($10\log(\text{DC})$) if burst duty cycle < 98 ;
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power

TEST RESULTS

9.1.2 LTE BAND 30

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2307.500	LTE30 / 5MHz (ANT B)	RB1-0	QPSK	0.119	20.77	23.98	-3.21
2310.000		RB1-12	QPSK	0.120	20.80	23.98	-3.18
2312.500		RB1-24	QPSK	0.124	20.92	23.98	-3.06
2307.500		RB1-0	16QAM	0.077	18.84	23.98	-5.14
2310.000		RB1-12	16QAM	0.075	18.77	23.98	-5.21
2312.500		RB1-24	16QAM	0.088	19.45	23.98	-4.53
2310.000	LTE30 / 10MHz (ANT B)	RB1-0	QPSK	0.117	20.69	23.98	-3.29
2310.000		RB1-25	QPSK	0.114	20.57	23.98	-3.41
2310.000		RB1-49	QPSK	0.121	20.81	23.98	-3.17
2310.000		RB1-0	16QAM	0.103	20.12	23.98	-3.86
2310.000		RB1-25	16QAM	0.097	19.87	23.98	-4.11
2310.000		RB1-49	16QAM	0.104	20.19	23.98	-3.79

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2307.500	LTE30 / 5MHz (ANT G)	RB1-0	QPSK	0.144	21.59	23.98	-2.39
2310.000		RB1-12	QPSK	0.134	21.26	23.98	-2.72
2312.500		RB1-24	QPSK	0.122	20.85	23.98	-3.13
2307.500		RB1-0	16QAM	0.095	19.78	23.98	-4.20
2310.000		RB1-12	16QAM	0.122	20.88	23.98	-3.10
2312.500		RB1-24	16QAM	0.109	20.36	23.98	-3.62
2310.000	LTE30 / 10MHz (ANT G)	RB1-0	QPSK	0.130	21.13	23.98	-2.85
2310.000		RB1-25	QPSK	0.147	21.67	23.98	-2.31
2310.000		RB1-49	QPSK	0.131	21.18	23.98	-2.80
2310.000		RB1-0	16QAM	0.112	20.51	23.98	-3.47
2310.000		RB1-25	16QAM	0.118	20.71	23.98	-3.27
2310.000		RB1-49	16QAM	0.121	20.84	23.98	-3.14

CONFIG 1

9.1.3 5GNR N30 10MHZ

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2307.500	n30 / 5MHz (ANT B)	RB1-1	BPSK	0.091	19.59	23.98	-4.39
2310.000		RB1-12	BPSK	0.092	19.63	23.98	-4.35
2312.500		RB1-23	BPSK	0.090	19.56	23.98	-4.42
2307.500		RB1-1	16QAM	0.076	18.79	23.98	-5.19
2310.000		RB1-12	16QAM	0.073	18.64	23.98	-5.34
2312.500		RB1-23	16QAM	0.073	18.64	23.98	-5.34
2310.000	n30 / 10MHz (ANT B)	RB1-1	BPSK	0.087	19.42	23.98	-4.56
2310.000		RB1-26	BPSK	0.093	19.69	23.98	-4.29
2310.000		RB1-50	BPSK	0.075	18.77	23.98	-5.21
2310.000		RB1-1	16QAM	0.069	18.37	23.98	-5.61
2310.000		RB1-26	16QAM	0.073	18.62	23.98	-5.36
2310.000		RB1-50	16QAM	0.060	17.79	23.98	-6.19

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2307.500	n30 / 5MHz (ANT B)	RB1-1	BPSK	0.083	19.17	23.98	-4.81
2310.000		RB1-12	BPSK	0.091	19.57	23.98	-4.41
2312.500		RB1-23	BPSK	0.062	17.95	23.98	-6.03
2307.500		RB1-1	16QAM	0.070	18.43	23.98	-5.55
2310.000		RB1-12	16QAM	0.068	18.33	23.98	-5.65
2312.500		RB1-23	16QAM	0.070	18.42	23.98	-5.56
2310.000	n30 / 10MHz (ANT B)	RB1-1	BPSK	0.071	18.54	23.98	-5.44
2310.000		RB1-26	BPSK	0.091	19.60	23.98	-4.38
2310.000		RB1-50	BPSK	0.086	19.37	23.98	-4.61
2310.000		RB1-1	16QAM	0.054	17.34	23.98	-6.64
2310.000		RB1-26	16QAM	0.068	18.31	23.98	-5.67
2310.000		RB1-50	16QAM	0.066	18.17	23.98	-5.81

CONFIG 1

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC: §27.53 (a)

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

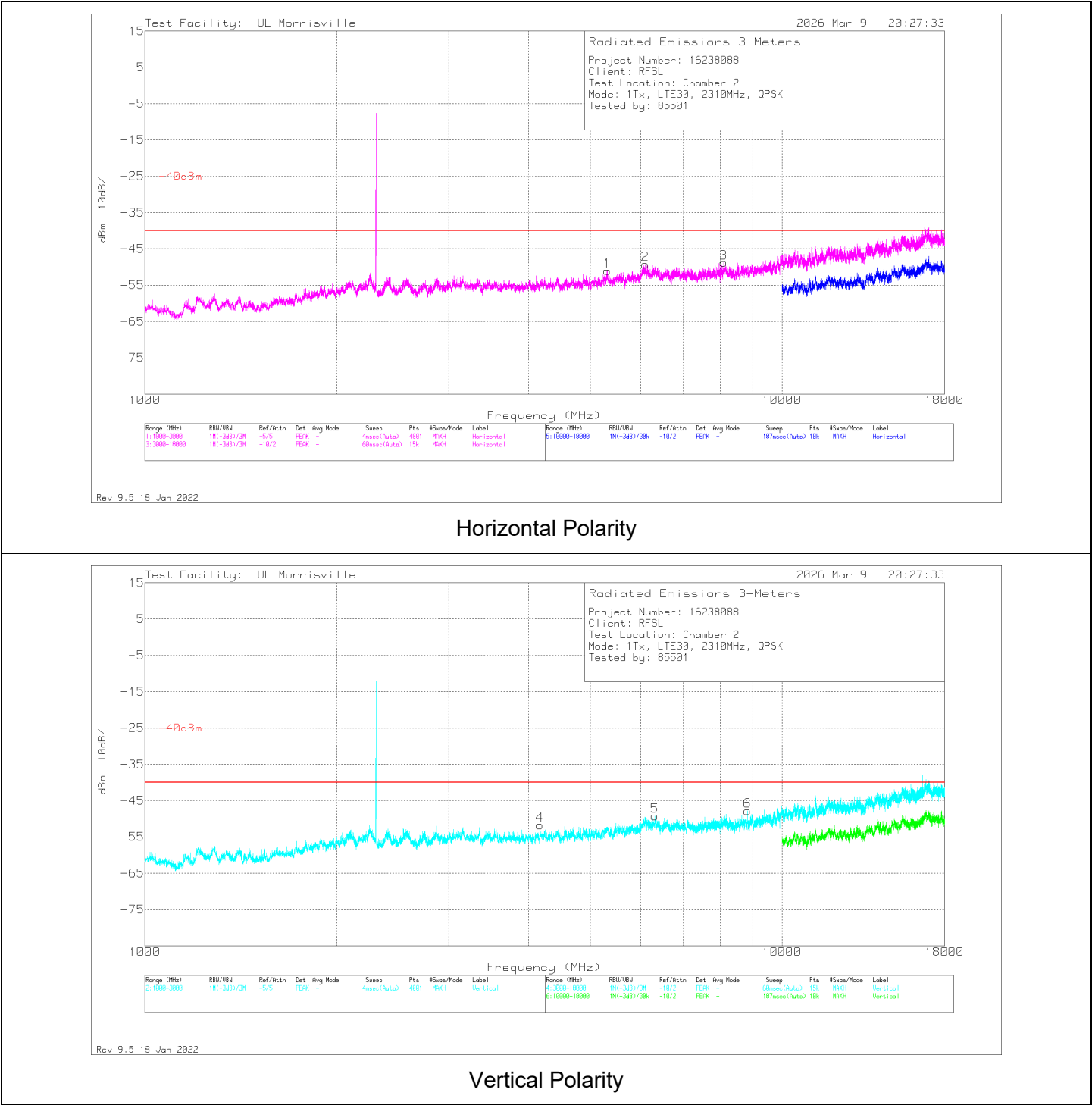
RSS195§5.6

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

RSS195§5.6.2 Mobile, Portable and Low-Power Fixed Subscriber Equipment

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, $P(\text{dBW})$, by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

Example Plot



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	88761 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4169	-51.12	Pk	33.5	-46.3	11.8	.4	-51.72	-40	-11.72	0-360	200	V
1	5322	-53.94	Pk	34.3	-43.6	11.8	.4	-51.04	-40	-11.04	0-360	200	H
2	6105	-55.33	Pk	35.6	-41.8	11.8	.5	-49.23	-40	-9.23	0-360	101	H
5	6318	-55.62	Pk	35.7	-41.5	11.8	.3	-49.32	-40	-9.32	0-360	200	V
3	8108	-56.01	Pk	36	-41.2	11.8	.6	-48.81	-40	-8.81	0-360	101	H
6	8830	-56.98	Pk	35.9	-39.1	11.8	.5	-47.88	-40	-7.88	0-360	101	V

Pk - Peak detector

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

9.2.1 LTE BAND 30

LTE BAND 30 (QPSK 10.0MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-09
Test Engineer:	85501
Configuration:	EUT Only
Mode	1Tx, LTE30, QPSK
Chamber #:	Chamber 2

Frequency (MHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
4169	-51.12	Pk	33.5	-46.3	11.8	.4	-51.72	-40	-11.72	V
5322	-53.94	Pk	34.3	-43.6	11.8	.4	-51.04	-40	-11.04	H
6105	-55.33	Pk	35.6	-41.8	11.8	.5	-49.23	-40	-9.23	H
6318	-55.62	Pk	35.7	-41.5	11.8	.3	-49.32	-40	-9.32	V
8108	-56.01	Pk	36	-41.2	11.8	.6	-48.81	-40	-8.81	H
8830	-56.98	Pk	35.9	-39.1	11.8	.5	-47.88	-40	-7.88	V

LTE BAND 30 (QPSK 10.0MHZ BANDWIDTH, Config 2)

Project #:	16238088
Date:	2026-03-09
Test Engineer:	85501
Configuration:	EUT Only
Mode	1Tx, LTE30, QPSK
Chamber #:	Chamber 2

Frequency (MHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
3431	-52.69	Pk	32.9	-45.4	11.8	.7	-52.69	-40	-12.69	H
3434	-53.4	Pk	32.9	-45.3	11.8	.8	-53.2	-40	-13.2	V
8080	-54.73	Pk	35.9	-42.2	11.8	.4	-48.83	-40	-8.83	V
8116	-56.34	Pk	36	-41.1	11.8	.6	-49.04	-40	-9.04	H
11283.549	-55.86	Pk	37.6	-38.4	11.8	1.1	-43.76	-40	-3.76	H
11294.127	-57.17	Pk	37.6	-38.5	11.8	1	-45.27	-40	-5.27	V

9.2.2 5G NR n30

5G NR n30 (BPSK 10.0MHZ BANDWIDTH, ANT 1)

Project #:	16238088
Date:	2026-03-19
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode	1Tx, n30, BPSK
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
3.915	-65.04	Pk	33.4	-31.7	11.8	0	-51.54	-40	-11.54	V
3.976	-64.66	Pk	33.4	-31.4	11.8	0	-50.86	-40	-10.86	H
7.902	-67.53	Pk	35.7	-26.6	11.8	0	-46.63	-40	-6.63	V
8.633	-68.47	Pk	35.8	-25.4	11.8	0	-46.27	-40	-6.27	H
9.88908	-69.09	Pk	37	-24.2	11.8	0	-44.49	-40	-4.49	V
9.90976	-68.92	Pk	37	-25.1	11.8	0	-45.22	-40	-5.22	H

5G NR n30 (BPSK 10.0MHZ BANDWIDTH, ANT 2)

Project #:	16238088
Date:	2026-03-19
Test Engineer:	84740/11993
Configuration:	EUT Only
Mode	1Tx, n30, BPSK
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	LIMIT(dB/m)	Margin (dB)	Polarity
Mid Channel, 2310MHz										
3.695	-63.81	Pk	33.2	-32.4	11.8	0	-51.21	-40	-11.21	H
3.98	-64.67	Pk	33.4	-31.4	11.8	0	-50.87	-40	-10.87	V
8.017	-68.13	Pk	35.7	-26.7	11.8	0	-47.33	-40	-7.33	V
8.15	-68.44	Pk	35.6	-26.1	11.8	0	-47.14	-40	-7.14	H
9.87394	-68.65	Pk	36.9	-24.3	11.8	0	-44.25	-40	-4.25	H
9.9511	-69.24	Pk	37	-24.5	11.8	0	-44.94	-40	-4.94	V

10. SETUP PHOTOS

Refer to R16238088-EP1 for setup photos.

END OF REPORT