TEST REPORT

Report Number: R16314687-E4A

Applicant	:	Samsung Electronics Co Ltd 129, SAMSUNG-RO, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO, 16677, REP. OF KOREA
Model(s)	:	SM-S741U, SM-S741U1
FCC ID	:	A3LSMS741U
EUT Description	:	GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, WPT and NFC
Test Standard(s)	:	FCC 47 CFR PART 2, PART 27, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-130 ISSUE 2

Date Of Issue:
2026-07-09

Prepared by:

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CERT #0751.06

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2026-07-09	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 Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, WPT and NFC

SERIAL NUMBERS: ZDH0462M, ZDH0492M, ZDR0384M, ZDR0394M

SAMPLE RECEIVE DATE: 2026-04-27 and 2026-05-06

DATE TESTED: 2026-05-19 – 2026-06-17

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR PART 2, PART 22H, PART 24E, PART 27, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS132 ISSUE 4, RSS-133 ISSUE 7, RSS-139 ISSUE 4	Complies

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:

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UL LLC

Prepared By:

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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	Band	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
Effective Radiated Power	12	27.50 (c) (10)	RSS130§4.6.3	Complies	None.
	71	27.50 (c) (10)	RSS130§4.6.2	Complies	None.
Occupied Bandwidth	12, 71	2.1049	RSS-GEN§6.7 RSS130§4.5	Complies	None.
Band Edge and Emission Mask	12, 71	2.1051, 27.53 (g), 27.53 (c) (f)	RSS130§4.7	Complies	None.
Out of Band Emissions	12, 71	2.1051, 27.53 (g), 27.53 (c) (f)	RSS130§4.7	Complies	None.
Frequency Stability	12, 71	2.1055, 27.54	RSS130§4.5	Complies	None.
Peak-to-Average Ratio	12, 71	-	RSS130§4.6.1	Complies	None.
Field Strength of Spurious Radiation	12, 71	2.1053, 27.53 (g), 27.53 (c) (f)	RSS130§4.7	Complies	None.

SUPPLEMENTAL COVERAGE FROM SPACE (SCS)

Under section § 25.109 (f) of the FCC rules Space and SCS earth stations providing SCS are subject to technical rules in parts 2, 22, 24, and 27 of this chapter based on the operating frequency band. Section § 25.204 (g) specifies that earth stations providing SCS pursuant to §§ 25.125 and 25.115 shall comply with the power requirements and out-of-band emission limits corresponding to devices operating in parts 22, 24, or 27 of this chapter (e.g., §§ 22.913, 24.232, 27.50), as required for their operating frequencies. We have clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.

The table below identifies the SCS frequencies available for use and, for each band, the applicable FCC Part 22, 24, 27, and 90R technical requirements, the air interfaces supported by the device for SCS use.

The bands available for SCS and the bands supported by the devices in the scope of this report are:

	Frequency		Part 22/24/27/90 Rule parts	3GPP Band	Supported	Applicable to This Report
Band	DL (MHz)	UL (MHz)				
600 MHz	614 – 652	663 – 698	27.5 (c) 27.50 (c) 27.53 (g)	71/n71	Yes	Yes
700 MHz	729 – 746	699 –716	27.5 (c) 27.50 (c) 27.53 (g)	12/n12	Yes	Yes
	758 – 769	788 – 799	90R Note 1	14 / n14	Yes	No
	805 – 806				No	No
800 MHz	869 – 894	824 – 849	22H	WCDMA 5 5/n5 26/n26	Yes	No
Broadband PCS	1930 – 1995	1850 – 1915	24E	WCDMA 2 2/n2 25/n25	Yes	No
Note 1: Clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.						

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
- FCC 47 CFR Part 2, Part 27, Part 25
- 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
- FCC KDB 273109 D02: Part 25 SCS and CMRS-Bands
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-130 Issue 2

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number 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

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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

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6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

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

Model differences:

Representative Model	Difference	Derivative Model
		SM-S741U1
SM-S741U	Hardware	Same as SM-S741U
	Software	Different UI

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

Mode and Bands	Config 0	Config 1
5G NR n12	ANT A	ANT E
5G NR n71		

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

$ERP/EIRP = P_{Meas} + G_T - L_C$
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

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.

The EUT has different power levels for head use configuration and body use configuration. The tables below contain the highest of all configurations average conducted and peak EIRP/ERP output powers as follows:

5G NR n12

Part 27 / RSS 130								
ERP Limit (W)		3.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	701.5	713.5	17.65	0.058	4.534	4534.1	4M53G7W
10.0	16QAM	704.0	711.0	16.62	0.046	8.954	8953.9	8M95D7W
15.0	BPSK	706.5	708.5	17.57	0.057	13.464	13464	13M5G7W
	16QAM			16.65	0.046	13.463	13463	13M5D7W

5G NR n71

Part 27/ RSS 130								
ERP Limit (W)		3.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	16QAM	665.5	695.5	15.55	0.036	4.532	4531.9	4M53D7W
20.0	BPSK	673.0	688.0	16.55	0.045	17.944	17944	17M9G7W
	16QAM			15.53	0.036	17.917	17917	17M9D7W

6.3. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- 5G NR n12
- 5G NR n71

The worst-case scenario for all measurements is based upon an engineering evaluation made on conducted average power taken during pre-testing. 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.

BPSK modulation applied only for 5G NR frequencies and has the same tune up power as QPSK modulations.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

LTE & 5G NR Bands	Worst-Case Antenna Port	Worst-Case Modulation
5G NR n12 699 – 716 MHz	ANT A	5G NR (BPSK)
5G NR n71 663 – 698 MHz	ANT A	

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 & 5G NR Bands	Config 0 Orientation	Config 1 Orientation
Low Band (F_c <1GHz)	X	X
Mid Band (1GHz < F_c < 3GHz)	-	-
High Band (F_c > 3GHz)	-	-

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.

6.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Power Adapter	Sony	XQZ-UC11-010-236-21	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 R16314687-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				
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2026-03-02	2028-03-02
	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	2026-06-30
207639	Gain-loss string: 25-1000MHz	Various	Various	2025-06-13	2026-06-30
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-30
225795	Gain-loss string: 18-40GHz	Various	Various	2025-06-13	2026-06-30
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2026-05-13	2027-05-13
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
21725	Wideband Radio Communications Tester	Rohde and Schwarz	CMX500	2025-11-25	2026-11-25
198917	1GHz high-pass filter, 2W, Fhigh =18GHz	Micro-Tronics	HPM18129-02	2026-04-01	2027-04-01

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Conducted Room 3				
90411	Spectrum Analyzer **MY54490314**	Keysight Technologies	N9030A	2026-03-03	2027-03-03
208721	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	2025-09-10	2026-09-10
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
245766	Environmental Meter	Fisher Scientific	06-662-4	2026-03-10	2027-03-10

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Attenuators				
226554	SMA Coaxial 20dB Attenuator 25MHz-18GHz	CentricRF	C18S2-20	2026-05-05	2027-05-05
Pad G	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C27S-10	2026-05-05	2027-05-05
Pad III	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C27S-10	2025-08-18	2026-08-18
	Cables				
246257	SMA Cable	Huber + Suhner	104PEA	2025-09-05	2026-09-05
CBL093	Micro-Coax UTiFLEX Cable Assembly, Low Loss,40Ghz	Carlisle Interconnect Technologies	UFA147A-2-0360-200200	2025-9-5	2026-9-5
	Couplers				
238018	Ultra-Wideband Directional Coupler 0.5-18GHz	Mini-Circuits	ZUDC10-183+	2026-05-05	2027-05-05

NOTES:

1. * Testing is completed before equipment expiration date.
2. **Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

8. CONDUCTED TEST RESULTS

8.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS130§4.5

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 tested.

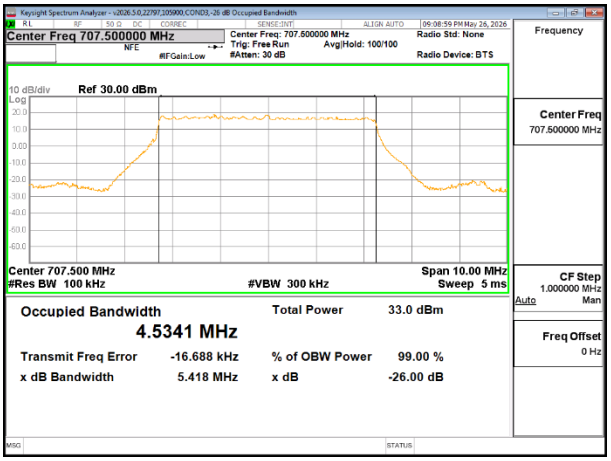
5G NR n12

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n12	5MHz, BPSK	25/0	707.5	4.5341	5.418
	5MHz, 16QAM			4.5276	5.305
	10MHz, BPSK	50/0		9.0250	10.08
	10MHz, 16QAM			8.9539	9.888
	15MHz, BPSK	75/0		13.464	14.60
	15MHz, 16QAM			13.463	14.74
	15MHz, BPSK	1/1		0.23513	0.3781

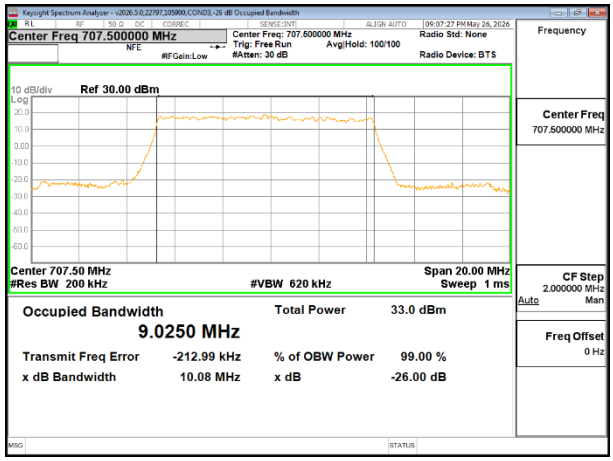
5G NR n71

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n71	5MHz, BPSK	25/0	680.5	4.5413	5.326
	5MHz, 16QAM			4.5319	5.298
	10MHz, BPSK	50/0	683.0	9.0393	10.04
	10MHz, 16QAM			8.9592	9.873
	15MHz, BPSK	75/0	680.5	13.476	14.61
	15MHz, 16QAM			13.494	14.78
	20MHz, BPSK	100/0	683.0	17.944	19.29
	20MHz, 16QAM			17.917	19.33

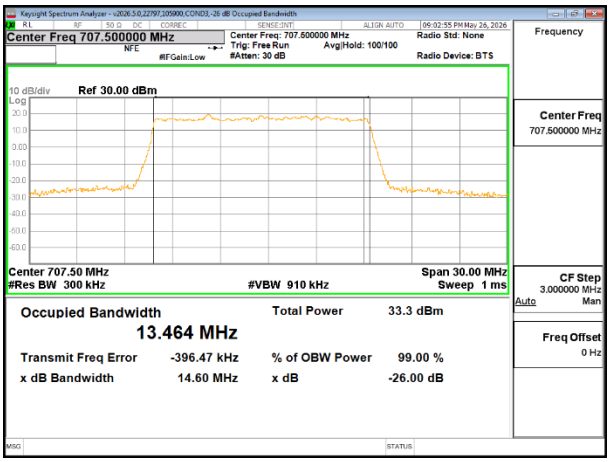
8.1.2. 5G NR n12



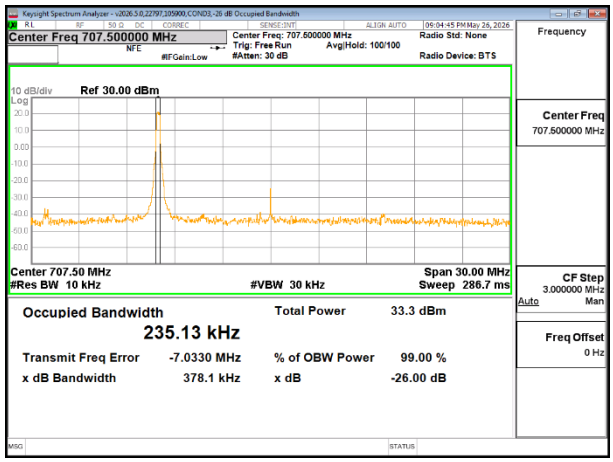
5G NR n12 5MHz BPSK Middle Channel RB25-0



5G NR n12 10MHz BPSK Middle Channel RB50-0

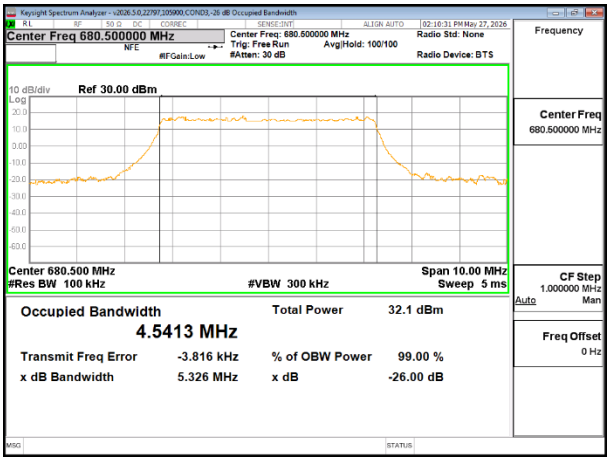


5G NR n12 15MHz BPSK Middle Channel RB75-0

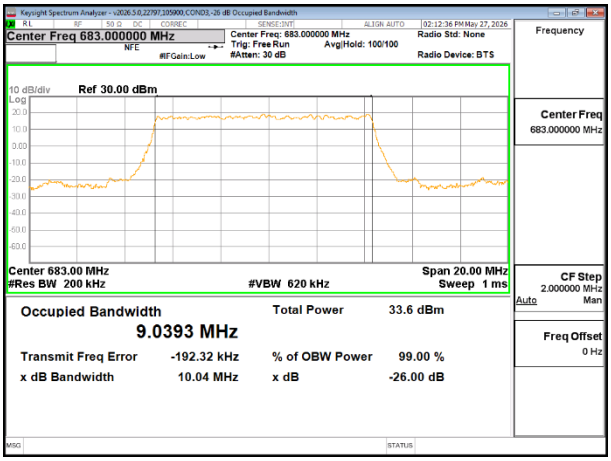


5G NR n12 15MHz BPSK Middle Channel RB1-1

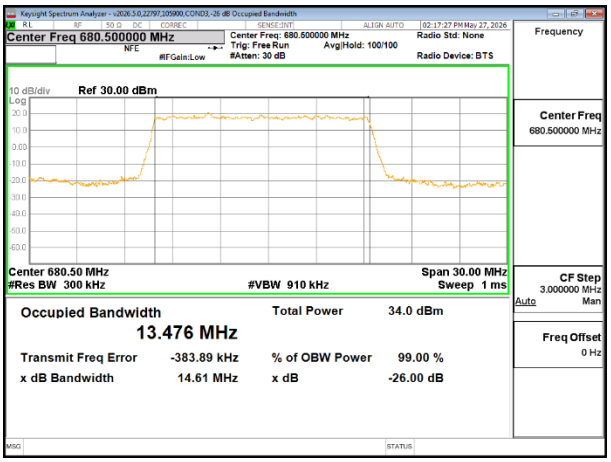
8.1.3. 5G NR n71



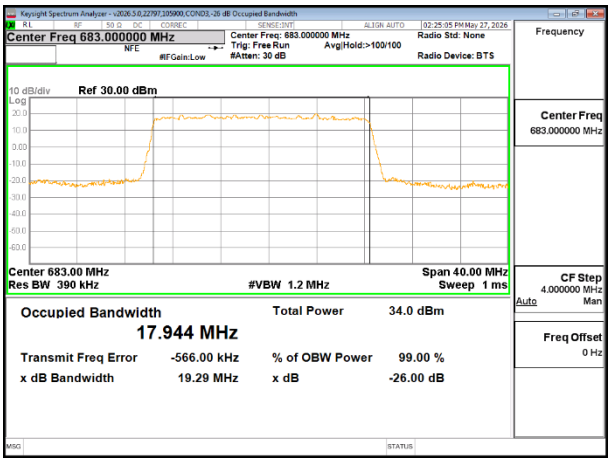
5G NR n71 5MHz BPSK Middle Channel RB25-0



5G NR n71 10MHz BPSK Middle Channel RB50-0



5G NR n71 15MHz BPSK Middle Channel RB75-0



5G NR n71 20MHz BPSK Middle Channel RB100-0

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8.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS (BAND 12, 71)

FCC: §27.53
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

ISED: RSS130§4.7
4.7.1 General unwanted emissions limits
The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 $\log_{10}$ p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

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.

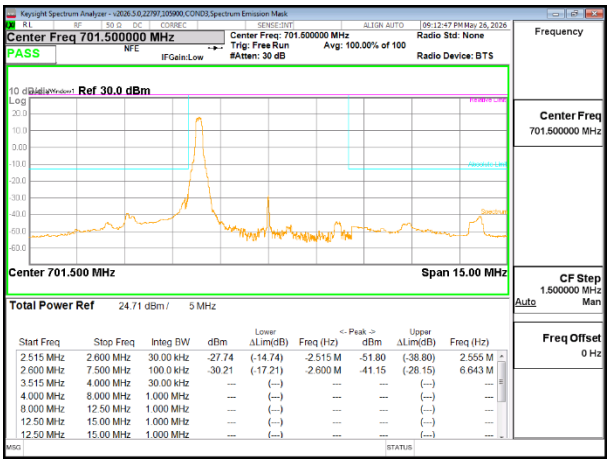
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

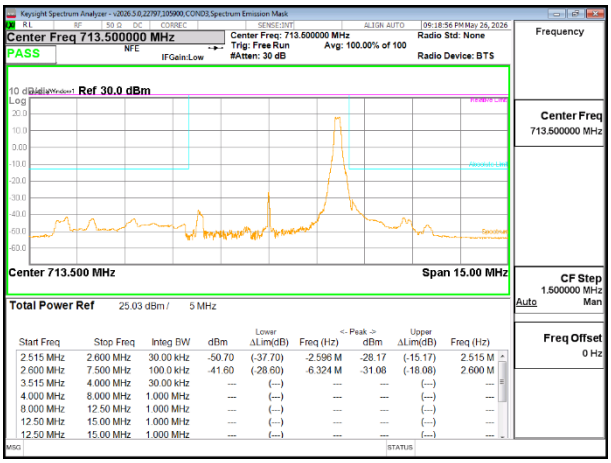
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at each different band’s requirement limits
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

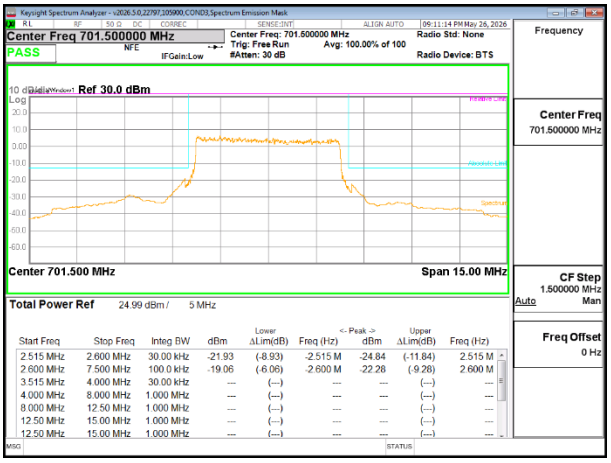
8.2.1. 5G NR n12



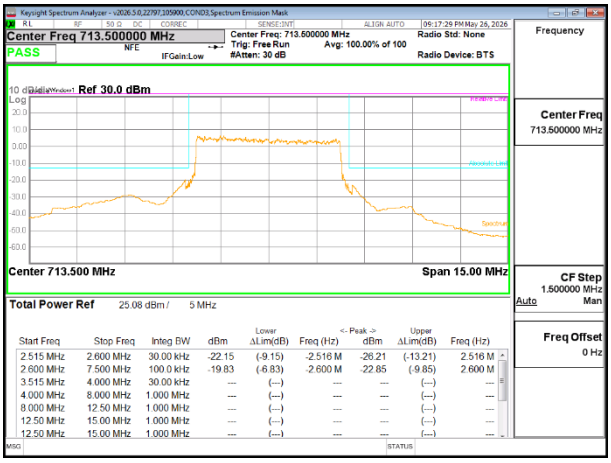
5G NR n12 5MHz BPSK Low Channel RB1-0



5G NR n12 5MHz BPSK High Channel RB1-24



5G NR n12 5MHz BPSK Low Channel RB25-0



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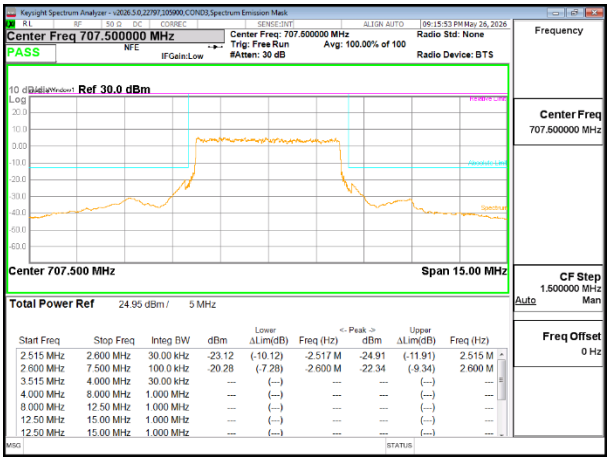

5G NR n12 5MHz BPSK Mid Channel RB25-0

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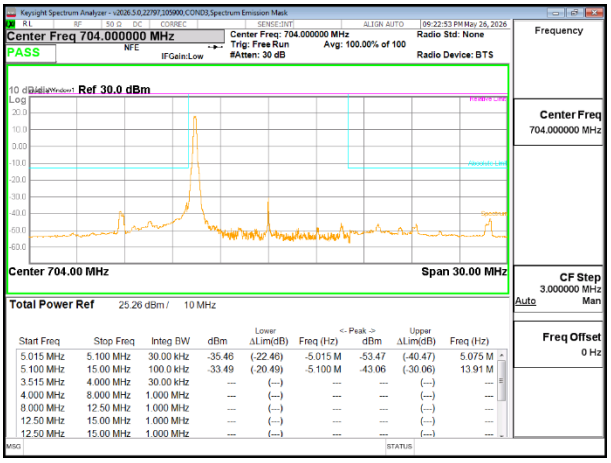
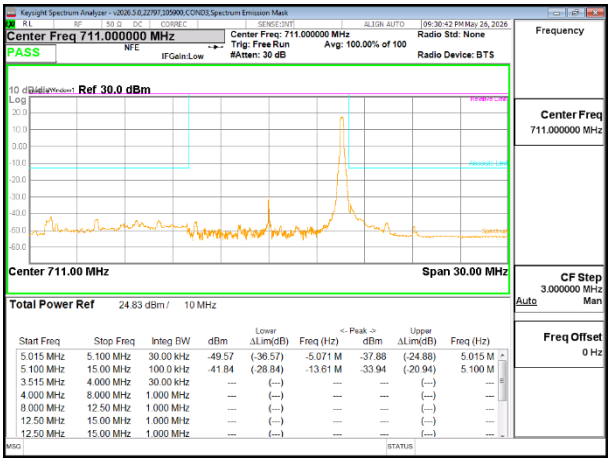


5G NR n12 10MHz BPSK Low Channel RB1-0



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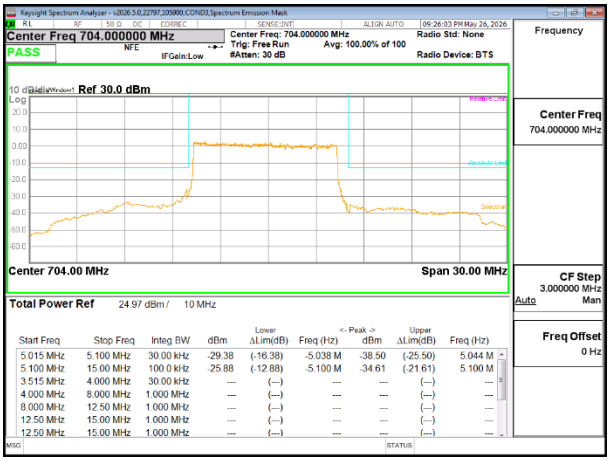
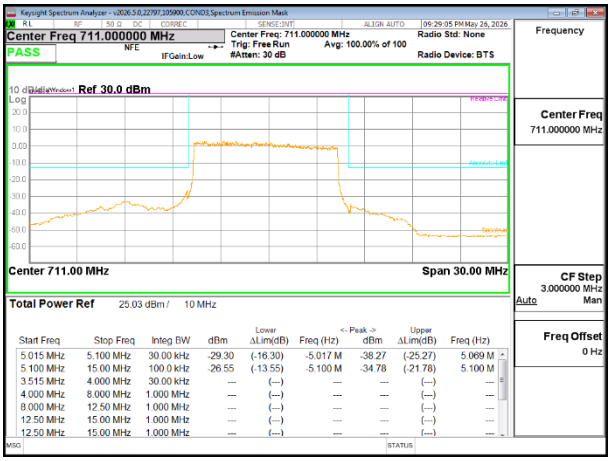


5G NR n12 10MHz BPSK Low Channel RB50-0



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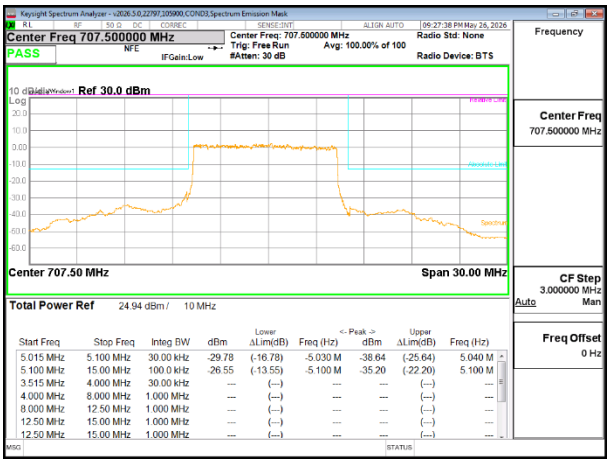

5G NR n12 10MHz BPSK Mid Channel RB50-0

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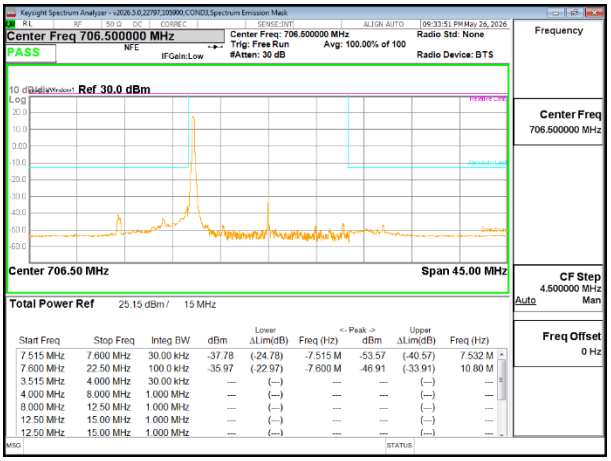
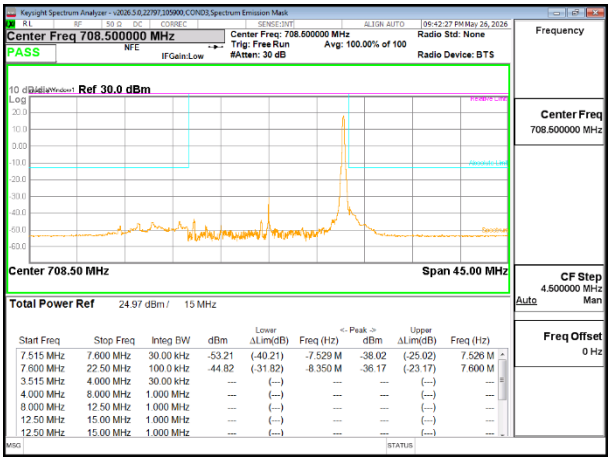
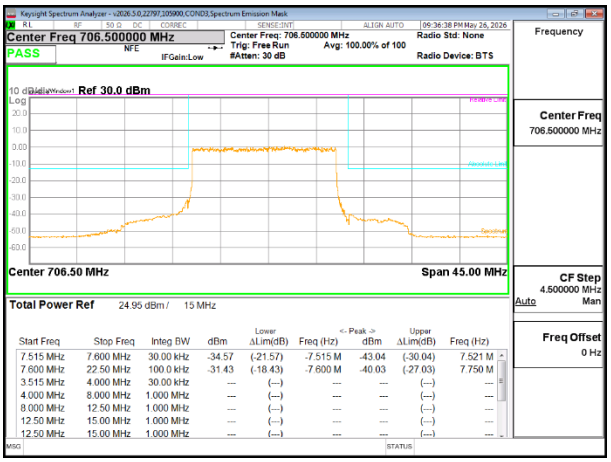


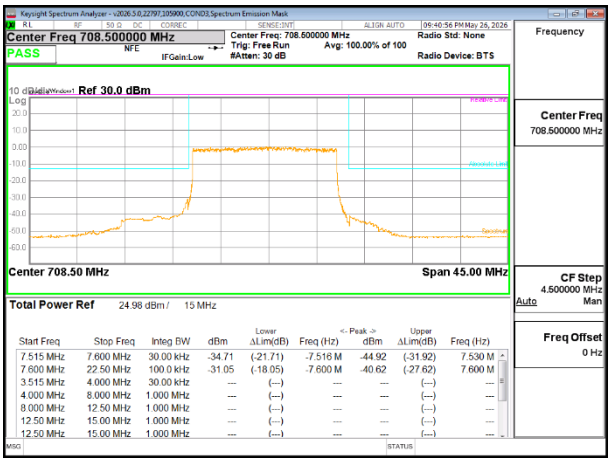
5G NR n12 15MHz BPSK Low Channel RB1-0



5G NR n12 15MHz BPSK High Channel RB1-78



5G NR n12 15MHz BPSK Low Channel RB75-0



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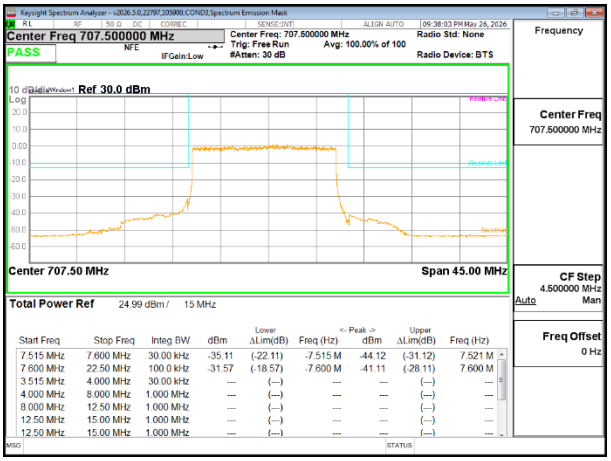

5G NR n12 15MHz BPSK Mid Channel RB75-0

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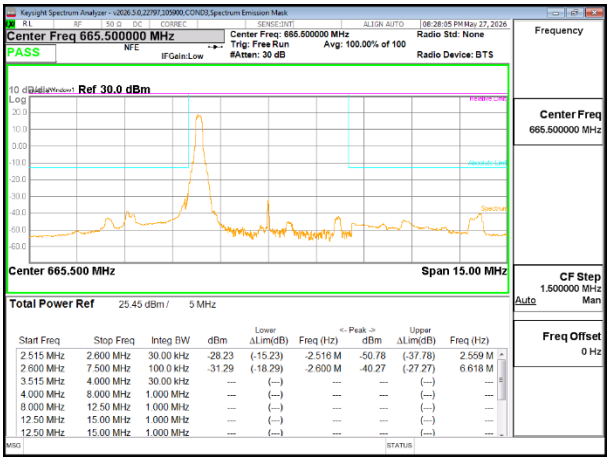
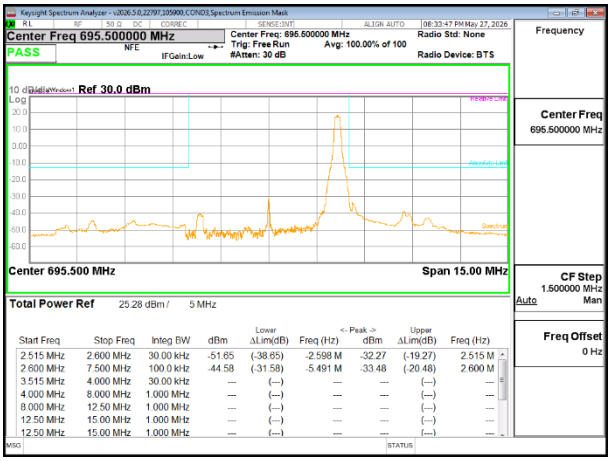
8.2.2. 5G NR n71



5G NR n71 5MHz BPSK Low Channel RB1-0



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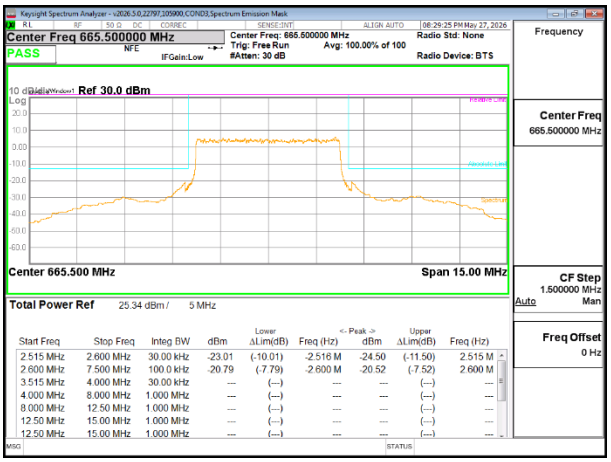
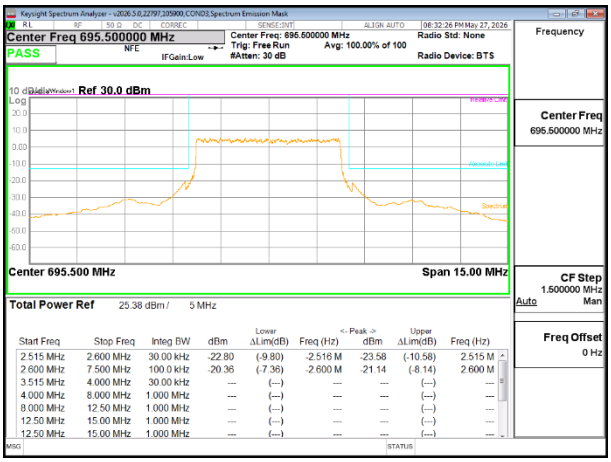
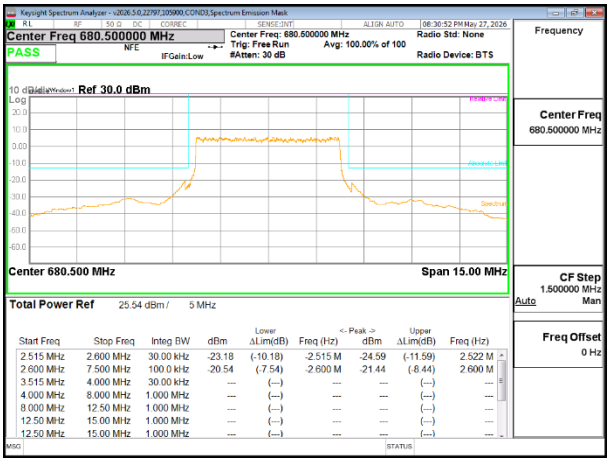


5G NR n71 5MHz BPSK Low Channel RB25-0



5G NR n71 5MHz BPSK High Channel RB25-0



5G NR n71 5MHz BPSK Mid Channel RB25-0

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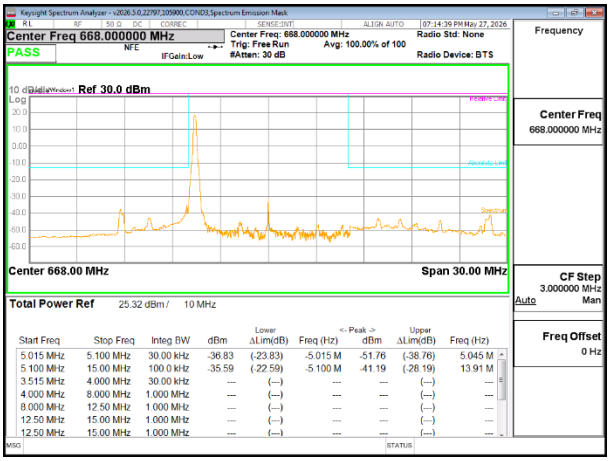
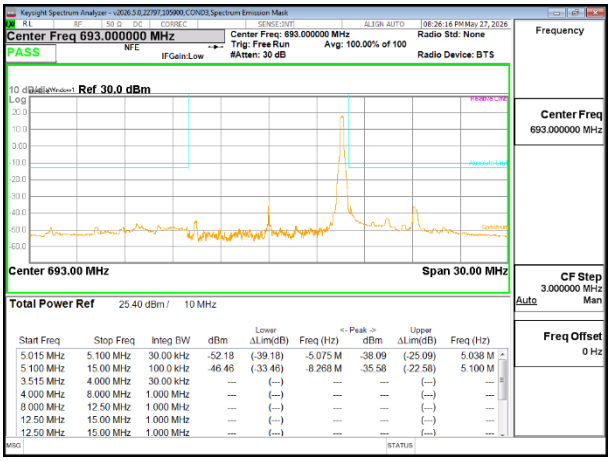
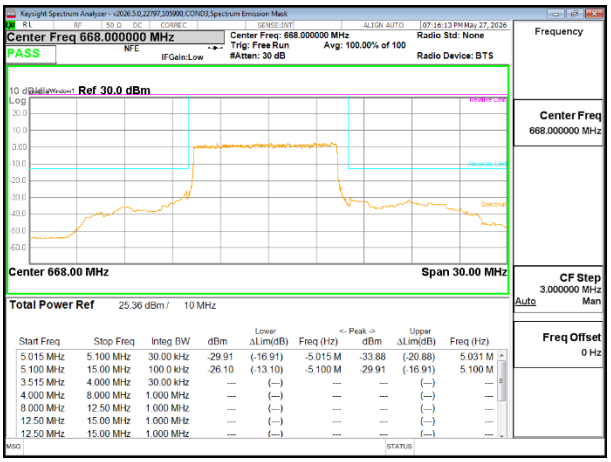


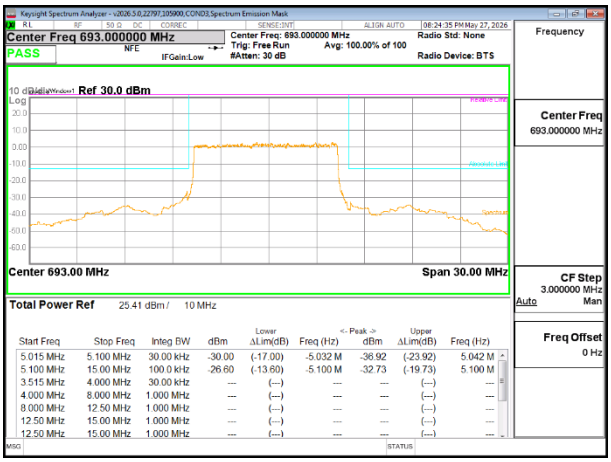
5G NR n71 10MHz BPSK Low Channel RB1-0



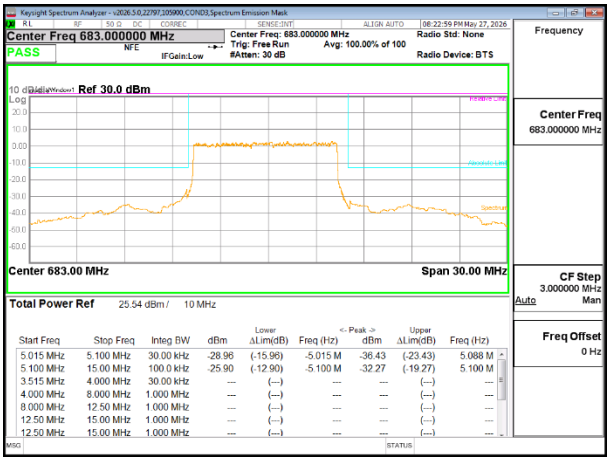
5G NR n71 10MHz BPSK High Channel RB1-51



5G NR n71 10MHz BPSK Low Channel RB50-0



5G NR n71 10MHz BPSK High Channel RB50-0



5G NR n71 10MHz BPSK Mid Channel RB50-0

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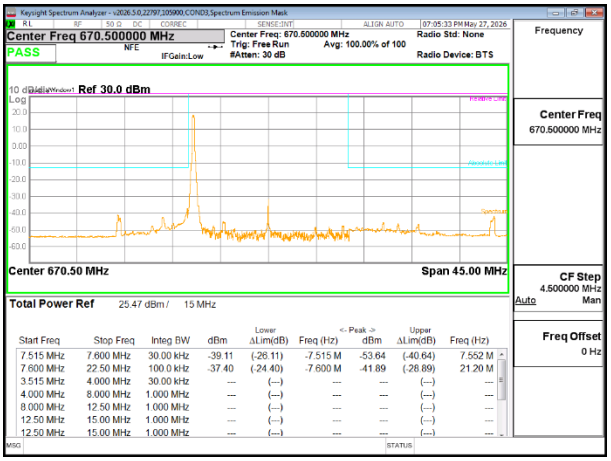
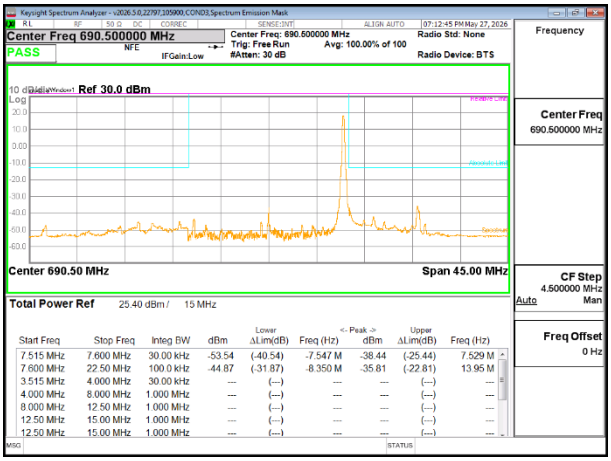
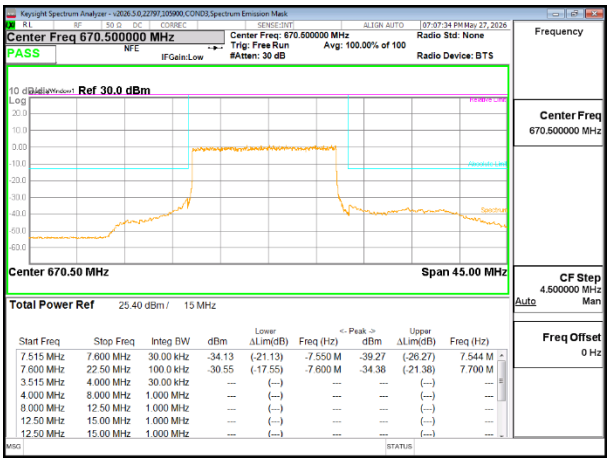


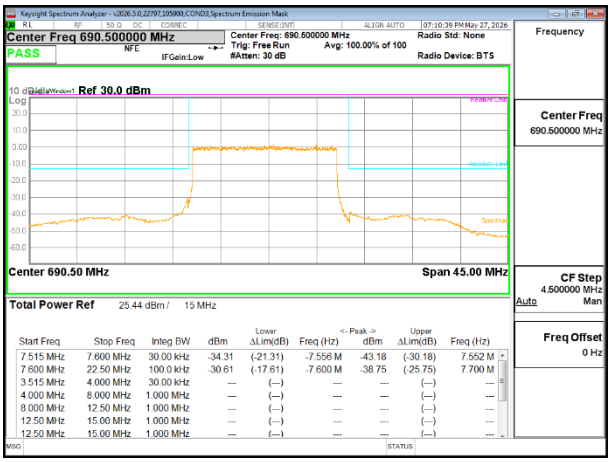
5G NR n71 15MHz BPSK Low Channel RB1-0



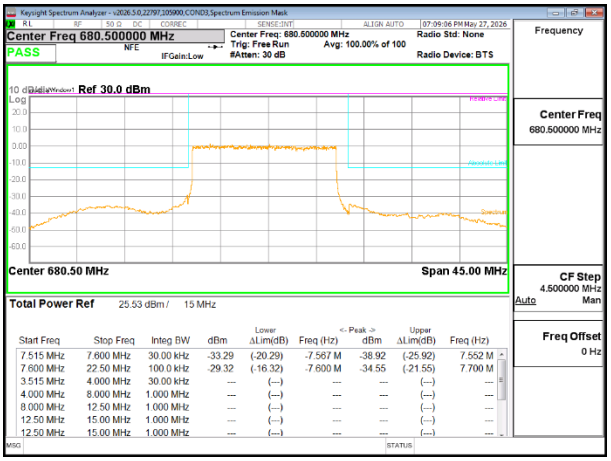
5G NR n71 15MHz BPSK High Channel RB1-78



5G NR n71 15MHz BPSK Low Channel RB75-0



5G NR n71 15MHz BPSK High Channel RB75-0



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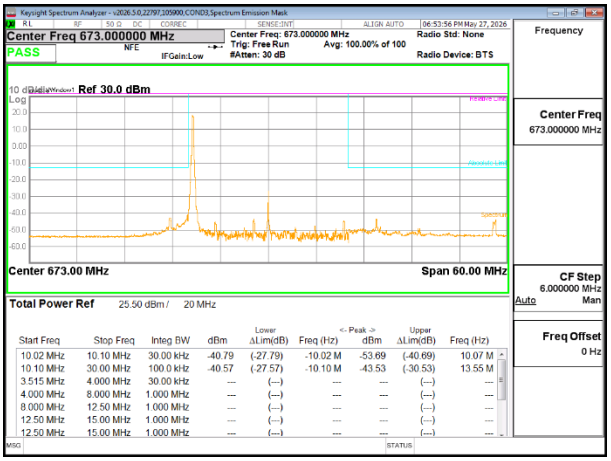
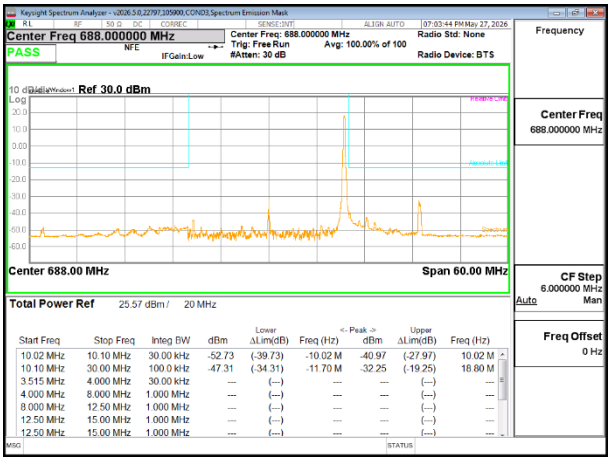
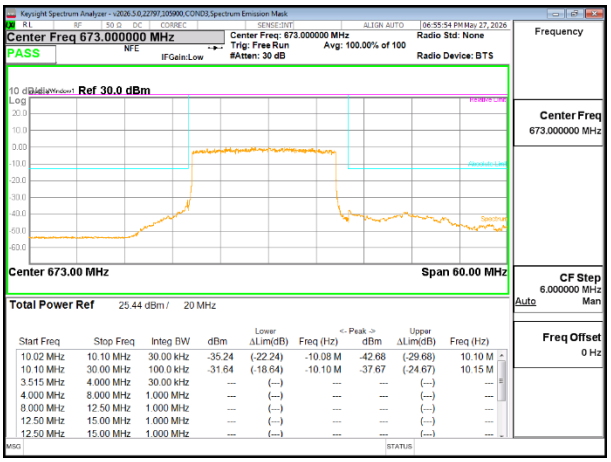


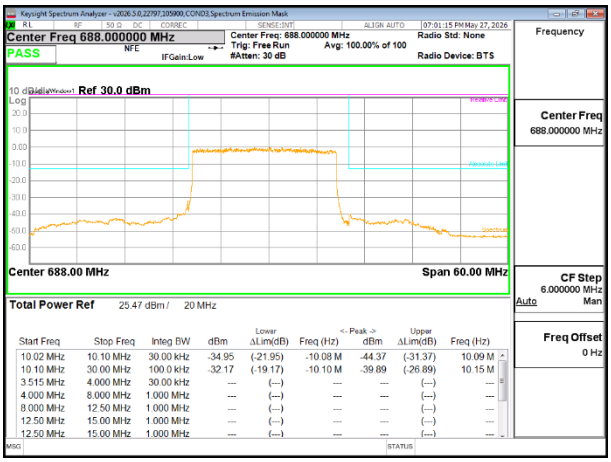
5G NR n71 20MHz BPSK Low Channel RB1-0



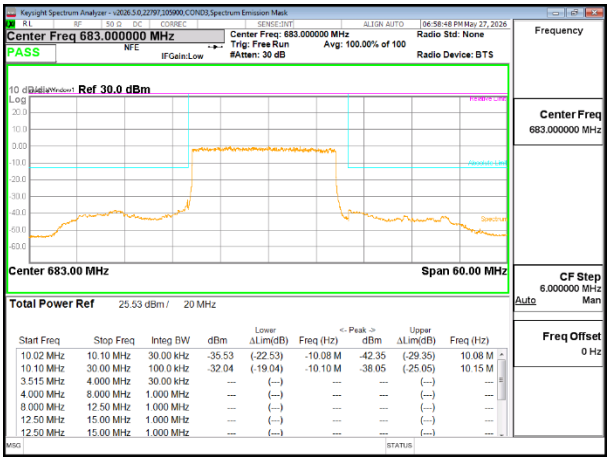
5G NR n71 20MHz BPSK High Channel RB1-105



5G NR n71 20MHz BPSK Low Channel RB100-0



5G NR n71 20MHz BPSK High Channel RB100-0



5G NR n71 20MHz BPSK Mid Channel RB100-0

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8.3. OUT OF BAND EMISSIONS

LIMITS (BAND 12, 71)

FCC: §27.53 (g)
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.
ISED: RSS130§4.7

The minimum permissible attenuation level of any spurious emissions is 43 + 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.

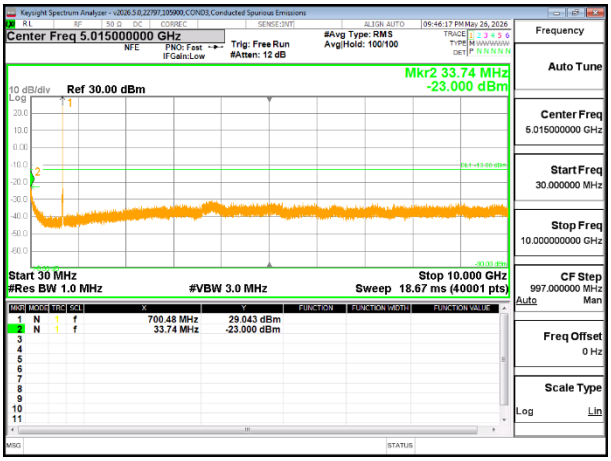
For each out of band emissions measurement:

- Set display line at -13 dBm, -25dBm and -40dBm according to the band 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)

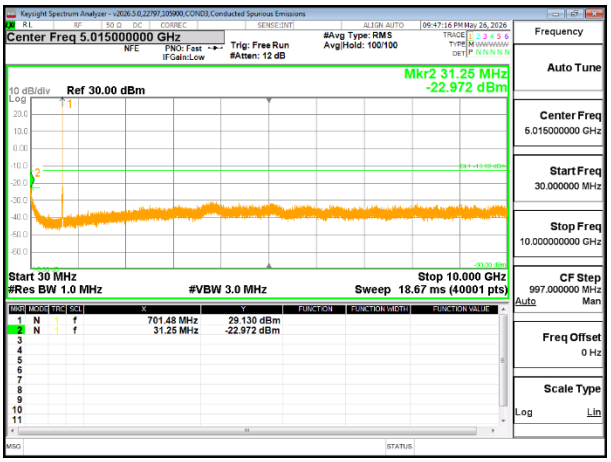
RESULTS

8.3.1. 5G NR n12

5G NR n12 15MHz BPSK Low Channel RB1-0



5G NR n12 15MHz BPSK Middle Channel RB1-1



5G NR n12 15MHz BPSK High Channel RB1-78

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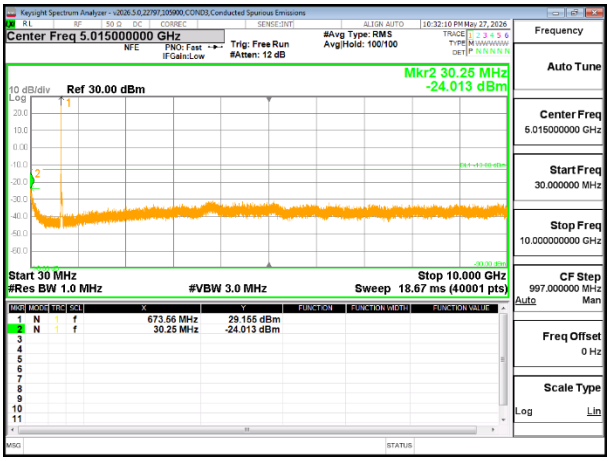
8.3.2. 5G NR n71



5G NR n71 20MHz BPSK Middle Channel RB1-1

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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: RSS130§4.5
For equipment that is capable of transmitting numerous channels simultaneously for different applications (e.g. LTE and narrowband – Internet of Things (IoT)), the occupied bandwidth shall be the bandwidth representing the sum of the occupied bandwidths of these channels.

The frequency stability shall be sufficient to ensure that the occupied bandwidth remains within each frequency block range when tested at the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

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

Low voltage, 3.7VDC, Normal, 3.89VDC and High voltage, 4.45VDC.
End Voltage, 3.7VDC..

Frequency Stability vs Temperature:
The EUT is place inside a temperature chamber. The temperature is set to 20ºC 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 +50ºC is reached.

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

RESULTS

See the following pages.

8.4.1. 5G NR n12 (BPSK 15MHz BANDWIDTH)

Test Engineer ID:	105900	Test Date:	2026-06-09

Band	12	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		699	716			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	700.2450	714.0250			
Extreme (50°C)		700.2450	714.0250	0.0012	0.000	Yes
Extreme (40°C)		700.2450	714.0250	-0.0016	0.000	Yes
Extreme (30°C)		700.2450	714.0250	0.0009	0.000	Yes
Extreme (10°C)		700.2450	714.0250	0.0017	0.000	Yes
Extreme (0°C)		700.2450	714.0250	0.003	0.000	Yes
Extreme (-10°C)		700.2450	714.0250	0.0007	0.000	Yes
Extreme (-20°C)		700.2450	714.0250	0.0019	0.000	Yes
Extreme (-30°C)		700.2450	714.0250	-0.0003	0.000	Yes
20°C	End Point Voltage	700.2450	714.0250	-0.0005	0.000	Yes

8.4.2. 5G NR n71 (BPSK 20MHz BANDWIDTH)

Test Engineer ID:	105900	Test Date:	2026-06-09

Band	71	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		663	698			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	663.2300	696.3300			
Extreme (50°C)		663.2300	696.3300	-0.0014	0.000	Yes
Extreme (40°C)		663.2300	696.3300	-0.0013	0.000	Yes
Extreme (30°C)		663.2300	696.3300	-0.0021	0.000	Yes
Extreme (10°C)		663.2300	696.3300	-0.0009	0.000	Yes
Extreme (0°C)		663.2300	696.3300	-0.0003	0.000	Yes
Extreme (-10°C)		663.2300	696.3300	0.0026	0.000	Yes
Extreme (-20°C)		663.2300	696.3300	0.0012	0.000	Yes
Extreme (-30°C)		663.2300	696.3300	0.0005	0.000	Yes
20°C	End Point Voltage	663.2300	696.3300	0.0018	0.000	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

ISED: RSS130§4.6.1

The transmitter output power shall be measured in terms of average power. 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

The results from all 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. 5G NR n12

Test Engineer ID:	105900	Test Date:	2026-06-09

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n12	5MHz	707.5	25	0	BPSK	29.119	23.94	5.18
					16QAM	29	22.42	6.58
	10MHz		50	0	BPSK	29.589	23.94	5.65
					16QAM	29.441	22.42	7.02
	15MHz		75	0	BPSK	29.363	23.94	5.42
					16QAM	29.376	22.46	6.92
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.2. 5G NR n71

Test Engineer ID:	105900	Test Date:	2026-06-09

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR Band n71	5MHz	680.5	25	0	BPSK	29.017	24.268	4.75
					16QAM	29.11	22.748	6.36
	10MHz	683.0	50	0	BPSK	29.35	24.239	5.11
					16QAM	29.20	22.723	6.47
	15MHz	680.5	75	0	BPSK	29.127	24.281	4.85
					16QAM	29.078	22.793	6.29
	20MHz	683.0	100	0	BPSK	29.29	24.249	5.04
					16QAM	29.23	22.738	6.49
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

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.

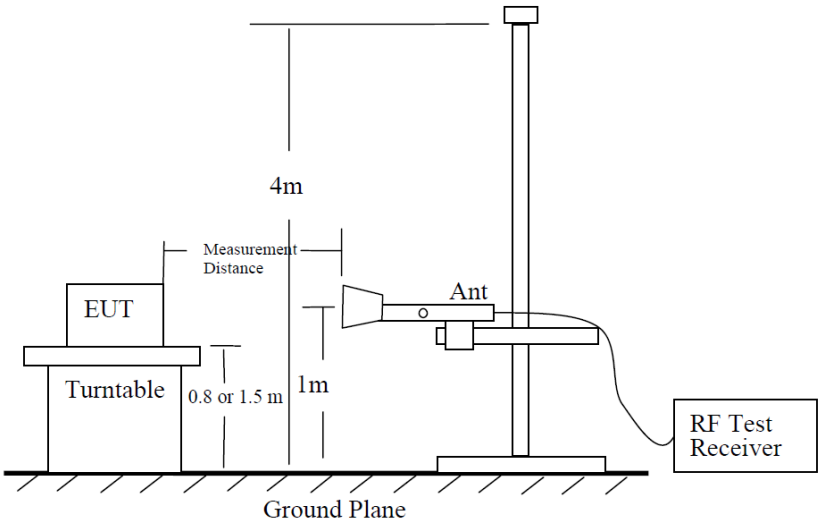


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

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

a) E (dBµV/m) = Measured amplitude level (dBµV) + Cable Loss (dB) + Antenna Factor (dB/m).
b) E (dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m).
c) E (dBµV/m) = EIRP (dBm) − 20log(D) + 104.8; where D is the measurement distance (in the far field region) in m.
d) EIRP (dBm) = E (dBµV/m) + 20log(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*Log(3)=9.5424

Then, EIRP (dBm) = E (dBµV/m) + 9.5424 − 104.8 = E (dBµV/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 (c) (b) (10)

RSS: 130§4.6.3, 130§4.6.2

LIMITS

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP.

27.50(b) - (10) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

RSS: 130§4.6.2 The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment.

RSS: 130§4.6.3 The e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

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 ≥ 3 x RBW;

d) Set number of points in sweep ≥ 2 × 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 (10Log(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 measurement function.

RESULTS

9.1.1. 5G NR n12

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
701.5	n12 / 5MHz (ANT A)	RB1-1	BPSK	0.056	17.47	34.77	-17.30
707.5		RB1-12	BPSK	0.058	**17.65**	34.77	-17.12
713.5		RB1-23	BPSK	0.057	17.59	34.77	-17.18
701.5		RB1-1	16QAM	0.045	16.57	34.77	-18.20
707.5		RB1-12	16QAM	0.047	**16.68**	34.77	-18.09
713.5		RB1-23	16QAM	0.045	16.53	34.77	-18.24
704.0	n12 / 10MHz (ANT A)	RB1-1	BPSK	0.055	17.43	34.77	-17.34
707.5		RB1-26	BPSK	0.057	17.53	34.77	-17.24
711.0		RB1-50	BPSK	0.058	17.61	34.77	-17.16
704.0		RB1-1	16QAM	0.042	16.27	34.77	-18.50
707.5		RB1-26	16QAM	0.045	16.54	34.77	-18.23
711.0		RB1-50	16QAM	0.046	16.62	34.77	-18.15
706.5	n12 / 15 MHz (ANT A)	RB1-1	BPSK	0.056	17.48	34.77	-17.29
707.5		RB1-39	BPSK	0.057	17.55	34.77	-17.22
708.5		RB1-77	BPSK	0.057	**17.57**	34.77	-17.20
706.5		RB1-1	16QAM	0.044	16.44	34.77	-18.33
707.5		RB1-39	16QAM	0.046	**16.65**	34.77	-18.12
708.5		RB1-77	16QAM	0.046	16.63	34.77	-18.14

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
701.5	n12 / 5MHz (ANT E)	RB1-1	BPSK	0.048	16.82	34.77	-17.95
707.5		RB1-12	BPSK	0.052	17.13	34.77	-17.64
713.5		RB1-23	BPSK	0.050	16.98	34.77	-17.79
701.5		RB1-1	16QAM	0.041	16.18	34.77	-18.59
707.5		RB1-12	16QAM	0.043	**16.34**	34.77	-18.43
713.5		RB1-23	16QAM	0.041	16.09	34.77	-18.68
704.0	n12 / 10MHz (ANT E)	RB1-1	BPSK	0.053	**17.22**	34.77	-17.55
707.5		RB1-26	BPSK	0.052	17.13	34.77	-17.64
711.0		RB1-50	BPSK	0.050	17.03	34.77	-17.74
704.0		RB1-1	16QAM	0.041	16.12	34.77	-18.65
707.5		RB1-26	16QAM	0.042	16.20	34.77	-18.57
711.0		RB1-50	16QAM	0.040	16.02	34.77	-18.75
706.5	n12 / 15 MHz (ANT E)	RB1-1	BPSK	0.046	16.65	34.77	-18.12
707.5		RB1-39	BPSK	0.050	16.99	34.77	-17.78
708.5		RB1-77	BPSK	0.050	**17.00**	34.77	-17.77
706.5		RB1-1	16QAM	0.036	15.55	34.77	-19.22
707.5		RB1-39	16QAM	0.041	**16.11**	34.77	-18.66
708.5		RB1-77	16QAM	0.040	16.05	34.77	-18.72

CONFIG 1

9.1.2. 5G NR n71

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
665.5	n71 / 5MHz (ANT A)	RB1-1	BPSK	0.041	16.14	34.77	-18.63
680.5		RB1-12	BPSK	0.043	16.32	34.77	-18.45
695.5		RB1-23	BPSK	0.040	16.07	34.77	-18.70
665.5		RB1-1	16QAM	0.034	15.29	34.77	-19.48
680.5		RB1-12	16QAM	0.035	15.38	34.77	-19.39
695.5		RB1-23	16QAM	0.033	15.18	34.77	-19.59
668.0	n71 / 10MHz (ANT A)	RB1-1	BPSK	0.041	16.10	34.77	-18.67
680.5		RB1-26	BPSK	0.043	16.33	34.77	-18.44
693.0		RB1-50	BPSK	0.040	16.03	34.77	-18.74
668		RB1-1	16QAM	0.033	15.20	34.77	-19.57
680.5		RB1-26	16QAM	0.035	15.39	34.77	-19.38
693		RB1-50	16QAM	0.033	15.15	34.77	-19.62
670.5	n71 / 15MHz (ANT A)	RB1-1	BPSK	0.041	16.18	34.77	-18.59
680.5		RB1-39	BPSK	0.044	16.40	34.77	-18.37
690.5		RB1-77	BPSK	0.040	16.01	34.77	-18.76
670.5		RB1-1	16QAM	0.034	15.26	34.77	-19.51
680.5		RB1-39	16QAM	0.035	15.42	34.77	-19.35
690.5		RB1-77	16QAM	0.033	15.18	34.77	-19.59
673.0	n71 / 20MHz (ANT A)	RB1-1	BPSK	0.041	16.08	34.77	-18.69
680.5		RB1-53	BPSK	0.044	**16.42**	34.77	-18.35
688.0		RB1-104	BPSK	0.040	16.07	34.77	-18.70
673		RB1-1	16QAM	0.033	15.17	34.77	-19.60
680.5		RB1-53	16QAM	0.035	**15.49**	34.77	-19.28
688		RB1-104	16QAM	0.032	15.07	34.77	-19.70

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
665.5	n71 / 5MHz (ANT E)	RB1-1	BPSK	0.045	16.52	34.77	-18.25
680.5		RB1-12	BPSK	0.044	16.47	34.77	-18.30
695.5		RB1-23	BPSK	0.041	16.17	34.77	-18.60
665.5		RB1-1	16QAM	0.036	**15.55**	34.77	-19.22
680.5		RB1-12	16QAM	0.035	15.43	34.77	-19.34
695.5		RB1-23	16QAM	0.033	15.21	34.77	-19.56
668.0	n71 / 10MHz (ANT E)	RB1-1	BPSK	0.044	16.48	34.77	-18.29
680.5		RB1-26	BPSK	0.043	16.34	34.77	-18.43
693.0		RB1-50	BPSK	0.041	16.09	34.77	-18.68
668		RB1-1	16QAM	0.036	15.53	34.77	-19.24
680.5		RB1-26	16QAM	0.035	15.44	34.77	-19.33
693		RB1-50	16QAM	0.033	15.12	34.77	-19.65
670.5	n71 / 15MHz (ANT E)	RB1-1	BPSK	0.044	16.48	34.77	-18.29
680.5		RB1-39	BPSK	0.044	16.44	34.77	-18.33
690.5		RB1-77	BPSK	0.041	16.16	34.77	-18.61
670.5		RB1-1	16QAM	0.035	15.50	34.77	-19.27
680.5		RB1-39	16QAM	0.035	15.39	34.77	-19.38
690.5		RB1-77	16QAM	0.033	15.25	34.77	-19.52
673.0	n71 / 20MHz (ANT E)	RB1-1	BPSK	0.045	**16.55**	34.77	-18.22
680.5		RB1-53	BPSK	0.043	16.35	34.77	-18.42
688.0		RB1-104	BPSK	0.041	16.18	34.77	-18.59
673		RB1-1	16QAM	0.036	**15.53**	34.77	-19.24
680.5		RB1-53	16QAM	0.034	15.35	34.77	-19.42
688		RB1-104	16QAM	0.032	15.06	34.77	-19.71

CONFIG 1

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS (BAND 12, 71)

FCC: §27.53 (g)
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

ISED: RSS130§4.7

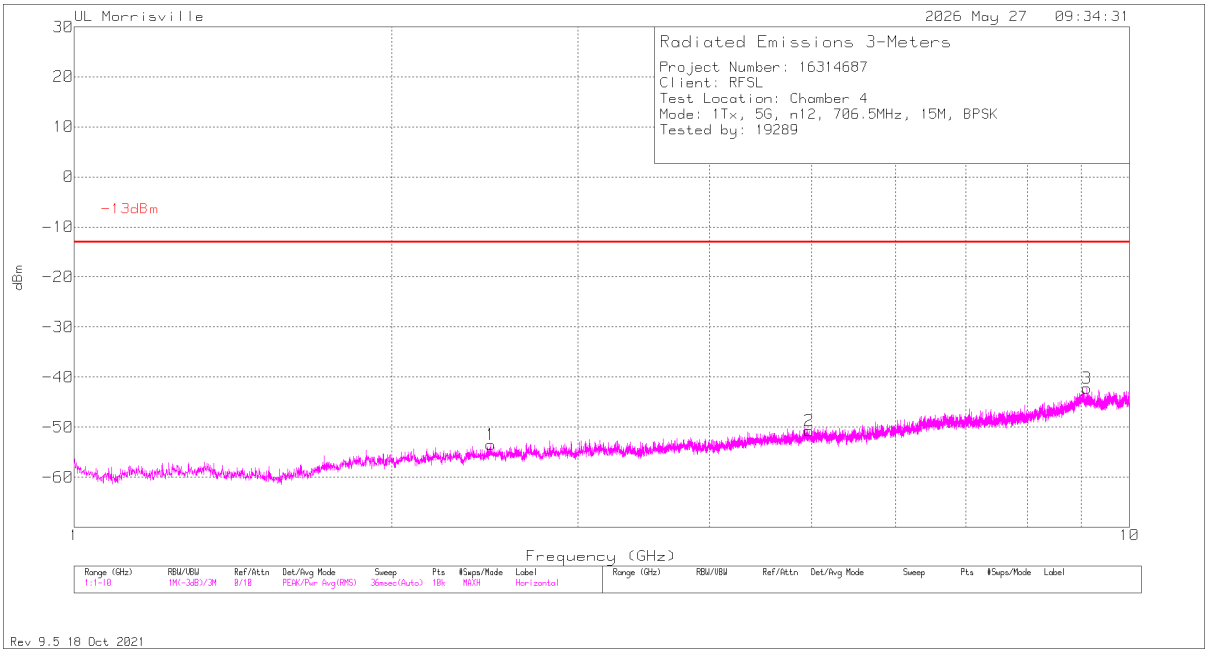
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

TEST PROCEDURE

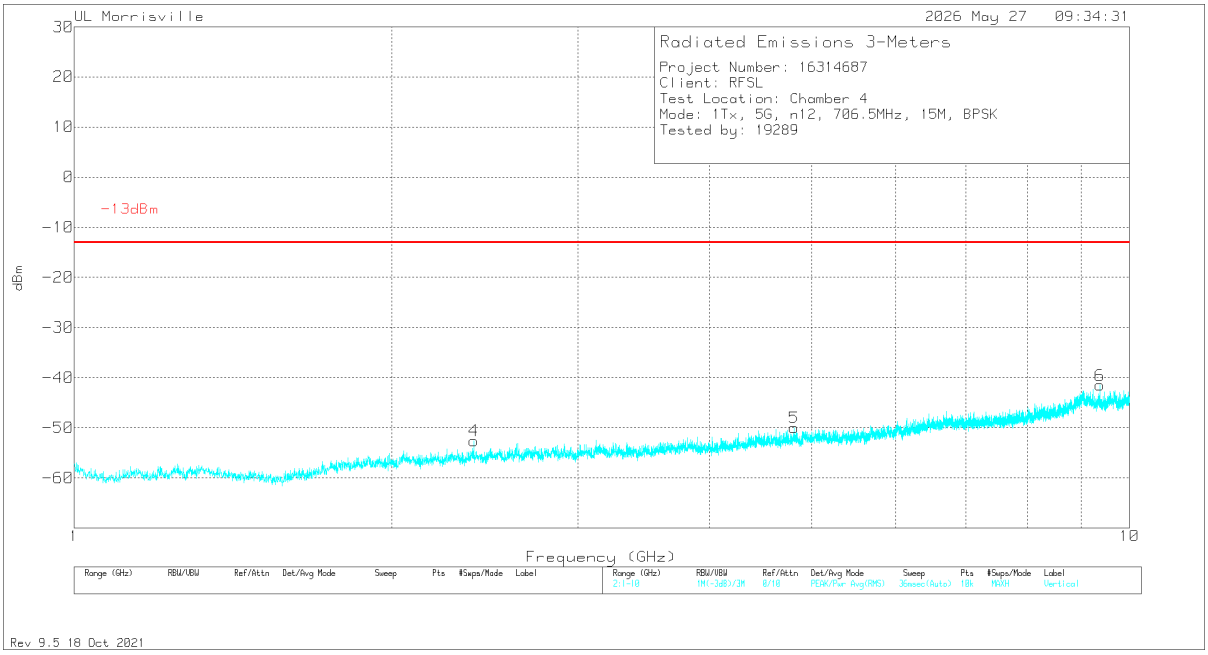
KDB 971168 D01 /D02

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

Example Plot



Horizontal Polarity



Vertical Polarity

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.3923	-61.26	Pk	31.9	-35.5	.5	11.8	-52.56	-13	-39.56	0-360	200	V
1	2.4814	-62.45	Pk	32.4	-35.6	.4	11.8	-53.45	-13	-40.45	0-360	100	H
5	4.8088	-64.93	Pk	33.8	-30.9	.2	11.8	-50.03	-13	-37.03	0-360	200	V
2	4.9699	-65.77	Pk	34	-31.2	.4	11.8	-50.77	-13	-37.77	0-360	100	H
3	9.1171	-65.67	Pk	36.3	-25	.4	11.8	-42.17	-13	-29.17	0-360	100	H
6	9.3799	-65.33	Pk	36.4	-24.9	.5	11.8	-41.53	-13	-28.53	0-360	200	V

Pk - Peak detector

RESULTS

9.2.2. 5G NR n12

5G NR n12 (BPSK 15.0MHZ BANDWIDTH, Config 0)

Date:	2026-05-27
Test Engineer:	19289
Configuration:	EUT Only
Mode	5G NR n12 BPSK 15MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 706.5MHz										
2.3923	-61.26	Pk	31.9	-35.5	.5	11.8	-52.56	-13	-39.56	V
2.4814	-62.45	Pk	32.4	-35.6	.4	11.8	-53.45	-13	-40.45	H
4.8088	-64.93	Pk	33.8	-30.9	.2	11.8	-50.03	-13	-36.03	V
4.9699	-65.77	Pk	34	-31.2	.4	11.8	-50.77	-13	-36.77	H
9.1171	-65.67	Pk	36.3	-25	.4	11.8	-42.17	-13	-29.17	H
9.3799	-65.33	Pk	36.4	-24.9	.5	11.8	-41.53	-13	-28.53	V
Mid Channel, 707.5MHz										
2.5336	-62.23	Pk	32.5	-35.6	.4	11.8	-53.13	-13	-40.13	H
2.6218	-62.73	Pk	32.4	-35.2	.3	11.8	-53.43	-13	-40.43	V
5.5954	-65.35	Pk	34.7	-30.3	.2	11.8	-48.95	-13	-35.95	V
5.8312	-66.3	Pk	34.9	-29.6	.3	11.8	-48.9	-13	-35.9	H
9.0289	-66.87	Pk	36.2	-24.6	.6	11.8	-42.87	-13	-29.87	H
9.0919	-66.76	Pk	36.3	-25.4	.4	11.8	-43.66	-13	-30.66	V
High Channel, 708.5MHz										
1.2799	-60.26	Pk	29	-35.5	.7	11.8	-54.26	-13	-41.26	V
2.8693	-62.83	Pk	32.7	-35	.4	11.8	-52.93	-13	-39.93	H
2.9116	-62.89	Pk	32.4	-35	.4	11.8	-53.29	-13	-40.29	V
6.5998	-66.48	Pk	35.5	-28.1	.4	11.8	-46.88	-13	-33.88	H
8.9596	-65.23	Pk	36.1	-25	.4	11.8	-41.93	-13	-28.93	H
9.0352	-66.28	Pk	36.2	-24.5	.6	11.8	-42.18	-13	-29.18	V

5G NR n12 (BPSK 15.0MHZ BANDWIDTH, Config 1)

Date:	2026-05-27
Test Engineer:	19289
Configuration:	EUT Only
Mode	5G NR n12 BPSK 15MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 706.5MHz										
2.431	-61.28	Pk	32	-35.7	.5	11.8	-52.68	-13	-39.68	H
2.8612	-62.01	Pk	32.7	-35.1	.4	11.8	-52.21	-13	-39.21	V
4.9402	-63.84	Pk	34	-31.2	.3	11.8	-48.94	-13	-35.94	V
5.0032	-65.16	Pk	34.1	-31.8	.4	11.8	-50.66	-13	-37.66	H
8.9875	-66.76	Pk	36.2	-24.8	.6	11.8	-42.96	-13	-29.96	V
9.0298	-66.97	Pk	36.2	-24.6	.6	11.8	-42.97	-13	-29.97	H
Mid Channel, 707.5MHz										
2.6929	-62.01	Pk	32.6	-35.1	.3	11.8	-52.41	-13	-39.41	H
2.6947	-62.65	Pk	32.6	-35.1	.3	11.8	-53.05	-13	-40.05	V
4.9726	-65.25	Pk	34	-31.2	.4	11.8	-50.25	-13	-37.25	V
4.9933	-64.49	Pk	34.1	-31.9	.4	11.8	-50.09	-13	-37.09	H
9.1909	-66.9	Pk	36.3	-25.3	.6	11.8	-43.5	-13	-30.5	V
9.235	-65.3	Pk	36.4	-25	.4	11.8	-41.7	-13	-28.7	H
High Channel, 708.5MHz										
2.0683	-62.31	Pk	31.7	-35.8	.5	11.8	-54.11	-13	-41.11	H
2.0917	-63.35	Pk	31.6	-35.7	.5	11.8	-55.15	-13	-42.15	V
4.9393	-64.69	Pk	34	-31.2	.3	11.8	-49.79	-13	-36.79	V
4.9942	-64.68	Pk	34.1	-31.9	.4	11.8	-50.28	-13	-37.28	H
9.1927	-67.2	Pk	36.3	-25.3	.6	11.8	-43.8	-13	-30.8	H
9.6418	-65.45	Pk	36.6	-25.3	.4	11.8	-41.95	-13	-28.95	V

9.2.3. 5G NR n71

5G NR n71 (BPSK 20MHZ BANDWIDTH, Config 0)

Date:	2026-05-27
Test Engineer:	84740 / 11993
Configuration:	EUT Only
Mode	5G NR n71 BPSK 20MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 680.5MHz										
3.0772	-62.72	Pk	32.8	-34.8	.4	11.8	-52.52	-13	-39.52	H
3.0772	-62.57	Pk	32.8	-34.8	.4	11.8	-52.37	-13	-39.37	V
5.8618	-65.76	Pk	35	-29.8	.3	11.8	-48.46	-13	-35.46	V
5.9068	-67.25	Pk	35	-29.4	.3	11.8	-49.55	-13	-36.55	H
9.0226	-66.57	Pk	36.2	-24.8	.6	11.8	-42.77	-13	-29.77	V
9.1153	-66.28	Pk	36.3	-25	.4	11.8	-42.78	-13	-29.78	H

5G NR n71 (BPSK 20MHZ BANDWIDTH, Config 1)

Date:	2026-05-27
Test Engineer:	19289
Configuration:	EUT Only
Mode	5G NR n71 BPSK 20MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 680.5MHz										
2.0863	-62.57	Pk	31.6	-35.6	.5	11.8	-54.27	-13	-41.27	V
2.0872	-62.58	Pk	31.6	-35.6	.5	11.8	-54.28	-13	-41.28	H
4.375	-64.21	Pk	33.8	-31.7	.4	11.8	-49.91	-13	-36.91	V
4.3831	-64.09	Pk	33.8	-31.5	.4	11.8	-49.59	-13	-36.59	H
8.9947	-66.37	Pk	36.2	-24.9	.6	11.8	-42.67	-13	-29.67	V
9.0091	-66.7	Pk	36.2	-24.6	.6	11.8	-42.7	-13	-29.7	H

10. SETUP PHOTOS

Refer to R16314687-EP1 for setup photos.

END OF REPORT

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