

TEST REPORT

Report Number: R16314687-E2a

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 22H, PART 90S, PART 25
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4

Date Of Issue:
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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2026-07-06	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/be, WPT
and NFC

SERIAL NUMBERS: ZDH0462M, ZDH0492M, ZDR0384M, ZDR0394M

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

DATE TESTED: 2026-05-11 – 2026-06-17

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 2, PART 22H, PART 90S, PART 25	Complies
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-132 ISSUE 4	

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:



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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
RF Conducted Output Power	26 (90S)	2.1046, 90.635 (b)	--	Complies	None.
Effective Radiated Power	5, 26 (22)	22.913 (a)(5)	RSS132§5.4	Complies	None.
Occupied Bandwidth	5, 26	2.1049	RSS132, RSS-GEN§6.7	Complies	None.
Band Edge and Emission Mask	5, 26	2.1051, 22.917 (a), 90.691 (a)	RSS132§5.5	Complies	None.
Out of Band Emissions	5, 26	2.1051, 22.917 (a), 90.691 (a)	RSS132§5.5	Complies	None.
Frequency Stability	5, 26	2.1055, 22.355, 90.539, 90.213	RSS132§5.3	Complies	None.
Peak-to-Average Ratio	5, 26	22.913 (d)	RSS132§5.4	Complies	None.
Field Strength of Spurious Radiation	5, 26	2.1053, 22.917 (a), 90.691 (a)	RSS132§5.5	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:

Band	Frequency		Part 22/24/27/90 Rule parts	3GPP Band	Supported	Applicable to This Report
	DL (MHz)	UL (MHz)				
600 MHz	614 – 652	663 – 698	27.5 (c) 27.50 (c) 27.53 (g)	71/n71	Yes	No
700 MHz	729 – 746	699 – 716	27.5 (c) 27.50 (c) 27.53 (g)	12/n12 17	Yes	No
	746 – 756	777 – 787	27.5 (b) 27.50 (b) 27.53 (f)	13/n13	Yes	No
	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	Yes
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 22H, Part 90S, 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-132 Issue 4

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, U.S.A.	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 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:

5G NR Bands	Config 0	Config 1
5G NR n5	ANT A (Main 1)	ANT E (Sub 1)
5G NR n26 (Part 90S)		
5G NR n26 (Part 22H)		

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

$$\text{ERP/EIRP} = P_{\text{Meas}} + G_T - L_C$$

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 n26 (FCC Part 90S)

Part 90S										
Conducted Limit (W)		100.00								
Antenna Gain (dBi)		-3.70								
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	816.5	821.5	23.40	0.22	17.55	0.057	4.535	4535	4M54G7W
	16QAM			22.37	0.17	16.52	0.045	4.531	4531	4M53D7W
10.0	BPSK	814.0	824.0	23.36	0.22	17.51	0.056	9.035	9035	9M04G7W
	16QAM			22.39	0.17	16.54	0.045	8.961	8961	8M96D7W

5G NR n26 (Straddle)

Part 90S										
Conducted Limit (W)		100.00								
Antenna Gain (dBi)		-3.70								
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	816.5	821.5	22.85	0.19	17.00	0.050	4.5355	4535.5	4M54G7W
	16QAM			21.79	0.15	15.94	0.039	4.5355	4535.5	4M54D7W
10.0	BPSK	819.0	829.0	22.90	0.19	17.05	0.051	9.0247	9024.7	9M02G7W
	16QAM			21.68	0.15	15.83	0.038	8.95	8950	8M95D7W
15.0	BPSK	816.5	831.5	22.93	0.20	17.08	0.051	13.466	13466	13M5G7W
	16QAM			21.84	0.15	15.99	0.040	13.505	13505	13M5D7W
20.0	BPSK	814.0	834.0	22.83	0.19	16.98	0.050	17.951	17951	18M0G7W
	16QAM			21.64	0.15	15.79	0.038	17.925	17925	17M9D7W

5G NR n5&n26 (FCC Part 22)

Part 22/RSS 132								
ERP Limit (W)		7.00						
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	826.5	846.5	18.02	0.063	4.5355	4535.5	4M54G7W
	16QAM			16.78	0.048	4.5355	4535.5	4M54D7W
10.0	BPSK	829.0	844.0	18.04	0.064	9.0247	9024.7	9M02G7W
	16QAM			16.68	0.047	8.95	8950	8M95D7W
15.0	BPSK	831.5	841.5	17.95	0.062	13.466	13466	13M5G7W
	16QAM			16.68	0.047	13.505	13505	13M5D7W
20.0	BPSK	826.5	846.5	17.82	0.061	17.951	17951	18M0G7W
	16QAM			16.69	0.047	17.925	17925	17M9D7W

6.3. WORST-CASE CONFIGURATION AND MODE

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.

Radiated spurious tests were conducted on wider bandwidth with 1RB to cover the entire 814 – 849 frequency range for both part 90S and 22H.

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

Band FR1 n5 is covered by FR1 n26, as they share the same operating frequency range, and have equal output powers.

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

5G NR Bands	Worst-Case Antenna Port	Worst-Case Modulation
5G NR n5 824 – 849 MHz	ANT A (Main 1)	5G NR: BPSK
5G NR n26 (Part 90) 814 – 824 MHz	ANT A (Main 1)	
5G NR n26 (Part 22) 824 – 849 MHz	ANT A (Main 1)	

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 ($F_c < 1\text{GHz}$)	X	X
Mid Band ($1\text{GHz} < F_c < 3\text{GHz}$)	-	-
High Band ($F_c > 3\text{GHz}$)	-	-

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 WWAN 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

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
208721	Wideband Radio Communications Tester	Rohde and Schwarz	CMW500	2025-09-10	2026-09-10
77412 (BRF001)	900MHz notch filter, 2W, Fhigh =6GHz	Micro-Tronics	BRM50706	2026-04-01	2027-04-01
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	C1852-20	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: RSS132

LIMITS

For reporting purposes only.

TEST PROCEDURE

ANSI C63.26:2015: Section 5.4

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

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 n5&n26 (FCC PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n26 (Part 90S)	5MHz, BPSK	25/0	819.0	4.535	5.431
	5MHz, 16QAM			4.531	5.275
	10MHz, BPSK	50/0		9.035	10.071
	10MHz, 16QAM			8.961	9.920
	10MHz, BPSK	1/0		0.21931	0.3383

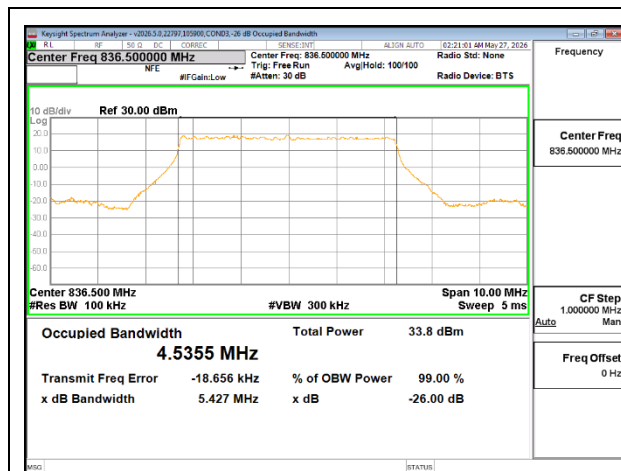
5G NR n5&n26 (FCC PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n5&n26 (FCC Part 22)	5MHz, BPSK	25/0	836.5	4.5355	5.427
	5MHz, 16QAM			4.5355	5.290
	10MHz, BPSK	50/0		9.0247	9.941
	10MHz, 16QAM			8.9500	9.890
	15MHz, BPSK	75/0		13.466	14.65
	15MHz, 16QAM			13.505	14.79
	20MHz, BPSK	100/0		17.951	19.28
	20MHz, 16QAM			17.925	19.31
	20MHz, BPSK	1/0		0.23832	0.3545

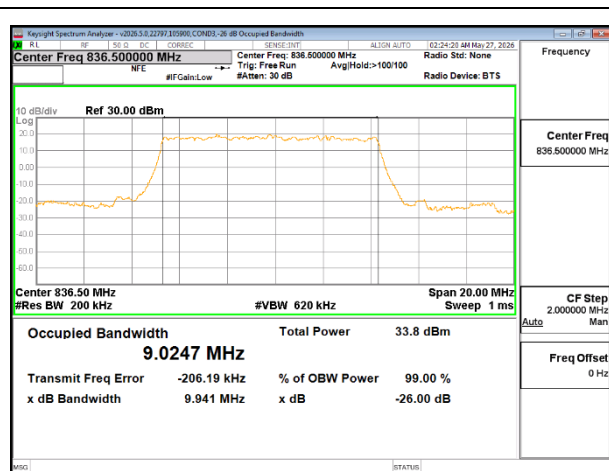
8.1.1. 5G NR n26 (FCC PART 90S)



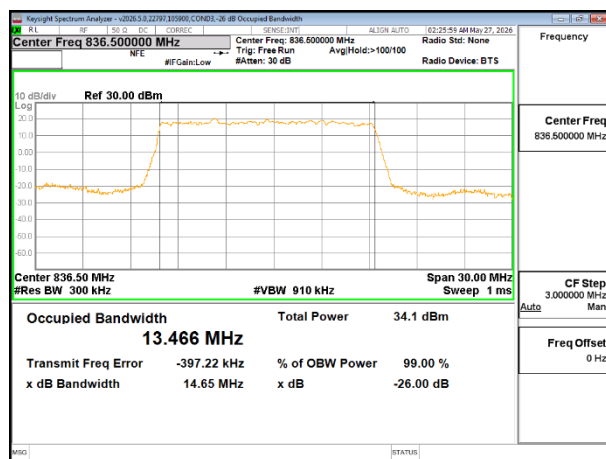
8.1.2. 5G NR n5&n26 (FCC PART 22)



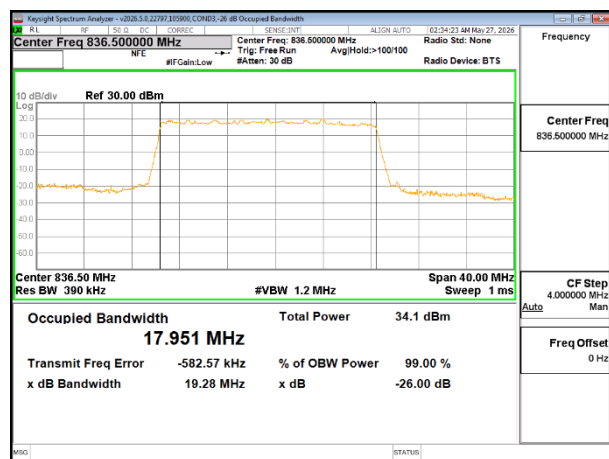
5G NR n26 5MHz BPSK Middle Channel RB25-0



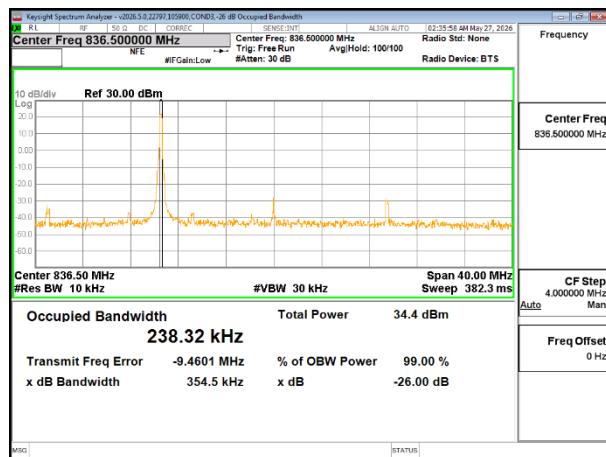
5G NR n26 10MHz BPSK Middle Channel RB50-0



5G NR n26 15MHz BPSK Middle Channel RB75-0



5G NR n26 20MHz BPSK Middle Channel RB100-0



5G NR n26 20MHz Middle High Channel RB1-0

Intentionally Blank

8.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §22.917 (a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

NOTE: According to 971168 D02 Misc Rev Approv License Devices v02r01, Section VIII (c):

For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

ISED: RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

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.

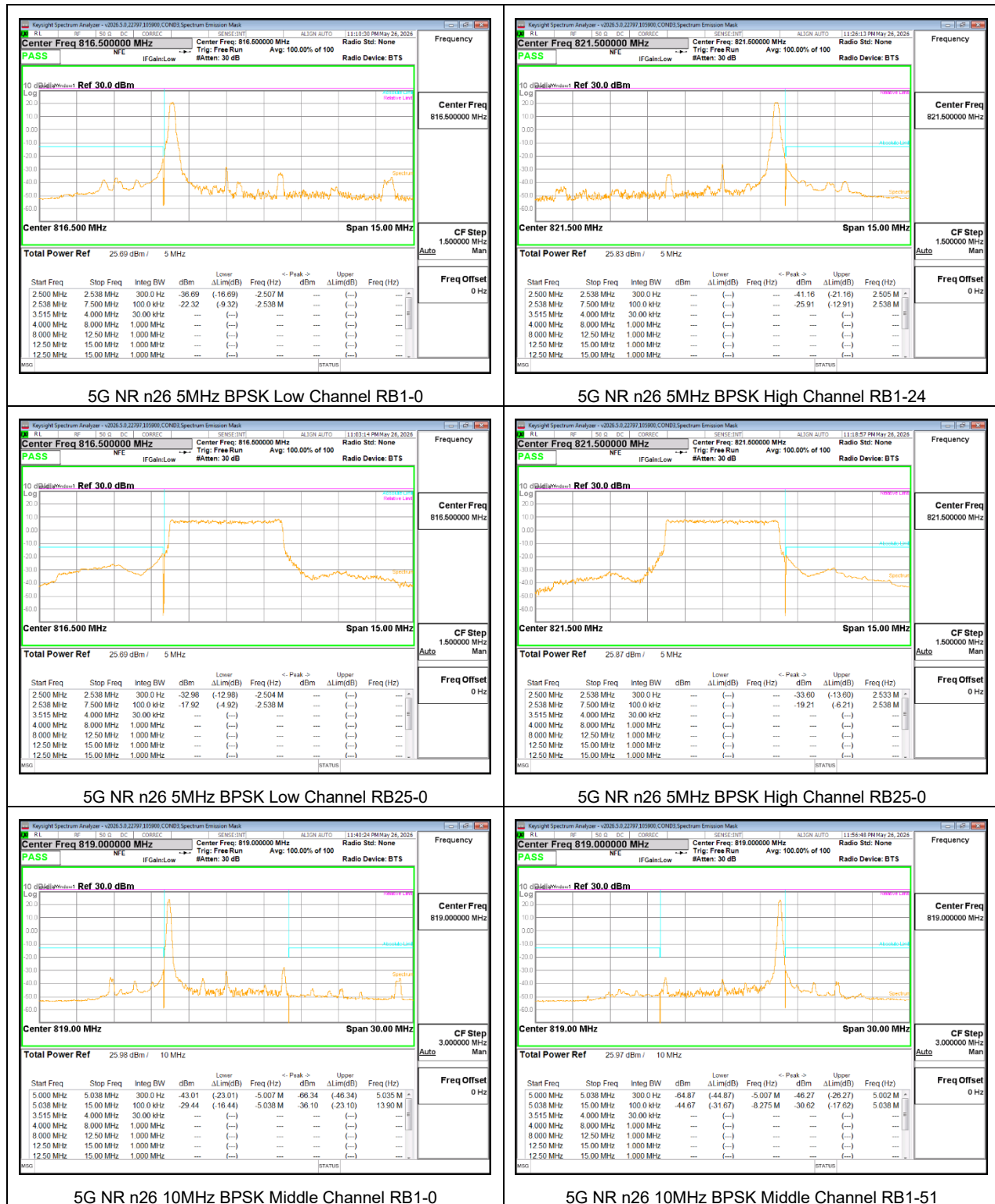
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

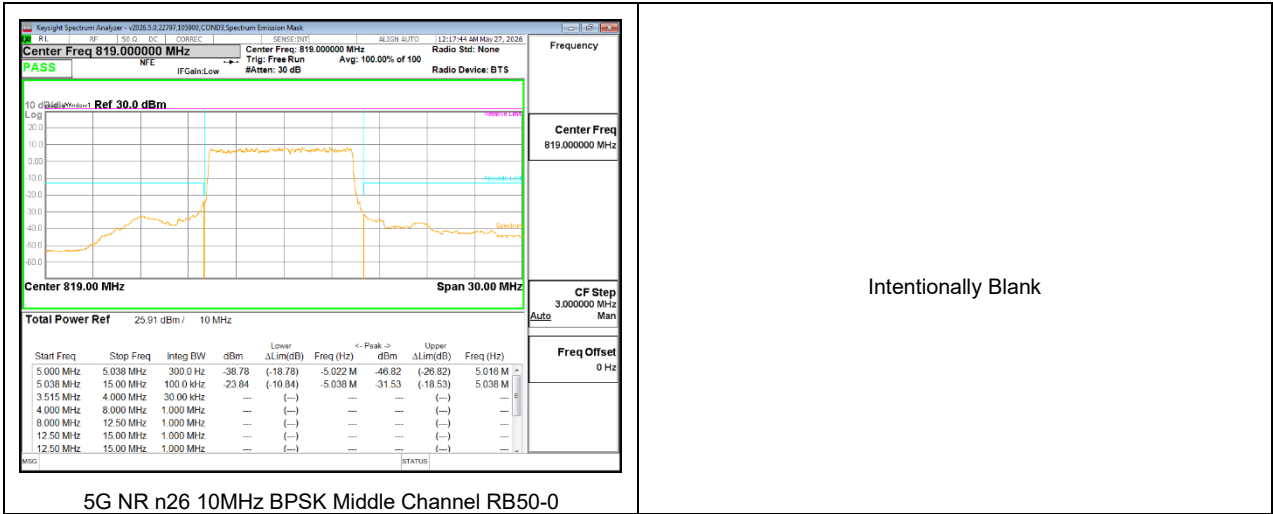
For each band edge measurement:

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.

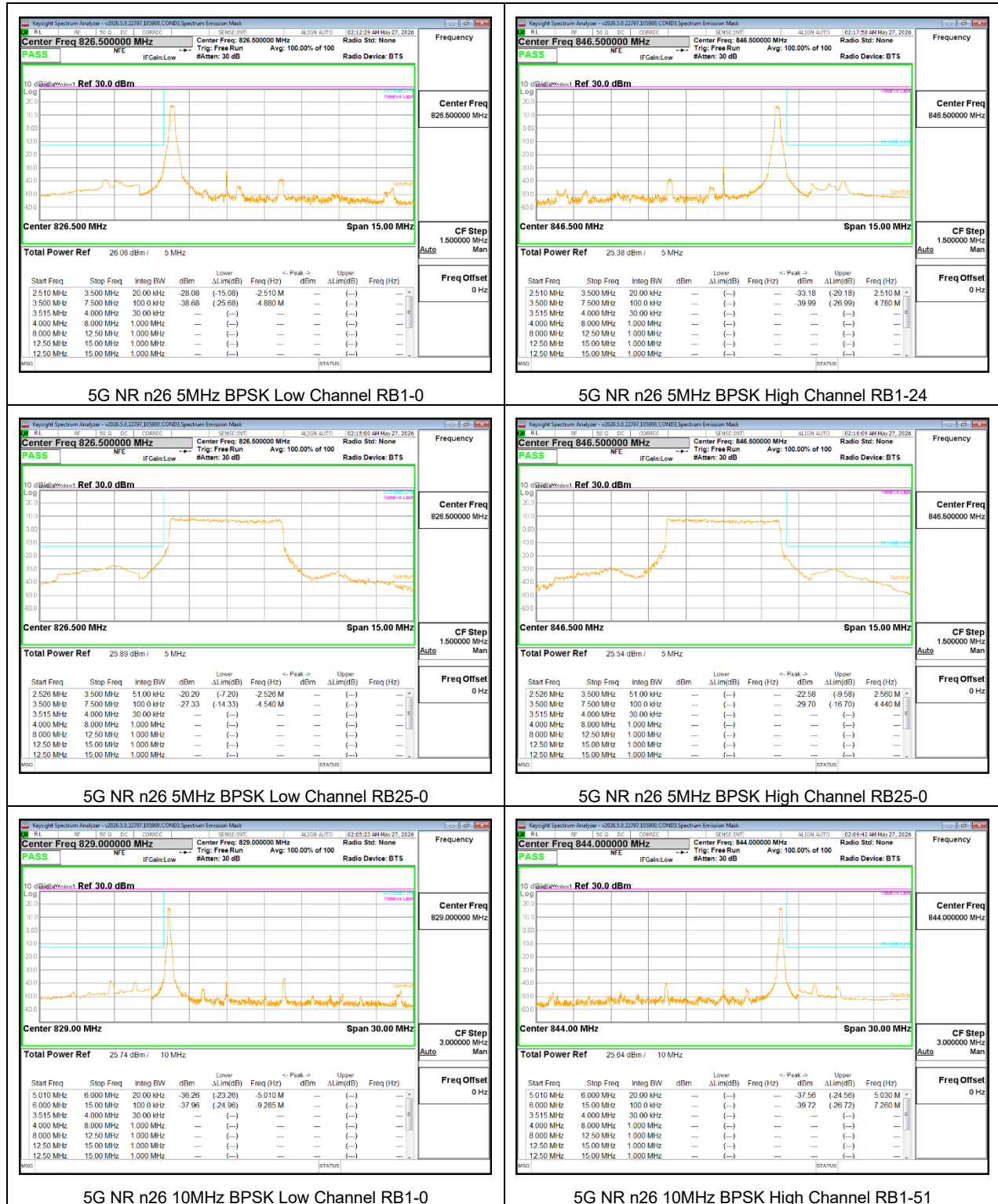
RESULTS

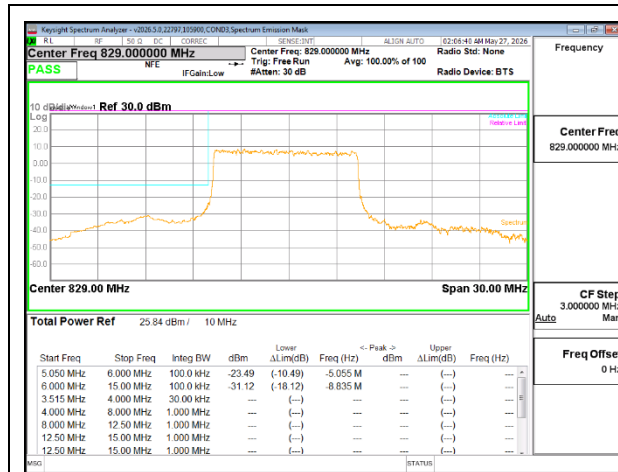
8.2.1. 5G NR n26 (FCC PART 90S)



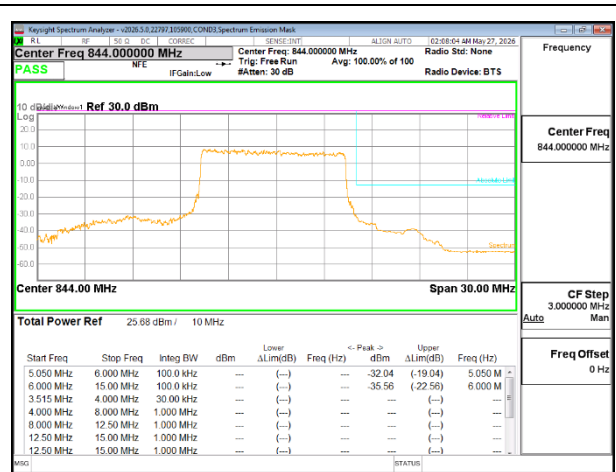


8.2.2. 5G NR 5MHz (FCC PART 22)

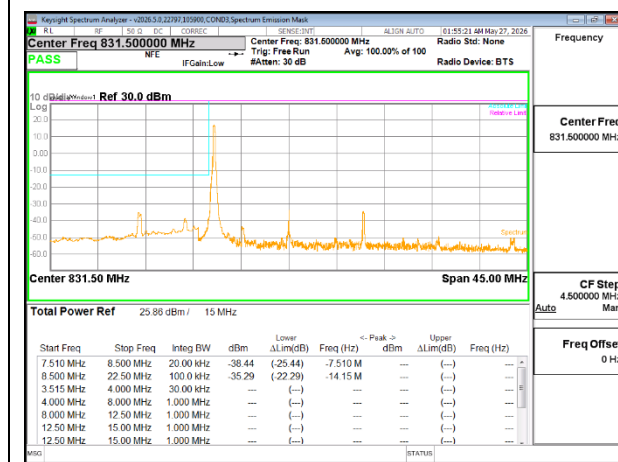




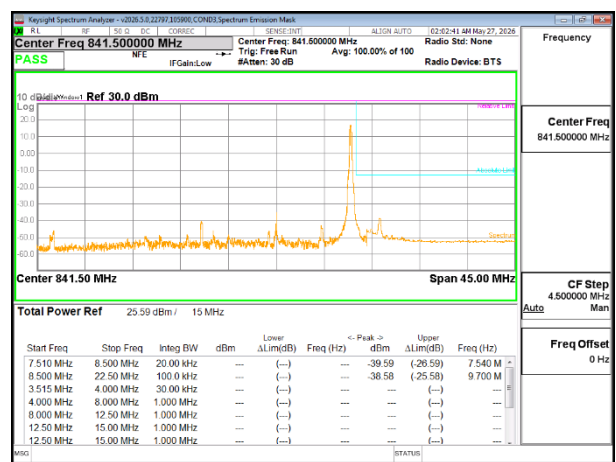
5G NR n26 10MHz BPSK Low Channel RB50-0



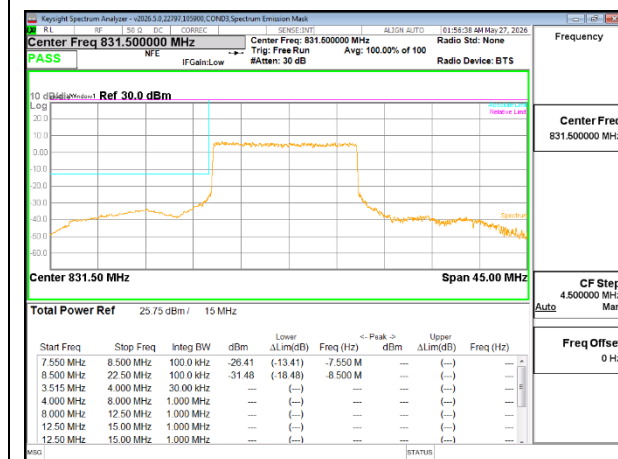
5G NR n26 10MHz BPSK High Channel RB50-0



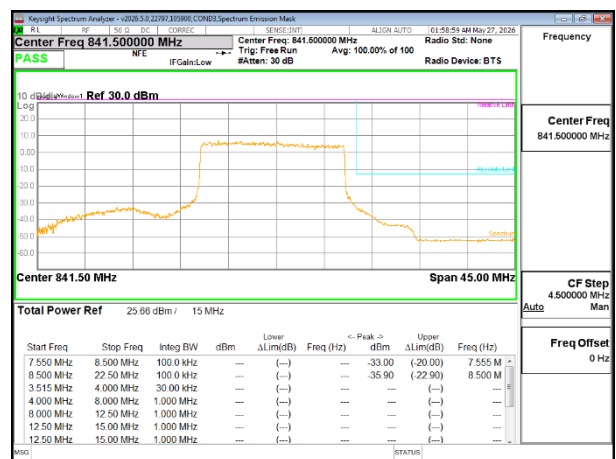
5G NR n26 15MHz BPSK Low Channel RB1-0



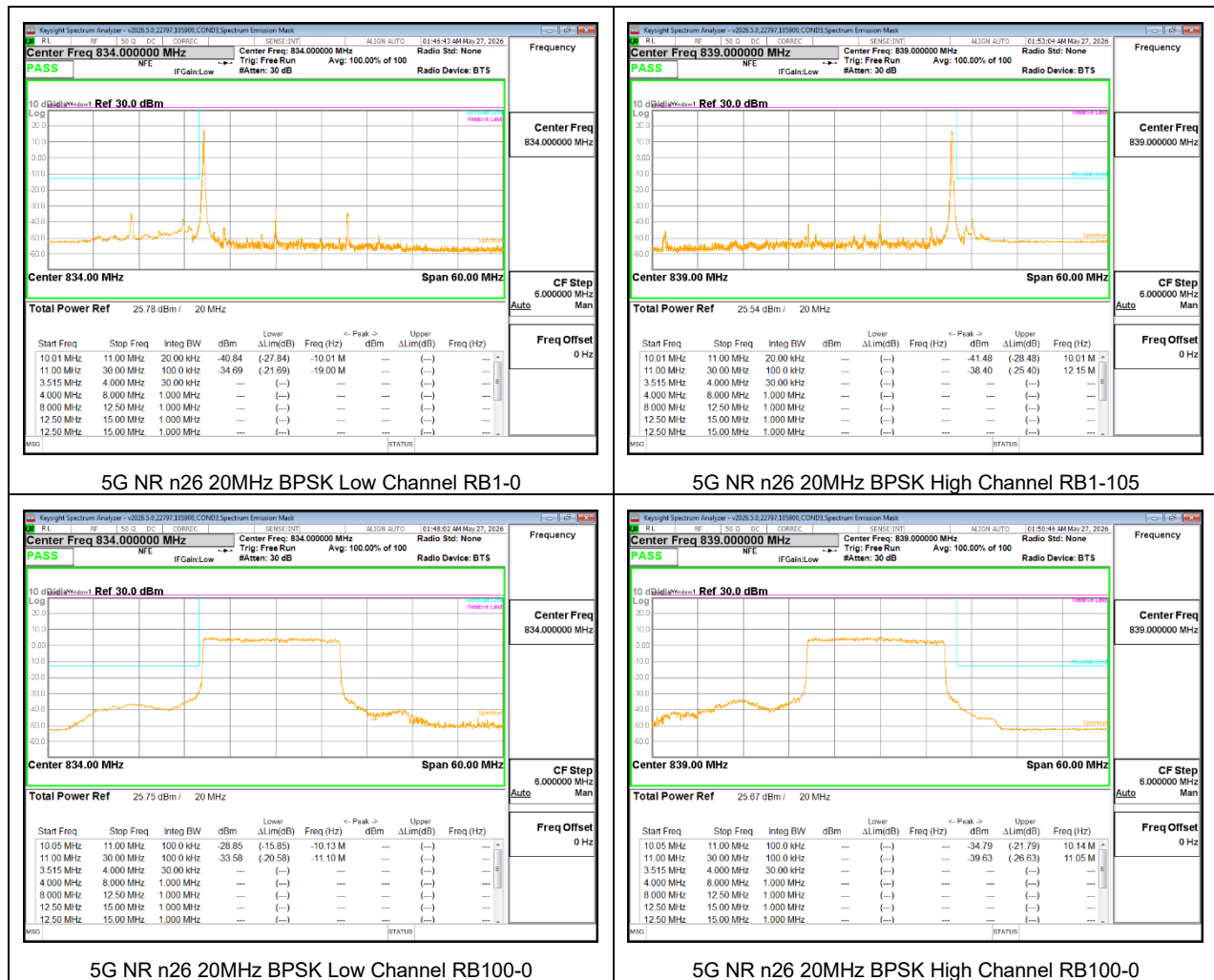
5G NR n26 15MHz BPSK High Channel RB1-78



5G NR n26 15MHz BPSK Low Channel RB75-0

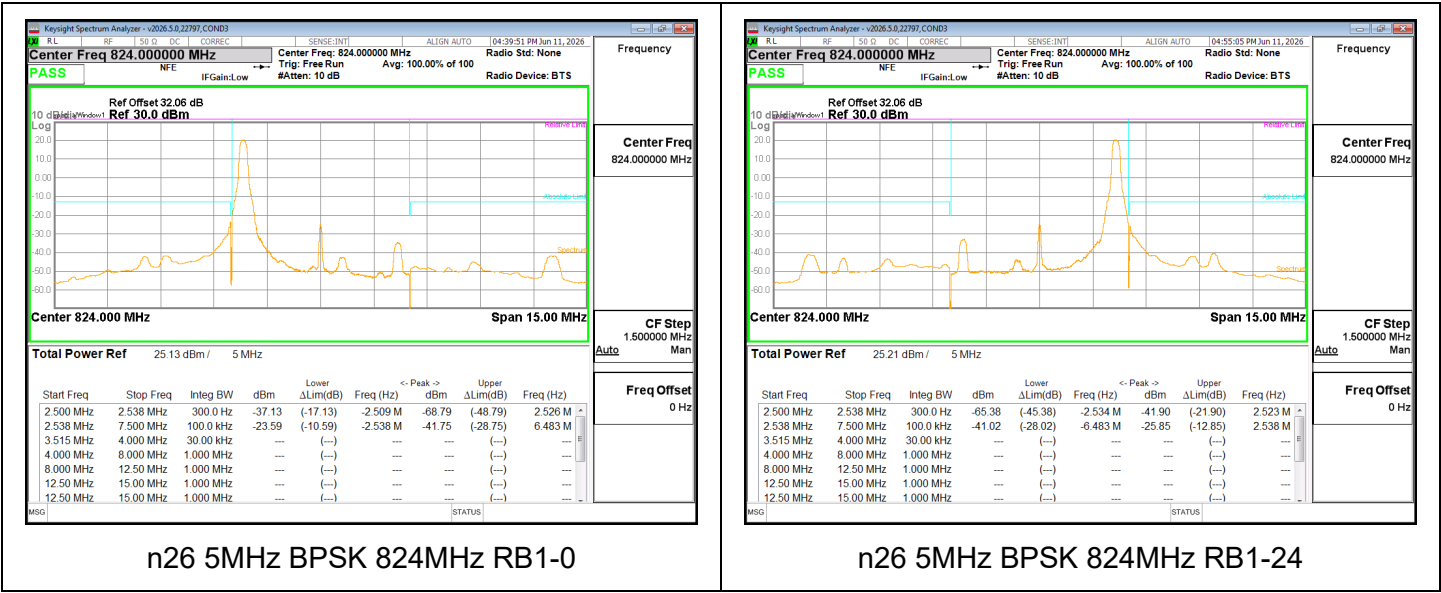


5G NR n26 15MHz BPSK High Channel RB75-0



8.2.3. 5G NR n5&n26 (Straddle)





Note: Worst-Case FRB mode was tested for 1RB mode(s)

8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §22.917

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

FCC: §90.691

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

RSS132§5.5

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

TEST PROCEDURE

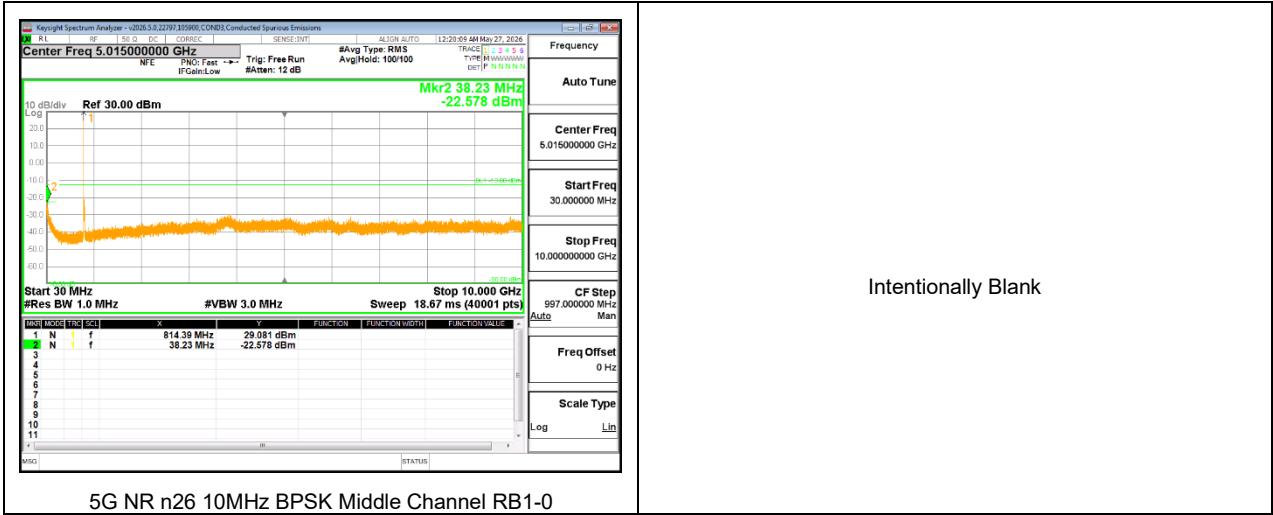
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case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

For each out of band emissions measurement:

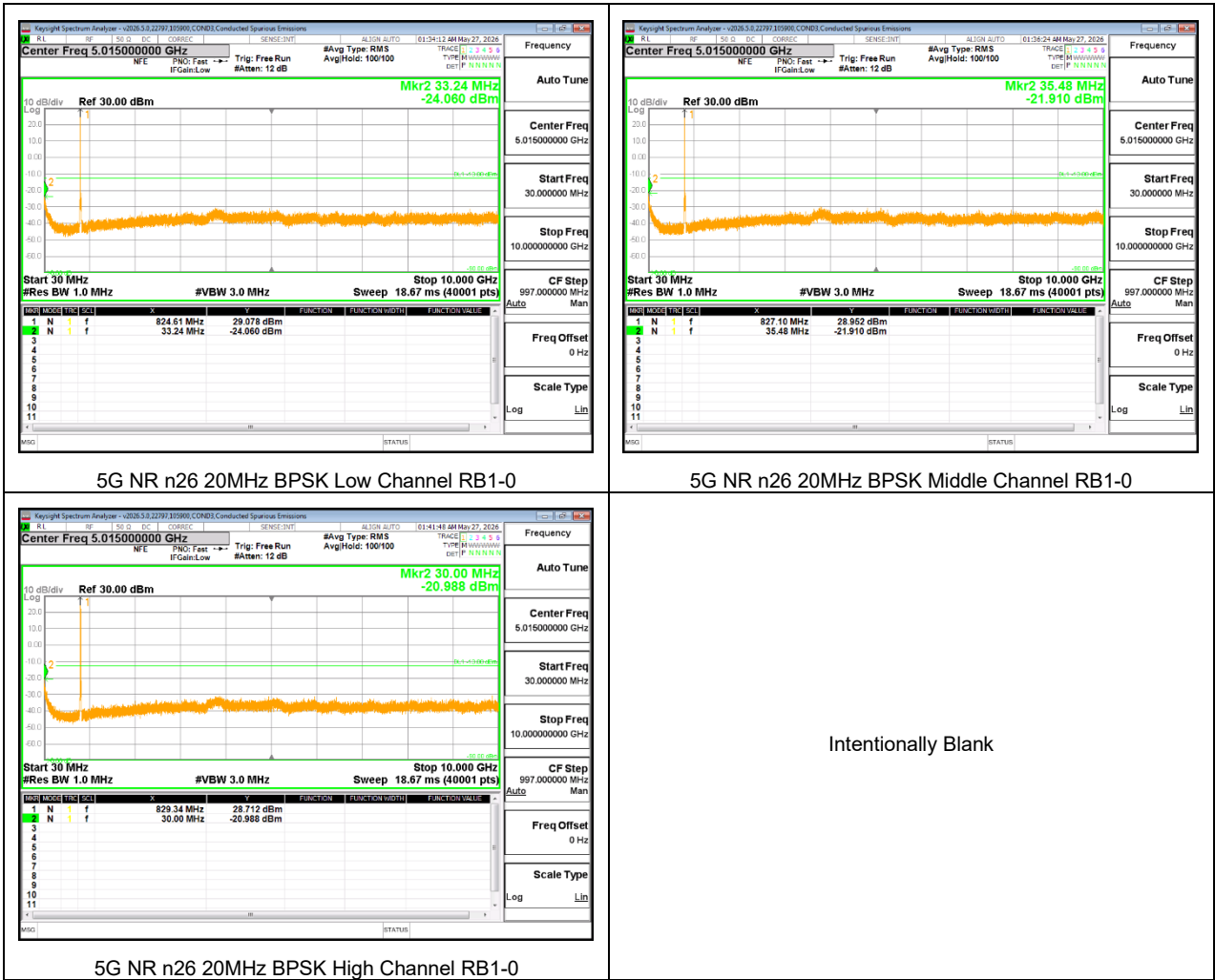
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

8.3.1. 5G NR n26 (FCC PART 90S)



8.3.2. 5G NR n5&n26 (FCC PART 22)



8.4. FREQUENCY LIMITS

FCC: §22.355

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC: §90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

ISED: RSS132§5.3

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

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- 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 placed 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 $+50^{\circ}\text{C}$ 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:	2026-06-09, 2026-06-10
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8.4.1. 5G NR n5&n26 (BPSK 20MHz BANDWIDTH, FCC PART 22)

Band	26	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		814	849		2.5	Within Authorized Frequency Block (Hz)
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	
Normal (20°C)	Normal	826.7563	845.1313			
Extreme (50°C)		826.7563	845.1313	0.0008	0.000	Yes
Extreme (40°C)		826.7562	845.1312	-0.0005	0.000	Yes
Extreme (30°C)		826.7563	845.1313	0.0018	0.000	Yes
Extreme (10°C)		826.7562	845.1312	-0.0009	0.000	Yes
Extreme (0°C)		826.7563	845.1313	0.0013	0.000	Yes
Extreme (-10°C)		826.7563	845.1313	0.0014	0.000	Yes
Extreme (-20°C)		826.7563	845.1313	0.0015	0.000	Yes
Extreme (-30°C)		826.7563	845.1313	0.0034	0.000	Yes
20°C	End Point Voltage	826.7563	845.1313	0.0007	0.000	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

FCC: §22.913 (d)

The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

ISED: RSS132§5.4

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 using a signal corresponding to the highest PAPR during periods of continuous transmission.

Test Procedure

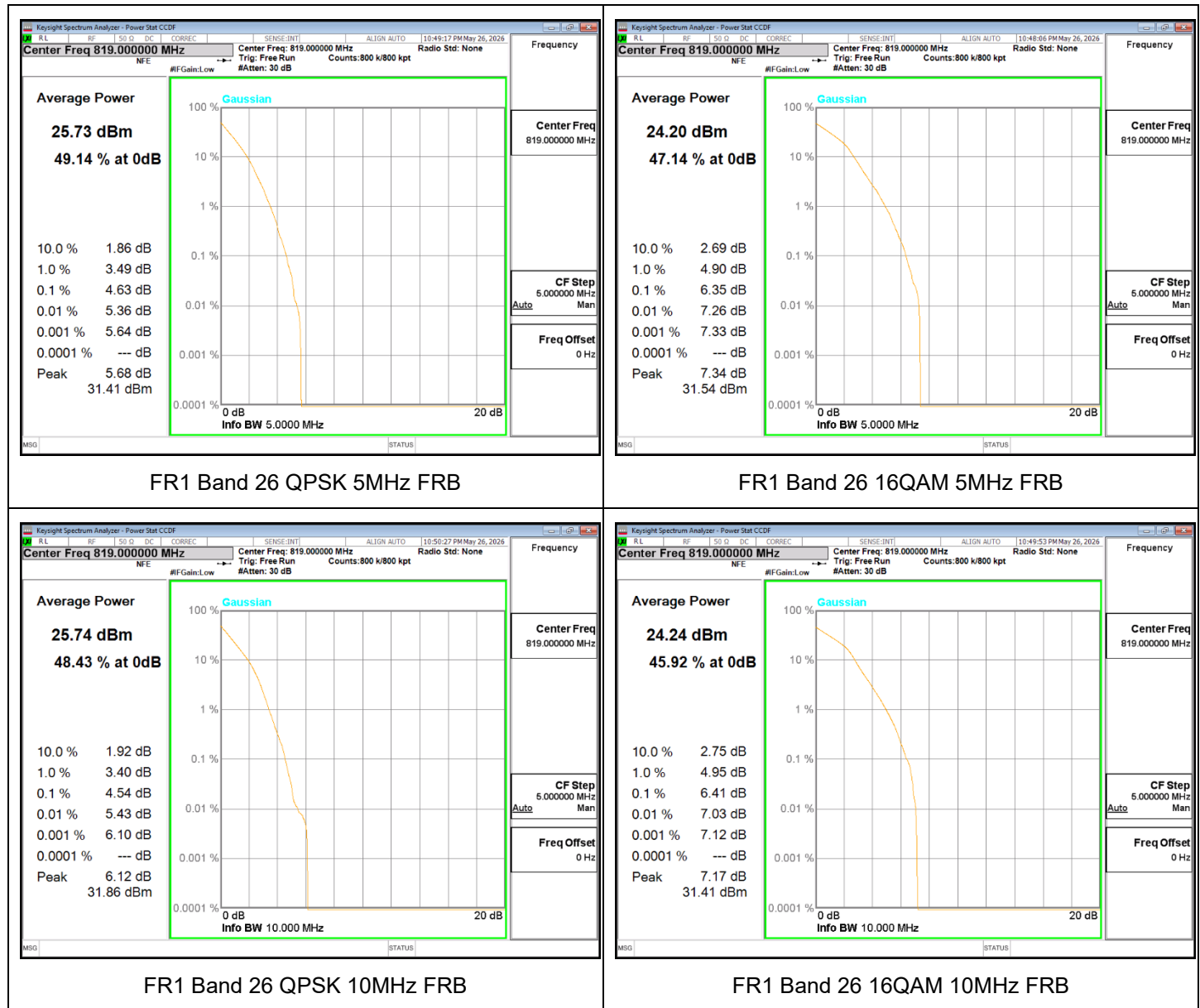
The EUT was connected to a Wideband Power Sensor to measure Peak and Average Output power.

The EUT was connected to an analyzer and the CCDF function was used.

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 passed the peak-to-average power ratio criteria.

8.5.1. 5G NR n26 (FCC PART 90S)



8.5.2. 5G NR n5&n26 (FCC PART 22)

Test Engineer ID:	105900/84740	Test Date:	2026-06-10
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Average Power Ratio
						Peak	Average	
5G NR n26 (FCC Part 22)	5MHz	836.5	25	0	BPSK	29.412	24.14	5.27
					16QAM	29.464	22.65	6.82
	10MHz		50	0	BPSK	29.88	24.136	5.74
					16QAM	29.64	22.636	7.00
	15MHz		75	0	BPSK	29.54	24.136	5.40
					16QAM	29.49	22.636	6.85
	20MHz		100	0	BPSK	29.43	24.13	5.30
					16QAM	29.59	22.62	6.97
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.

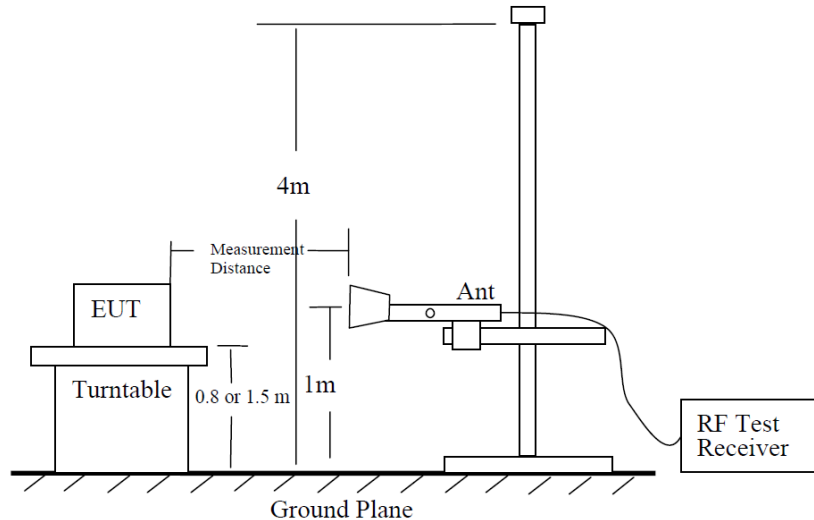


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- 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, §90.635 (b), §22.913

LIMITS

22.913 (a)(5) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

§90.635 (b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). Power is given in terms of effective radiated power (ERP).

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 $\geq 3 \times$ RBW;
- d) Set number of points in sweep $\geq 2 \times$ span / RBW;
- e) Sweep time = auto-couple;
- f) Detector = RMS (power averaging);
- g) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- h) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

9.1.1. 5G NR n26 (FCC PART 90S)

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16314687
Date: 2026-06-08 – 2026-06-15
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
816.5	n26 (90s) /5MHz (ANT A)	RB1-1	BPSK	0.056	17.48	38.45	-20.97
819.0		RB1-12	BPSK	0.057	17.55	38.45	-20.90
821.5		RB1-23	BPSK	0.055	17.43	38.45	-21.02
816.5		RB1-1	16QAM	0.045	16.52	38.45	-21.93
819.0		RB1-12	16QAM	0.044	16.47	38.45	-21.98
821.5		RB1-23	16QAM	0.045	16.49	38.45	-21.96
819.0	n26(90S) / 10MHz (ANT A)	RB1-1	BPSK	0.047	16.68	38.45	-21.77
819.0		RB1-26	BPSK	0.056	17.46	38.45	-20.99
819.0		RB1-50	BPSK	0.056	17.51	38.45	-20.94
819.0		RB1-1	16QAM	0.037	15.74	38.45	-22.71
819.0		RB1-26	16QAM	0.043	16.30	38.45	-22.15
819.0		RB1-50	16QAM	0.045	16.54	38.45	-21.91

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
824.0	n26 Straddle / 5MHz (ANT A)	RB1-1	BPSK	0.049	16.93	38.45	-21.52
824.0		RB1-12	BPSK	0.049	16.88	38.45	-21.57
824.0		RB1-23	BPSK	0.050	17.00	38.45	-21.45
824.0		RB1-1	16QAM	0.037	15.66	38.45	-22.79
824.0		RB1-12	16QAM	0.038	15.76	38.45	-22.69
824.0		RB1-23	16QAM	0.039	15.94	38.45	-22.51
824.0	n26 Straddle / 10MHz (ANT A)	RB1-1	BPSK	0.049	16.94	38.45	-21.51
824.0		RB1-26	BPSK	0.051	17.05	38.45	-21.40
824.0		RB1-50	BPSK	0.049	16.92	38.45	-21.53
824.0		RB1-1	16QAM	0.037	15.73	38.45	-22.72
824.0		RB1-26	16QAM	0.038	15.83	38.45	-22.62
824.0		RB1-50	16QAM	0.037	15.71	38.45	-22.74
824.0	n26 Straddle / 15MHz (ANT A)	RB1-1	BPSK	0.050	17.02	38.45	-21.43
824.0		RB1-39	BPSK	0.051	17.08	38.45	-21.37
824.0		RB1-77	BPSK	0.049	16.91	38.45	-21.54
824.0		RB1-1	16QAM	0.039	15.89	38.45	-22.56
824.0		RB1-39	16QAM	0.040	15.99	38.45	-22.46
824.0		RB1-77	16QAM	0.037	15.69	38.45	-22.76
824.0	n26 Straddle / 20MHz (ANT A)	RB1-1	BPSK	0.045	16.52	38.45	-21.93
824.0		RB1-53	BPSK	0.050	16.98	38.45	-21.47
824.0		RB1-104	BPSK	0.049	16.88	38.45	-21.57
824.0		RB1-1	16QAM	0.035	15.39	38.45	-23.06
824.0		RB1-53	16QAM	0.038	15.79	38.45	-22.66
824.0		RB1-104	16QAM	0.038	15.78	38.45	-22.67

CONFIG 0

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: Samsung
Project #: 16314687
Date: 2026-06-08 – 2026-06-15
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
816.5	n26 (90s) /5MHz (ANT E)	RB1-1	BPSK	0.043	16.34	38.45	-22.11
819.0		RB1-12	BPSK	0.043	16.36	38.45	-22.09
821.5		RB1-23	BPSK	0.041	16.13	38.45	-22.32
816.5		RB1-1	16QAM	0.035	15.38	38.45	-23.07
819.0		RB1-12	16QAM	0.035	15.40	38.45	-23.05
821.5		RB1-23	16QAM	0.034	15.28	38.45	-23.17
819.0		RB1-1	BPSK	0.039	15.93	38.45	-22.52
819.0	n26(90S) / 10MHz (ANT E)	RB1-26	BPSK	0.042	16.26	38.45	-22.19
819.0		RB1-50	BPSK	0.040	16.04	38.45	-22.41
819.0		RB1-1	16QAM	0.031	14.93	38.45	-23.52
819.0		RB1-26	16QAM	0.034	15.30	38.45	-23.15
819.0		RB1-50	16QAM	0.032	15.07	38.45	-23.38
819.0							

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
824.0	n26 Straddle / 5MHz (ANT E)	RB1-1	BPSK	0.043	16.36	38.45	-22.09
824.0		RB1-12	BPSK	0.044	16.40	38.45	-22.05
824.0		RB1-23	BPSK	0.045	16.58	38.45	-21.87
824.0		RB1-1	16QAM	0.036	15.52	38.45	-22.93
824.0		RB1-12	16QAM	0.036	15.58	38.45	-22.87
824.0		RB1-23	16QAM	0.035	15.38	38.45	-23.07
824.0	n26 Straddle / 10MHz (ANT E)	RB1-1	BPSK	0.042	16.27	38.45	-22.18
824.0		RB1-26	BPSK	0.042	16.19	38.45	-22.26
824.0		RB1-50	BPSK	0.045	16.58	38.45	-21.87
824.0		RB1-1	16QAM	0.036	15.54	38.45	-22.91
824.0		RB1-26	16QAM	0.036	15.60	38.45	-22.85
824.0		RB1-50	16QAM	0.035	15.44	38.45	-23.01
824.0	n26 Straddle / 15MHz (ANT E)	RB1-1	BPSK	0.044	16.43	38.45	-22.02
824.0		RB1-39	BPSK	0.043	16.30	38.45	-22.15
824.0		RB1-77	BPSK	0.046	16.59	38.45	-21.86
824.0		RB1-1	16QAM	0.035	15.46	38.45	-22.99
824.0		RB1-39	16QAM	0.035	15.50	38.45	-22.95
824.0		RB1-77	16QAM	0.035	15.39	38.45	-23.06
824.0	n26 Straddle / 20MHz (ANT E)	RB1-1	BPSK	0.038	15.82	38.45	-22.63
824.0		RB1-53	BPSK	0.043	16.31	38.45	-22.14
824.0		RB1-104	BPSK	0.044	16.41	38.45	-22.04
824.0		RB1-1	16QAM	0.030	14.79	38.45	-23.66
824.0		RB1-53	16QAM	0.034	15.32	38.45	-23.13
824.0		RB1-104	16QAM	0.034	15.37	38.45	-23.08

CONFIG 1

9.1.2. 5G NR n5&n26 (FCC PART 22)

High Frequency Substitution Measurement UL Morrisville Chamber 4

Company: Samsung
Project #: 16314687
Date: 2026-06-08 – 2026-06-15
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
826.5	n26 (22) / 5MHz (ANT A)	RB1-1	BPSK	0.063	18.02	38.45	-20.43
836.5		RB1-12	BPSK	0.062	17.94	38.45	-20.51
846.5		RB1-23	BPSK	0.060	17.80	38.45	-20.65
826.5		RB1-1	16QAM	0.048	16.78	38.45	-21.67
836.5		RB1-12	16QAM	0.045	16.55	38.45	-21.90
846.5		RB1-23	16QAM	0.044	16.46	38.45	-21.99
829.0	n26 (22) / 10MHz (ANT A)	RB1-1	BPSK	0.064	18.04	38.45	-20.41
836.5		RB1-26	BPSK	0.063	17.96	38.45	-20.49
844.0		RB1-50	BPSK	0.060	17.80	38.45	-20.65
829.0		RB1-1	16QAM	0.047	16.68	38.45	-21.77
836.5		RB1-26	16QAM	0.045	16.58	38.45	-21.87
844.0		RB1-50	16QAM	0.044	16.48	38.45	-21.97
831.5	n26 (22) / 15MHz (ANT A)	RB1-1	BPSK	0.062	17.95	38.45	-20.50
836.5		RB1-39	BPSK	0.062	17.95	38.45	-20.50
841.5		RB1-77	BPSK	0.060	17.77	38.45	-20.68
831.5		RB1-1	16QAM	0.047	16.68	38.45	-21.77
836.5		RB1-39	16QAM	0.046	16.61	38.45	-21.84
841.5		RB1-77	16QAM	0.045	16.56	38.45	-21.89
834.0	n26 (22) / 20MHz (ANT A)	RB1-1	BPSK	0.061	17.82	38.45	-20.63
836.5		RB1-53	BPSK	0.050	17.02	38.45	-21.43
839.0		RB1-104	BPSK	0.051	17.05	38.45	-21.40
834.0		RB1-1	16QAM	0.047	16.69	38.45	-21.76
836.5		RB1-53	16QAM	0.040	16.02	38.45	-22.43
839.0		RB1-104	16QAM	0.040	15.98	38.45	-22.47

CONFIG 0

**High Frequency Substitution Measurement
UL Morrisville Chamber 4**

Company: Samsung
Project #: 16314687
Date: 2026-06-08 – 2026-06-15
Test Engineer: 19289

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	ERP (W)	ERPDUT (dBm)	Limit (dBm)	Margin (dB)
826.5	n26 (22) / 5MHz (ANT E)	RB1-1	BPSK	0.051	17.09	38.45	-21.36
836.5		RB1-12	BPSK	0.050	16.97	38.45	-21.48
846.5		RB1-23	BPSK	0.047	16.74	38.45	-21.71
826.5		RB1-1	16QAM	0.039	15.95	38.45	-22.50
836.5		RB1-12	16QAM	0.039	15.94	38.45	-22.51
846.5		RB1-23	16QAM	0.036	15.58	38.45	-22.87
829.0	n26 (22) / 10MHz (ANT E)	RB1-1	BPSK	0.050	16.98	38.45	-21.47
836.5		RB1-26	BPSK	0.050	16.98	38.45	-21.47
844.0		RB1-50	BPSK	0.047	16.70	38.45	-21.75
829.0		RB1-1	16QAM	0.041	16.10	38.45	-22.35
836.5		RB1-26	16QAM	0.040	16.03	38.45	-22.42
844.0		RB1-50	16QAM	0.037	15.69	38.45	-22.76
831.5	n26 (22) / 15MHz (ANT E)	RB1-1	BPSK	0.049	16.93	38.45	-21.52
836.5		RB1-39	BPSK	0.049	16.94	38.45	-21.51
841.5		RB1-77	BPSK	0.047	16.69	38.45	-21.76
831.5		RB1-1	16QAM	0.039	15.96	38.45	-22.49
836.5		RB1-39	16QAM	0.039	15.93	38.45	-22.52
841.5		RB1-77	16QAM	0.038	15.79	38.45	-22.66
834.0	n26 (22) / 20MHz (ANT E)	RB1-1	BPSK	0.049	16.87	38.45	-21.58
836.5		RB1-53	BPSK	0.047	16.71	38.45	-21.74
839.0		RB1-104	BPSK	0.044	16.42	38.45	-22.03
834.0		RB1-1	16QAM	0.039	15.92	38.45	-22.53
836.5		RB1-53	16QAM	0.039	15.88	38.45	-22.57
839.0		RB1-104	16QAM	0.035	15.43	38.45	-23.02

CONFIG 1

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

LIMITS

FCC: §22.917(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC: §90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

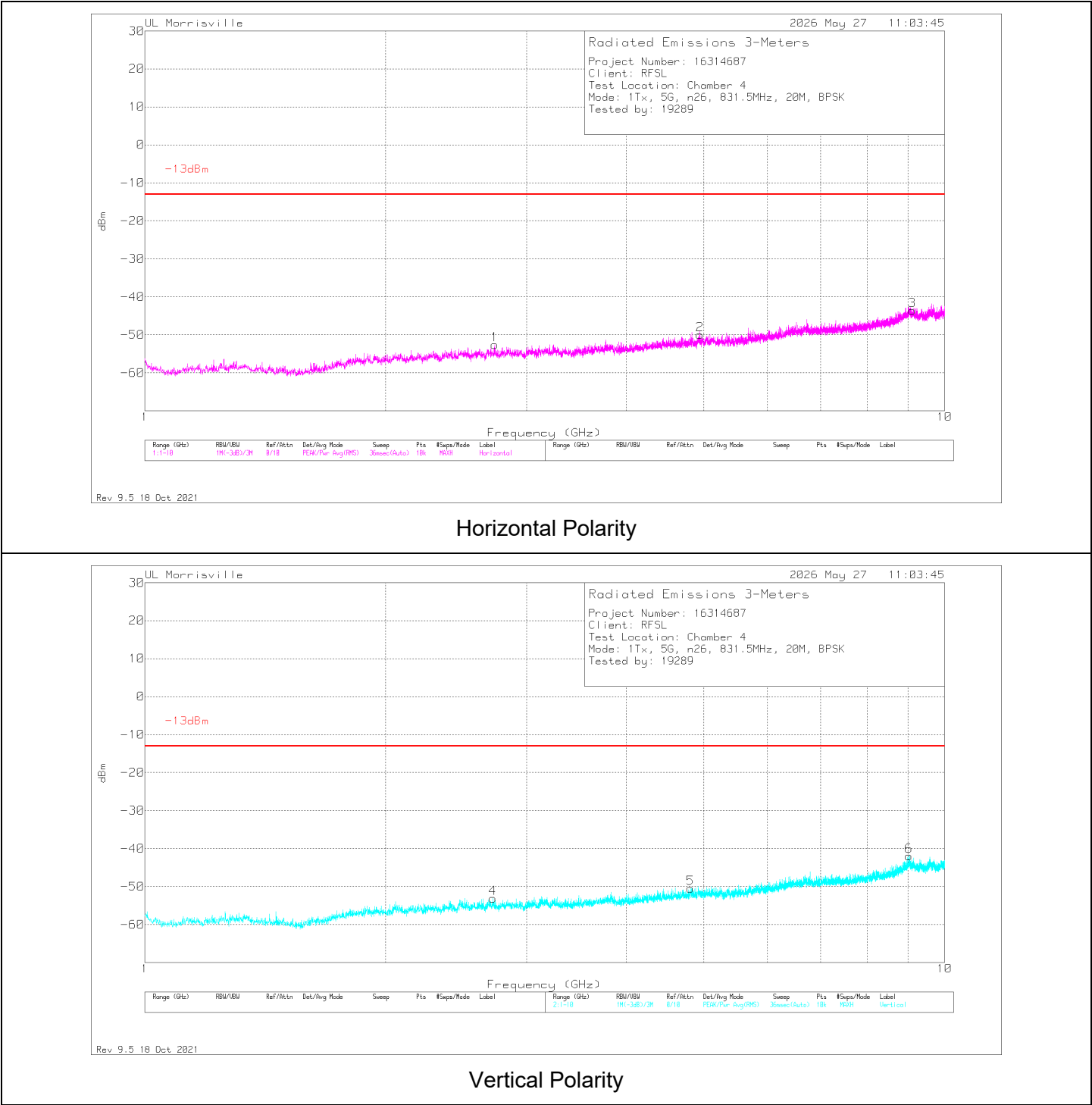
RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

Example Plot



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	2.7253	-62.51	Pk	32.5	-35.2	.3	11.8	-53.11	-13	-40.11	0-360	300	V
1	2.737	-62.12	Pk	32.5	-35.1	.3	11.8	-52.62	-13	-39.62	0-360	100	H
5	4.8124	-65.45	Pk	33.8	-30.8	.2	11.8	-50.45	-13	-37.45	0-360	300	V
2	4.9465	-64.87	Pk	34	-31.2	.3	11.8	-49.97	-13	-36.97	0-360	200	H
6	9.0298	-66.01	Pk	36.2	-24.6	.6	11.8	-42.01	-13	-29.01	0-360	200	V
3	9.1099	-66.88	Pk	36.3	-25.2	.4	11.8	-43.58	-13	-30.58	0-360	200	H

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. 5G NR n26 (FCC PART 90S & 22)

5G NR n26 (BPSK 20.0MHZ BANDWIDTH, ANT A (CONFIG 0))

Date:	2026-05-27
Test Engineer:	19289
Configuration:	EUT Only
Mode:	N26, BPSK
Chamber #:	Chamber 4

Frequency (MHz)	Meter Reading (dBuV)	Det	206211 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
Low Channel, 824MHz									
4	2.5228	-58.43	Pk	32.6	-35.7	.4	11.8	-49.33	-13
1	2.5282	-62.79	Pk	32.6	-35.7	.4	11.8	-53.69	-13
2	5.1202	-65.81	Pk	34.3	-31	.4	11.8	-50.31	-13
5	5.3596	-64	Pk	34.4	-30.8	.3	11.8	-48.3	-13
6	9.0649	-66.37	Pk	36.2	-25.3	.5	11.8	-43.17	-13
3	9.1117	-65.25	Pk	36.3	-25.1	.4	11.8	-41.85	-13
Mid Channel, 831.5MHz									
4	2.7253	-62.51	Pk	32.5	-35.2	.3	11.8	-53.11	-13
1	2.737	-62.12	Pk	32.5	-35.1	.3	11.8	-52.62	-13
5	4.8124	-65.45	Pk	33.8	-30.8	.2	11.8	-50.45	-13
2	4.9465	-64.87	Pk	34	-31.2	.3	11.8	-49.97	-13
6	9.0298	-66.01	Pk	36.2	-24.6	.6	11.8	-42.01	-13
3	9.1099	-66.88	Pk	36.3	-25.2	.4	11.8	-43.58	-13
High Channel, 839MHz									
4	2.278	-62.73	Pk	31.7	-35.6	.6	11.8	-54.23	-13
1	2.3014	-62.11	Pk	31.7	-35.6	.6	11.8	-53.61	-13
2	4.4929	-64.93	Pk	33.7	-31.3	.3	11.8	-50.43	-13
5	4.4974	-65.56	Pk	33.7	-31.4	.3	11.8	-51.16	-13
3	9.0172	-66.65	Pk	36.2	-24.7	.6	11.8	-42.75	-13
6	9.0334	-66.68	Pk	36.2	-24.4	.6	11.8	-42.48	-13

5G NR n26 (BPSK 20.0MHZ BANDWIDTH, ANT E (CONFIG 1))

Date:	2026-05-27
Test Engineer:	19289
Configuration:	EUT Only
Mode:	N26, BPSK
Chamber #:	Chamber 4

Frequency (MHz)	Meter Reading (dBuV)	Det	206211 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
Low Channel, 824MHz									
1	2.4877	-61.08	Pk	32.4	-35.6	.4	11.8	-52.08	-13
4	2.8396	-62.4	Pk	32.6	-34.9	.4	11.8	-52.5	-13
5	5.2615	-66.13	Pk	34.3	-30.9	.4	11.8	-50.53	-13
2	5.8546	-66.59	Pk	35	-29.7	.3	11.8	-49.19	-13
3	9.0172	-66.41	Pk	36.2	-24.7	.6	11.8	-42.51	-13
6	9.0595	-66.97	Pk	36.2	-25	.5	11.8	-43.47	-13
Mid Channel, 831.5MHz									
1	2.0881	-62.08	Pk	31.6	-35.7	.5	11.8	-53.88	-13
4	2.0881	-62.08	Pk	31.6	-35.7	.5	11.8	-53.88	-13
2	5.3524	-63.97	Pk	34.4	-30.9	.3	11.8	-48.37	-13
5	5.3524	-63.97	Pk	34.4	-30.9	.3	11.8	-48.37	-13
3	9.0082	-66.8	Pk	36.2	-24.7	.6	11.8	-42.9	-13
6	9.0082	-66.8	Pk	36.2	-24.7	.6	11.8	-42.9	-13
High Channel, 839MHz									
1	2.0557	-61.77	Pk	31.8	-35.6	.4	11.8	-53.37	-13
4	2.0899	-61.99	Pk	31.6	-35.7	.5	11.8	-53.79	-13
5	5.4055	-65.04	Pk	34.6	-30.9	.3	11.8	-49.24	-13
2	5.4784	-66.33	Pk	34.4	-30.4	.2	11.8	-50.33	-13
3	8.9146	-67	Pk	36.1	-24.9	.4	11.8	-43.6	-13
6	8.992	-66.37	Pk	36.2	-24.8	.6	11.8	-42.57	-13

10. SETUP PHOTOS

Refer to R16314687-EP1 for setup photos.

END OF REPORT