TEST REPORT

Report Number: 15496224-E27V3

Applicant	:	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	:	A3256
Brand	:	APPLE
FCC ID	:	BCG-E8949A
IC	:	579C-E8949A
EUT Description	:	SMARTPHONE
Test Standard(s)	:	FCC 47 CFR PART 2, PART 27 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-139 ISSUE 4

Date Of Issue:
2025-08-15

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
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ACCREDITED
CERT #0751.05

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-06-25	Initial Review	--
V2	2025-07-11	Updating Section 6.4. Table	Mengistu Mekuria
V3	2025-08-15	Revise section 6.5	Mengistu Mekuria

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3256
Brand	APPLE
FCC ID	BCG-E8949A
IC	579C-E8949A
EUT Description	Smartphone
Serial Number	RADIATED: N4QD07QXJ9, CP2H9NGP6C CONDUCTED: C07HG80000L0000WGT, C07HG80000T0000WGT
Sample Receipt Date	2024-11-25
Date Tested	2024-11-25 to 2025-06-19
Applicable Standards	FCC 47 CFR PART 2, PART 27 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-139 ISSUE 4
Test Results	COMPLIES

UL Verification Services Inc. 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 Verification Services Inc.and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc.will constitute fraud and shall nullify the document.

		
Kiya Kedida Lead Project Engineer UL Verification Services Inc.	Eric Ting Senior Test Engineer UL Verification Services Inc.	Carlos D. Caudana Project Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

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

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.4.)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
Equivalent Isotropic Radiated Power	27.50 (d) (4)	RSS139§5.5	Complies	
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS139	Complies	
Band Edge and Emission Mask	2.1051, 27.53 (h)	RSS139§5.6	Complies	
Out of Band Emissions	2.1051, 27.53 (h)	RSS139§5.6	Complies	
Frequency Stability	2.1055, 27.54	RSS139§5.4	Complies	
Peak-to-Average Ratio	27.50 (d) (5)	RSS139§5.5	Complies	
Field Strength of Spurious Radiation	2.1051, 27.53 (h)	RSS139§5.6	Complies	

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.
FCC published lists of measurement procedures for compliance testing.
ISED published lists of normative test standards and acceptable alternatives procedures.

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 27
- FCC KDB 971168 D01: Power Meas License Digital Systems (ISED acceptable alternative procedure)
- FCC KDB 971168 D02: Misc Rev Approv License Devices
- FCC KDB 412172 D01: Determining ERP and EIRP
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-139 Issue 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, 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 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

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}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB Ave. 1.300 dB Peak
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

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 Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, 5GNR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

ERP/EIRP = PMeas + GT − LC
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

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

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LTE BAND 4

Part 27 / RSS 139	
EIRP Limit (W)	1.00
Antenna Gain (dBi) (ANT2)	-1.40

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1754.3	25.70	24.30	0.269	1.093	1093	1M09G7W
	16QAM			25.69	24.29	0.269	1.098	1098	1M10D7W
3.0	QPSK	1711.5	1753.5	25.70	24.30	0.269	2.697	2697	2M70G7W
	16QAM			25.64	24.24	0.265	2.693	2693	2M69D7W
5.0	QPSK	1712.5	1752.5	25.70	24.30	0.269	4.501	4501	4M50G7W
	16QAM			25.69	24.29	0.269	4.496	4496	4M50D7W
10.0	QPSK	1715.0	1750.0	25.70	24.30	0.269	8.959	8959	8M96G7W
	16QAM			25.68	24.28	0.268	8.977	8977	8M98D7W
15.0	QPSK	1717.5	1747.5	25.70	24.30	0.269	13.465	13465	13M5G7W
	16QAM			25.67	24.27	0.267	13.453	13453	13M5D7W
20.0	QPSK	1720.0	1745.0	25.70	24.30	0.269	17.930	17930	17M9G7W
	16QAM			25.69	24.29	0.269	17.926	17926	17M9D7W

LTE BAND 66

Part 27 / RSS 139	
EIRP Limit (W)	1.00
Antenna Gain (dBi) (ANT2)	-1.50

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	25.70	24.20	0.263	1.093	1093	1M09G7W
	16QAM			25.69	24.19	0.262	1.098	1098	1M10D7W
3.0	QPSK	1711.5	1778.5	25.70	24.20	0.263	2.697	2697	2M70G7W
	16QAM			25.64	24.14	0.259	2.693	2693	2M69D7W
5.0	QPSK	1712.5	1777.5	25.70	24.20	0.263	4.501	4501	4M50G7W
	16QAM			25.69	24.19	0.262	4.496	4496	4M50D7W
10.0	QPSK	1715.0	1775.0	25.70	24.20	0.263	8.959	8959	8M96G7W
	16QAM			25.68	24.18	0.262	8.977	8977	8M98D7W
15.0	QPSK	1717.5	1772.5	25.70	24.20	0.263	13.465	13465	13M5G7W
	16QAM			25.67	24.17	0.261	13.453	13453	13M5D7W
20.0	QPSK	1720.0	1770.0	25.70	24.20	0.263	17.930	17930	17M9G7W
	16QAM			25.69	24.19	0.262	17.926	17926	17M9D7W

5G NR n66

Part 27/ RSS 139	
EIRP Limit (W)	1.00
Antenna Gain (dBi) (ANT2)	-1.50

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	1712.5	1777.5	25.70	24.20	0.263	4.517	4517	4M52G7W
	QPSK			25.68	24.18	0.262	4.506	4506	4M51G7W
	16QAM			24.56	23.06	0.202	4.517	4517	4M52D7W
10.0	BPSK	1715.0	1775.0	25.70	24.20	0.263	9.001	9001	9M00G7W
	QPSK			25.68	24.18	0.262	8.998	8998	9M00G7W
	16QAM			24.54	23.04	0.201	9.010	9010	9M01D7W
15.0	BPSK	1717.5	1772.5	25.70	24.20	0.263	13.509	13509	13M5G7W
	QPSK			25.69	24.19	0.262	13.488	13488	13M5G7W
	16QAM			24.50	23.00	0.200	13.467	13467	13M5D7W
20.0	BPSK	1720.0	1770.0	25.70	24.20	0.263	17.966	17966	18M0G7W
	QPSK			25.68	24.18	0.262	17.949	17949	17M9G7W
	16QAM			24.58	23.08	0.203	17.942	17942	17M9D7W
25.0	BPSK	1722.5	1767.5	25.70	24.20	0.263	22.960	22960	23M0G7W
	QPSK			25.68	24.18	0.262	22.980	22980	23M0G7W
	16QAM			24.58	23.08	0.203	22.969	22969	23M0D7W
30.0	BPSK	1725.0	1765.0	25.70	24.20	0.263	28.687	28687	28M7G7W
	QPSK			25.68	24.18	0.262	28.695	28695	28M7G7W
	16QAM			24.58	23.08	0.203	28.685	28685	28M7D7W
35.0	BPSK	1727.5	1762.5	25.70	24.20	0.263	32.322	32322	32M3G7W
	QPSK			25.68	24.18	0.262	32.273	32273	32M3G7W
	16QAM			24.75	23.25	0.211	32.282	32282	32M3D7W
40.0	BPSK	1730.0	1760.0	25.70	24.20	0.263	38.711	38711	38M7G7W
	QPSK			25.68	24.18	0.262	38.689	38689	38M7G7W
	16QAM			24.45	22.95	0.197	38.688	38688	38M7D7W
45.0	BPSK	1732.5	1757.5	25.70	24.20	0.263	43.051	43051	43M1G7W
	QPSK			25.69	24.19	0.262	43.013	43013	43M0G7W
	16QAM			24.44	22.94	0.197	43.012	43012	43M0D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.08.00.

6.4. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The IFA antenna(s) gain/ allowed output power, as provided by the manufacturer' are as follows:

Bands	Frequency Range (MHz)	Antenna	Gain (dBi)	Max Allowed Conducted Output Power (dBm)	ERP/EIRP (dBm)
LTE Band 4	1710 - 1755	ANT3	-3.9	25.7	21.80
		ANT4	-1.9	25.7	23.80
		ANT2	-1.4	25.7	**24.30**
		ANT1	-5.7	25.7	20.00
LTE Band 66	1710 - 1780	ANT3	-3.90	25.7	21.80
		ANT4	-2.10	25.7	23.60
		ANT2	-1.50	25.7	**24.20**
		ANT1	-6.50	25.7	19.20
5G NR n66	1710 - 1780	ANT3	-3.90	25.7	21.80
		ANT4	-2.10	25.7	23.60
		ANT2	-1.50	25.7	**24.20**
		ANT1	-6.50	25.7	19.20

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6.5. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- LTE Band 4
- LTE Band 66, 5G NR n66

LTE Band 4 (1710-1755MHz, 5/10/15/20MHz bandwidth) is covered by LTE Band 66 because it is a subset of LTE band 66 and they have same output power.

For 5G NRs, conducted spurious emission tests were conducted on wider bandwidth with inner 1RB since this is the worst bandwidth and the highest output power.

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.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and BPSK were observed as the worst mode to LTE bands and 5G NR bands respectively and set for all conducted and radiated. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on section 9 were measured while QPSK/BPSK was set at or above target power for all bands. Conducted tests were performed on the worst-case antenna port because it has the highest conducted power. The worst-case antenna port is shown in the table below.

LTE and 5G NR Bands	Worst case Antenna Port
LTE Band 66 and 5G NR n66	Ant 3

The EUT was investigated in three orthogonal orientations X/Y/Z on all available antennas to determine the worst-case orientation. The following table exhibits the worst-case orientation. The full tests of the EUT have made upon the orientations that shown in the table below.

Frequency Range	ANT3	ANT4	ANT2	ANT1
1710 – 1915 MHz	Y	X	Y	Y

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GHz WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

6.6. DESCRIPTION OF TEST SETUP

Refer to Appendix A for description of test setup.

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7. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Asset**	**Cal Due**
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	230297	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	223084	2026-12-31
RF Filter Box, 1-18GHz	UL-FR1	NA	231875	2025-11-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	170063	2026-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	230297	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231912	2026-04-30
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	171863	2026-11-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172353	2025-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2026-04-29
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	259079	2026-02-28
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262734	2026-04-30
Wideband Communication Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	85943	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262742	2027-02-11
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262741	2027-02-11
Conducted Switch Box	N/A	CSB	221008	2026-04-30
Conducted Switch Box	N/A	CSB	262354	2026-04-30
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2025-09-30
Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	CLT	Ver.2023 11.21.0 & .2024.3.20.0	
Conducted Software	UL	Power Measurement	Ver 2023.08.14	
Conducted Software	UL	Antenna Port	Ver.2022.8.16	
Conducted Software	UL	Station Tool	Ver. 5.0,	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.

The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULTS

EUT has different power levels for head use configuration and body use configuration. All measurements are made with the device operating at the highest average conducted output powers.

8.1. LTE BAND 66

Test Engineer ID:	39004	Test Date:	2025-01-27

OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
				1710.7	1745.0	1779.3	1710.7	1745.0	1779.3	1710.7	1745.0	1779.3	1710.7	1745.0	1779.3
1.4	QPSK	1	0	25.63	25.60	25.62	25.40	**25.70**	25.64	25.56	**25.70**	25.63	**25.70**	25.63	25.61
		1	2	**25.70**	**25.70**	**25.70**	25.45	25.61	**25.70**	25.58	25.69	**25.70**	25.61	**25.70**	**25.70**
		1	5	25.66	25.57	25.63	25.50	25.59	25.64	25.62	25.68	25.65	25.56	25.63	25.54
		3	0	25.62	25.56	25.56	25.57	25.59	25.61	25.66	25.62	25.58	25.59	25.59	25.54
		3	1	25.64	25.61	25.61	**25.70**	25.56	25.60	25.65	25.66	25.58	25.66	25.57	25.56
		3	2	25.62	25.55	25.61	24.97	25.60	25.65	**25.70**	25.59	25.61	25.63	25.57	25.57
		6	0	25.51	25.43	25.37	24.79	25.42	25.40	25.50	25.45	25.40	25.47	25.44	25.38
	16QAM	1	0	25.60	25.59	25.50	24.86	25.67	**25.68**	**25.69**	**25.69**	25.66	**25.69**	25.57	25.55
		1	2	25.68	**25.69**	25.55	24.95	25.67	**25.68**	25.60	25.65	**25.69**	25.60	25.63	25.60
		1	5	25.66	25.66	25.61	24.87	25.55	25.67	25.52	25.60	25.64	25.56	25.61	25.52
		3	0	25.59	25.56	25.51	24.86	25.57	25.55	25.62	25.53	25.58	25.58	25.57	25.55
		3	1	25.62	25.55	25.49	24.82	25.55	25.52	25.62	25.60	25.60	25.63	25.58	25.55
		3	2	**25.69**	25.54	25.56	24.80	25.55	25.55	25.56	25.55	25.62	25.57	25.57	25.47
		6	0	24.59	24.51	24.44	23.79	24.48	24.49	24.51	24.50	24.44	24.52	24.50	24.47
	64QAM	1	0	24.76	24.71	24.77	24.12	24.80	24.78	24.76	24.70	24.67	24.82	24.79	24.71
		1	2	24.83	24.71	24.87	24.24	24.81	**24.81**	**24.89**	24.82	24.84	24.84	24.75	24.69
		1	5	**24.87**	24.57	24.73	24.13	24.81	24.78	24.84	24.59	24.72	24.80	**24.86**	24.68
		3	0	24.76	24.65	24.72	24.03	24.71	24.71	24.73	24.67	24.68	24.74	24.66	24.61
		3	1	24.75	24.64	24.70	23.97	24.69	24.66	24.70	24.69	24.71	24.61	24.69	24.57
		3	2	24.78	24.65	24.67	23.98	24.64	24.73	24.65	24.78	24.67	24.70	24.77	24.69
		6	0	23.57	23.57	23.49	22.87	23.56	23.55	23.62	23.57	23.51	23.59	23.58	23.53
	256QAM	1	0	21.57	21.53	21.59	20.91	21.60	21.59	21.60	21.71	21.59	21.62	21.56	21.49
		1	2	**21.77**	21.54	21.61	21.01	21.64	**21.76**	21.65	**21.75**	**21.75**	21.64	21.68	21.64
		1	5	21.70	21.56	21.62	20.88	21.57	21.66	21.55	21.65	21.53	**21.69**	21.66	21.57
		3	0	21.65	21.56	21.51	20.97	21.62	21.52	21.58	21.65	21.54	21.61	21.64	21.55
		3	1	21.71	21.57	21.62	20.90	21.62	21.53	21.56	21.64	21.62	21.62	21.66	21.56
		3	2	21.67	21.54	21.61	20.95	21.61	21.63	21.62	21.63	21.65	21.61	21.60	21.56
		6	0	21.54	21.45	21.36	20.80	21.42	21.46	21.48	21.50	21.45	21.52	21.46	21.45

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
				1711.5	1745.0	1778.5	1711.5	1745.0	1778.5	1711.5	1745.0	1778.5	1711.5	1745.0	1778.5
3.0	QPSK	1	0	25.44	25.58	25.60	25.53	25.58	25.52	25.59	25.62	25.60	25.57	25.57	25.59
		1	7	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**
		1	14	25.60	25.44	25.50	25.45	25.53	25.48	25.58	25.53	25.54	25.50	25.53	25.56
		8	0	25.39	25.45	25.46	25.40	25.45	25.34	25.47	25.45	25.44	25.45	25.46	25.38
		8	4	25.45	25.46	25.51	25.41	25.44	25.45	25.49	25.45	25.48	25.44	25.48	25.39
		8	7	25.49	25.42	25.49	25.40	25.42	25.44	25.48	25.47	25.49	25.43	25.48	25.38
		15	0	25.42	25.41	25.44	25.35	25.40	25.39	25.47	25.44	25.40	25.43	25.43	25.37
	16QAM	1	0	25.43	25.56	25.55	25.40	25.52	25.53	25.56	25.49	25.52	25.57	25.55	25.55
		1	7	25.50	25.48	**25.62**	25.61	**25.64**	25.61	**25.64**	25.61	**25.64**	25.62	**25.68**	25.63
		1	14	25.52	25.42	25.43	25.44	25.51	25.43	25.52	25.51	25.52	25.50	25.48	25.52
		8	0	24.43	24.49	24.49	24.42	24.47	24.38	24.55	24.50	24.48	24.49	24.49	24.42
		8	4	24.51	24.48	24.56	24.42	24.51	24.46	24.56	24.54	24.48	24.51	24.51	24.42
		8	7	24.51	24.45	24.53	24.45	24.48	24.46	24.54	24.52	24.47	24.49	24.52	24.47
		15	0	24.43	24.42	24.47	24.35	24.42	24.38	24.49	24.45	24.44	24.42	24.45	24.39
	64QAM	1	0	24.46	24.63	24.67	24.60	24.71	24.57	24.65	24.65	24.64	24.55	24.70	24.58
		1	7	24.71	24.77	**24.79**	24.80	**24.84**	24.79	24.78	**24.89**	24.66	24.77	24.74	**24.83**
		1	14	24.64	24.58	24.53	24.53	24.56	24.57	24.69	24.71	24.54	24.53	24.65	24.57
		8	0	23.42	23.50	23.51	23.47	23.49	23.40	23.57	23.58	23.51	23.50	23.52	23.46
		8	4	23.46	23.52	23.54	23.49	23.53	23.50	23.55	23.61	23.46	23.55	23.54	23.43
		8	7	23.49	23.48	23.54	23.50	23.51	23.49	23.52	23.61	23.48	23.49	23.54	23.36
		15	0	23.43	23.45	23.49	23.41	23.49	23.44	23.56	23.55	23.41	23.43	23.49	23.31
	256QAM	1	0	21.35	21.44	21.50	21.38	21.49	21.34	21.53	21.52	21.42	21.46	21.49	21.37
		1	7	21.57	21.59	**21.60**	21.60	**21.64**	21.59	**21.67**	21.66	21.51	21.65	**21.68**	21.58
		1	14	21.49	21.38	21.43	21.38	21.45	21.35	21.49	21.51	21.38	21.41	21.48	21.41
		8	0	21.38	21.48	21.51	21.40	21.46	21.36	21.53	21.53	21.40	21.45	21.45	21.32
		8	4	21.44	21.46	21.52	21.46	21.50	21.45	21.57	21.59	21.47	21.49	21.51	21.33
		8	7	21.47	21.47	21.47	21.45	21.48	21.46	21.56	21.55	21.42	21.47	21.51	21.33
		15	0	21.40	21.43	21.46	21.39	21.46	21.41	21.51	21.49	21.40	21.49	21.46	21.29

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
				1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
5.0	QPSK	1	0	25.49	**25.70**	25.63	25.59	25.59	25.68	25.67	25.66	25.69	25.64	25.67	25.68
		1	12	**25.70**	25.62	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**
		1	24	25.69	25.61	25.56	25.62	25.60	25.61	25.66	25.60	25.65	25.64	25.68	25.69
		12	0	25.33	25.43	25.38	25.37	25.35	25.38	25.44	25.44	25.41	25.47	25.43	25.45
		12	6	25.45	25.43	25.37	25.45	25.42	25.39	25.49	25.49	25.43	25.52	25.49	25.51
		12	11	25.43	25.39	25.38	25.39	25.37	25.43	25.46	25.45	25.41	25.43	25.44	25.43
		25	0	25.38	25.39	25.33	25.38	25.35	25.36	25.42	25.43	25.40	25.45	25.41	25.43
	16QAM	1	0	25.40	25.59	25.20	25.55	25.60	25.59	25.66	25.64	25.64	**25.69**	25.51	25.66
		1	12	25.60	25.59	25.20	**25.69**	25.63	**25.69**	**25.69**	**25.69**	25.66	25.64	**25.69**	25.67
		1	24	25.10	25.57	**25.66**	25.60	25.56	25.63	25.68	25.56	25.61	25.62	25.62	25.62
		12	0	24.37	24.48	24.38	24.44	24.40	24.39	24.46	24.44	24.39	24.49	24.43	24.49
		12	6	24.46	24.48	24.38	24.49	24.44	24.45	24.48	24.48	24.44	24.54	24.48	24.49
		12	11	24.50	24.44	24.40	24.44	24.40	24.49	24.45	24.44	24.45	24.48	24.40	24.45
		25	0	24.45	24.38	24.31	24.38	24.35	24.38	24.45	24.44	24.36	24.43	24.41	24.43
	64QAM	1	0	24.47	**24.89**	24.78	24.70	24.65	**24.77**	24.60	24.70	24.75	**24.90**	24.72	24.66
		1	12	24.72	24.81	24.80	24.76	24.65	24.70	24.68	24.75	**24.77**	**24.90**	24.77	24.68
		1	24	24.81	24.79	24.61	24.67	24.65	24.71	24.63	24.68	24.65	24.78	24.71	24.63
		12	0	23.31	23.47	23.43	23.45	23.43	23.48	23.50	23.47	23.38	23.44	23.40	23.44
		12	6	23.48	23.51	23.47	23.50	23.44	23.54	23.48	23.54	23.40	23.50	23.45	23.48
		12	11	23.47	23.42	23.46	23.44	23.38	23.53	23.46	23.48	23.42	23.41	23.40	23.41
		25	0	23.44	23.41	23.36	23.39	23.38	23.41	23.46	23.45	23.39	23.47	23.44	23.39
	256QAM	1	0	21.33	21.53	21.43	21.46	21.50	21.47	21.49	21.49	21.53	21.56	21.51	21.52
		1	12	21.62	**21.67**	21.62	21.61	21.58	**21.75**	21.63	**21.71**	21.68	21.61	21.59	**21.63**
		1	24	21.59	21.47	21.42	21.47	21.48	21.55	21.48	21.55	21.56	21.48	21.52	21.47
		12	0	21.33	21.46	21.32	21.38	21.40	21.41	21.41	21.46	21.42	21.45	21.41	21.37
		12	6	21.44	21.48	21.36	21.42	21.42	21.45	21.50	21.49	21.47	21.50	21.44	21.42
		12	11	21.44	21.38	21.38	21.39	21.42	21.47	21.46	21.42	21.51	21.47	21.41	21.35
		25	0	21.39	21.39	21.31	21.37	21.39	21.42	21.44	21.43	21.47	21.45	21.42	21.35

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
				1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
10.0	QPSK	1	0	25.25	**25.70**	25.51	**25.70**	25.69	**25.70**	25.67	25.63	25.68	**25.70**	25.66	25.63
		1	24	25.61	25.48	**25.70**	25.69	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	25.65	**25.70**	25.66
		1	49	**25.70**	25.44	25.53	25.57	25.63	25.58	25.59	25.60	25.50	25.55	25.64	25.53
		25	0	25.24	25.44	25.37	25.52	25.51	25.44	25.51	25.49	25.42	25.50	25.55	25.41
		25	12	25.39	25.41	25.40	25.51	25.50	25.54	25.52	25.51	25.44	25.55	25.55	25.47
		25	24	25.46	25.36	25.45	25.48	25.52	25.51	25.49	25.50	25.47	25.48	25.53	25.46
		50	0	25.38	25.37	25.37	25.48	25.47	25.49	25.50	25.45	25.41	25.51	25.52	25.47
	16QAM	1	0	25.16	25.58	25.44	25.61	25.58	**25.66**	25.63	25.59	25.64	25.65	25.65	25.61
		1	24	25.52	25.41	**25.64**	25.65	25.66	25.62	**25.68**	25.62	25.61	25.63	25.50	**25.66**
		1	49	25.53	25.42	25.50	25.55	25.57	**25.66**	25.52	25.52	25.46	25.47	25.57	25.50
		25	0	24.26	24.47	24.38	24.54	24.51	24.49	24.53	24.49	24.46	24.55	24.54	24.42
		25	12	24.41	24.39	24.43	24.53	24.53	24.54	24.53	24.54	24.44	24.57	24.58	24.52
		25	24	24.50	24.39	24.48	24.51	24.49	24.51	24.55	24.48	24.47	24.52	24.53	24.49
		50	0	24.37	24.38	24.37	24.49	24.47	24.55	24.51	24.48	24.42	24.51	24.54	24.50
	64QAM	1	0	24.32	24.64	24.60	24.73	24.73	24.68	24.70	24.64	24.62	**24.76**	24.68	24.66
		1	24	24.68	24.65	**24.81**	**24.83**	24.81	24.66	24.71	**24.72**	24.66	24.71	24.71	24.58
		1	49	24.80	24.51	24.68	24.70	24.71	24.65	24.60	24.63	24.48	24.56	24.68	24.49
		25	0	23.28	23.46	23.43	23.54	23.55	23.50	23.48	23.54	23.45	23.52	23.58	23.39
		25	12	23.45	23.46	23.44	23.56	23.57	23.59	23.56	23.52	23.44	23.53	23.57	23.45
		25	24	23.52	23.37	23.52	23.52	23.54	23.55	23.49	23.49	23.48	23.50	23.57	23.39
		50	0	23.40	23.38	23.39	23.51	23.54	23.57	23.53	23.46	23.39	23.52	23.55	23.42
	256QAM	1	0	21.15	21.54	21.47	21.55	21.54	21.56	21.55	21.50	21.54	21.58	**21.65**	21.50
		1	24	21.53	21.55	**21.63**	21.58	**21.68**	21.60	21.61	**21.62**	21.60	21.63	21.60	21.57
		1	49	21.60	21.46	21.48	21.52	21.59	21.49	21.56	21.55	21.46	21.51	21.56	21.36
		25	0	21.25	21.40	21.38	21.51	21.53	21.48	21.50	21.51	21.42	21.50	21.51	21.34
		25	12	21.42	21.41	21.44	21.48	21.53	21.56	21.49	21.51	21.42	21.52	21.57	21.43
		25	24	21.51	21.35	21.50	21.49	21.50	21.52	21.51	21.47	21.47	21.51	21.52	21.35
		50	0	21.39	21.37	21.39	21.50	21.50	21.57	21.55	21.47	21.40	21.48	21.54	21.40

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
				1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
15.0	QPSK	1	0	25.31	25.61	25.33	**25.70**	**25.70**	25.67	25.69	**25.70**	**25.70**	**25.70**	25.65	25.68
		1	37	25.66	**25.70**	**25.70**	25.62	25.60	25.63	**25.70**	25.63	25.65	25.54	**25.70**	25.63
		1	74	**25.70**	25.37	25.62	25.52	25.59	25.59	25.53	25.48	25.58	25.45	25.63	25.52
		36	0	25.23	25.33	25.26	25.39	25.50	25.42	25.44	25.38	25.42	25.43	25.49	25.41
		36	16	25.46	25.24	25.48	25.44	25.48	25.39	25.46	25.44	25.49	25.40	25.49	25.39
		36	35	25.54	25.19	25.51	25.42	25.43	25.43	25.43	25.40	25.44	25.34	25.47	25.43
		75	0	25.41	25.23	25.38	25.40	25.44	25.33	25.41	25.38	25.42	25.36	25.43	25.32
	16QAM	1	0	25.26	25.50	25.37	**25.66**	25.60	25.60	25.60	25.66	25.60	25.50	25.50	25.50
		1	37	25.60	25.45	25.50	25.60	25.60	**25.66**	25.59	25.66	25.50	25.61	25.50	**25.64**
		1	74	**25.63**	25.43	25.60	25.53	25.50	25.64	25.48	25.51	**25.67**	25.46	25.64	25.55
		36	0	24.23	24.28	24.28	24.42	24.51	24.43	24.50	24.39	24.44	24.43	24.48	24.43
		36	16	24.49	24.28	24.49	24.45	24.48	24.44	24.50	24.45	24.52	24.42	24.50	24.43
		36	35	24.55	24.21	24.52	24.43	24.46	24.45	24.47	24.40	24.47	24.38	24.49	24.45
		75	0	24.42	24.26	24.42	24.40	24.47	24.39	24.45	24.42	24.45	24.36	24.48	24.37
	64QAM	1	0	24.37	24.73	24.46	24.72	24.72	**24.75**	**24.86**	24.78	24.82	24.74	24.76	24.83
		1	37	24.81	24.54	24.80	24.71	24.66	24.74	24.72	24.76	24.82	24.71	**24.87**	24.79
		1	74	**24.82**	24.48	24.73	24.52	24.59	24.66	24.68	24.70	24.72	24.55	24.74	24.82
		36	0	23.25	23.32	23.27	23.41	23.54	23.46	23.50	23.39	23.45	23.43	23.51	23.46
		36	16	23.51	23.25	23.48	23.47	23.53	23.43	23.49	23.45	23.51	23.40	23.53	23.45
		36	35	23.58	23.22	23.52	23.46	23.50	23.49	23.46	23.41	23.46	23.32	23.49	23.44
		75	0	23.45	23.26	23.45	23.46	23.51	23.41	23.48	23.44	23.49	23.38	23.47	23.43
	256QAM	1	0	21.20	21.52	21.22	21.56	21.55	21.61	21.49	21.53	**21.63**	21.51	21.46	**21.68**
		1	37	21.55	21.34	**21.62**	21.61	21.61	**21.63**	21.62	21.60	21.62	21.45	21.49	21.61
		1	74	21.55	21.28	21.55	21.43	21.55	21.56	21.44	21.43	21.54	21.37	21.44	21.53
		36	0	21.24	21.32	21.27	21.37	21.53	21.44	21.50	21.38	21.44	21.41	21.40	21.46
		36	16	21.48	21.21	21.50	21.46	21.51	21.42	21.50	21.43	21.48	21.41	21.41	21.42
		36	35	21.54	21.21	21.49	21.42	21.48	21.46	21.43	21.41	21.45	21.33	21.38	21.46
		75	0	21.45	21.25	21.43	21.44	21.48	21.39	21.47	21.44	21.44	21.37	21.38	21.40

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
				1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
20.0	QPSK	1	0	25.13	**25.70**	25.08	25.64	25.64	**25.70**	25.65	25.62	25.63	**25.70**	25.65	25.67
		1	49	**25.70**	25.35	25.64	**25.70**	25.66	25.64	**25.70**	25.68	**25.70**	25.66	**25.70**	25.60
		1	99	25.42	25.42	**25.70**	25.59	25.58	25.61	25.60	25.48	25.49	25.50	25.63	25.52
		50	0	25.35	25.28	25.20	25.57	25.47	25.49	25.50	25.47	25.42	25.54	25.57	25.41
		50	24	25.47	25.23	25.50	25.56	25.53	25.53	25.58	25.53	25.45	25.51	25.55	25.38
		50	49	25.44	25.16	25.56	25.48	25.49	25.46	25.49	25.47	25.39	25.42	25.52	25.40
		100	0	25.37	25.26	25.40	25.53	25.50	25.48	25.51	25.49	25.43	25.48	25.52	25.33
	16QAM	1	0	25.13	25.51	25.13	**25.68**	25.67	25.67	25.65	**25.69**	25.50	25.55	25.65	25.51
		1	49	25.50	25.37	25.56	25.67	25.57	25.58	25.59	25.50	25.61	25.56	**25.69**	25.58
		1	99	25.39	25.36	**25.57**	25.62	25.60	25.59	25.56	25.54	25.50	25.41	25.63	25.46
		50	0	24.32	24.30	24.21	24.58	24.45	24.48	24.49	24.47	24.39	24.54	24.56	24.42
		50	24	24.48	24.27	24.49	24.54	24.52	24.52	24.54	24.53	24.48	24.54	24.56	24.36
		50	49	24.43	24.18	24.57	24.49	24.47	24.45	24.49	24.47	24.41	24.44	24.53	24.38
		100	0	24.37	24.28	24.40	24.53	24.47	24.48	24.52	24.49	24.43	24.48	24.53	24.34
	64QAM	1	0	24.16	24.74	24.24	**24.89**	24.71	24.80	24.71	24.74	**24.75**	24.72	24.73	24.79
		1	49	24.65	24.45	24.80	24.86	24.77	24.65	24.74	24.69	24.70	24.70	**24.81**	24.66
		1	99	24.37	24.43	**24.82**	24.76	24.70	24.63	24.60	24.52	24.60	24.57	24.69	24.60
		50	0	23.31	23.31	23.19	23.59	23.48	23.46	23.49	23.49	23.40	23.57	23.56	23.41
		50	24	23.49	23.23	23.52	23.55	23.57	23.51	23.55	23.54	23.45	23.52	23.55	23.37
		50	49	23.44	23.20	23.58	23.51	23.49	23.44	23.52	23.49	23.37	23.41	23.52	23.37
		100	0	23.37	23.29	23.42	23.54	23.51	23.50	23.54	23.50	23.45	23.51	23.55	23.32
	256QAM	1	0	21.11	21.58	20.98	21.53	21.50	21.57	21.57	21.52	21.54	21.52	21.59	21.50
		1	49	21.54	21.30	21.56	21.57	**21.63**	21.60	**21.74**	21.69	21.59	21.62	**21.67**	21.58
		1	99	21.44	21.33	**21.60**	21.50	21.47	21.51	21.57	21.51	21.44	21.53	21.61	21.38
		50	0	21.28	21.28	21.15	21.53	21.46	21.46	21.49	21.48	21.40	21.54	21.57	21.41
		50	24	21.46	21.23	21.46	21.54	21.52	21.50	21.53	21.54	21.43	21.51	21.57	21.34
		50	49	21.44	21.17	21.55	21.48	21.47	21.44	21.48	21.45	21.37	21.44	21.52	21.35
		100	0	21.34	21.28	21.40	21.54	21.51	21.47	21.51	21.49	21.41	21.46	21.55	21.32

8.2. 5G NR n66

Test Engineer ID:	32894	Test Date:	2024-12-09

OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				342500	349000	355500	342500	349000	355500	342500	349000	355500	342500	349000	355500
				1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
5.0	BPSK	1	0	24.89	25.04	25.09	25.01	24.97	25.05	24.91	25.05	25.02	25.09	25.04	25.02
		1	1	25.48	25.60	25.64	25.49	25.57	25.59	25.49	25.60	25.54	**25.70**	25.53	25.58
		1	23	25.52	25.56	25.60	25.50	25.57	25.57	25.52	25.54	25.55	25.62	25.55	25.56
		1	24	25.00	25.12	25.11	25.02	25.02	25.04	25.06	25.05	25.04	25.07	25.01	25.03
		12	6	**25.70**	**25.70**	**25.70**	25.68	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	25.69	**25.70**	**25.70**
		25	0	25.00	25.05	25.01	25.02	25.02	25.06	25.04	25.04	24.99	25.05	24.96	25.02
	QPSK	1	0	24.58	24.57	24.52	24.54	24.57	24.57	24.60	24.54	24.54	24.63	24.55	24.58
		1	1	25.58	25.64	25.61	25.60	25.55	25.62	25.59	25.58	25.55	25.66	25.59	25.60
		1	23	25.54	25.59	25.65	25.59	25.59	25.63	25.62	25.55	25.60	25.57	25.58	25.61
		1	24	24.54	24.51	24.56	24.54	24.55	24.57	24.64	24.48	24.55	24.58	24.57	24.57
		12	6	**25.68**	**25.68**	**25.68**	25.66	25.63	**25.67**	25.65	**25.68**	25.66	**25.69**	25.68	25.68
		25	0	24.61	24.58	24.49	24.62	24.57	24.60	24.59	24.56	24.57	24.61	24.56	24.55
	16QAM	1	0	23.48	23.47	23.55	23.50	23.51	23.55	23.49	23.54	23.49	23.41	23.48	23.49
		1	1	24.52	24.52	**24.54**	24.55	24.50	24.50	24.55	24.47	24.41	**24.55**	24.50	24.48
		1	23	24.45	24.46	24.53	24.59	24.47	24.47	**24.56**	24.52	24.47	24.45	24.42	24.48
		1	24	23.41	23.42	23.52	23.58	23.43	23.92	23.61	23.41	23.42	23.42	23.40	23.45
		12	6	24.44	24.45	24.47	24.52	24.42	**25.00**	**24.56**	24.48	24.45	24.49	24.44	24.43
		25	0	23.48	23.44	23.53	23.53	23.43	23.99	23.53	23.44	23.46	23.45	23.42	23.46
	64QAM	1	0	22.93	22.92	23.00	23.06	22.89	23.47	22.98	22.93	22.90	23.01	22.96	22.89
		1	1	22.89	22.97	23.01	23.10	22.90	23.46	23.02	22.92	23.00	23.02	22.96	22.95
		1	23	22.91	23.02	22.99	23.04	22.94	**23.49**	**23.10**	22.90	22.98	**23.03**	22.96	22.97
		1	24	23.03	22.96	22.96	23.02	22.85	**23.49**	**23.10**	22.85	22.88	22.89	22.93	22.98
		12	6	23.02	23.03	22.99	22.99	22.89	**23.49**	23.05	22.96	22.94	22.93	22.89	22.92
		25	0	22.95	**23.04**	22.97	22.97	22.92	23.46	23.01	22.94	22.93	22.95	22.89	22.94
	256QAM	1	0	21.16	**21.21**	21.08	21.15	21.06	21.58	21.12	21.14	21.11	21.12	21.08	21.07
		1	1	21.15	21.18	21.12	21.16	21.17	21.61	21.17	21.20	21.12	21.13	21.12	21.06
		1	23	21.17	21.14	21.13	21.12	21.16	**21.65**	21.18	21.13	**21.22**	21.14	21.08	21.08
		1	24	21.07	21.15	21.09	21.19	21.08	21.60	21.13	21.16	21.20	21.09	21.14	21.11
		12	6	21.14	21.18	21.14	21.12	21.18	21.62	21.15	21.08	21.15	21.13	21.08	21.09
		25	0	21.08	**21.21**	21.10	20.21	21.17	21.59	21.15	21.18	21.18	**21.18**	21.04	21.11

OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				343000	349000	355000	343000	349000	355000	343000	349000	355000	343000	349000	355000
				1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
10.0	BPSK	1	0	25.11	25.04	25.03	25.06	25.06	25.05	25.08	25.06	25.02	25.06	25.08	25.02
		1	1	**25.70**	**25.70**	25.60	25.63	**25.69**	25.65	**25.70**	25.65	25.62	**25.70**	25.65	25.57
		1	50	25.66	25.64	**25.70**	25.63	25.65	25.58	25.68	25.61	**25.70**	25.63	25.65	**25.70**
		1	51	25.03	25.01	25.04	25.01	25.06	24.99	25.06	24.97	25.03	24.98	24.97	25.05
		25	12	25.65	25.64	25.57	25.64	25.67	25.61	25.66	25.59	25.64	25.66	25.61	25.54
		50	0	25.10	25.06	25.01	25.12	25.08	25.07	25.11	25.05	25.09	25.10	25.06	24.97
	QPSK	1	0	24.60	24.55	24.46	24.53	24.65	24.57	24.52	24.53	24.57	24.62	24.53	24.45
		1	1	25.60	25.62	25.59	25.58	**25.66**	25.57	25.64	25.57	25.63	**25.68**	25.63	25.59
		1	50	25.65	25.57	25.66	25.60	25.60	25.63	25.64	25.55	**25.68**	25.64	25.57	25.63
		1	51	24.54	24.48	24.55	24.57	24.57	24.49	24.57	24.42	24.52	24.53	24.41	24.54
		25	12	**25.67**	25.65	25.65	25.61	25.58	25.56	25.64	25.63	25.64	25.64	25.55	25.64
		50	0	24.60	24.52	24.51	24.56	24.63	24.59	24.61	24.58	24.57	24.58	24.51	24.55
	16QAM	1	0	23.46	23.48	23.43	23.44	23.47	23.52	23.46	23.38	23.43	23.57	23.48	23.39
		1	1	**24.57**	24.40	24.31	**24.59**	24.43	24.56	24.46	**24.54**	24.36	24.48	24.41	24.42
		1	50	24.39	24.48	24.47	24.48	24.54	24.41	24.48	24.42	24.41	**24.49**	24.43	24.45
		1	51	23.43	23.52	23.34	23.48	23.49	23.36	23.50	23.43	23.46	23.41	23.41	23.34
		25	12	24.55	24.47	24.47	24.52	24.53	24.50	24.51	24.46	24.42	**24.49**	24.44	24.41
		50	0	23.49	23.48	23.50	23.51	23.49	23.45	23.53	23.51	23.40	23.49	23.45	23.44
	64QAM	1	0	**23.03**	22.85	22.97	**23.10**	22.99	22.99	22.95	23.01	22.87	22.97	22.96	22.78
		1	1	23.02	22.94	23.00	22.94	23.08	22.93	**23.06**	23.03	23.01	23.00	22.93	22.91
		1	50	23.01	22.92	22.89	22.90	22.99	23.02	22.91	22.81	22.96	22.92	**23.03**	22.94
		1	51	22.97	22.96	22.97	22.90	22.98	22.87	22.91	22.82	22.89	22.96	22.94	22.80
		25	12	22.94	22.98	22.96	22.95	22.96	22.94	22.96	22.97	22.94	22.95	22.96	22.90
		50	0	22.99	22.95	22.97	22.96	22.96	22.95	22.98	22.95	22.95	22.96	22.93	22.91
	256QAM	1	0	21.17	21.16	21.11	21.24	21.23	21.19	21.14	21.26	21.16	21.28	21.14	21.15
		1	1	21.16	21.19	21.18	21.15	**21.29**	21.17	**21.30**	21.17	21.21	21.17	**21.32**	21.22
		1	50	21.19	21.20	21.23	21.27	21.17	21.15	21.14	21.16	21.18	21.19	21.19	21.11
		1	51	21.25	21.12	21.22	21.24	21.23	21.02	21.23	21.04	21.18	21.11	21.18	21.15
		25	12	21.21	21.22	21.17	21.18	21.24	21.20	21.22	21.18	21.10	21.19	21.23	21.19
		50	0	21.21	**21.27**	21.20	21.23	21.22	21.16	21.21	21.21	21.17	21.17	21.30	21.13

OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				343500	349000	354500	343500	349000	354500	343500	349000	354500	343500	349000	354500
				1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
15.0	BPSK	1	0	25.00	25.06	25.04	25.11	25.06	25.12	25.12	25.02	25.04	25.14	25.05	25.08
		1	1	25.69	25.69	25.56	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	25.65	25.68	**25.70**	25.66
		1	77	**25.70**	**25.70**	**25.70**	25.66	25.56	25.62	25.61	25.50	**25.70**	25.63	25.56	**25.70**
		1	78	24.96	24.99	25.08	25.08	24.98	25.09	25.04	24.90	25.08	25.03	24.93	25.10
		36	18	25.59	25.58	25.53	25.64	25.60	25.62	25.66	25.62	25.62	25.60	25.54	25.64
		75	0	24.92	24.94	24.90	24.90	24.89	25.02	25.02	24.98	24.97	24.96	24.94	25.01
	QPSK	1	0	24.64	24.56	24.47	24.56	24.52	24.55	24.61	24.54	24.60	24.55	24.54	24.58
		1	1	**25.68**	**25.68**	25.62	25.64	25.66	25.67	**25.69**	25.62	25.68	25.66	**25.68**	25.65
		1	77	25.57	25.63	25.60	25.67	25.61	25.60	25.68	25.56	25.64	25.62	25.56	**25.68**
		1	78	24.49	24.43	24.54	24.58	24.48	24.55	24.57	24.48	24.52	24.46	24.48	24.55
		36	18	25.58	25.61	25.53	25.65	25.54	**25.68**	25.64	25.59	25.62	25.56	25.56	25.63
		75	0	24.45	24.47	24.42	24.49	24.43	24.58	24.58	24.51	24.52	24.44	24.47	24.50
	16QAM	1	0	23.37	23.58	23.38	23.45	23.42	23.49	23.52	23.39	23.61	23.63	23.42	23.41
		1	1	24.52	**24.55**	24.37	**24.49**	24.48	24.48	**24.50**	24.41	24.47	24.41	24.35	24.54
		1	77	24.50	24.36	24.44	24.47	24.27	**24.49**	24.45	24.30	24.49	**24.55**	24.51	24.49
		1	78	23.36	23.33	23.41	23.40	23.43	23.50	23.50	23.34	23.46	23.38	23.44	23.52
		36	18	24.36	24.38	24.27	24.37	24.30	24.44	24.49	24.27	24.41	24.31	24.36	24.40
		75	0	23.37	23.42	23.30	23.45	23.29	23.45	23.45	23.30	23.39	23.42	23.40	23.44
	64QAM	1	0	22.90	**23.07**	22.89	22.91	22.94	23.07	23.00	22.92	23.02	22.91	23.01	22.99
		1	1	22.94	23.05	23.01	23.04	22.90	**23.17**	**23.08**	22.86	22.95	23.01	22.88	22.99
		1	77	22.90	22.90	22.94	22.91	22.87	23.06	22.96	22.76	22.90	**23.05**	22.84	22.84
		1	78	22.82	22.80	22.94	22.95	22.89	23.02	23.01	22.82	22.95	22.91	22.87	22.83
		36	18	22.81	22.89	22.87	22.90	22.84	22.92	22.94	22.87	22.88	22.83	22.84	22.86
		75	0	22.80	22.88	22.92	22.91	22.83	22.92	22.96	22.90	22.90	22.85	22.88	22.89
	256QAM	1	0	21.13	**21.21**	21.10	21.21	21.14	21.17	21.23	21.20	21.13	**21.24**	21.16	21.15
		1	1	21.14	21.19	21.04	21.19	21.14	**21.25**	**21.30**	21.16	21.19	21.15	21.10	21.12
		1	77	21.09	21.11	21.18	21.07	21.07	21.15	21.12	21.09	21.08	21.17	21.04	21.21
		1	78	21.10	21.11	21.14	21.11	21.07	21.17	21.11	20.98	21.12	21.11	21.04	21.09
		36	18	20.99	21.07	21.06	21.05	20.99	21.11	21.11	21.05	21.03	21.10	21.00	21.11
		75	0	21.03	21.11	21.09	21.10	21.00	21.22	21.10	21.07	21.06	21.09	21.07	21.08

OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				344000	349000	354000	344000	349000	354000	344000	349000	354000	344000	349000	354000
				1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
20.0	BPSK	1	0	25.11	25.06	24.96	25.09	25.08	25.02	25.05	25.10	24.96	25.02	25.05	24.95
		1	1	25.61	**25.70**	**25.70**	**25.70**	**25.70**	25.54	25.58	**25.70**	25.57	**25.70**	**25.70**	**25.70**
		1	104	25.58	25.59	25.69	25.67	25.63	**25.70**	**25.70**	25.66	**25.70**	25.55	25.59	25.61
		1	105	25.03	25.08	25.07	25.08	25.00	25.02	25.04	25.06	24.99	24.99	25.00	25.03
		50	25	**25.70**	25.64	25.58	**25.70**	25.67	25.59	25.58	25.68	25.64	25.57	25.65	25.59
		100	0	25.13	25.19	25.08	25.20	25.12	25.11	25.12	25.19	25.17	25.10	25.15	25.06
	QPSK	1	0	24.57	24.61	24.47	24.51	24.55	24.54	24.47	24.58	24.54	24.53	24.53	24.47
		1	1	25.67	25.67	25.61	25.64	25.65	25.66	25.56	**25.68**	25.63	**25.68**	**25.68**	25.59
		1	104	25.60	25.65	**25.68**	**25.69**	25.68	25.68	25.61	25.63	**25.68**	25.56	25.64	25.60
		1	105	24.55	24.53	24.50	24.66	24.54	24.58	24.51	24.54	24.51	24.53	24.41	24.51
		50	25	25.65	25.64	25.58	25.63	25.63	25.62	**25.68**	25.67	25.64	25.60	25.65	**25.68**
		100	0	24.70	24.70	24.63	24.67	24.62	24.59	24.67	24.68	24.63	24.59	24.70	24.63
	16QAM	1	0	23.40	23.51	23.46	23.38	23.49	23.48	23.34	23.46	23.41	23.47	23.49	23.44
		1	1	24.43	24.41	24.47	24.34	24.48	24.47	24.35	**24.58**	24.42	24.49	24.42	**24.55**
		1	104	24.45	24.40	**24.55**	24.49	24.50	**24.51**	24.41	24.53	24.47	24.36	24.46	24.39
		1	105	23.54	23.38	23.55	23.39	23.51	23.46	23.47	23.53	23.56	23.39	23.44	23.40
		50	25	24.42	24.47	24.40	24.38	24.50	24.40	24.43	24.56	24.50	24.34	24.49	24.38
		100	0	23.43	23.48	23.42	23.46	23.38	23.38	23.44	23.59	23.47	23.42	23.49	23.42
	64QAM	1	0	22.86	**23.05**	22.92	22.89	22.92	22.81	22.90	22.98	22.94	23.01	23.09	22.88
		1	1	22.89	22.98	22.71	22.75	22.94	22.91	22.84	23.04	22.85	22.90	**23.10**	22.84
		1	104	22.97	22.88	22.90	22.86	22.99	22.97	22.83	22.87	22.89	22.87	22.84	22.92
		1	105	22.89	22.76	22.90	22.97	**23.00**	22.91	22.90	22.90	22.96	22.83	22.82	22.97
		50	25	22.98	22.96	22.87	22.94	22.97	22.95	22.93	23.05	22.97	22.88	22.95	22.86
		100	0	22.99	22.94	22.90	22.99	22.99	22.97	22.93	**23.07**	22.95	22.89	22.98	22.86
	256QAM	1	0	21.20	21.14	21.17	21.12	21.21	21.11	21.09	21.24	21.11	21.08	21.21	21.00
		1	1	21.15	21.03	21.03	21.19	21.20	20.97	21.03	21.22	21.15	21.04	**21.23**	20.97
		1	104	**21.27**	20.97	21.08	21.12	21.24	21.19	21.18	21.18	21.08	21.09	21.14	21.00
		1	105	21.10	20.95	21.11	21.17	**21.32**	21.14	**21.30**	21.06	21.19	21.17	21.01	21.00
		50	25	21.20	21.10	21.07	21.18	21.15	21.13	21.11	21.21	21.11	21.17	21.13	20.98
		100	0	21.13	21.14	21.07	21.12	21.21	21.15	21.08	21.22	21.10	21.15	21.14	21.05

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000 FAX: (510) 661-0888

OUTPUT POWER FOR 5G NR n66 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				344500	349000	353500	344500	349000	353500	344500	349000	353500	344500	349000	353500
				1722.5	1745.0	1767.5	1722.5	1745.0	1767.5	1722.5	1745.0	1767.5	1722.5	1745.0	1767.5
25.0	BPSK	1	0	25.08	25.13	25.02	25.12	25.04	25.11	25.10	24.99	25.12	24.95	24.98	25.03
		1	1	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**
		1	131	25.62	25.64	25.60	25.64	25.57	25.57	25.61	25.51	25.69	25.47	25.62	25.59
		1	132	25.03	25.07	25.03	25.00	25.04	24.95	24.95	24.98	25.11	24.86	25.00	24.98
		64	32	25.61	25.55	25.42	25.58	25.48	25.45	25.49	25.48	25.66	25.49	25.45	25.46
		128	0	25.08	24.92	24.87	24.99	24.93	24.91	24.97	24.91	25.10	24.88	24.88	24.91
	QPSK	1	0	24.66	24.58	24.48	24.60	24.54	24.59	24.60	24.53	24.53	24.55	24.50	24.62
		1	1	**25.68**	**25.68**	25.57	**25.66**	25.57	25.62	**25.68**	**25.68**	25.66	**25.68**	**25.68**	25.64
		1	131	25.61	25.66	25.55	25.56	25.43	25.56	25.56	25.56	25.63	25.51	25.62	25.61
		1	132	24.56	24.51	24.44	24.49	24.43	24.54	24.55	24.41	24.55	24.39	24.50	24.43
		64	32	25.56	25.56	25.48	25.55	25.50	25.50	25.51	25.47	25.60	25.51	25.44	25.50
		128	0	24.56	24.52	24.38	24.53	24.49	24.43	24.45	24.42	24.54	24.40	24.39	24.47
	16QAM	1	0	23.48	23.44	23.50	23.39	23.50	23.56	23.50	23.54	23.43	23.42	23.44	23.50
		1	1	**24.56**	24.53	24.29	24.40	**24.55**	24.32	24.46	**24.58**	24.55	**24.46**	24.45	24.39
		1	131	24.40	24.41	24.46	24.47	24.32	24.28	24.43	24.33	24.53	24.36	24.34	24.41
		1	132	23.46	23.47	23.24	23.41	23.19	23.29	23.39	23.37	23.56	23.31	23.45	23.40
		64	32	24.44	24.45	24.35	24.37	24.34	24.25	24.39	24.29	24.49	24.29	24.36	24.28
		128	0	23.47	23.49	23.36	23.39	23.34	23.27	23.40	23.28	23.45	23.33	23.35	23.27
	64QAM	1	0	23.02	23.00	22.88	**23.09**	22.92	22.98	22.91	22.97	22.84	22.90	22.91	**23.01**
		1	1	**23.08**	23.03	22.81	22.96	23.01	22.95	22.89	**23.10**	23.02	23.00	22.87	22.99
		1	131	22.93	22.94	22.97	22.82	22.94	23.00	22.77	22.84	22.96	22.64	22.78	22.98
		1	132	22.94	22.92	22.98	22.99	22.80	22.85	22.95	22.85	23.01	22.86	22.92	22.80
		64	32	22.96	22.92	22.86	22.88	22.84	22.81	22.90	22.77	22.92	22.76	22.85	22.74
		128	0	22.93	22.92	22.89	22.86	22.82	22.84	22.88	22.80	22.92	22.75	22.85	22.79
	256QAM	1	0	20.83	21.09	20.86	**21.00**	20.91	20.72	20.79	20.86	**21.05**	20.97	20.87	20.95
		1	1	**21.14**	21.03	20.95	20.88	20.81	20.90	20.98	20.84	21.02	**21.02**	20.87	20.95
		1	131	20.85	20.83	20.92	20.94	20.81	20.90	20.96	20.79	21.03	20.93	20.84	20.76
		1	132	20.84	20.77	20.83	20.99	20.83	20.85	20.77	20.79	20.94	20.82	20.75	20.90
		64	32	20.92	20.85	20.84	20.95	20.79	20.80	20.85	20.86	20.94	20.77	20.87	20.74
		128	0	20.93	20.90	20.83	20.91	20.78	20.82	20.85	20.81	20.96	20.74	20.88	20.78

OUTPUT POWER FOR 5G NR n66 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				345000	349000	353000	345000	349000	353000	345000	349000	353000	345000	349000	353000
				1725.0	1745.0	1765.0	1725.0	1745.0	1765.0	1725.0	1745.0	1765.0	1725.0	1745.0	1765.0
30.0	BPSK	1	0	25.02	25.02	25.02	25.11	25.08	25.05	25.03	25.17	25.01	25.08	25.05	24.98
		1	1	25.64	25.65	**25.70**	25.64	**25.70**	**25.70**	25.61	25.65	25.59	**25.70**	**25.70**	25.62
		1	158	**25.70**	**25.70**	25.66	**25.70**	25.63	25.67	**25.70**	**25.70**	**25.70**	25.54	25.49	**25.70**
		1	159	25.08	25.06	25.05	25.08	25.00	25.02	25.00	25.01	25.09	24.90	24.89	25.03
		80	40	25.60	25.53	25.48	25.59	25.52	25.53	25.47	25.63	25.59	25.43	25.49	25.50
		160	0	25.04	24.95	24.95	25.04	24.93	24.98	24.94	25.01	24.97	24.88	24.99	24.98
	QPSK	1	0	24.48	24.64	24.57	24.49	24.54	24.52	24.43	24.60	24.49	24.49	24.45	24.61
		1	1	25.68	25.65	25.64	**25.69**	25.68	25.63	25.65	25.63	25.58	25.60	25.59	**25.68**
		1	158	25.64	**25.69**	25.68	25.54	25.63	25.68	**25.68**	25.60	**25.68**	25.58	25.60	25.67
		1	159	24.65	24.61	24.52	24.50	24.49	24.68	24.43	24.48	24.66	24.53	24.49	24.59
		80	40	25.56	25.53	25.51	25.55	25.47	25.58	25.52	25.59	25.55	25.46	25.53	25.45
		160	0	24.57	24.46	24.45	24.55	24.44	24.54	24.52	24.51	24.45	24.38	24.47	24.44
	16QAM	1	0	23.45	23.56	23.47	23.42	23.61	23.42	23.33	23.57	23.52	23.36	23.46	23.41
		1	1	24.30	24.45	24.38	24.42	**24.52**	24.33	24.50	**24.58**	24.52	24.42	24.40	24.40
		1	158	24.44	24.44	**24.49**	24.45	24.49	24.50	24.50	24.33	24.53	24.39	24.33	**24.55**
		1	159	23.69	23.56	23.46	23.38	23.48	23.55	23.39	23.27	23.59	23.32	23.28	23.51
		80	40	24.40	24.33	24.29	24.38	24.34	24.36	24.35	24.36	24.42	24.25	24.25	24.25
		160	0	23.45	23.36	23.32	23.40	23.39	23.36	23.39	23.38	23.40	23.31	23.32	23.38
	64QAM	1	0	23.04	22.96	22.94	**23.04**	22.71	22.91	22.87	**23.09**	22.92	23.01	22.75	22.84
		1	1	22.99	23.04	22.85	22.87	22.78	23.03	22.94	22.86	22.83	22.83	22.78	22.84
		1	158	23.02	**23.12**	22.87	23.02	**23.04**	22.98	22.86	22.83	23.08	22.98	23.04	22.86
		1	159	22.91	22.92	22.77	22.83	23.01	22.84	22.88	23.01	**23.09**	22.86	22.78	**23.08**
		80	40	22.92	22.92	22.77	22.87	22.85	22.90	22.84	22.90	22.82	22.73	22.84	22.83
		160	0	22.90	22.96	22.86	22.89	22.86	22.85	22.84	22.90	22.80	22.73	22.82	22.88
	256QAM	1	0	21.13	21.13	21.22	21.04	21.10	21.06	21.06	21.14	21.06	20.97	21.04	21.10
		1	1	21.23	20.98	21.10	21.13	**21.31**	21.14	21.11	21.13	21.15	21.01	21.10	21.11
		1	158	21.20	21.15	20.96	21.23	21.04	21.21	21.00	21.07	21.19	21.10	21.00	**21.15**
		1	159	**21.24**	21.20	21.11	21.08	21.03	21.01	21.17	21.02	**21.20**	20.99	21.09	21.00
		80	40	21.06	21.07	21.06	21.18	20.99	21.13	21.08	21.11	20.96	21.05	20.99	21.06
		160	0	21.09	21.08	21.05	21.16	21.01	21.14	21.03	21.14	21.00	21.06	21.01	21.09

OUTPUT POWER FOR 5G NR n66 (35.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				345500	349000	352500	345500	349000	352500	345500	349000	352500	345500	349000	352500
				1727.5	1745.0	1762.5	1727.5	1745.0	1762.5	1727.5	1745.0	1762.5	1727.5	1745.0	1762.5
35.0	BPSK	1	0	25.09	24.41	25.21	25.24	25.11	25.08	25.11	25.04	25.12	25.26	25.20	25.48
		1	1	**25.70**	**25.70**	25.62	25.63	**25.70**	25.56	25.62	**25.70**	**25.70**	**25.70**	**25.70**	**25.70**
		1	186	25.56	24.91	25.64	**25.70**	25.49	**25.70**	25.68	25.51	25.29	25.61	25.41	25.47
		1	187	25.14	24.35	25.17	25.23	25.15	24.92	25.11	25.04	24.87	25.17	25.04	25.35
		90	45	25.64	24.82	**25.70**	25.68	25.65	25.57	25.67	25.56	25.36	**25.70**	25.24	25.62
		180	0	25.14	24.24	25.04	25.11	25.01	25.07	25.13	25.02	25.00	25.08	25.37	25.38
	QPSK	1	0	24.70	24.68	24.53	24.72	24.62	24.59	24.69	24.48	24.50	23.59	24.96	24.93
		1	1	25.62	25.56	25.51	25.64	25.60	25.66	25.64	25.60	**25.68**	24.82	25.67	25.61
		1	186	25.47	**25.68**	25.46	25.59	25.61	25.51	25.63	**25.68**	25.50	24.65	**25.68**	25.51
		1	187	24.58	24.59	24.52	24.73	24.61	24.58	24.61	24.51	24.41	23.72	24.84	24.83
		90	45	**25.68**	25.63	25.62	**25.68**	**25.68**	25.63	25.66	25.59	25.47	24.71	25.62	**25.68**
		180	0	24.52	24.61	24.52	24.64	24.54	24.49	24.59	24.51	24.46	23.68	24.84	24.92
	16QAM	1	0	23.50	23.56	23.42	23.47	23.47	23.15	23.44	23.68	23.49	23.57	23.76	23.81
		1	1	24.53	24.53	24.19	24.56	**24.63**	24.35	24.60	**24.75**	24.52	24.54	24.89	**25.04**
		1	186	24.51	**24.59**	24.26	24.52	24.56	24.54	24.43	4.50	24.48	24.47	24.83	24.97
		1	187	23.42	23.50	23.29	23.61	23.54	24.36	23.51	23.54	23.45	23.43	23.92	23.88
		90	45	24.45	24.40	24.33	24.52	24.44	24.45	24.47	24.64	24.36	24.43	24.72	24.87
		180	0	23.49	23.45	23.38	23.60	23.44	23.42	23.64	23.54	23.38	23.45	23.67	23.86
	64QAM	1	0	23.17	23.14	22.89	22.93	**23.29**	22.94	23.09	23.17	23.04	23.12	23.09	23.38
		1	1	23.22	**23.27**	23.07	23.00	22.91	22.89	23.07	23.00	**23.20**	23.22	23.45	**23.51**
		1	186	23.02	23.19	22.90	23.15	22.80	22.79	22.97	22.98	22.96	22.75	23.35	23.24
		1	187	22.94	23.14	22.73	23.04	22.92	23.06	23.01	23.04	22.86	22.91	23.32	23.29
		90	45	23.00	23.03	22.89	23.09	22.98	22.86	23.09	23.01	22.83	22.93	23.21	23.39
		180	0	23.01	23.07	22.87	23.06	22.93	22.93	23.05	22.98	22.89	22.95	23.32	23.45
	256QAM	1	0	20.09	21.23	21.17	21.14	20.99	**21.44**	21.28	21.25	21.19	21.14	21.37	21.28
		1	1	20.27	21.28	21.11	21.35	21.42	21.21	21.24	**21.33**	21.25	21.36	21.54	**21.59**
		1	186	19.93	**21.44**	20.99	21.30	21.05	21.12	21.15	21.04	20.94	20.92	21.55	21.43
		1	187	19.84	21.19	20.83	21.24	20.72	21.15	21.03	21.01	21.01	20.84	21.48	21.39
		90	45	20.02	21.16	21.17	21.27	21.15	21.10	21.29	21.13	21.06	21.11	21.51	21.48
		180	0	20.01	21.20	21.16	21.21	21.12	21.14	21.30	21.16	21.10	21.05	21.54	21.46

OUTPUT POWER FOR 5G NR n66 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				346000	349000	352000	346000	349000	352000	346000	349000	352000	346000	349000	352000
				1730.0	1745.0	1760.0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0
40.0	BPSK	1	0	25.01	25.03	25.11	24.96	25.10	25.03	25.06	25.04	25.02	24.97	25.10	24.94
		1	1	25.63	**25.70**	**25.70**	25.51	**25.70**	**25.70**	**25.70**	**25.70**	25.57	**25.70**	**25.70**	**25.70**
		1	214	**25.70**	25.58	25.61	**25.70**	25.63	25.65	25.58	25.61	**25.70**	25.65	25.63	25.63
		1	215	25.10	24.97	25.04	24.96	25.01	25.01	25.00	25.13	25.11	24.93	24.85	25.11
		108	54	25.57	25.52	25.47	25.47	25.50	25.53	25.59	25.49	25.45	25.54	25.57	25.47
		216	0	25.10	25.03	25.03	25.00	25.09	25.06	25.09	25.06	24.99	25.01	25.08	25.00
	QPSK	1	0	24.54	24.60	24.42	24.42	24.51	24.49	24.50	24.59	24.44	24.62	24.60	24.56
		1	1	**25.68**	**25.68**	25.62	25.58	**25.68**	25.68	**25.68**	25.61	25.58	**25.68**	25.63	**25.68**
		1	214	25.62	25.59	**25.68**	**25.68**	25.47	25.66	25.53	**25.68**	25.64	25.62	25.55	25.60
		1	215	24.50	24.45	24.56	24.51	24.50	24.56	24.47	24.56	24.52	24.45	24.52	24.51
		108	54	25.63	25.50	25.59	25.50	25.45	25.54	25.55	25.54	25.52	25.47	25.60	25.46
		216	0	24.64	24.51	24.63	24.52	24.51	24.60	24.66	24.55	24.58	24.55	24.70	24.55
	16QAM	1	0	23.55	23.50	23.38	23.46	23.16	23.61	23.48	23.32	23.22	23.44	23.46	23.43
		1	1	24.47	24.48	24.47	24.26	**24.47**	24.44	24.40	24.42	24.41	24.35	24.43	24.30
		1	214	**24.56**	24.44	24.37	24.46	24.43	**24.47**	24.19	24.42	24.42	24.39	24.39	24.44
		1	215	23.34	23.37	23.50	23.40	23.24	23.42	23.32	23.30	23.44	23.35	23.52	23.35
		108	54	24.41	24.32	24.33	24.31	24.35	24.41	**24.45**	24.39	24.32	**24.46**	24.45	24.33
		216	0	23.41	23.35	23.42	23.34	23.35	23.36	23.47	23.39	23.36	23.40	23.43	23.34
	64QAM	1	0	22.99	22.95	22.87	22.83	22.87	22.89	22.87	**23.11**	22.99	22.82	22.96	23.03
		1	1	22.89	22.97	22.87	22.89	22.76	22.85	23.01	22.94	22.87	22.98	**23.09**	22.94
		1	214	**23.04**	22.79	22.88	22.91	22.87	**23.13**	22.72	22.94	22.98	22.81	22.82	22.91
		1	215	22.93	22.82	22.93	22.77	22.87	22.91	23.05	22.86	22.99	22.93	22.64	22.82
		108	54	22.90	22.91	22.88	22.84	22.87	22.88	22.93	22.83	22.83	22.90	22.91	22.79
		216	0	22.92	22.91	22.87	22.84	22.82	22.93	22.92	22.81	22.80	22.87	22.90	22.79
	256QAM	1	0	21.13	21.06	20.98	21.07	21.00	**21.21**	21.08	21.01	21.02	21.04	**21.14**	21.06
		1	1	20.90	21.10	**21.20**	20.98	20.93	21.08	20.97	20.94	21.02	20.97	21.05	20.99
		1	214	20.94	21.02	20.99	20.93	20.99	21.08	20.97	21.08	21.07	21.04	21.00	21.05
		1	215	21.06	20.99	21.08	20.86	20.98	21.20	21.06	21.04	21.07	21.08	21.02	21.00
		108	54	21.12	21.08	21.02	21.11	21.05	21.12	**21.11**	21.05	21.00	21.10	21.11	20.95
		216	0	21.06	21.11	21.10	21.07	21.02	21.16	21.05	21.03	21.02	21.08	21.07	20.97

OUTPUT POWER FOR 5G NR n66 (45.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				346500	349000	351500	346500	349000	351500	346500	349000	351500	346500	349000	351500
				1732.5	1745.0	1757.5	1732.5	1745.0	1757.5	1732.5	1745.0	1757.5	1732.5	1745.0	1757.5
45.0	BPSK	1	0	25.52	25.45	25.28	25.40	25.36	25.20	25.12	25.21	25.05	25.08	25.18	25.18
		1	1	**25.70**	**25.70**	**25.70**	25.67	**25.70**	**25.70**	25.60	**25.70**	25.57	25.64	**25.70**	**25.70**
		1	240	25.51	25.68	25.62	**25.70**	25.63	25.58	**25.70**	25.67	**25.70**	**25.70**	25.58	**25.70**
		1	241	25.20	25.36	25.35	25.31	25.30	24.90	25.07	25.17	24.97	25.16	25.08	25.04
		120	60	25.26	25.51	25.43	25.51	25.49	25.35	25.48	25.44	25.36	25.47	25.49	25.64
		240	0	25.19	25.35	25.31	25.34	25.35	25.05	25.16	25.14	24.88	25.05	25.20	25.06
	QPSK	1	0	24.62	24.98	24.99	25.07	24.88	24.76	24.56	24.56	24.57	24.53	24.42	24.40
		1	1	25.54	25.64	25.61	25.39	**25.68**	25.64	25.61	**25.69**	25.57	**25.68**	**25.68**	**25.68**
		1	240	25.45	**25.68**	25.66	25.50	25.60	25.66	25.60	25.64	25.58	25.59	25.43	25.66
		1	241	24.72	25.02	24.87	24.83	24.96	24.42	24.59	24.57	24.31	24.49	24.31	24.58
		120	60	25.31	25.51	25.54	25.40	25.54	25.46	25.56	25.54	25.26	25.40	25.28	25.48
		240	0	24.76	24.94	24.97	24.53	24.66	24.49	24.57	24.62	24.34	24.54	24.27	24.57
	16QAM	1	0	23.62	23.65	23.88	23.58	23.89	23.48	23.35	23.63	23.26	23.60	23.44	23.22
		1	1	24.69	24.74	24.74	**24.82**	24.73	24.61	24.20	**24.44**	24.22	24.70	**24.80**	24.40
		1	240	24.36	24.82	**24.87**	24.75	24.56	24.42	24.36	24.33	24.21	24.72	24.70	24.33
		1	241	23.46	23.81	23.85	23.63	23.65	23.44	23.48	23.58	23.27	23.57	23.50	23.18
		120	60	24.47	24.71	24.74	24.60	24.64	24.45	24.18	24.42	24.24	24.52	24.72	24.30
		240	0	23.71	23.93	23.97	23.57	23.71	23.44	23.18	23.48	23.23	23.66	23.60	23.34
	64QAM	1	0	23.04	23.36	23.41	23.26	**23.47**	23.30	22.88	**23.16**	22.87	23.02	23.04	22.71
		1	1	22.82	23.22	23.08	23.16	23.24	23.41	22.74	22.99	22.82	23.13	23.18	22.67
		1	240	23.04	**23.50**	23.44	23.24	23.10	23.14	22.80	23.03	22.60	22.90	23.20	22.98
		1	241	22.93	23.41	23.45	23.15	23.05	23.19	22.63	23.05	22.69	22.93	23.04	22.82
		120	60	23.02	23.17	23.28	23.29	23.23	23.17	22.72	22.98	22.77	22.82	23.29	23.11
		240	0	23.05	23.21	23.31	23.09	23.30	23.18	22.71	23.01	22.85	22.82	**23.37**	22.87
	256QAM	1	0	21.81	21.98	**22.06**	**22.08**	21.83	21.89	21.24	**21.67**	21.39	21.40	**21.95**	21.46
		1	1	21.60	21.94	21.99	21.90	21.87	21.40	21.25	21.65	21.49	21.33	21.83	21.72
		1	240	21.33	21.54	21.91	21.59	21.76	21.68	21.30	21.33	21.23	21.44	21.42	21.44
		1	241	21.59	21.64	21.89	21.60	21.66	21.61	21.14	21.36	21.26	21.42	21.78	21.41
		120	60	21.25	21.42	21.51	21.42	21.52	21.34	20.85	21.24	21.02	21.04	21.49	21.21
		240	0	21.22	21.49	21.53	21.59	21.72	21.38	20.95	21.30	21.04	21.19	21.50	21.09

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS139

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 were also measured and recorded.

RESULTS

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

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000 FAX: (510) 661-0888

LTE BAND 66

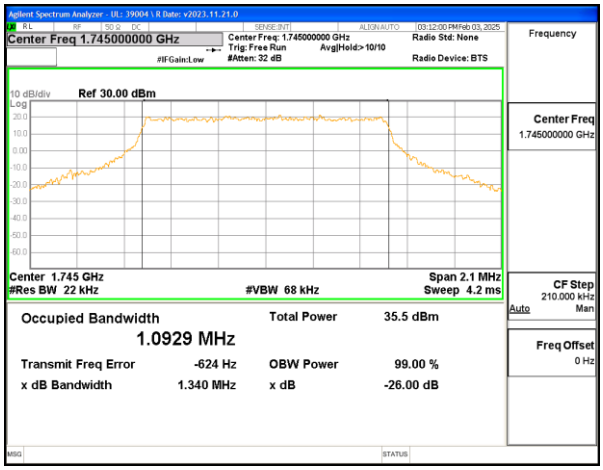
Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 66	1.4MHz, QPSK	6/0	1745.0	1.093	1.34
	1.4MHz,16QAM			1.098	1.42
	3MHz, QPSK	15/0		2.697	3.05
	3MHz, 16QAM			2.693	3.01
	5MHz, QPSK	25/0		4.501	5.08
	5MHz, 16QAM			4.496	5.12
	10MHz, QPSK	50/0		8.959	9.89
	10MHz, 16QAM			8.977	9.91
	15MHz, QPSK	75/0		13.465	14.75
	15MHz, 16QAM			13.453	14.81
	20MHz, QPSK	100/0		17.930	19.50
	20MHz, 16QAM			17.926	19.62
	20MHz, QPSK	1/0		0.279	0.46

UL VERIFICATION SERVICES INC.
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 319-4000 FAX: (510) 661-0888

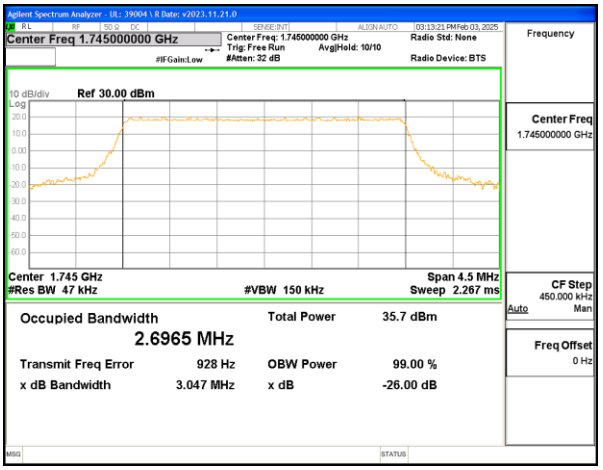
5G NR n66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n66	5MHz, BPSK	25/0	1745.0	4.517	5.16
	5MHz, QPSK			4.506	5.20
	5MHz, 16QAM			4.517	5.19
	10MHz, BPSK	50/0		9.001	9.91
	10MHz, QPSK			8.998	9.94
	10MHz, 16QAM			9.010	9.82
	15MHz, BPSK	75/0		13.509	14.46
	15MHz, QPSK			13.488	14.60
	15MHz, 16QAM			13.467	14.60
	20MHz, BPSK	100/0		17.966	19.18
	20MHz, QPSK			17.949	19.15
	20MHz, 16QAM			17.942	19.24
	25MHz, BPSK	128/0		22.960	24.44
	25MHz, QPSK			22.980	24.51
	25MHz, 16QAM			22.969	24.45
	30MHz, BPSK	160/0		28.687	30.23
	30MHz, QPSK			28.695	30.39
	30MHz, 16QAM			28.685	30.34
	35MHz, BPSK	180/0		32.322	34.03
	35MHz, QPSK			32.273	34.14
	35MHz, 16QAM			32.282	34.10
	40MHz, BPSK	216/0		38.711	40.77
	40MHz, QPSK			38.689	40.94
	40MHz, 16QAM			38.688	40.71
	45MHz, BPSK	240/0		43.051	45.22
	45MHz, QPSK			43.013	45.33
	45MHz, 16QAM			43.012	45.28
	45MHz, BPSK	1/0		0.278	0.52

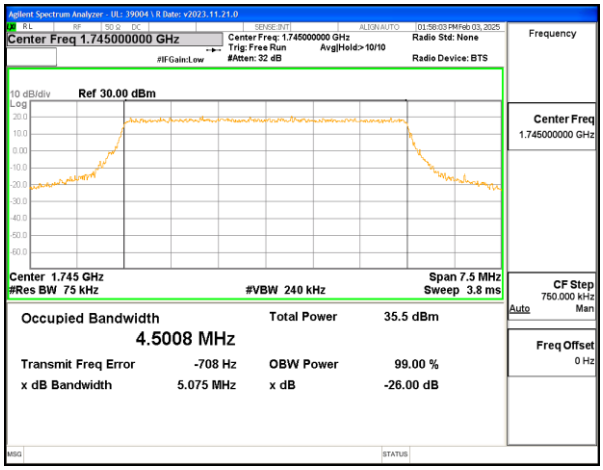
9.1.1. LTE BAND 66



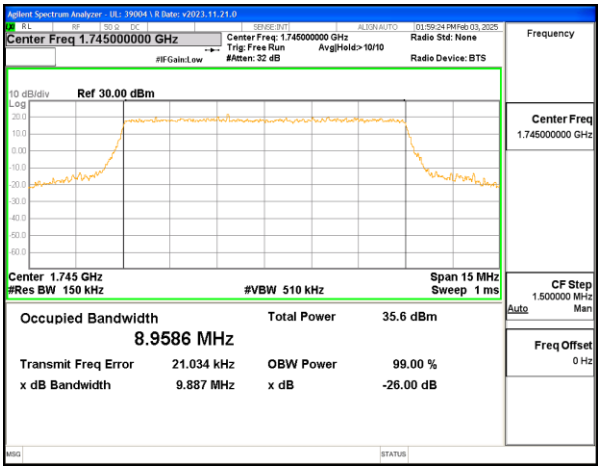
LTE B66 1.4MHz QPSK Middle Channel RB6-0



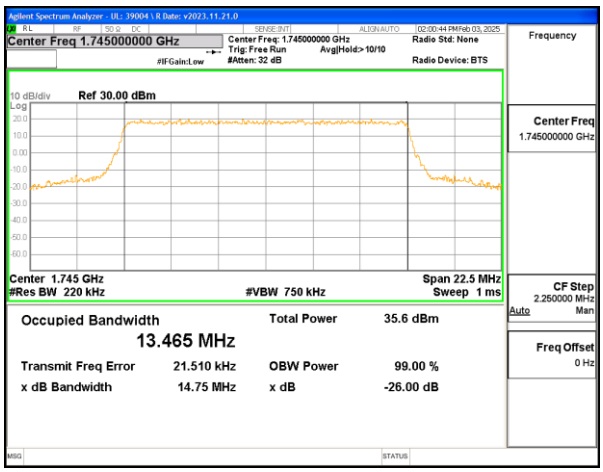
LTE B66 3MHz QPSK Middle Channel RB15-0



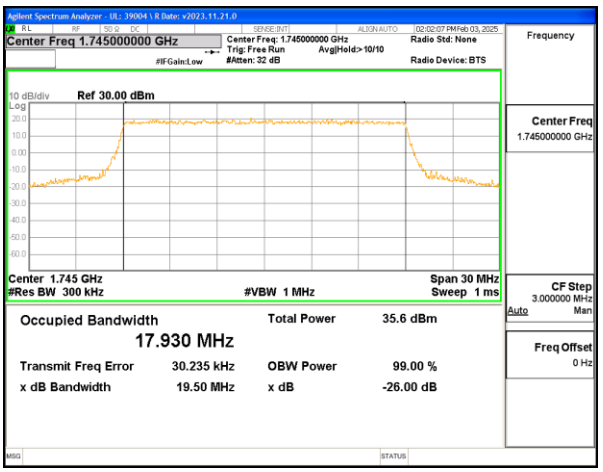
LTE B66 5MHz QPSK Middle Channel RB25-0



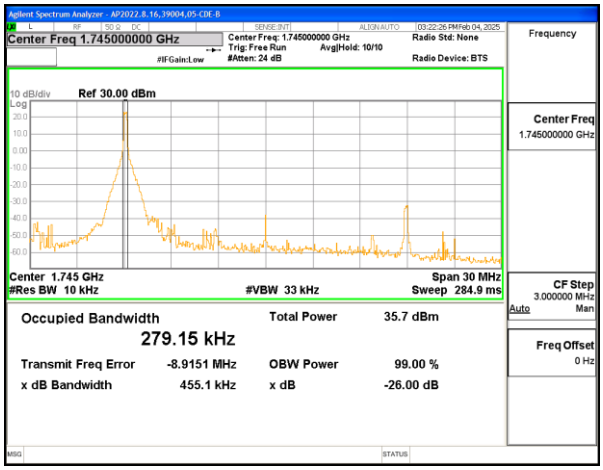
LTE B66 10MHz QPSK Middle Channel RB50-0



LTE B66 15MHz QPSK Middle Channel RB75-0



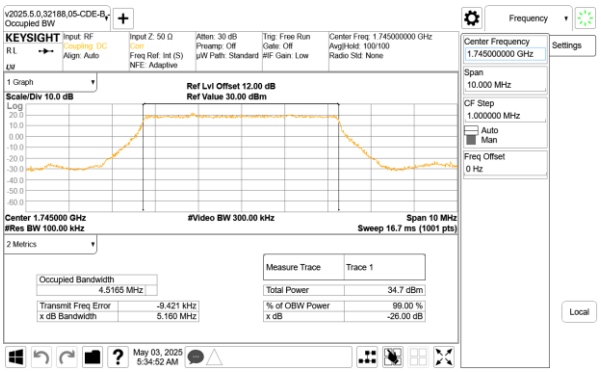
LTE B66 20MHz QPSK Middle Channel RB100-0



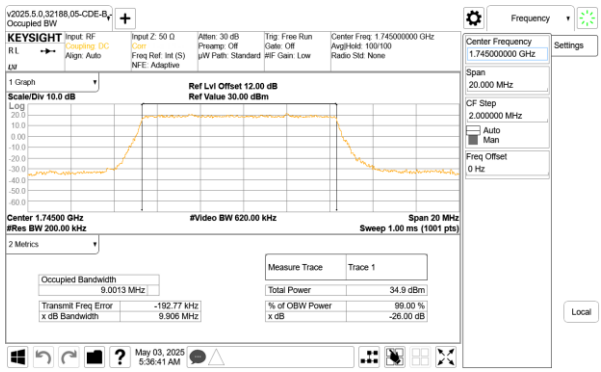
LTE B66 20MHz QPSK Middle Channel RB1-0

Intentionally Blank

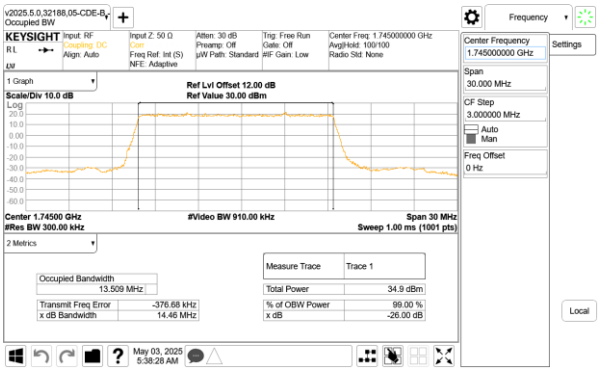
9.1.2. 5G NR n66



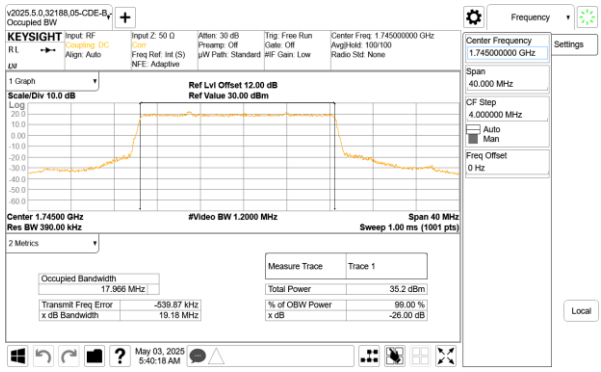
5G NR n66 5MHz BPSK Middle Channel RB25-0



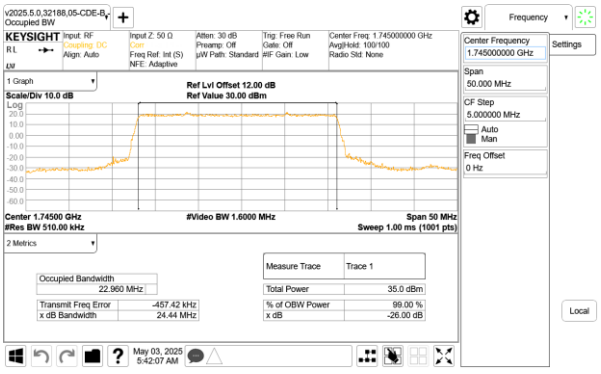
5G NR n66 10MHz BPSK Middle Channel RB50-0



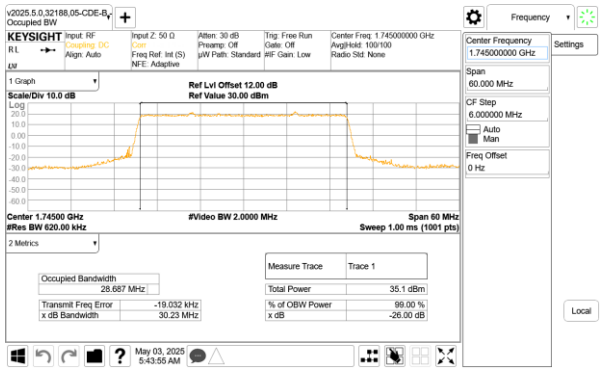
5G NR n66 15MHz BPSK Middle Channel RB75-0



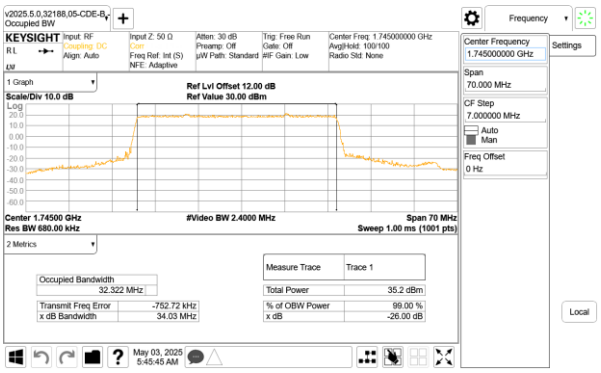
5G NR n66 20MHz BPSK Middle Channel RB100-0



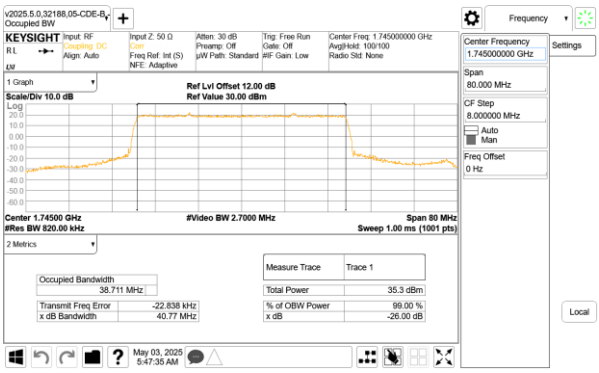
5G NR n66 25MHz BPSK Middle Channel RB128-0



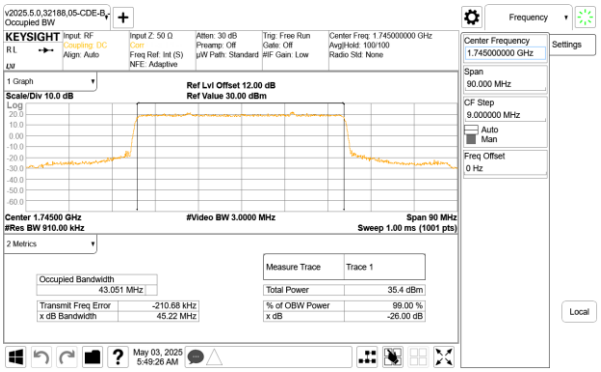
5G NR n66 30MHz BPSK Middle Channel RB160-0



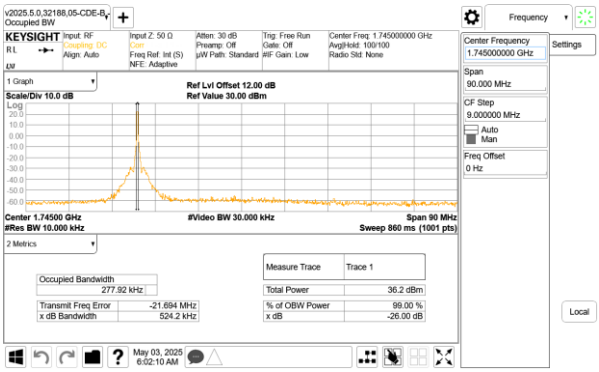
5G NR n66 35MHz BPSK Middle Channel RB180-0



5G NR n66 40MHz BPSK Middle Channel RB216-0



5G NR n66 45MHz BPSK Middle Channel RB240-0



5G NR n66 45MHz BPSK Middle Channel RB1-0

9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53(h)
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.

ISED: RSS139§5.6
Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
≤1 MHz	-13 dBm/(1% of B*)
>1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

TEST PROCEDURE

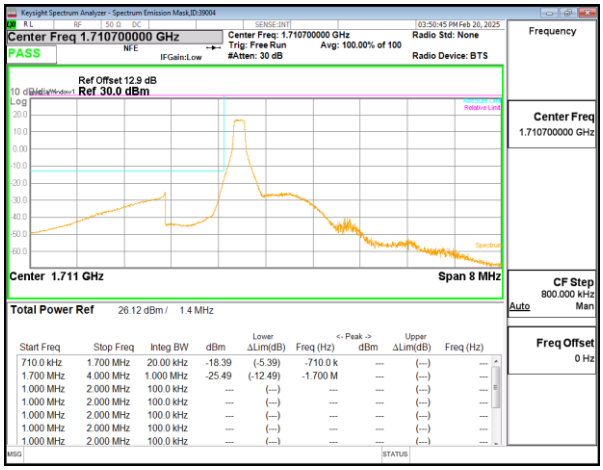
For Spectrum Emission Mask plots, the spectrum analyzer is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies 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.

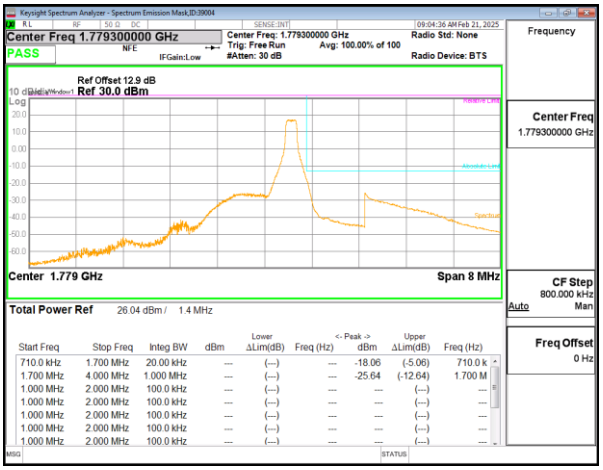
For each band edge measurement:
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

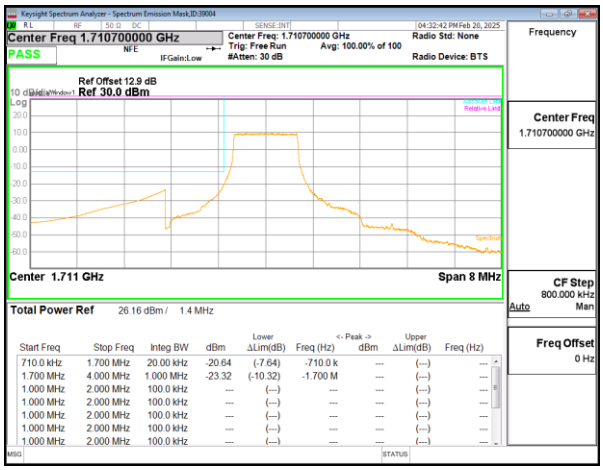
9.2.1. LTE BAND 66



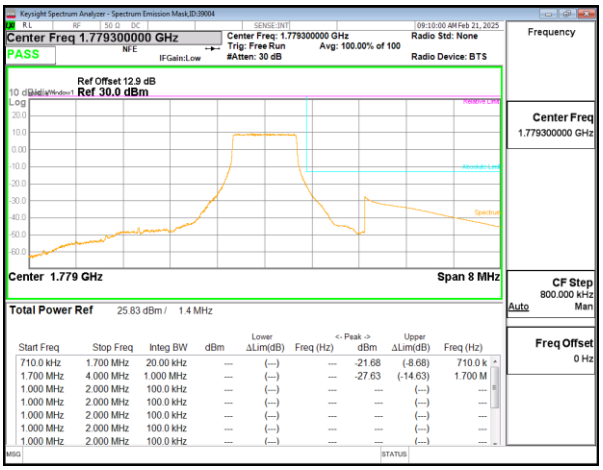
LTE B66 1.4MHz QPSK Low Channel RB1-0



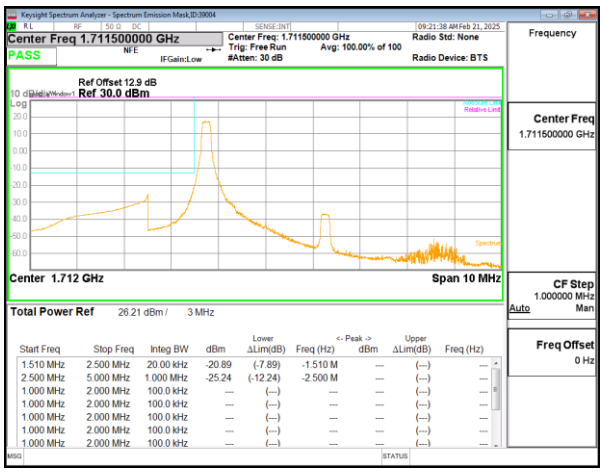
LTE B66 1.4MHz QPSK High Channel RB1-5



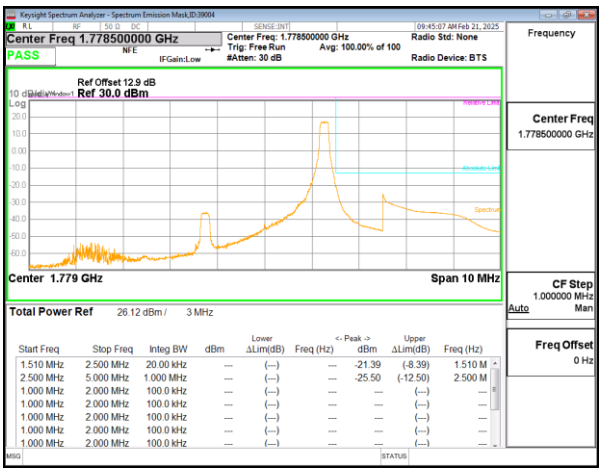
LTE B66 1.4MHz QPSK Low Channel RB6-0



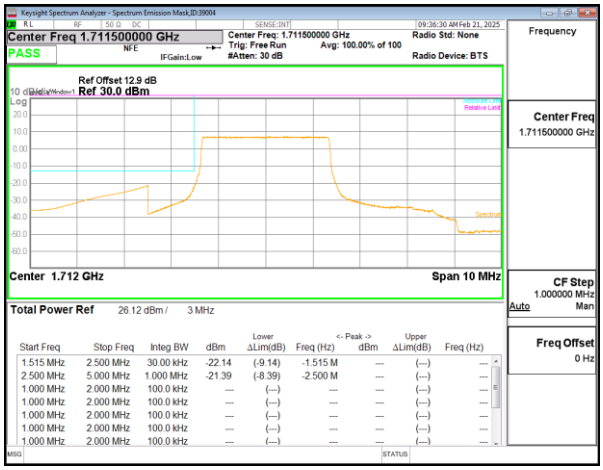
LTE B66 1.4MHz QPSK High Channel RB6-0



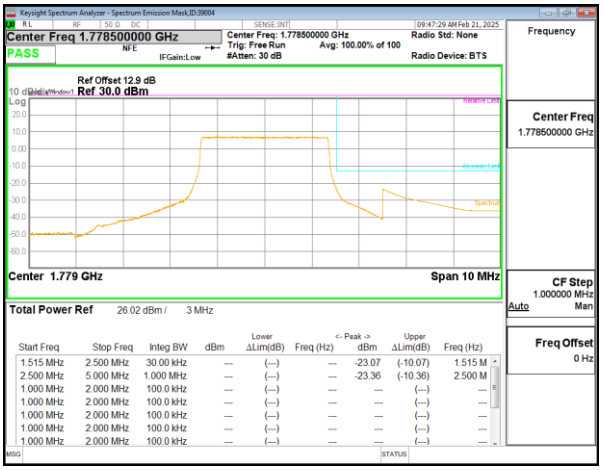
LTE B66 3MHz QPSK Low Channel RB1-0



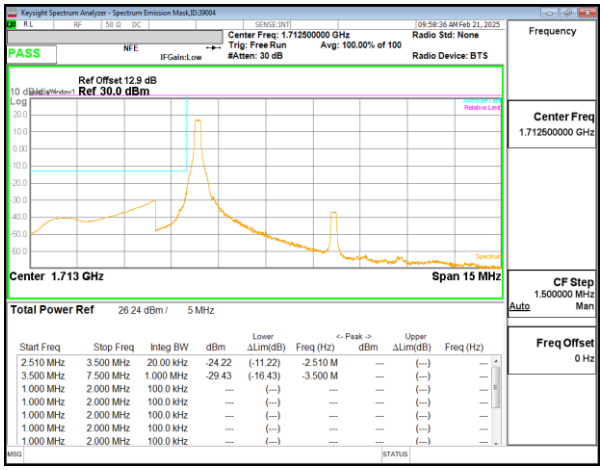
LTE B66 3MHz QPSK High Channel RB1-14



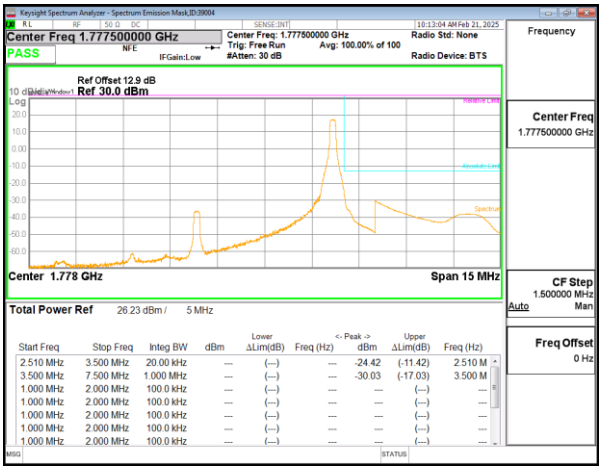
LTE B66 3MHz QPSK Low Channel RB15-0



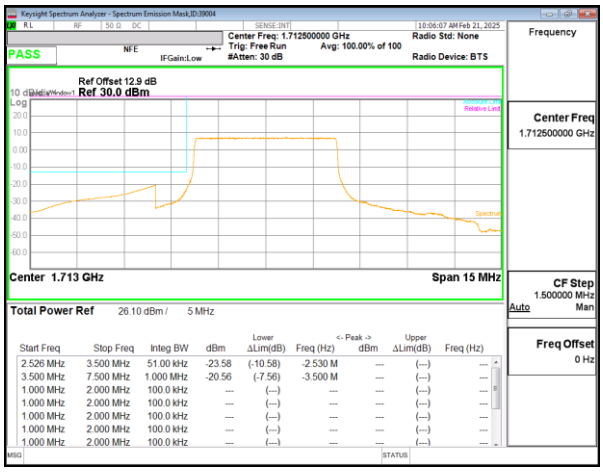
LTE B66 3MHz QPSK High Channel RB15-0



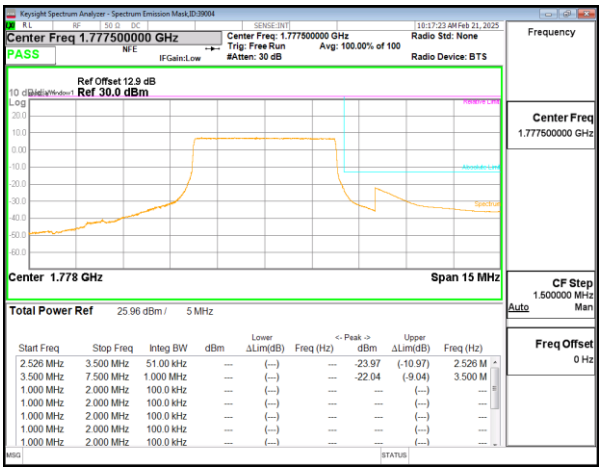
LTE B66 5MHz QPSK Low Channel RB1-0



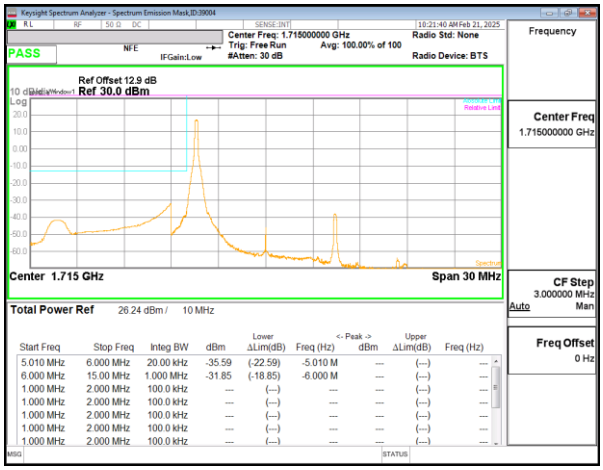
LTE B66 5MHz QPSK High Channel RB1-24



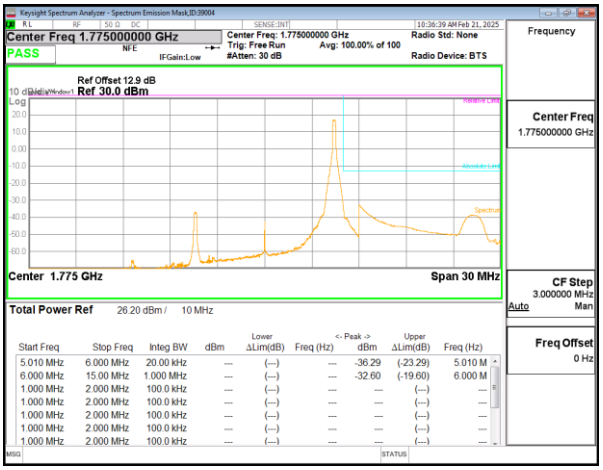
LTE B66 5MHz QPSK Low Channel RB25-0



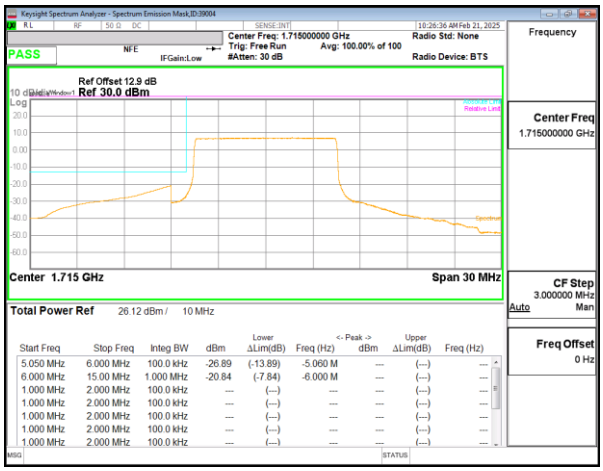
LTE B66 5MHz QPSK High Channel RB25-0



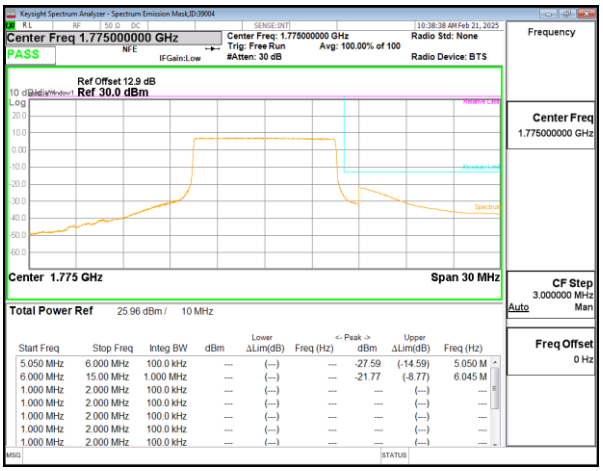
LTE B66 10MHz QPSK Low Channel RB1-0



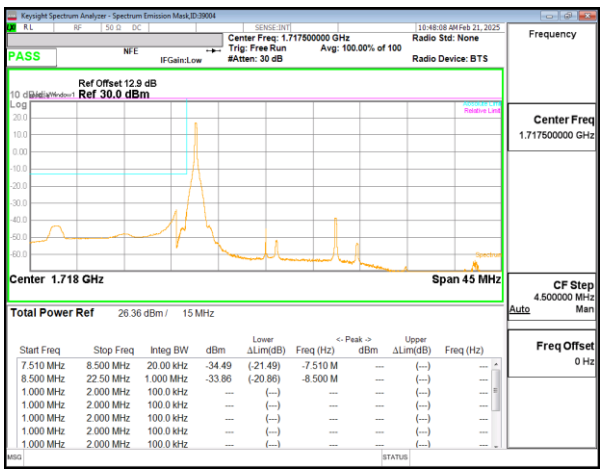
LTE B66 10MHz QPSK High Channel RB1-49



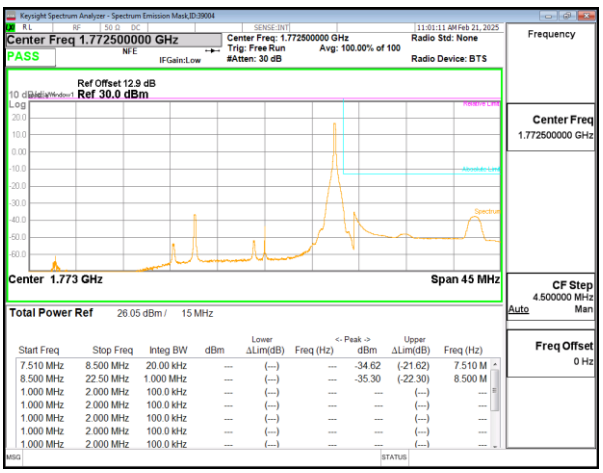
LTE B66 10MHz QPSK Low Channel RB50-0



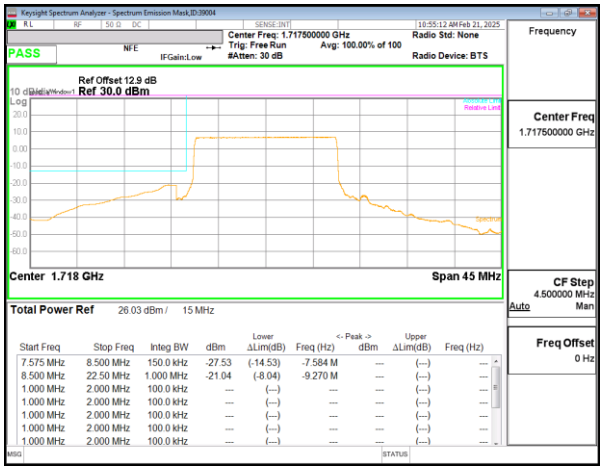
LTE B66 10MHz QPSK High Channel RB50-0



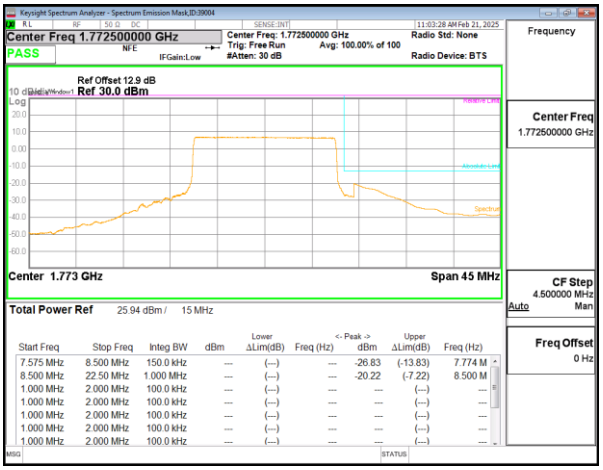
LTE B66 15MHz QPSK Low Channel RB1-0



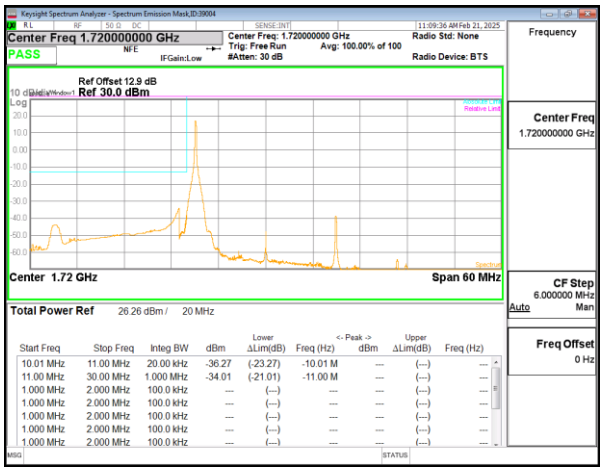
LTE B66 15MHz QPSK High Channel RB1-74



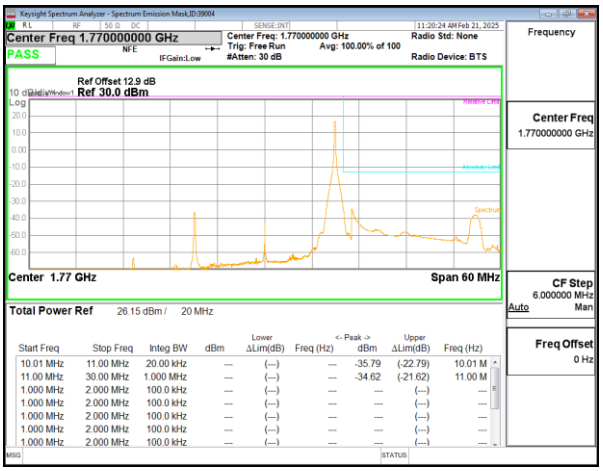
LTE B66 15MHz QPSK Low Channel RB75-0



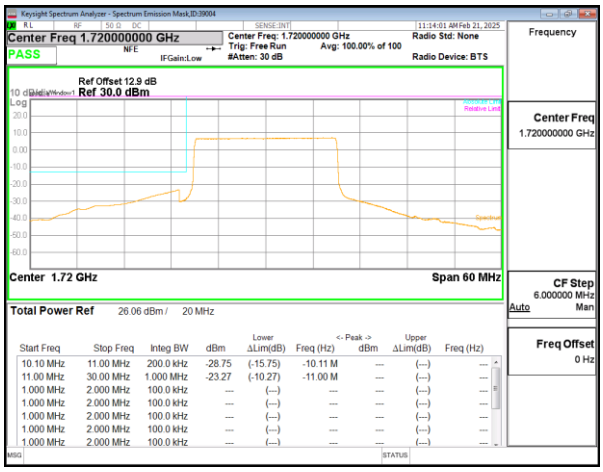
LTE B66 15MHz QPSK High Channel RB75-0



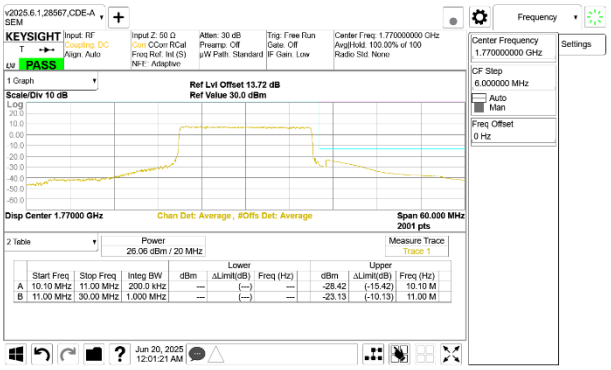
LTE B66 20MHz QPSK Low Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-99

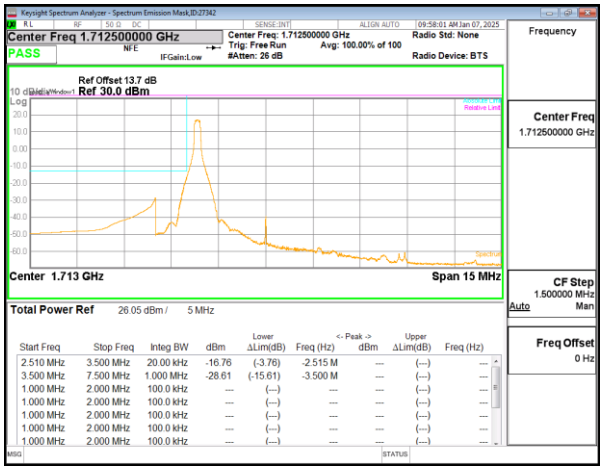


LTE B66 20MHz QPSK Low Channel RB100-0

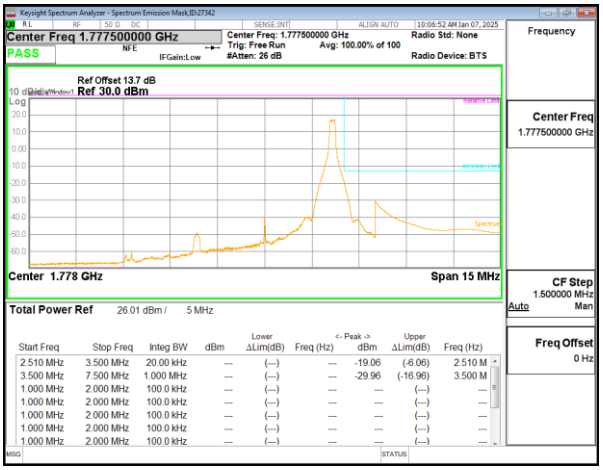


LTE B66 20MHz QPSK High Channel RB100-0

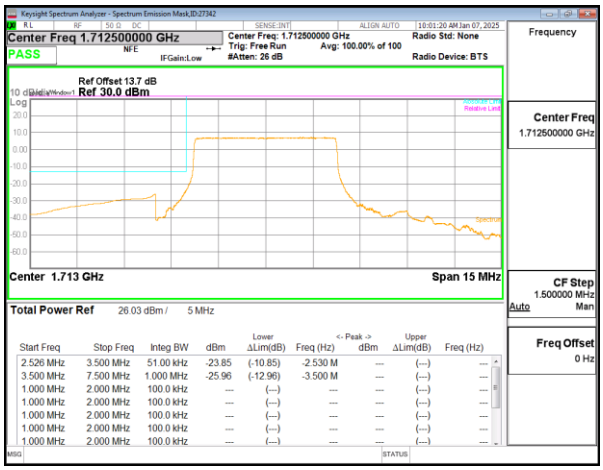
9.2.2. 5G NR n66



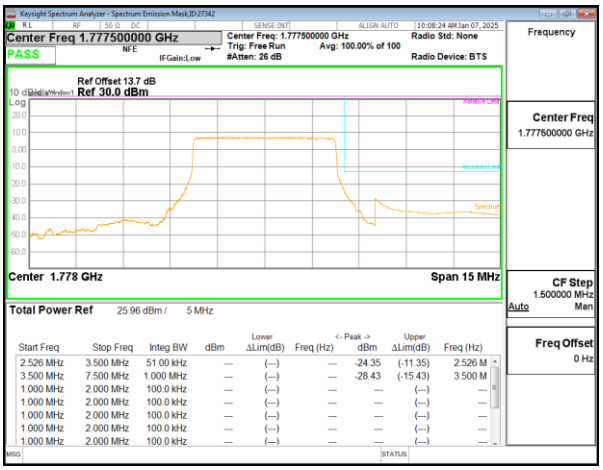
5G NR n66 5MHz BPSK Low Channel RB1-0



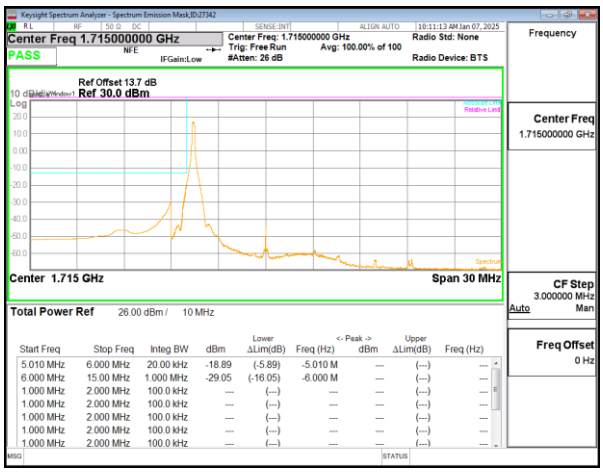
5G NR n66 5MHz BPSK High Channel RB1-24



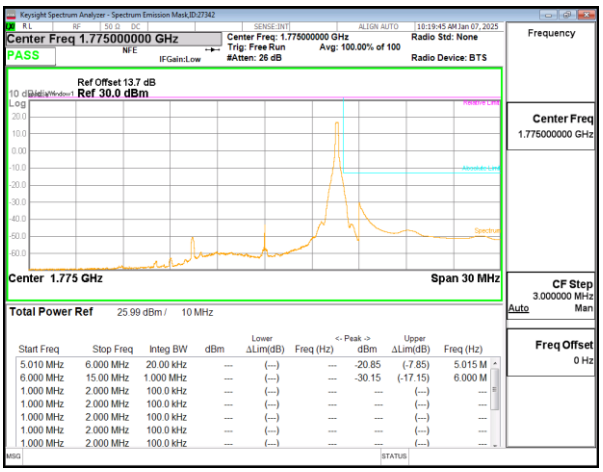
5G NR n66 5MHz BPSK Low Channel RB25-0



5G NR n66 5MHz BPSK High Channel RB25-0



5G NR n66 10MHz BPSK Low Channel RB1-0



5G NR n66 10MHz BPSK High Channel RB1-51