TEST REPORT

Report Number: 15496277- E34V2

Applicant	:	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA, 95014, U.S.A.
Model	:	A3258
Brand	:	APPLE
FCC ID	:	BCG-E8947A
EUT Description	:	SMARTPHONE
Test Standard(s)	:	FCC 47 CFR PART 2, PART 96

Date Of Issue:
2025-08-15

Prepared by:
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ACCREDITED
CERT #0751.05

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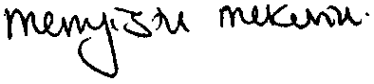
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA, 95014, U.S.A.
Model	A3258
Brand	APPLE
FCC ID	BCG-E8947A
EUT Description	SMARTPHONE
Serial Number	RADIATED: DQMWH1905G, GQQ7TY7JLY, J46VHKX6H, DMXG3RKJYV CONDUCTED: J6HHCW0001W0000WEZ, J6HHG2000FA0000WEZ, J6HHH50000V0000WEZ, J6HHCZ0000FP0000WEZ
Sample Receipt Date	2024-11-12
Date Tested	2024-11-12 to 2025-08-05
Applicable Standards	FCC 47 CFR Part 2, Part 96
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.

Approved & Released By:	Reviewed 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 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 (see section 6.4)

Requirement Description	Requirement Clause Number (FCC)	Result	Remarks
Equivalent Isotropic Radiated Power	2.1046, 96.41 (b)	Complies	
Occupied Bandwidth	2.1049	Complies	
Band Edge and Emission Mask	2.1051, 96.41(e)	Complies	
Out of Band Emissions	2.1051, 96.41(e)	Complies	
Frequency Stability	2.1055	Complies	
Peak-to-Average Ratio	96.41 (g)	Complies	
Field Strength of Spurious Radiation	2.1053, 96.41(e)	Complies	

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3. TEST METHODOLOGY

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

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 96
- FCC KDB 971168 D01 : Power Meas License Digital Systems
- FCC KDB 971168 D02: Misc Rev Approv License Devices
- FCC KDB 412172 D01 : Determining ERP and EIRP

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

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

Th 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

LIMITS

FCC: §96.41
(b) Power Limits—
Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10megahertz)	Maximum PSD (dBm/MHz)
End User Device	23 (0.2 W/10 MHz)	n/a
Category A CBSD	30	20
Category B CBSD1	47	37

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 peak EIRP output powers as follows:

LTE BAND 48(LOW)

Part 96	
EIRP Limit (W)/ 10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.50

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	QPSK	3552.5	3697.5	25.50	22.00	0.158	4.483	4483	4M48G7W
	16QAM			24.48	20.98	0.125	4.479	4479	4M48D7W
10.0	QPSK	3555.0	3695.0	25.50	22.00	0.158	8.943	8943	8M94G7W
	16QAM			24.54	21.04	0.127	8.986	8986	8M99D7W
15.0	QPSK	3557.5	3692.5	25.50	22.00	0.158	13.451	13451	13M5G7W
	16QAM			24.47	20.97	0.125	13.449	13449	13M4D7W
20.0	QPSK	3560.0	3690.0	25.50	22.00	0.158	17.949	17949	17M9G7W
	16QAM			24.45	20.95	0.124	17.909	17909	17M9D7W

LTE BAND 48(MID)

Part 96	
EIRP Limit (W)/ 10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.10

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	QPSK	3552.5	3697.5	25.50	22.40	0.174	4.483	4483	4M48G7W
	16QAM			24.56	21.46	0.140	4.479	4479	4M48D7W
10.0	QPSK	3555.0	3695.0	25.50	22.40	0.174	8.943	8943	8M94G7W
	16QAM			24.52	21.42	0.139	8.986	8986	8M99D7W
15.0	QPSK	3557.5	3692.5	25.50	22.40	0.174	13.451	13451	13M5G7W
	16QAM			24.39	21.29	0.135	13.449	13449	13M4D7W
20.0	QPSK	3560.0	3690.0	25.50	22.40	0.174	17.949	17949	17M9G7W
	16QAM			24.46	21.36	0.137	17.909	17909	17M9D7W

LTE BAND 48(HIGH)

Part 96	
EIRP Limit (W)/ 10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.30

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	QPSK	3552.5	3697.5	25.50	22.20	0.166	4.483	4483	4M48G7W
	16QAM			24.48	21.18	0.131	4.479	4479	4M48D7W
10.0	QPSK	3555.0	3695.0	25.50	22.20	0.166	8.943	8943	8M94G7W
	16QAM			24.54	21.24	0.133	8.986	8986	8M99D7W
15.0	QPSK	3557.5	3692.5	25.50	22.20	0.166	13.451	13451	13M5G7W
	16QAM			24.44	21.14	0.130	13.449	13449	13M4D7W
20.0	QPSK	3560.0	3690.0	25.50	22.20	0.166	17.949	17949	17M9G7W
	16QAM			24.44	21.14	0.130	17.909	17909	17M9D7W

5G NR n48 (LOW)

Part 96	
EIRP Limit (W) /10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.50

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
10.0	BPSK	3555.0	3695.0	25.46	21.96	0.157	8.632	8632	8M63G7W
	QPSK			25.50	22.00	0.158	8.656	8656	8M66G7W
	16QAM			24.41	20.91	0.123	8.644	8644	8M64D7W
15.0	BPSK	3557.5	3692.5	25.50	22.00	0.158	12.948	12948	12M9G7W
	QPSK			25.50	22.00	0.158	12.925	12925	12M9G7W
	16QAM			24.50	21.00	0.126	12.986	12986	13M0D7W
20.0	BPSK	3560.0	3690.0	25.50	22.00	0.158	17.937	17937	17M9G7W
	QPSK			25.48	21.98	0.158	17.927	17927	17M9G7W
	16QAM			24.38	20.88	0.122	18.007	18007	18M0D7W
30.0	BPSK	3565.0	3685.0	25.50	22.00	0.158	26.898	26898	26M9G7W
	QPSK			25.50	22.00	0.158	26.991	26991	27M0G7W
	16QAM			24.35	20.85	0.122	26.956	26956	27M0D7W
40.0	BPSK	3570.0	3680.0	25.50	22.00	0.158	35.886	35886	35M9G7W
	QPSK			25.48	21.98	0.158	35.847	35847	35M8G7W
	16QAM			24.50	21.00	0.126	35.898	35898	35M9D7W

5G NR n48 (MID)

Part 96	
EIRP Limit (W) /10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.10

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
10.0	BPSK	3555.0	3695.0	25.50	22.40	0.174	8.632	8632	8M63G7W
	QPSK			25.43	22.33	0.171	8.656	8656	8M66G7W
	16QAM			24.50	21.40	0.138	8.644	8644	8M64D7W
15.0	BPSK	3557.5	3692.5	25.50	22.40	0.174	12.948	12948	12M9G7W
	QPSK			25.44	22.34	0.171	12.925	12925	12M9G7W
	16QAM			24.48	21.38	0.137	12.986	12986	13M0D7W
20.0	BPSK	3560.0	3690.0	25.46	22.36	0.172	17.937	17937	17M9G7W
	QPSK			25.50	22.40	0.174	17.927	17927	17M9G7W
	16QAM			24.45	21.35	0.136	18.007	18007	18M0D7W
30.0	BPSK	3565.0	3685.0	25.37	22.27	0.169	26.898	26898	26M9G7W
	QPSK			25.50	22.40	0.174	26.991	26991	27M0G7W
	16QAM			24.45	21.35	0.136	26.956	26956	27M0D7W
40.0	BPSK	3570.0	3680.0	25.50	22.40	0.174	35.886	35886	35M9G7W
	QPSK			25.46	22.36	0.172	35.847	35847	35M8G7W
	16QAM			24.49	21.39	0.138	35.898	35898	35M9D7W

5G NR n48 (HIGH)

Part 96	
EIRP Limit (W) /10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.30

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
10.0	BPSK	3555.0	3695.0	25.50	22.20	0.166	8.632	8632	8M63G7W
	QPSK			25.45	22.15	0.164	8.656	8656	8M66G7W
	16QAM			24.42	21.12	0.129	8.644	8644	8M64D7W
15.0	BPSK	3557.5	3692.5	25.50	22.20	0.166	12.948	12948	12M9G7W
	QPSK			25.48	22.18	0.165	12.925	12925	12M9G7W
	16QAM			24.34	21.04	0.127	12.986	12986	13M0D7W
20.0	BPSK	3560.0	3690.0	25.39	22.09	0.162	17.937	17937	17M9G7W
	QPSK			25.50	22.20	0.166	17.927	17927	17M9G7W
	16QAM			24.39	21.09	0.129	18.007	18007	18M0D7W
30.0	BPSK	3565.0	3685.0	25.42	22.12	0.163	26.898	26898	26M9G7W
	QPSK			25.50	22.20	0.166	26.991	26991	27M0G7W
	16QAM			24.39	21.09	0.129	26.956	26956	27M0D7W
40.0	BPSK	3570.0	3680.0	25.47	22.17	0.165	35.886	35886	35M9G7W
	QPSK			25.50	22.20	0.166	35.847	35847	35M8G7W
	16QAM			24.36	21.06	0.128	35.898	35898	35M9D7W

LTE ULCA BAND 48B

Part 96	
EIRP Limit (W)/ 10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.10

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
10+10	QPSK	3555.0	3695.0	25.00	21.90	0.155	19.293	19293	19M3G7W
	16QAM			24.79	21.69	0.148	19.194	19194	19M2D7W

LTE ULCA BAND 48C

Part 96	
EIRP Limit (W)/ 10MHz	0.20
Antenna Gain (dBi)_Ant(9)	-3.10

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+20	QPSK	3553.3	3690.0	24.00	20.90	0.123	23.148	23148	23M1G7W
	16QAM			23.97	20.87	0.122	23.363	23363	23M4D7W
20+5	QPSK	3560.0	3696.7	24.00	20.90	0.123	23.342	23342	23M3G7W
	16QAM			23.95	20.85	0.122	23.333	23333	23M3D7W
10+20	QPSK	3555.5	3690.0	24.50	21.40	0.138	28.051	28051	28M1G7W
	16QAM			24.50	21.40	0.138	28.148	28148	28M1D7W
20+10	QPSK	3560.0	3694.5	24.50	21.40	0.138	28.106	28106	28M1G7W
	16QAM			24.44	21.34	0.136	28.152	28152	28M2D7W
15+20	QPSK	3557.8	3690.0	24.57	21.47	0.140	32.826	32826	32M8G7W
	16QAM			24.76	21.66	0.147	32.756	32756	32M8D7W
20+15	QPSK	3560.0	3692.2	25.00	21.90	0.155	32.925	32925	32M9G7W
	16QAM			24.73	21.63	0.146	32.945	32945	32M9D7W
20+20	QPSK	3560.0	3690.0	24.60	21.50	0.141	37.617	37617	37M6G7W
	16QAM			24.35	21.25	0.133	37.656	37656	37M7D7W

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6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.8.0.0.

6.4. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The 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)			
		ANT4	ANT7	ANT8	ANT9	ANT4	ANT7	ANT8	ANT9	ANT4	ANT7	ANT8	ANT9
LTE Band 48 (Low)	3550 – 3700	-4.20	-4.60	-4.50	-3.50	24.70	26.00	25.60	25.50	20.50	21.40	21.10	**22.00**
LTE Band 48 (Mid)		-3.60	-3.80	-7.30	-3.10	24.70	26.00	25.60	25.50	21.10	22.20	18.30	**22.40**
LTE Band 48 (High)		-3.10	-3.80	-7.90	-3.30	24.70	26.00	25.60	25.50	21.60	**22.20**	17.70	**22.20**
5G NR n48 (Low)		-4.20	-4.60	-4.50	-3.50	24.70	26.00	25.60	25.50	20.50	21.40	21.10	**22.00**
5G NR n48 (Mid)		-3.60	-3.80	-7.30	-3.10	24.70	26.00	25.60	25.50	21.10	22.20	18.30	**22.40**
5G NR n48 (High)		-3.10	-3.80	-7.90	-3.30	24.70	26.00	25.60	25.50	21.60	**22.20**	17.70	**22.20**
LTE ULCA Band 48B, 48C (LOW)		-4.20	-4.60	-4.50	-3.50	23.70	25.00	24.60	25.00	19.50	20.40	20.10	**21.50**
LTE ULCA Band 48B, 48C (MID)		-3.60	-3.80	-7.30	-3.10	23.70	25.00	24.60	25.00	20.10	21.20	17.30	**21.90**
LTE ULCA Band 48B, 48C (HIGH)		-3.10	-3.80	-7.90	-3.30	23.70	25.00	24.60	25.00	20.60	21.20	16.70	**21.70**

6.5. WORST-CASE CONFIGURATION AND MODE

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.

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 48, FR1 5G NR 48, LTE ULCA BAND 48	Ant 7

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

Frequency Range	**ANT7**	**ANT8**	**ANT9**	**ANT4**
3300 – 3980 MHz	X	Y	X	Z

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz.

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.

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6.6. DESCRIPTION OF TEST SETUP

Refer to Appendix A for description of test setup.

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	85723	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
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	236726	2025-10-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	2026-08-31
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, 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
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	259079	2026-02-28
PXA Signal Analyzer	Agilent Technologies Inc	N9030A	87738	2026-01-16
UXM 5G Wireless Test Platform	Keysight Technologies Inc	E7515B	MY59020604	2026-02-26
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	222793	2026-02-28
Conducted Switch Box	N/A	CSB	227264	2026-03-31
Conducted Switch Box	N/A	CSB	262286	2026-04-30
Conducted Switch Box	N/A	CSB	262288	2026-04-30
Conducted Switch Box	N/A	CSB	263817	2026-05-31
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 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
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	82472	2025-08-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	CLT	Ver.2023 11.21.0 & .2024.3.20.0 & 2022.7.6.0 & 2023.6.21	
Conducted Software	UL	Power Measurement	Ver.2023.8.14 & 2022.4.29 & 2023.6.8	
Conducted Software	UL	Antenna Port	Ver.2022.8.16& 2021.5.13	
Conducted Software	UL	Station Tool	Ver. 5.0 & 5.3 & 6.0 & 6.1	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

8. RF OUTPUT POWER VERIFICATION

RULE PART(S)

FCC: §2.1046

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

The 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.

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8.1. LTE BAND 48

Test Engineer ID:	32546	Test Date:	2025-02-17

OUTPUT POWER FOR LTE BAND 48 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55265	55990	56715	55260	55990	56715	55265	55990	56715	55260	55990	56715
				3552.5	3625.0	3697.5	3552.5	3625.0	3697.5	3552.5	3625.0	3697.5	3552.5	3625.0	3697.5
5.0	QPSK	1	0	25.91	25.92	25.94	25.50	25.46	25.52	25.38	25.45	25.46	24.68	24.63	**24.70**
		1	12	**26.00**	**26.00**	**25.99**	**25.60**	**25.60**	**25.60**	**25.50**	**25.50**	**25.50**	**24.70**	**24.70**	24.67
		1	24	25.88	25.87	25.90	25.51	25.49	25.48	25.37	25.41	25.42	24.62	24.59	24.63
		12	0	25.80	25.74	25.81	24.99	24.90	24.98	25.30	25.29	25.30	23.76	23.74	23.75
		12	6	25.83	25.82	25.96	25.04	24.98	25.09	25.35	25.38	25.32	23.83	23.76	23.78
		12	11	25.78	25.80	25.90	25.00	24.96	25.04	25.29	25.34	25.36	23.77	23.71	23.74
		25	0	24.93	24.95	24.99	24.39	24.46	24.54	24.31	24.51	24.44	23.53	23.70	23.49
	16QAM	1	0	**24.99**	24.90	24.77	**24.56**	24.39	24.46	24.38	24.42	24.38	**23.49**	23.41	23.55
		1	12	24.77	24.73	24.72	24.51	**24.45**	**24.55**	24.33	24.54	**24.48**	23.42	23.48	23.43
		1	24	24.85	24.85	24.74	24.54	24.42	24.37	**24.48**	**24.56**	24.24	23.48	**23.69**	**23.56**
		12	0	24.87	24.83	24.78	24.02	23.90	24.05	24.38	24.29	24.36	22.75	22.76	22.83
		12	6	24.90	**24.90**	**24.97**	24.11	24.05	24.15	24.36	24.45	24.38	22.83	22.84	22.82
		12	11	24.84	24.81	24.84	24.07	23.99	24.06	24.32	24.35	24.39	22.78	22.79	22.75
		25	0	23.70	23.84	23.99	23.49	23.44	23.52	23.26	23.31	23.20	22.55	22.54	22.49
	64QAM	1	0	23.81	23.71	23.87	23.45	**23.60**	**23.48**	23.40	23.33	23.21	22.50	22.48	22.51
		1	12	**23.96**	23.73	23.91	23.44	23.32	23.30	23.39	23.30	**23.50**	22.49	**22.69**	22.51
		1	24	23.95	**23.97**	23.79	**23.55**	23.59	**23.48**	23.24	**23.56**	23.45	**22.56**	22.62	**22.53**
		12	0	23.77	23.83	23.85	23.10	22.91	23.00	23.41	23.21	23.36	21.81	21.77	21.76
		12	6	23.89	23.93	**23.98**	23.07	23.07	23.13	**23.43**	23.47	23.37	21.78	21.82	21.80
		12	11	23.86	23.83	23.92	23.02	23.03	23.13	23.34	23.40	23.41	21.76	21.70	21.80
		25	0	22.96	22.95	22.72	22.42	22.42	22.47	22.38	22.54	22.25	21.69	21.42	21.52
	256QAM	1	0	20.83	20.74	20.90	20.40	20.31	20.30	20.20	20.46	20.42	19.64	19.43	19.55
		1	12	20.81	**20.98**	20.76	20.53	20.59	20.44	**20.46**	**20.54**	**20.50**	19.44	19.46	19.54
		1	24	20.95	20.88	**20.98**	20.54	**20.60**	20.35	20.33	20.33	20.48	19.58	19.68	**19.70**
		12	0	**20.96**	20.96	20.71	20.54	20.44	20.44	20.30	20.33	20.33	19.41	19.40	19.69
		12	6	**20.96**	20.76	20.70	20.36	20.35	**20.55**	20.45	20.31	20.34	19.49	19.68	19.45
		12	11	20.87	20.97	**20.98**	20.48	20.47	20.33	**20.46**	20.53	20.44	**19.68**	19.46	19.51
		25	0	20.71	20.71	20.77	**20.60**	20.50	20.51	20.27	20.35	20.48	19.43	**19.70**	19.60

OUTPUT POWER FOR LTE BAND 48 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55290	55990	56690	55290	55990	56690	55290	55990	56690	55290	55990	56690
				3555.0	3625.0	3695.0	3555.0	3625.0	3695.0	3555.0	3625.0	3695.0	3555.0	3625.0	3695.0
10.0	QPSK	1	0	25.87	25.94	25.96	25.54	25.50	25.57	25.38	25.35	25.48	24.64	24.62	24.65
		1	24	25.95	**25.96**	**26.00**	25.56	**25.60**	25.57	**25.50**	**25.50**	**25.50**	24.65	24.68	**24.70**
		1	49	**26.00**	25.89	25.94	**25.60**	**25.60**	**25.60**	25.49	25.29	25.47	**24.70**	**24.70**	24.63
		25	0	25.84	25.80	25.84	25.03	24.90	25.09	25.29	25.26	25.38	23.78	23.70	23.76
		25	12	25.89	25.88	25.92	25.04	24.99	25.16	25.38	25.35	25.39	23.78	23.76	23.74
		25	24	25.86	25.86	25.87	25.02	24.96	25.14	25.37	25.30	25.45	23.76	23.73	23.77
		50	0	25.00	24.73	24.88	24.57	24.33	24.44	24.53	24.39	24.26	23.40	23.47	23.70
	16QAM	1	0	**24.93**	**24.95**	24.88	24.48	24.36	**24.54**	**24.54**	**24.52**	24.38	23.47	23.48	23.68
		1	24	24.86	24.88	24.77	24.32	24.52	24.33	24.25	24.22	24.45	**23.61**	**23.55**	**23.69**
		1	49	24.77	24.85	**24.98**	**24.53**	**24.56**	24.50	24.50	24.25	**24.54**	23.54	23.46	23.50
		25	0	24.89	24.83	24.86	24.08	23.94	24.13	24.31	24.29	24.43	22.78	22.73	22.78
		25	12	24.91	24.94	24.91	24.10	24.05	24.21	24.41	24.36	24.44	22.81	22.81	22.79
		25	24	24.89	24.82	24.90	24.07	24.02	24.18	24.42	24.36	24.48	22.76	22.77	22.82
		50	0	23.70	23.83	23.85	23.39	23.34	23.43	23.46	23.37	23.31	22.48	22.68	22.50
	64QAM	1	0	23.82	23.80	23.79	**23.45**	23.33	**23.56**	23.38	23.27	23.46	22.51	**22.55**	**22.67**
		1	24	**23.99**	23.77	23.80	**23.45**	**23.53**	**23.56**	23.38	**23.47**	23.31	22.50	22.51	22.56
		1	49	23.88	23.78	23.94	23.32	23.31	23.49	**23.44**	23.42	23.39	**22.69**	22.52	22.57
		25	0	23.86	23.79	23.87	23.04	22.92	23.14	23.32	23.27	23.43	21.80	21.70	21.78
		25	12	23.89	**23.90**	**23.96**	23.08	23.03	23.23	23.42	23.36	23.45	21.81	21.79	21.78
		25	24	23.88	23.88	23.95	23.04	23.00	23.18	23.41	23.36	**23.47**	21.79	21.78	21.80
		50	0	22.92	22.76	22.93	22.31	22.55	22.58	22.38	22.49	22.52	21.45	21.55	21.53
	256QAM	1	0	20.70	20.87	20.92	20.45	20.46	20.41	20.41	**20.50**	20.41	**19.69**	19.43	**19.70**
		1	24	20.76	20.83	20.86	20.49	**20.59**	20.39	**20.50**	20.43	**20.48**	19.66	19.40	19.52
		1	49	20.92	20.84	**20.93**	20.39	20.35	20.39	20.43	20.23	20.43	19.50	19.50	19.41
		25	0	20.79	**20.96**	20.82	**20.56**	20.55	20.38	20.27	20.25	20.38	19.54	**19.70**	19.64
		25	12	20.72	20.80	20.75	20.32	20.46	20.50	20.33	**20.50**	20.40	19.59	**19.70**	19.49
		25	24	**20.98**	20.78	20.86	20.33	20.31	**20.57**	20.30	20.48	20.30	19.45	19.61	19.43
		50	0	20.92	20.95	20.73	20.40	20.58	20.55	20.30	20.33	20.47	19.40	19.64	19.40

OUTPUT POWER FOR LTE BAND 48 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55315	55940	56665	55315	55940	56665	55315	55940	56665	55315	55940	56665
				3557.5	3620.0	3692.5	3557.5	3620.0	3692.5	3557.5	3620.0	3692.5	3557.5	3620.0	3692.5
15.0	QPSK	1	0	25.88	25.97	25.88	25.48	25.48	**25.60**	25.50	25.45	**25.50**	24.42	24.63	24.58
		1	37	**26.00**	25.92	**26.00**	**25.60**	25.50	25.57	25.47	**25.50**	25.47	24.49	**24.70**	24.65
		1	74	25.99	**26.00**	25.88	25.53	**25.60**	25.58	**25.50**	25.45	25.49	**24.70**	24.63	**24.70**
		36	0	25.82	25.74	25.69	24.98	24.89	25.01	25.30	25.29	25.24	23.49	23.73	23.69
		36	16	25.83	25.83	25.70	24.98	24.99	25.02	25.31	25.28	25.32	23.60	23.74	23.70
		36	35	25.85	25.85	25.80	24.99	25.03	25.09	25.35	25.35	25.33	23.69	23.74	23.81
		75	0	24.72	24.84	24.83	24.58	24.36	24.55	24.31	24.35	24.43	23.58	23.70	23.66
	16QAM	1	0	24.88	24.86	24.76	24.48	24.37	**24.57**	24.33	24.24	24.38	**23.62**	23.42	**23.63**
		1	37	24.86	24.85	**24.99**	24.39	**24.48**	24.56	**24.47**	24.30	24.38	23.53	**23.67**	23.59
		1	74	24.75	24.89	24.94	**24.56**	24.39	**24.57**	24.33	24.37	24.38	23.42	23.52	23.43
		36	0	24.84	24.77	24.72	24.02	23.91	24.02	24.33	24.32	24.39	22.54	22.78	22.69
		36	16	24.88	24.88	24.74	23.99	24.01	24.03	24.42	24.37	24.35	22.65	22.76	22.73
		36	35	**24.91**	**24.90**	24.84	24.04	24.05	24.13	24.42	**24.39**	**24.44**	22.71	22.78	22.86
		75	0	23.94	23.91	23.70	23.39	23.41	23.47	23.50	23.34	23.50	22.62	22.42	22.68
	64QAM	1	0	**23.95**	23.81	23.94	23.30	23.35	23.52	23.29	23.25	23.25	22.62	**22.52**	22.53
		1	37	23.72	23.88	23.83	**23.54**	**23.42**	**23.56**	**23.49**	23.22	23.44	**22.62**	22.45	**22.59**
		1	74	23.91	**23.98**	**23.96**	23.48	23.37	23.43	23.40	**23.49**	23.22	22.59	22.51	22.43
		36	0	23.86	23.74	23.73	23.01	22.90	23.06	23.31	23.32	23.40	21.53	21.78	21.74
		36	16	23.87	23.84	23.73	23.03	23.01	23.02	23.41	23.40	23.40	21.63	21.81	21.79
		36	35	23.86	23.90	23.83	23.01	23.02	23.13	23.44	23.40	**23.48**	21.71	21.80	21.88
		75	0	22.91	22.86	22.85	22.50	22.58	22.39	22.40	22.20	22.35	21.63	21.62	21.57
	256QAM	1	0	20.72	20.77	20.80	20.38	20.51	20.47	20.31	**20.48**	20.33	19.48	19.65	19.45
		1	37	20.86	20.87	20.79	20.44	20.34	20.50	**20.52**	20.37	20.47	19.61	19.42	19.54
		1	74	20.95	20.75	20.77	**20.58**	20.50	20.51	20.29	20.34	20.43	19.53	19.55	**19.66**
		36	0	**20.98**	20.83	**20.86**	20.51	**20.57**	**20.56**	20.35	20.41	20.35	19.55	19.45	19.56
		36	16	20.82	**21.00**	20.81	20.54	20.42	20.47	20.30	20.34	**20.50**	19.59	19.51	19.57
		36	35	20.79	20.93	**20.86**	20.37	20.33	20.46	20.43	20.42	20.48	**19.68**	19.43	19.51
		75	0	20.70	20.98	20.70	20.33	20.39	20.30	20.46	20.34	20.33	19.61	**19.69**	19.44

OUTPUT POWER FOR LTE BAND 48 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55340	55940	56640	55340	55940	56640	55340	55940	56640	55340	55940	56640
				3560	3620.0	3690	3560	3620.0	3690	3560	3620.0	3690	3560	3620.0	3690
20.0	QPSK	1	0	25.81	25.87	25.91	25.52	25.43	**25.60**	**25.50**	**25.50**	**25.50**	24.29	24.69	24.55
		1	49	25.86	25.94	25.99	25.55	25.56	25.59	25.45	25.48	25.44	24.45	**24.70**	24.55
		1	99	**25.89**	**26.00**	**26.00**	**25.60**	**25.60**	25.58	25.49	25.46	25.41	**24.70**	24.69	**24.70**
		50	0	25.67	25.68	25.76	24.90	24.85	25.03	25.35	25.27	25.30	23.34	23.80	23.62
		50	24	25.79	25.81	25.88	25.03	24.96	25.13	25.39	25.33	25.30	23.53	23.80	23.64
		50	49	25.80	25.82	25.89	25.02	24.97	25.08	25.35	25.24	25.36	23.64	23.79	23.65
		100	0	24.87	24.92	24.94	24.58	24.51	24.54	24.41	24.32	24.41	23.53	23.59	23.61
	16QAM	1	0	24.71	24.71	24.75	**24.58**	24.40	24.39	**24.45**	**24.46**	24.37	**23.59**	23.44	**23.70**
		1	49	24.79	**24.96**	24.84	24.34	24.51	**24.59**	24.40	24.23	**24.44**	23.49	23.60	23.62
		1	99	**24.83**	24.90	**24.93**	24.53	**24.56**	24.37	24.36	24.44	24.27	23.44	**23.61**	23.68
		50	0	24.66	24.71	24.77	23.92	23.84	24.05	24.36	24.32	24.35	22.33	22.79	22.63
		50	24	24.79	24.83	24.86	24.02	23.98	24.15	24.41	24.35	24.35	22.55	22.83	22.65
		50	49	24.80	24.85	24.88	24.03	23.99	24.10	24.39	24.37	24.39	22.65	22.78	22.75
		100	0	23.79	23.87	23.76	23.54	23.45	23.58	23.49	23.35	23.27	22.54	22.49	22.65
	64QAM	1	0	**23.98**	23.75	23.76	**23.59**	23.43	23.48	**23.62**	23.27	23.43	22.44	22.51	22.43
		1	49	23.92	**23.99**	**24.00**	23.33	23.46	**23.54**	23.55	23.29	23.29	22.46	**22.67**	22.40
		1	99	23.89	23.76	23.74	23.58	**23.58**	23.51	23.51	**23.49**	23.20	**22.62**	22.49	**22.51**
		50	0	23.67	23.69	23.77	22.94	22.84	23.07	23.38	23.33	23.43	21.35	21.84	21.68
		50	24	23.79	23.81	23.89	23.03	22.98	23.14	23.45	23.41	23.40	21.53	21.86	21.68
		50	49	23.78	23.81	23.88	23.02	23.00	23.10	23.41	23.40	**23.46**	21.62	21.80	21.81
		100	0	22.79	22.99	23.00	22.30	22.53	22.35	22.52	22.40	22.39	21.56	21.41	21.66
	256QAM	1	0	**21.00**	**21.00**	20.74	20.40	20.34	20.33	20.56	20.39	20.26	19.34	19.46	19.63
		1	49	20.94	20.81	20.84	20.52	20.40	20.59	20.54	20.28	**20.50**	19.55	**19.70**	19.45
		1	99	20.93	20.83	**20.93**	20.48	20.33	20.47	20.58	20.38	20.46	**19.64**	19.65	19.67
		50	0	20.72	20.85	20.76	20.57	20.41	20.47	**20.63**	20.28	20.32	19.34	19.57	19.69
		50	24	20.71	20.97	20.73	20.51	20.36	**20.60**	20.48	**20.50**	20.42	19.54	**19.70**	**19.69**
		50	49	20.80	20.95	20.81	**20.59**	**20.45**	20.51	**20.63**	20.34	20.28	19.61	19.60	19.44
		100	0	20.81	**21.00**	20.77	20.48	20.42	20.55	20.34	20.28	20.22	19.51	19.47	19.57

8.2. 5G NR n48

Test Engineer ID:	32061	Test Date:	2025-01-28

OUTPUT POWER FOR 5G NR n48 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				637000	641666	646333	637000	641666	646333	637000	641666	646333	637000	641666	646333
				3555.0	3625.0	3695.0	3555.0	3625.0	3695.0	3555.0	3625.0	3695.0	3555.0	3625.0	3695.0
10.0	BPSK	1	0	25.01	25.49	25.39	24.84	25.06	25.08	24.75	24.94	24.96	23.74	24.03	24.12
		1	1	25.53	25.96	**25.85**	25.16	**25.59**	**25.57**	25.05	25.37	**25.50**	24.20	**24.63**	24.48
		1	22	**25.97**	25.96	25.69	**25.60**	25.36	25.49	**25.46**	**25.50**	25.18	**24.69**	24.48	**24.67**
		1	23	25.36	25.39	25.37	25.01	25.10	25.10	24.84	24.90	24.89	24.17	24.13	24.07
		12	6	25.72	**26.00**	25.70	25.33	25.40	25.46	25.18	25.47	25.17	24.56	24.46	24.55
		24	0	25.39	25.30	25.42	24.93	25.07	25.08	24.78	24.91	24.79	24.11	24.10	24.16
	QPSK	1	0	24.76	24.83	24.90	24.38	24.43	24.57	24.22	24.35	24.48	23.37	23.56	23.65
		1	1	25.61	**26.00**	**26.00**	25.26	**25.60**	**25.60**	25.18	25.41	**25.45**	24.36	**24.70**	24.52
		1	22	**26.00**	25.94	25.70	**25.59**	25.35	25.51	**25.50**	**25.43**	25.16	**24.70**	24.49	**24.70**
		1	23	24.97	24.86	24.91	24.42	24.50	24.46	24.46	24.32	24.39	23.66	23.66	23.58
		12	6	25.63	**26.00**	25.72	25.33	25.54	25.53	25.15	**25.43**	25.12	24.55	24.45	24.53
		24	0	24.95	24.91	24.94	24.58	24.56	24.51	24.47	24.40	24.50	23.68	23.68	23.70
	16QAM	1	0	23.69	23.92	23.96	23.33	23.60	23.46	23.17	23.45	23.50	22.31	22.70	22.56
		1	1	24.75	24.96	**24.95**	24.28	24.45	24.59	24.35	**24.50**	**24.42**	23.43	23.50	23.60
		1	22	**24.91**	24.90	24.90	**24.55**	24.45	24.57	24.35	24.48	24.34	**23.64**	**23.58**	**23.61**
		1	23	23.87	23.91	23.75	23.52	23.41	23.51	23.47	23.39	23.29	22.50	22.57	22.58
		12	6	24.81	**25.00**	24.86	24.42	**24.57**	**24.60**	**24.41**	24.49	24.32	**23.64**	**23.58**	23.56
		24	0	23.82	23.89	23.86	23.40	23.53	23.55	23.39	23.32	23.35	22.60	22.63	22.64
	64QAM	1	0	23.20	23.38	23.37	22.67	**23.10**	**23.08**	22.74	**23.00**	22.96	21.90	22.15	22.09
		1	1	23.16	**23.48**	**23.47**	22.94	22.92	23.00	22.66	22.94	**22.99**	21.84	22.17	22.09
		1	22	**23.50**	23.33	23.32	23.08	**23.10**	22.90	**22.96**	**23.00**	22.65	22.06	**22.18**	**22.16**
		1	23	23.43	23.46	23.23	**23.09**	22.92	23.00	22.80	22.87	22.77	**22.17**	22.15	22.09
		12	6	23.33	23.32	23.39	22.92	23.01	**23.08**	22.83	22.82	22.84	22.15	22.06	22.11
		24	0	23.28	23.36	23.33	22.91	23.05	23.07	22.86	22.89	22.90	22.11	22.15	22.12
	256QAM	1	0	21.23	21.40	21.34	20.67	20.98	21.00	20.76	20.92	**20.97**	19.80	20.05	20.01
		1	1	21.17	21.39	21.32	20.83	20.90	**21.08**	20.70	20.81	20.87	19.92	20.09	20.09
		1	22	**21.44**	21.46	21.28	**20.98**	21.09	21.04	20.80	20.95	20.87	20.18	20.13	20.11
		1	23	21.37	**21.50**	21.18	20.95	20.82	21.06	20.82	**20.96**	20.91	**20.20**	20.05	20.09
		12	6	21.30	21.43	21.29	20.86	21.08	21.01	**20.87**	20.83	20.82	20.11	20.11	**20.15**
		24	0	21.28	21.49	**21.37**	20.92	**21.10**	20.96	20.86	20.95	20.87	20.06	**20.17**	20.10

OUTPUT POWER FOR 5G NR n48 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	ANT 7			ANT 8			ANT 9			ANT 4		
				637166	641333	646166	637166	641333	646166	637166	641333	646166	637166	641333	646166
				3557.5	3620.0	3692.5	3557.5	3620.0	3692.5	3557.5	3620.0	3692.5	3557.5	3620.0	3692.5
15.0	BPSK	1	0	25.48	25.45	25.36	24.38	25.05	25.10	24.37	24.75	24.81	23.95	24.20	24.07
		1	1	**25.94**	**25.93**	25.88	24.83	**25.60**	**25.60**	24.66	24.97	**25.50**	24.25	**24.64**	24.31
		1	36	25.85	25.86	**26.00**	**25.60**	25.37	25.31	**25.50**	**25.50**	24.79	24.51	24.30	**24.70**
		1	37	25.41	25.37	25.44	25.06	25.05	24.96	24.80	24.99	24.52	24.03	23.99	24.16
		18	9	**25.94**	**25.93**	25.95	25.15	25.56	25.37	24.94	25.26	25.00	**24.70**	24.50	24.42
		36	0	23.00	25.30	25.49	22.60	25.01	24.94	23.00	24.83	24.66	21.70	24.12	23.94
	QPSK	1	0	24.95	24.81	24.84	24.12	24.52	24.45	23.95	24.25	24.37	23.45	23.58	23.54
		1	1	**26.00**	**26.00**	25.88	24.89	**25.60**	**25.49**	24.66	25.02	**25.48**	24.23	**24.70**	24.39
		1	36	25.86	25.95	**25.97**	**25.57**	25.40	25.29	**25.50**	**25.44**	24.78	24.48	24.33	**24.57**
		1	37	24.83	24.98	24.97	24.56	24.58	24.53	24.38	24.43	23.98	23.66	23.52	23.58
		18	9	25.91	25.96	25.93	25.18	25.58	25.37	24.96	25.34	24.98	**24.63**	24.59	24.29
		36	0	23.00	24.89	24.92	22.60	24.56	24.51	23.00	24.44	24.26	21.70	23.67	23.50
	16QAM	1	0	23.98	23.84	23.96	22.97	23.58	23.50	22.77	23.08	23.47	22.30	22.66	22.43
		1	1	24.80	24.94	**24.94**	23.95	24.40	24.37	23.85	24.24	**24.34**	23.39	**23.67**	23.46
		1	36	**24.96**	24.91	24.84	**24.59**	24.52	**24.43**	**24.50**	**24.48**	23.73	23.54	23.16	**23.57**
		1	37	23.97	23.99	23.88	23.40	23.47	23.14	23.43	23.40	22.97	22.51	22.36	22.59
		18	9	24.88	**24.99**	24.92	24.19	**24.54**	24.34	23.97	24.26	24.06	**23.60**	23.43	23.37
		36	0	23.00	23.87	23.92	22.60	23.53	23.40	23.00	23.44	23.07	21.70	22.49	22.38
	64QAM	1	0	23.33	**23.47**	23.36	22.55	**23.01**	**23.07**	22.29	22.62	**22.92**	21.83	**22.14**	21.88
		1	1	23.43	23.39	23.38	22.50	22.93	23.03	22.33	22.76	22.88	21.86	22.08	21.73
		1	36	23.43	23.39	**23.50**	**23.10**	22.91	22.90	22.87	22.81	22.20	22.11	21.90	22.07
		1	37	23.47	**23.47**	23.42	23.05	22.95	22.87	22.99	22.93	22.19	21.95	21.80	**22.11**
		18	9	**23.48**	23.31	23.37	22.64	22.97	22.78	22.47	22.88	22.50	**22.13**	21.96	21.97
		36	0	23.00	23.44	23.42	22.60	22.91	22.90	**23.00**	**23.00**	22.59	21.70	21.97	21.93
	256QAM	1	0	21.43	21.36	**21.50**	20.25	**21.10**	**21.08**	20.23	20.69	20.80	19.68	19.98	19.85
		1	1	21.44	21.30	21.34	20.34	21.00	21.02	20.33	20.84	**20.83**	19.78	**20.11**	19.72
		1	36	**21.48**	21.36	21.38	**21.02**	**21.10**	20.92	20.91	**20.98**	20.15	20.08	19.72	20.08
		1	37	21.40	21.32	21.43	20.96	21.07	20.83	**20.98**	20.95	20.30	19.87	19.76	**20.10**
		18	9	21.45	21.38	21.45	20.59	20.91	20.75	20.45	20.97	20.46	**20.16**	19.97	19.82
		36	0	21.46	**21.39**	21.45	20.62	**21.10**	20.88	20.54	20.96	20.57	20.12	19.96	19.97

OUTPUT POWER FOR 5G NR n48 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				637333	641333	646000	637333	641333	646000	637333	641333	646000	637333	641333	646000
				3560.0	3620.0	3690.0	3560.0	3620.0	3690.0	3560.0	3620.0	3690.0	3560.0	3620.0	3690.0
20.0	BPSK	1	0	25.31	25.49	25.32	24.35	25.00	25.06	24.43	24.81	24.87	23.98	24.20	24.06
		1	1	**26.00**	**25.99**	**25.96**	24.65	**25.51**	**25.60**	24.81	25.08	**25.39**	24.38	**24.57**	**24.66**
		1	49	25.84	25.66	25.90	**25.60**	25.17	25.12	**25.50**	**25.46**	24.39	24.09	24.23	24.64
		1	50	25.32	25.30	25.48	25.07	24.83	24.91	24.92	24.84	24.08	23.74	23.88	24.05
		25	12	25.91	25.82	25.85	25.13	25.48	25.30	25.21	25.42	24.84	**24.70**	24.44	24.35
		50	0	23.00	25.32	25.45	22.60	25.09	25.30	23.00	25.00	24.68	21.70	24.17	24.20
	QPSK	1	0	24.92	24.82	24.99	23.84	24.54	24.58	23.93	24.36	24.49	23.54	23.51	23.52
		1	1	**25.96**	**26.00**	**26.00**	24.69	**25.60**	**25.53**	24.81	25.11	**25.50**	24.35	**24.70**	24.67
		1	49	25.90	25.73	25.95	**25.59**	25.24	25.20	**25.48**	25.49	24.48	24.12	24.24	**24.70**
		1	50	24.99	24.92	24.87	24.40	24.46	24.37	24.42	24.30	23.57	23.24	23.37	23.57
		25	12	25.90	25.87	25.87	25.08	**25.60**	25.26	25.23	**25.50**	24.84	**24.64**	24.46	24.44
		50	0	23.00	25.00	24.89	22.60	24.58	24.51	23.00	24.32	24.20	21.70	23.55	23.65
	16QAM	1	0	23.97	23.95	23.93	22.86	23.49	23.56	22.81	23.11	23.40	22.31	22.68	22.66
		1	1	24.83	**24.97**	24.85	23.78	24.40	24.45	23.80	24.28	**24.39**	23.49	**23.61**	**23.68**
		1	49	24.81	24.88	**24.90**	**24.54**	24.33	24.23	**24.38**	24.39	23.64	23.24	23.45	**23.68**
		1	50	23.82	23.82	23.88	23.48	23.21	23.09	23.50	23.47	22.78	22.00	22.23	22.57
		25	12	**24.93**	24.94	**24.90**	24.26	**24.59**	**24.49**	24.34	**24.45**	23.94	**23.55**	**23.61**	23.46
		50	0	23.00	23.98	23.96	22.60	23.48	23.52	23.00	23.33	23.03	21.70	22.60	22.58
	64QAM	1	0	23.46	**23.50**	23.30	22.16	**22.98**	**23.04**	22.34	22.69	22.85	21.91	22.07	**22.16**
		1	1	23.38	23.44	23.33	22.47	22.94	22.97	22.38	22.80	**22.91**	21.96	**22.13**	22.13
		1	49	23.37	23.40	23.32	22.91	22.86	22.83	22.88	22.91	22.20	21.67	21.82	22.03
		1	50	23.39	23.38	23.47	**23.07**	22.91	22.74	22.97	22.87	21.95	21.70	21.85	22.09
		25	12	**23.47**	23.47	23.45	22.69	22.96	22.88	22.75	22.84	22.49	**22.04**	22.09	22.09
		50	0	23.00	23.48	**23.50**	22.60	22.97	22.94	**23.00**	**23.00**	22.58	21.70	22.08	**22.16**
	256QAM	1	0	21.43	21.43	**21.45**	20.31	20.93	20.93	20.33	20.78	20.89	19.72	20.03	**20.20**
		1	1	21.46	21.45	**21.45**	20.01	**21.10**	**20.98**	20.21	20.67	**20.91**	19.84	**20.15**	20.14
		1	49	21.27	21.29	21.12	20.94	20.75	20.34	20.91	20.84	19.61	19.64	19.78	20.16
		1	50	21.36	21.30	21.19	**20.96**	20.78	20.51	**20.99**	20.93	19.82	19.68	19.66	20.06
		25	12	**21.47**	21.38	21.20	20.64	20.95	20.73	20.81	20.98	20.10	**20.20**	20.08	20.12
		50	0	21.41	**21.50**	21.23	20.72	21.01	20.76	20.77	**20.99**	20.21	20.13	20.11	20.12

OUTPUT POWER FOR 5G NR n48 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				637666	641666	645666	637666	641666	645666	637666	641666	645666	637666	641666	645666
				3565.0	3625.0	3685.0	3565.0	3625.0	3685.0	3565.0	3625.0	3685.0	3565.0	3625.0	3685.0
30.0	BPSK	1	0	25.30	25.30	25.49	24.43	24.97	25.06	24.69	24.82	24.71	24.03	24.01	24.10
		1	1	**25.98**	**25.87**	**25.99**	24.69	**25.59**	**25.60**	24.98	25.17	25.10	**24.60**	**24.64**	24.60
		1	76	**25.98**	25.48	25.90	**25.57**	24.86	25.03	24.81	24.96	24.86	24.30	24.38	**24.65**
		1	77	25.40	25.24	25.46	25.08	24.66	24.75	24.41	24.59	24.48	24.06	24.18	24.05
		36	18	25.81	25.54	25.70	25.17	25.38	24.94	**25.50**	**25.37**	**25.42**	24.43	24.27	24.19
		75	0	20.00	25.38	20.00	19.60	25.02	19.60	20.00	24.93	20.00	18.70	24.05	18.70
	QPSK	1	0	24.90	24.84	25.00	23.83	24.47	24.47	24.21	24.39	24.24	23.63	23.67	23.69
		1	1	**26.00**	**26.00**	**26.00**	24.68	**25.60**	**25.56**	24.97	25.17	25.07	**24.70**	**24.70**	**24.70**
		1	76	**26.00**	25.56	25.93	**25.60**	24.99	25.10	24.84	25.00	24.85	24.31	24.60	24.47
		1	77	24.93	24.81	24.89	24.47	24.18	24.24	24.00	24.23	24.12	23.49	23.67	23.64
		36	18	25.89	25.68	25.82	25.13	25.42	25.01	**25.50**	**25.50**	**25.50**	24.52	24.37	24.17
		75	0	20.00	24.91	20.00	19.60	24.59	19.60	20.00	24.38	20.00	18.70	23.61	18.70
	16QAM	1	0	23.89	23.83	23.93	22.93	23.59	23.58	23.14	23.25	23.13	22.67	22.62	22.60
		1	1	24.81	24.83	24.85	23.85	24.52	**24.58**	23.92	**24.45**	24.04	**23.69**	**23.67**	**23.66**
		1	76	**24.95**	24.82	24.81	**24.51**	23.83	23.86	23.86	24.21	24.04	23.50	23.59	23.59
		1	77	23.80	23.73	23.80	23.59	23.08	23.07	22.86	23.09	22.85	22.43	22.64	22.51
		36	18	24.91	**24.85**	**24.90**	24.28	**24.54**	24.14	**24.35**	24.40	**24.39**	23.58	23.46	23.34
		75	0	20.00	23.85	20.00	19.60	23.49	19.60	20.00	23.48	20.00	18.70	22.52	18.70
	64QAM	1	0	23.44	23.45	23.46	22.18	22.94	23.06	22.68	22.88	22.49	22.16	**22.13**	**22.19**
		1	1	23.37	**23.49**	23.39	22.47	23.06	**23.07**	22.67	22.69	22.51	21.95	22.09	22.07
		1	76	23.40	23.10	**23.50**	23.01	22.40	22.63	22.25	22.21	22.42	21.81	**22.13**	22.05
		1	77	23.47	23.34	23.48	**23.05**	22.47	22.79	22.33	22.25	22.45	21.74	**22.13**	22.10
		36	18	**23.49**	23.40	23.39	22.87	23.04	22.65	**22.82**	**22.99**	**22.80**	**22.18**	21.95	21.83
		75	0	20.00	23.33	20.00	19.60	**23.08**	19.60	20.00	22.88	20.00	18.70	22.05	18.70
	256QAM	1	0	21.47	21.40	21.43	20.32	20.91	20.96	20.47	20.77	20.59	**20.20**	20.00	20.11
		1	1	21.44	21.34	21.35	20.27	21.05	**21.10**	20.68	20.71	20.50	20.12	20.19	20.08
		1	76	21.48	21.41	21.35	**20.92**	20.54	20.55	20.28	20.77	20.58	19.87	20.02	19.95
		1	77	21.47	21.14	**21.46**	**20.92**	20.57	20.56	20.28	20.49	20.40	19.90	**20.20**	**20.13**
		36	18	**21.49**	21.32	21.41	20.85	**21.06**	20.58	**20.96**	**20.98**	**20.82**	20.17	19.90	19.80
		75	0	20.00	**21.42**	20.00	19.60	21.02	19.60	20.00	20.83	20.00	18.70	19.98	18.70

OUTPUT POWER FOR 5G NR n48 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				638000	641333	645333	638000	641333	645333	638000	641333	645333	638000	641333	645333
				3570.0	3620.0	3680.0	3570.0	3620.0	3680.0	3570.0	3620.0	3680.0	3570.0	3620.0	3680.0
40.0	BPSK	1	0	25.49	25.35	25.35	24.58	25.05	25.03	24.98	24.92	24.96	24.08	24.00	23.87
		1	1	**26.00**	**25.83**	**25.94**	24.84	**25.60**	**25.60**	25.29	**25.50**	25.16	24.57	**24.70**	24.27
		1	104	25.97	25.44	25.89	25.33	24.78	25.09	**25.50**	24.73	25.02	**24.68**	24.50	24.63
		1	105	25.36	25.18	25.38	24.79	24.61	24.73	25.00	24.43	24.70	24.17	24.05	24.06
		50	25	25.84	25.68	25.84	**25.56**	25.50	25.42	25.45	25.21	**25.47**	24.34	24.56	**24.65**
		100	0	20.00	25.32	20.00	19.60	25.06	19.60	20.00	24.98	20.00	18.70	24.07	18.70
	QPSK	1	0	24.90	24.82	24.91	24.04	24.52	24.44	24.44	24.46	24.38	23.68	23.51	23.55
		1	1	**25.99**	**26.00**	**26.00**	24.87	**25.48**	**25.59**	25.34	**25.46**	25.23	24.65	**24.64**	24.31
		1	104	25.86	25.55	25.88	25.21	24.92	24.99	**25.48**	24.74	24.92	**24.70**	24.47	**24.70**
		1	105	24.84	24.72	24.81	24.39	24.02	24.04	24.33	23.87	24.16	23.55	23.60	23.53
		50	25	25.80	25.75	25.88	**25.60**	25.42	25.36	25.45	25.23	**25.50**	24.33	24.53	24.60
		100	0	20.00	24.93	20.00	19.60	24.60	19.60	20.00	24.44	20.00	18.70	23.50	18.70
	16QAM	1	0	23.92	24.00	23.96	22.71	23.57	23.41	23.37	23.40	23.30	22.53	22.62	22.04
		1	1	24.89	24.87	**25.00**	24.02	24.41	24.41	24.46	**24.49**	24.24	23.56	23.52	23.17
		1	104	**24.90**	24.37	24.84	24.29	23.70	24.03	**24.50**	23.94	24.27	**23.70**	23.57	23.55
		1	105	23.93	23.68	23.92	23.30	22.82	23.01	23.35	22.83	22.89	22.59	22.54	22.57
		50	25	24.87	**25.00**	24.88	**24.52**	**24.52**	**24.49**	24.43	24.31	**24.36**	23.41	**23.62**	**23.59**
		100	0	20.00	23.99	2.00	19.60	23.53	19.60	20.00	23.27	20.00	18.70	22.62	18.70
	64QAM	1	0	23.38	23.39	23.30	22.57	22.92	22.90	22.90	22.71	**22.97**	21.97	22.03	21.91
		1	1	**23.41**	23.45	23.35	22.57	23.00	22.88	22.73	**22.89**	22.72	22.04	22.05	21.98
		1	104	23.18	23.35	23.35	**23.02**	22.24	22.58	22.89	22.09	22.57	**22.19**	21.92	22.14
		1	105	22.98	23.34	23.46	22.83	22.67	22.47	22.86	22.54	22.75	22.13	21.91	**22.15**
		50	25	23.18	**23.48**	**23.48**	**23.02**	**23.05**	**22.91**	**23.00**	22.87	22.89	21.94	**22.12**	22.08
		100	0	20.00	23.39	20.00	19.60	**23.05**	19.60	20.00	22.78	20.00	18.70	**22.12**	18.70
	256QAM	1	0	**21.47**	21.37	**21.50**	20.33	20.89	**21.06**	20.80	20.81	**20.94**	19.99	**20.19**	19.88
		1	1	21.10	21.42	21.31	20.49	**20.97**	20.94	20.80	**20.86**	20.65	20.10	20.11	19.85
		1	104	20.85	21.08	21.44	20.61	20.35	20.54	**20.93**	20.24	20.35	**20.15**	20.01	20.04
		1	105	20.81	21.05	21.41	20.65	20.55	20.69	20.82	20.28	20.42	20.02	19.89	**20.20**
		50	25	21.10	21.37	21.40	**20.99**	**20.97**	21.04	20.86	20.82	20.84	20.00	20.11	20.09
		100	0	20.00	**21.46**	20.00	19.60	20.94	19.60	20.00	20.81	20.00	18.70	20.12	18.70

8.3. LTE ULCA BAND 48B

Test Engineer ID:	32061	Test Date:	2025-03-20

OUTPUT POWER FOR LTE ULCA BAND 48B (10.0MHz + 10.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
10MHz/ 10MHz	3555.0	3564.9	1	49	1	0	**25.00**	**24.82**	22.69	20.54	**24.60**	**24.04**	21.99	20.04	**25.00**	24.74	22.80	20.69	**23.70**	22.66	20.70	18.67
			1	0	1	49	14.93	14.90	15.00	14.89	14.60	14.59	14.51	14.45	14.97	14.97	15.00	14.98	13.67	13.61	13.67	13.70
			50	0	50	0	24.00	22.97	23.00	**21.06**	23.60	22.65	22.60	20.59	24.00	23.03	23.05	21.02	22.70	21.74	**21.75**	19.70
	3620.1	3630.0	1	49	1	0	**25.00**	24.74	22.37	20.31	**24.60**	23.98	21.98	19.95	**25.00**	**24.79**	22.82	20.79	**23.70**	**22.67**	20.64	18.62
			1	0	1	49	14.97	14.91	15.00	14.89	14.59	14.60	14.57	14.54	15.00	14.96	15.00	14.97	13.70	13.64	13.67	13.64
			50	0	50	0	24.00	23.06	22.82	20.80	23.60	22.58	22.53	20.54	24.00	23.03	23.06	21.02	22.70	21.76	21.74	**19.75**
	3685.1	3695.0	1	49	1	0	**25.00**	24.79	22.83	20.69	**24.60**	24.01	21.91	19.86	**25.00**	**24.79**	22.81	20.81	**23.70**	22.56	20.54	18.53
			1	0	1	49	14.99	14.96	14.94	15.00	14.55	14.60	14.60	14.55	14.95	15.00	15.00	14.94	13.70	13.65	13.68	13.60
			50	0	50	0	24.00	23.07	**23.11**	**21.06**	23.60	22.66	**22.65**	**20.67**	24.00	23.06	**23.07**	**21.08**	22.70	21.76	**21.75**	**19.75**

8.4. LTE ULCA BAND 48C

Test Engineer ID:	32061	Test Date:	2025-05-01

OUTPUT POWER FOR LTE ULCA BAND 48C (5.0MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz / 20MHz	3553.3	3565.0	1	24	1	0	20.38	20.50	20.44	20.44	20.04	20.10	20.02	20.05	20.43	20.47	20.44	20.50	19.11	19.20	19.13	19.14
			25	0	100	0	13.95	14.00	13.89	13.90	13.55	13.60	13.58	13.59	13.97	14.00	13.90	13.92	12.67	12.70	12.69	12.66
	3615.8	3627.5	1	24	1	0	**23.90**	**24.00**	**22.91**	20.82	**23.57**	**23.60**	**22.56**	20.56	**24.00**	**23.97**	**22.97**	20.92	**22.59**	**22.70**	**21.61**	19.59
			25	0	100	0	21.97	22.00	21.99	**21.00**	21.58	21.60	21.60	**20.59**	21.96	22.00	21.98	**20.98**	20.65	20.69	20.70	**19.70**
	3678.3	3690.0	1	24	1	0	20.35	20.50	20.34	20.36	20.10	19.99	20.02	19.97	20.40	20.50	20.44	20.39	19.19	19.14	19.20	19.13
			25	0	100	0	14.00	13.99	13.83	13.86	13.53	13.54	13.54	13.60	13.96	14.00	13.82	13.86	12.64	12.67	12.67	12.70

OUTPUT POWER FOR LTE ULCA BAND 48C (20.0MHz + 5.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20MHz / 5MHz	3560.0	3571.7	1	99	1	0	20.45	20.40	20.42	20.50	19.84	20.10	20.04	20.08	20.41	20.35	20.44	20.50	19.12	19.04	19.11	19.20
			100	0	25	0	13.99	14.00	13.91	13.93	13.23	13.60	13.59	13.57	13.94	14.00	13.87	13.86	12.62	12.65	12.70	12.65
	3622.5	3634.2	1	99	1	0	**24.00**	**23.93**	**22.93**	20.98	**23.55**	**23.60**	**23.60**	**20.54**	**24.00**	**23.95**	**22.95**	20.97	**22.64**	**22.70**	**21.65**	19.64
			100	0	25	0	21.95	22.00	21.99	**21.00**	21.58	21.60	21.59	20.52	21.96	22.00	21.97	**20.99**	20.65	20.68	20.70	**19.70**
	3685.0	3696.7	1	99	1	0	20.39	20.41	20.44	20.50	20.07	20.08	20.10	20.01	20.50	20.35	20.44	20.50	19.09	19.20	19.01	19.14
			100	0	25	0	14.00	13.99	13.84	13.85	13.59	13.60	13.59	13.56	13.97	14.00	13.85	13.90	12.65	12.65	12.66	12.70

OUTPUT POWER FOR LTE ULCA BAND 48C (10.0MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
10MHz / 20MHz	3555.5	3569.9	1	49	1	0	19.91	20.00	19.95	19.94	19.52	19.47	19.58	19.60	19.94	19.95	19.94	20.00	18.70	18.68	18.67	18.67
			50	0	100	0	15.00	14.89	14.89	14.88	14.58	14.58	14.60	14.60	15.00	14.89	14.89	14.85	13.68	13.70	13.67	13.67
	3615.6	3630.0	1	49	1	0	**24.33**	**24.50**	**23.20**	**21.00**	**24.10**	**24.03**	**22.51**	20.54	**24.50**	**24.50**	**23.22**	**21.00**	**23.17**	**23.20**	**21.67**	**19.70**
			50	0	100	0	21.45	21.49	21.50	20.98	21.09	21.10	21.10	**20.57**	21.46	21.49	21.50	19.97	20.17	20.18	20.20	**19.70**
	3675.6	3690.0	1	49	1	0	19.94	19.99	19.94	20.00	19.51	19.53	19.60	19.52	19.91	20.00	19.94	19.97	18.70	18.61	18.64	18.69
			50	0	100	0	15.00	14.83	14.83	14.87	14.60	14.58	14.60	14.60	15.00	14.88	14.85	14.85	13.66	13.65	13.64	13.70

OUTPUT POWER FOR LTE ULCA BAND 48C (20.0MHz + 10.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20MHz / 10MHz	3560.0	3574.4	1	99	1	0	19.91	20.00	19.94	19.82	19.51	19.60	19.45	19.59	19.93	19.84	19.84	20.00	18.63	18.54	18.54	18.70
			100	0	50	0	15.00	14.63	14.67	14.68	14.55	14.54	14.60	14.54	15.00	14.89	14.89	14.89	13.70	13.59	13.59	13.59
	3620.1	3634.5	1	99	1	0	**24.44**	**24.50**	**22.87**	20.95	**24.10**	**24.03**	**22.55**	**20.60**	**24.50**	**24.44**	**23.19**	**21.00**	**23.20**	**23.14**	**21.89**	**19.70**
			100	0	50	0	21.47	21.50	21.50	**21.00**	21.07	21.05	21.10	20.58	21.46	21.50	21.50	20.98	20.16	20.20	20.20	19.69
	3680.1	3694.5	1	99	1	0	19.94	20.00	19.86	19.93	19.54	19.46	19.46	19.60	19.94	19.80	19.91	20.00	18.64	18.50	18.61	18.70
			100	0	50	0	15.00	14.72	14.76	14.77	14.54	14.58	14.58	14.60	15.00	14.88	14.87	14.86	13.70	13.58	13.57	13.56

OUTPUT POWER FOR LTE ULCA BAND 48C (15.0MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
15MHz / 20MHz	3557.8	3574.9	1	74	1	0	20.00	19.75	19.74	19.74	19.47	19.47	19.60	19.55	19.91	19.93	20.00	19.96	18.53	18.61	18.64	18.70
			75	0	100	0	15.00	14.92	14.92	14.92	14.59	14.60	14.60	14.57	15.00	14.89	14.89	14.88	13.70	13.67	13.67	13.70
	3615.3	3632.4	1	74	1	0	**24.52**	**24.76**	**23.51**	**21.00**	**24.46**	**24.60**	**22.65**	**20.60**	**24.57**	**24.76**	**23.51**	**21.00**	**23.51**	**23.70**	**21.65**	19.69
			75	0	100	0	21.45	21.50	21.50	**21.00**	21.02	21.06	21.10	20.58	21.46	21.50	21.50	20.98	20.17	20.19	20.20	**19.69**
	3672.9	3690.0	1	74	1	0	19.75	20.00	19.93	19.89	19.49	19.49	19.58	19.60	20.00	19.98	19.99	19.91	18.58	18.70	18.65	18.63
			75	0	100	0	15.00	14.73	14.79	14.79	14.54	14.56	14.56	14.60	15.00	14.88	14.89	14.88	13.64	13.68	13.65	13.70

OUTPUT POWER FOR LTE ULCA BAND 48C (20.0MHz + 15.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)															
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20MHz / 15MHz	3560.0	3577.1	1	99	1	0	19.70	20.00	19.85	19.91	19.45	19.45	19.48	19.60	19.86	19.96	19.93	20.00	18.56	18.70	18.59	18.67
			100	0	75	0	15.00	14.63	14.69	14.68	14.60	14.57	14.55	14.54	15.00	14.89	14.89	14.88	13.69	13.68	13.68	13.70
	3617.6	3634.7	1	99	1	0	**24.74**	**25.00**	**23.92**	20.93	**24.46**	**24.60**	**22.58**	**20.60**	**25.00**	**24.73**	**23.54**	**21.00**	**23.49**	**23.70**	**21.54**	19.65
			100	0	75	0	21.17	21.42	21.50	**21.00**	21.06	21.07	21.10	20.58	21.46	21.49	21.50	**21.00**	20.16	20.17	20.20	**19.68**
	3675.1	3692.2	1	99	1	0	19.92	19.87	19.98	20.00	19.43	19.58	19.45	19.60	19.93	19.94	19.97	20.00	18.57	18.57	18.69	18.70
			100	0	75	0	15.00	14.81	14.84	14.84	14.57	14.56	14.59	14.60	15.00	14.87	14.86	14.85	13.65	13.69	13.67	13.70

OUTPUT POWER FOR LTE ULCA BAND 48C (20.0MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC1 Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)													
							ANT 7				ANT 8				ANT 9				ANT 4			
							QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20MHz/ 20MHz	3560.0	3579.8	1	99	1	0	20.83	21.10	21.05	20.39	20.68	20.65	20.70	20.18	20.97	21.02	21.10	20.59	19.73	19.76	19.80	19.28
			1	0	1	99	7.38	7.42	7.60	7.51	7.17	7.03	7.13	7.20	7.47	7.60	7.57	7.48	6.21	6.30	6.18	6.23
			100	0	100	0	14.60	14.19	14.28	14.29	14.20	14.17	14.16	14.16	14.60	14.49	14.53	14.50	13.30	13.30	13.30	13.29
	3615.1	3634.9	1	99	1	0	**24.42**	**24.60**	**22.64**	20.52	**24.05**	**24.20**	**22.18**	**20.20**	**24.60**	**24.35**	**23.17**	**20.60**	**23.19**	**23.30**	**21.32**	**19.30**
			1	0	1	99	14.10	13.67	13.82	13.72	13.67	13.64	13.64	13.70	14.10	13.91	13.92	14.06	12.77	12.75	12.70	12.80
			100	0	100	0	21.05	21.09	21.10	**20.59**	20.66	20.69	20.70	20.19	21.06	21.10	21.08	**20.60**	19.74	19.78	19.80	19.28
	3670.2	3690.0	1	99	1	0	20.91	21.10	21.07	20.49	20.58	20.55	20.70	20.19	21.00	21.10	21.07	20.55	19.80	19.80	19.74	**19.30**
			1	0	1	99	7.42	7.49	7.60	7.53	7.15	7.07	7.18	7.20	7.53	7.49	7.57	7.60	6.30	6.18	6.24	6.29
			100	0	100	0	14.60	14.31	14.42	14.36	14.15	14.14	14.15	14.20	14.60	14.46	14.47	14.46	13.24	13.27	13.27	13.30

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

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

RESULTS

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

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

LTE BAND 48

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 48	5MHz, QPSK	25/0	3625.0	4.483	5.17
	5MHz, 16QAM			4.479	5.29
	10MHz, QPSK	50/0		8.943	9.56
	10MHz, 16QAM			8.986	9.79
	15MHz, QPSK	75/0	3620.0	13.451	14.56
	15MHz, 16QAM			13.449	14.45
	20MHz, QPSK	100/0		17.949	19.55
	20MHz, 16QAM			17.909	19.65
	20MHz, QPSK	1/0		0.277	0.47

5G NR n48

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n48	10MHz, BPSK	24/0	3625.0	8.632	9.79
	10MHz, QPSK			8.656	9.90
	10MHz, 16QAM			8.644	9.84
	15MHz, BPSK	36/0	3620.0	12.948	14.31
	15MHz, QPSK			12.925	14.62
	15MHz, 16QAM			12.986	14.57
	20MHz, BPSK	50/0		17.937	19.61
	20MHz, QPSK			17.927	19.55
	20MHz, 16QAM			18.007	19.94
	30MHz, BPSK	75/0	3625.0	26.898	28.75
	30MHz, QPSK			26.991	29.03
	30MHz, 16QAM			26.956	28.78
	40MHz, BPSK	100/0	3620.0	35.886	37.85
	40MHz, QPSK			35.847	38.05
	40MHz, 16QAM			35.898	38.17
	40MHz, BPSK	1/0		0.481	0.90

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LTE ULCA BAND 48B

Band	Mode	RB Allocation/RB Offset	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE ULCA BAND 48B	10MHz + 10MHz BAND QPSK	50/0 + 50/0	3625	19.293	20.92
	10MHz + 10MHz BAND 16QAM			19.194	21.05

LTE ULCA BAND 48C

Band	Mode	RB Allocation/RB Offset	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE ULCA BAND 48C	5MHz + 20MHz BAND QPSK	25/0 + 100/0	3625	23.148	24.93
	5MHz + 20MHz BAND 16QAM			23.363	26.60
	20MHz + 5MHz BAND QPSK	100/0 + 25/0		23.342	25.03
	20MHz + 5MHz BAND 16QAM			23.333	25.10
	10MHz + 20MHz BAND QPSK	50/0 + 100/0		28.051	29.94
	10MHz + 20MHz BAND 16QAM			28.148	30.02
	20MHz + 10MHz BAND QPSK	100/0 + 50/0		28.106	32.08
	20MHz + 10MHz BAND 16QAM			28.152	29.94
	15MHz + 20MHz BAND QPSK	75/0 + 100/0		32.826	35.24
	15MHz + 20MHz BAND 16QAM			32.756	35.02
	20MHz + 15MHz BAND QPSK	100/0 + 75/0		32.925	35.02
	20MHz + 15MHz BAND 16QAM			32.945	35.42
	20MHz + 20MHz BAND QPSK	100/0 + 100/0		37.617	41.73
	20MHz + 20MHz BAND 16QAM			37.656	39.81

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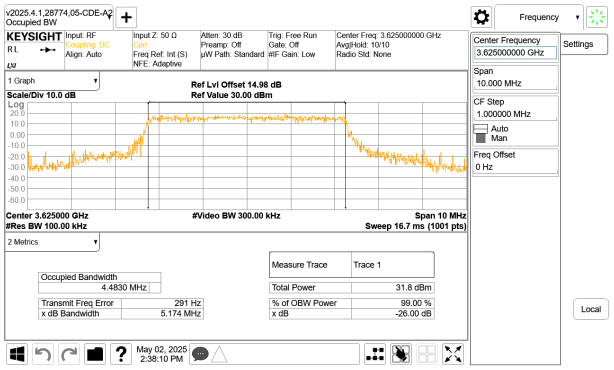
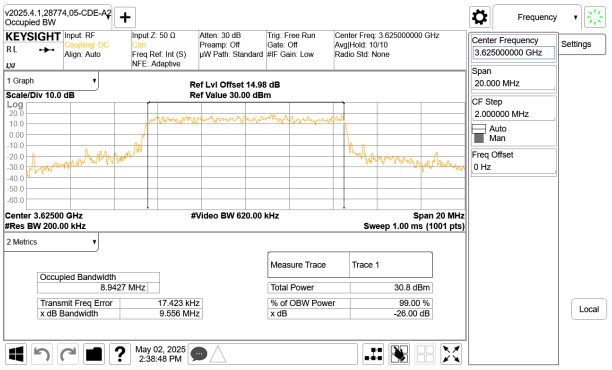
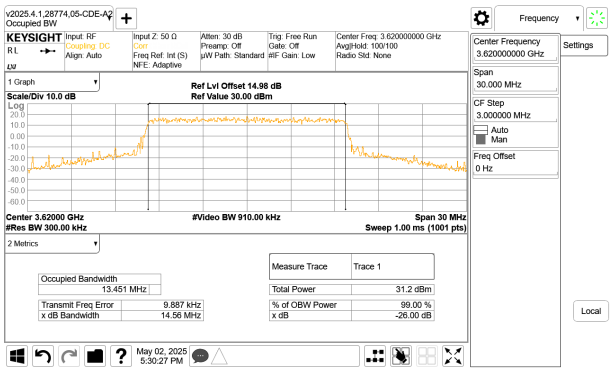
9.1.1. LTE BAND 48



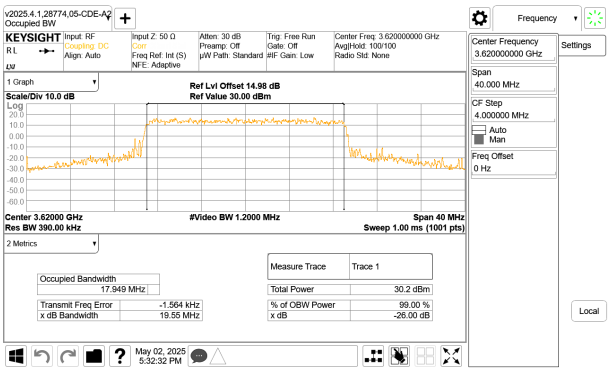
LTE B48 5MHz QPSK Middle Channel RB25-0



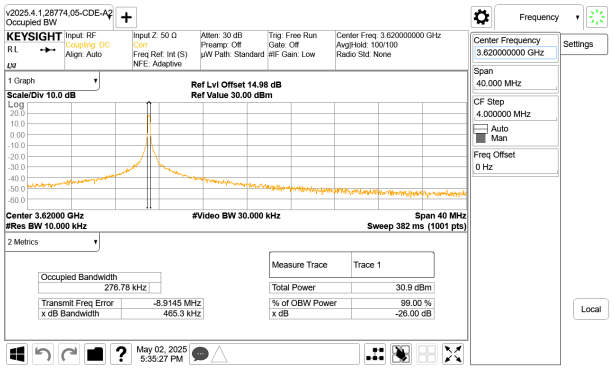
LTE B48 10MHz QPSK Middle Channel RB50-0



LTE B48 15MHz QPSK Middle Channel RB75-0



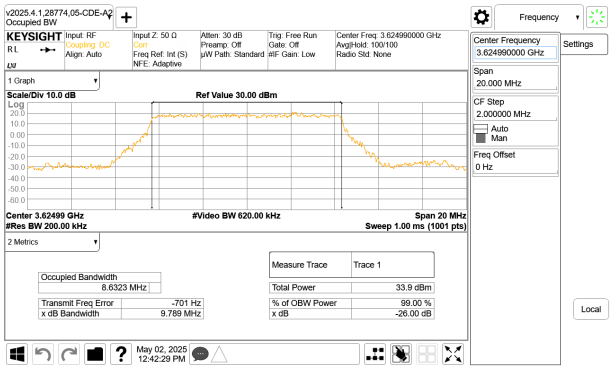
LTE B48 20MHz QPSK Middle Channel RB100-0



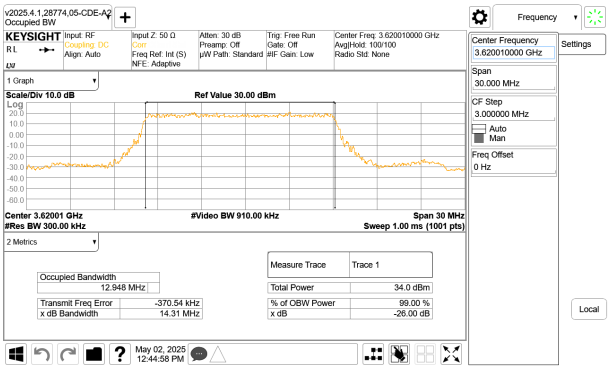
LTE B48 20MHz QPSK Middle Channel RB1-0

Intentionally Blank

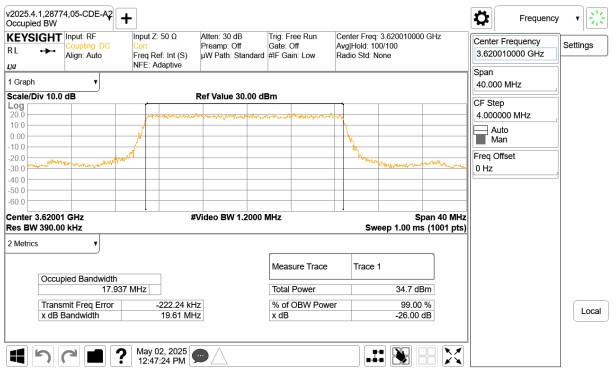
9.1.2. 5G NR n48



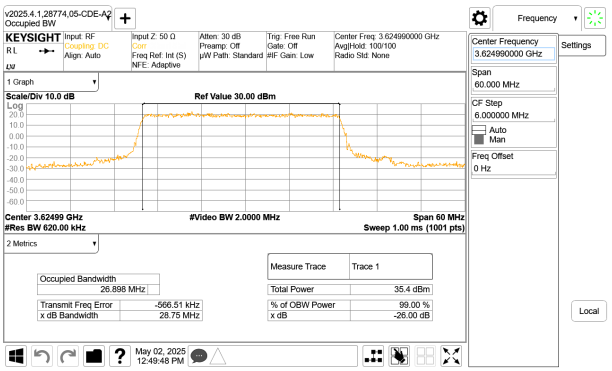
5G NR n48 10MHz BPSK Middle Channel RB24-0



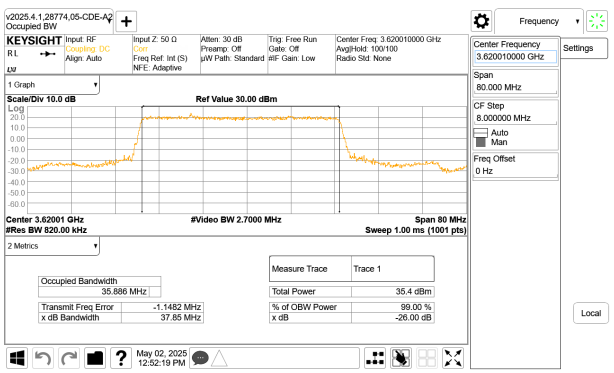
5G NR n48 15MHz BPSK Middle Channel RB36-0



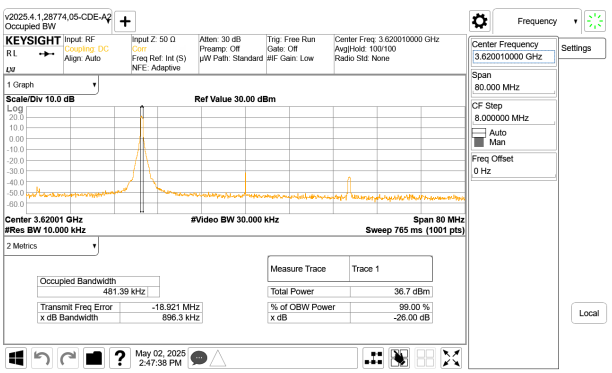
5G NR n48 20MHz BPSK Middle Channel RB50-0



5G NR n48 30MHz BPSK Middle Channel RB75-0

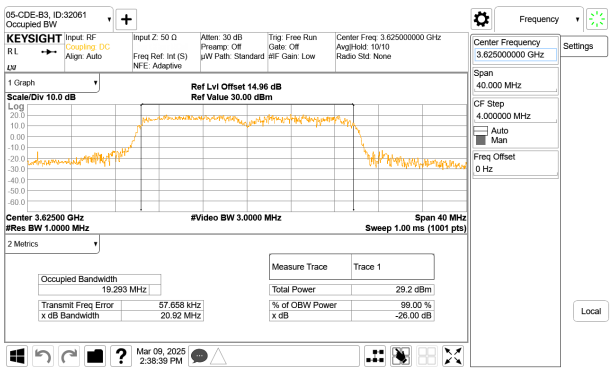


5G NR n48 40MHz BPSK Middle Channel RB100-0



5G NR n48 40MHz BPSK Middle Channel RB1-0

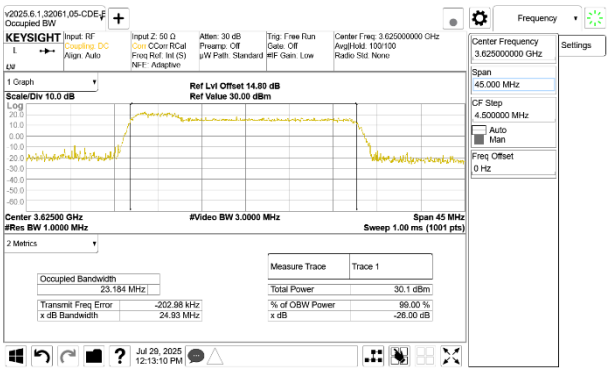
9.1.3. LTE ULCA BAND 48B



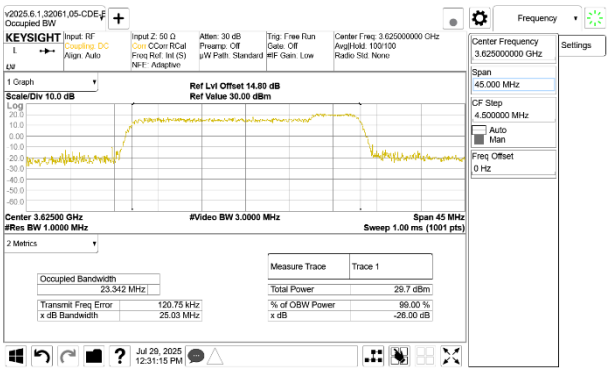
LTE ULCA B48B 10MHz + 10MHz QPSK RB50-0 + RB50-0

Intentionally Blank

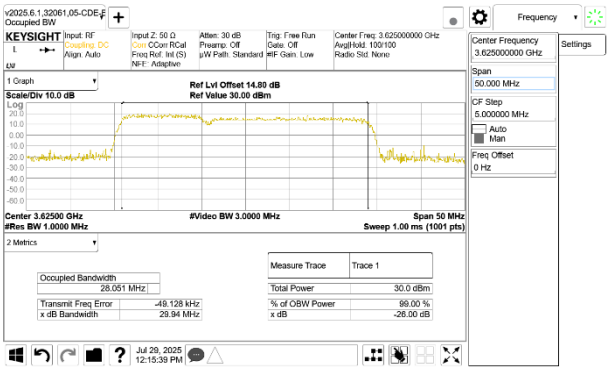
9.1.4. LTE ULCA BAND 48C



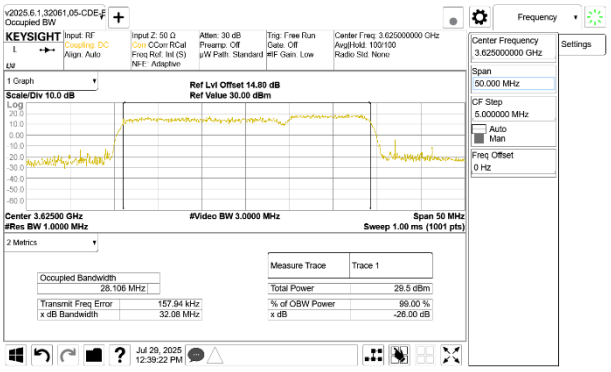
LTE ULCA B48C 5MHz + 20MHz QPSK RB25-0 + RB100-0



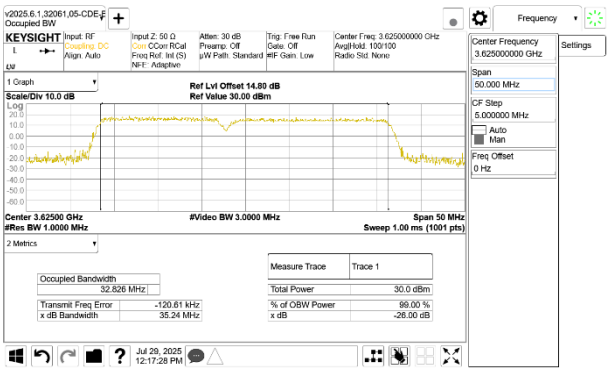
LTE ULCA B48C 20MHz + 5MHz QPSK RB100-0 + RB25-0



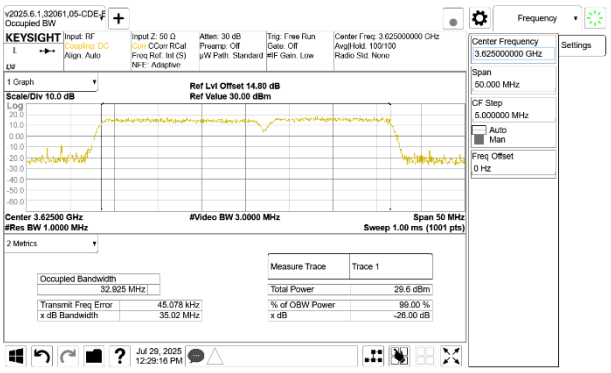
LTE ULCA B48C 10MHz + 20MHz QPSK RB50-0 + RB100-0



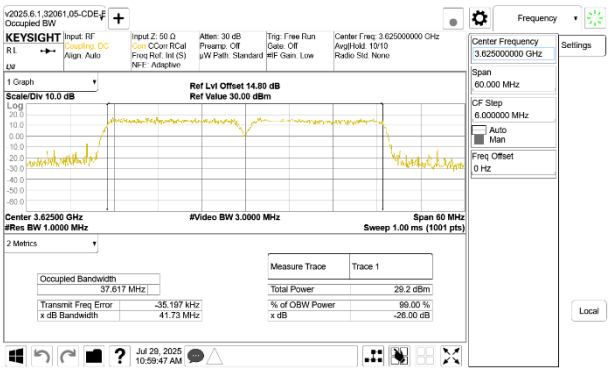
LTE ULCA B48C 20MHz + 10MHz QPSK RB100-0 + RB50-0



LTE ULCA B48C 15MHz + 20MHz QPSK RB75-0 + RB100-0



LTE ULCA B48C 20MHz + 15MHz QPSK RB100-0 + RB75-0



LTE ULCA B48C 20MHz + 20MHz QPSK RB100-0 + RB100-0

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9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §96.41
(e) 3.5 GHz Emissions and Interference Limits—
(1) General protection levels
(ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed −25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

TEST PROCEDURE (FCC LTE BAND 48)

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

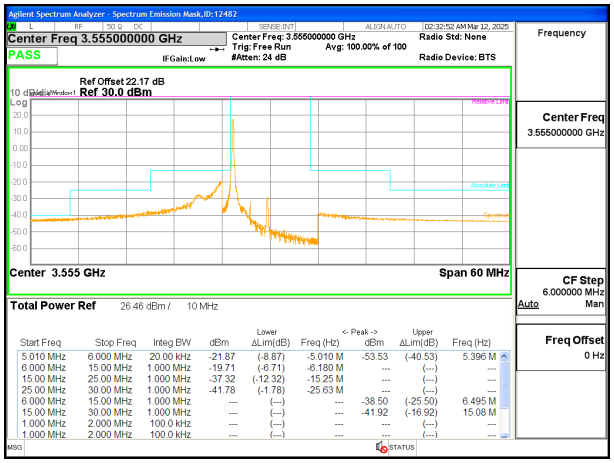
(ii) When measuring unwanted emissions to demonstrate compliance with the limits, the CBSD and End User Device nominal carrier frequency/channel shall be adjusted as close to the licensee's authorized frequency block edges, both upper and lower, as the design permits.

(iii) Compliance with emission limits shall be demonstrated using either average (RMS)-detected or peak-detected power measurement techniques.

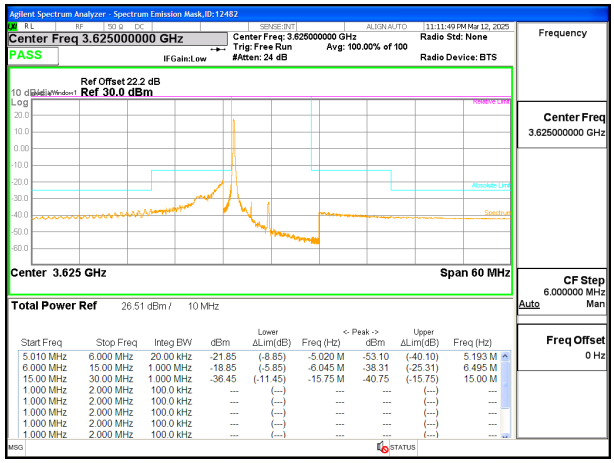
(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

RESULTS

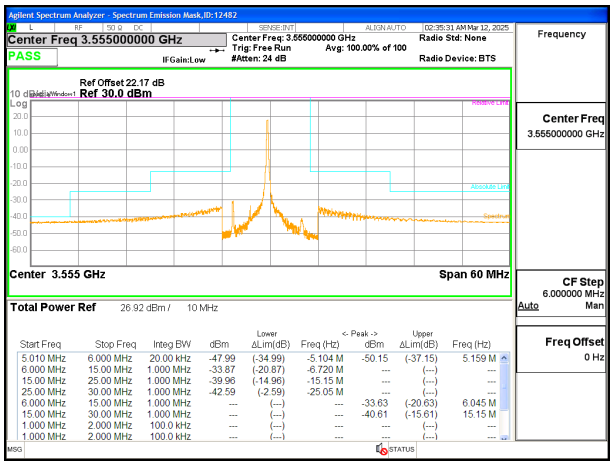
9.2.1. LTE BAND 48 EMISSION MASK



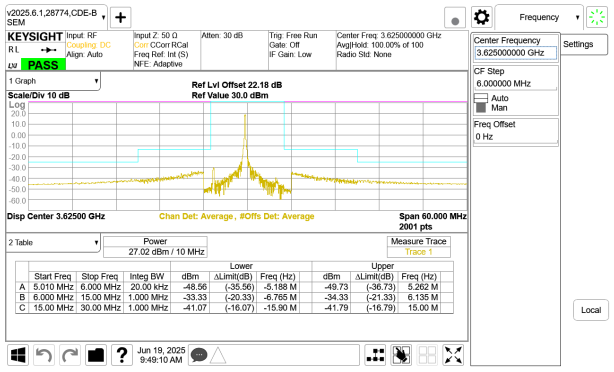
LTE B48 5MHz QPSK Low Channel RB1-0



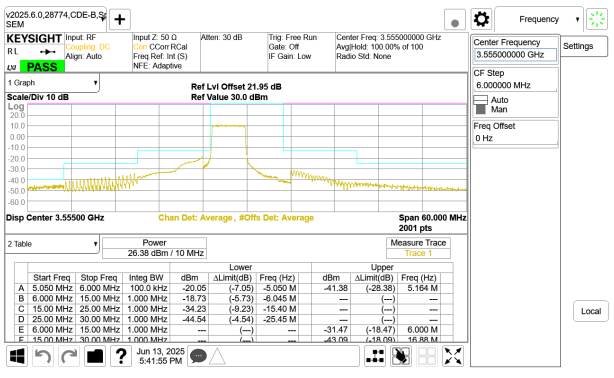
LTE B48 5MHz QPSK Middle Channel RB1-0 (3622.5MHz)



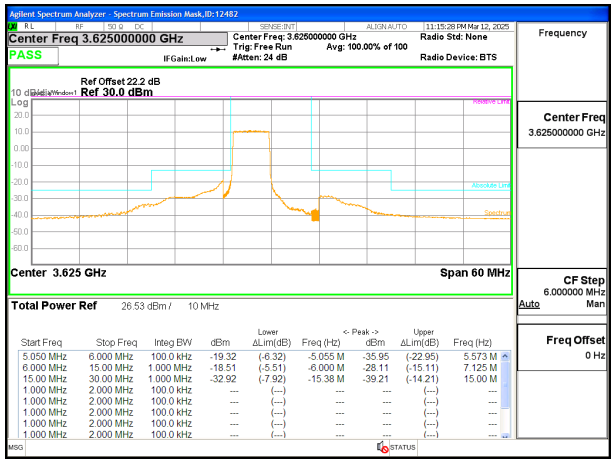
LTE B48 5MHz QPSK Low Channel RB1-24



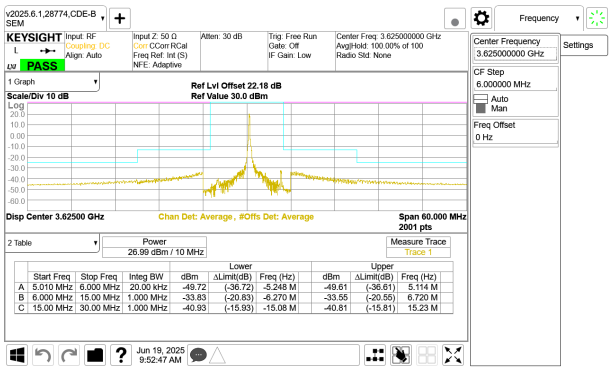
LTE B48 5MHz QPSK Middle Channel RB1-24 (3622.5MHz)



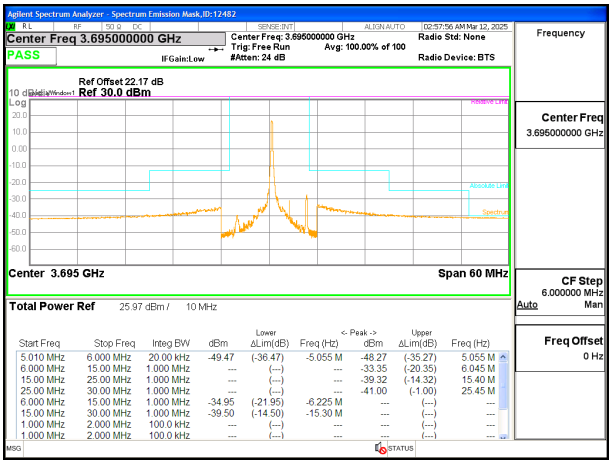
LTE B48 5MHz QPSK Low Channel RB25-0



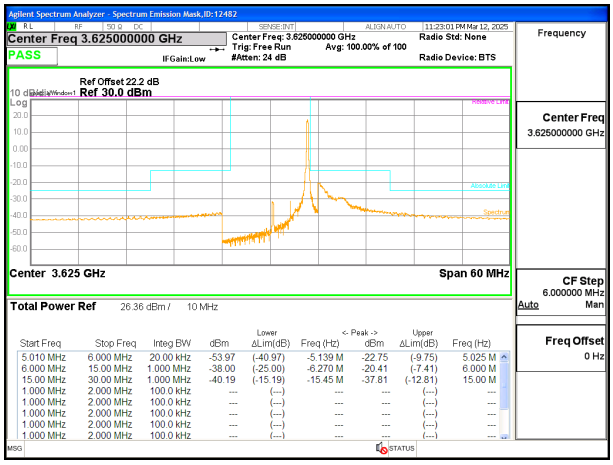
LTE B48 5MHz QPSK Middle Channel RB25-0 (3622.5MHz)



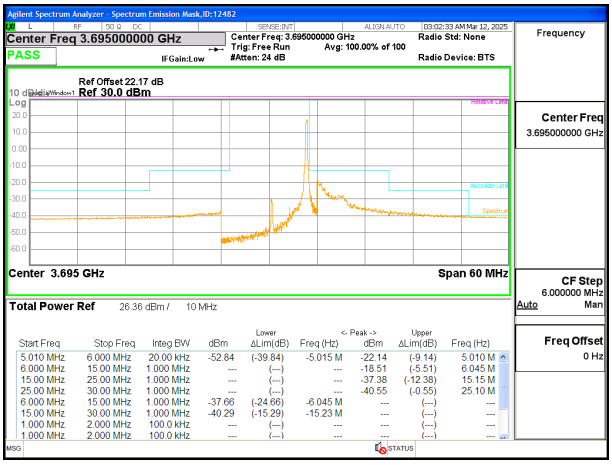
LTE B48 5MHz QPSK Middle Channel RB1-0 (3627.5MHz)



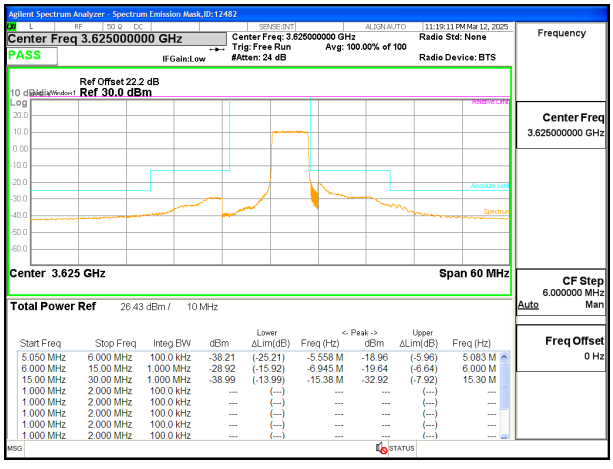
LTE B48 5MHz QPSK High Channel RB1-0



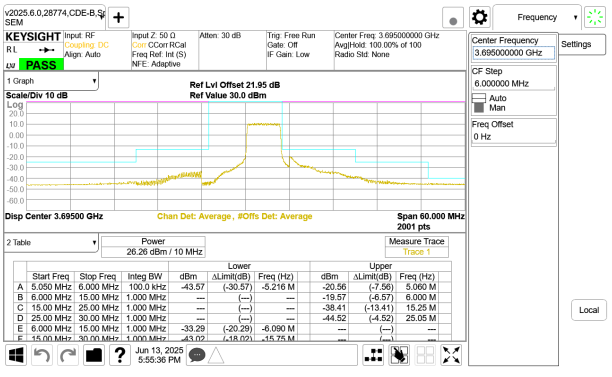
LTE B48 5MHz QPSK Middle Channel RB1-24 (3627.5MHz)



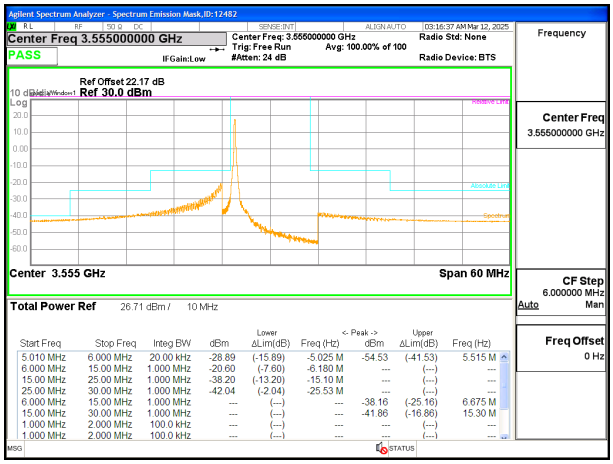
LTE B48 5MHz QPSK High Channel RB1-24



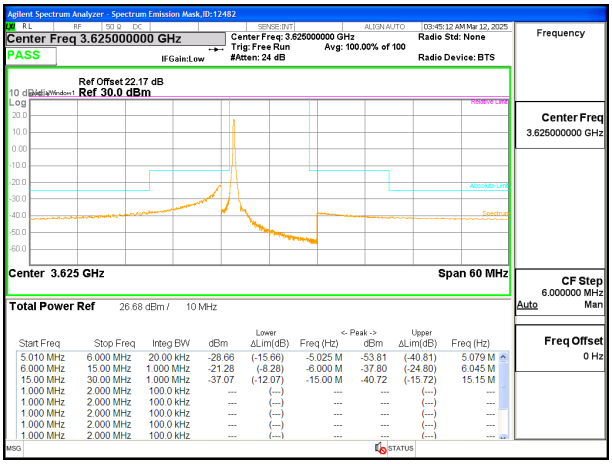
LTE B48 5MHz QPSK Middle Channel RB25-0 (3627.5MHz)



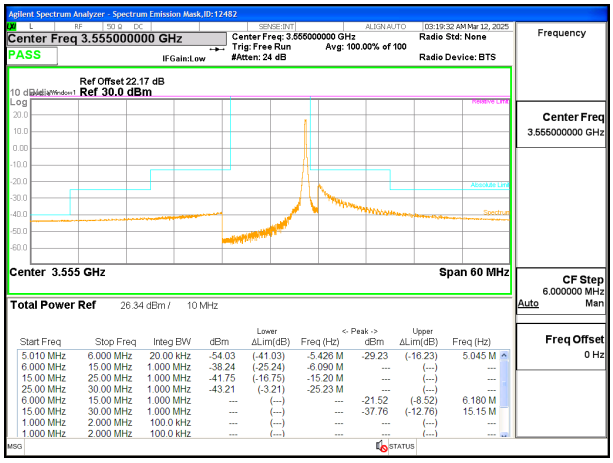
LTE B48 5MHz QPSK High Channel RB25-0



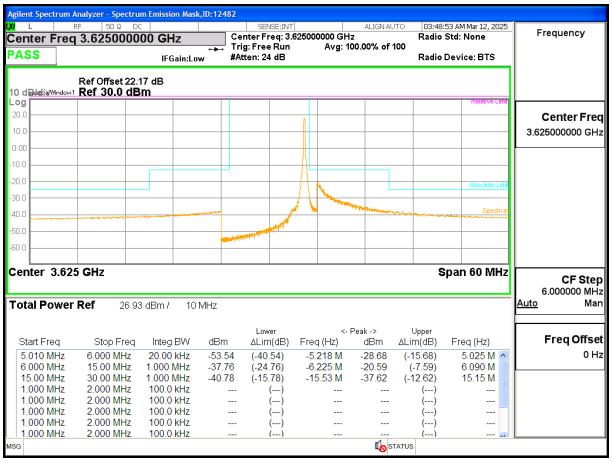
LTE B48 10MHz QPSK Low Channel RB1-0



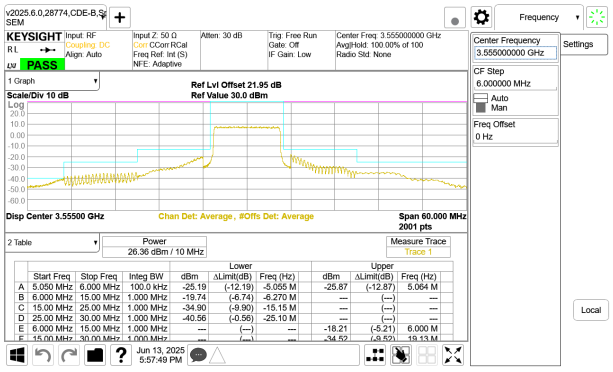
LTE B48 10MHz QPSK Middle Channel RB1-0



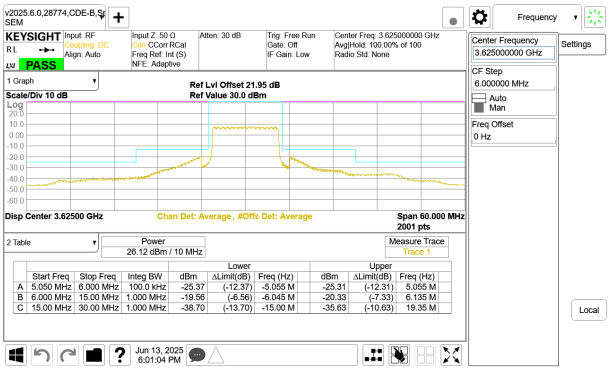
LTE B48 10MHz QPSK Low Channel RB1-49



LTE B48 10MHz QPSK Middle Channel RB1-49



LTE B48 10MHz QPSK Low Channel RB50-0



LTE B48 10MHz QPSK Middle Channel RB50-0

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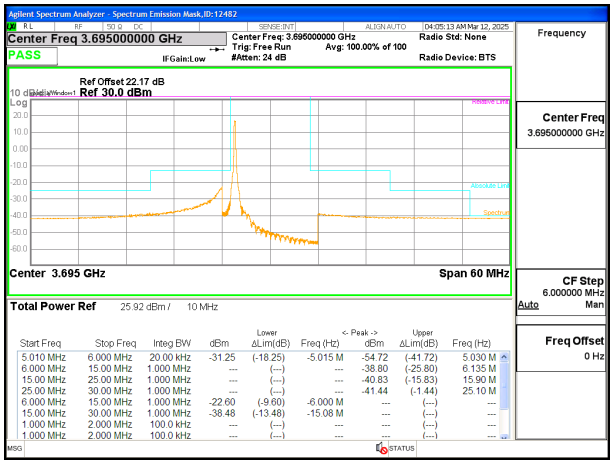
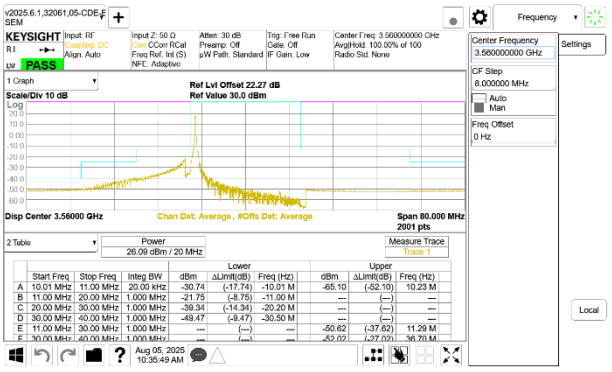
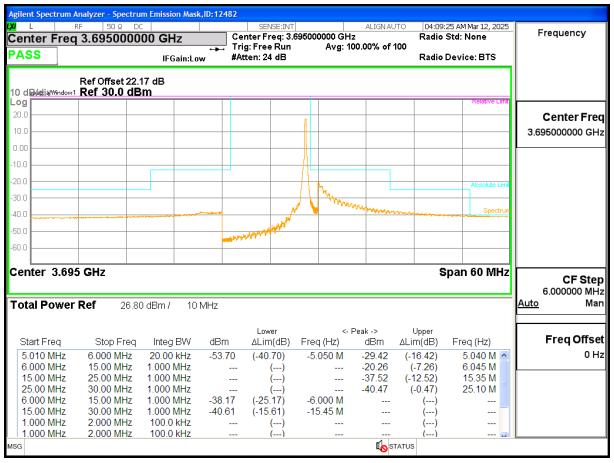


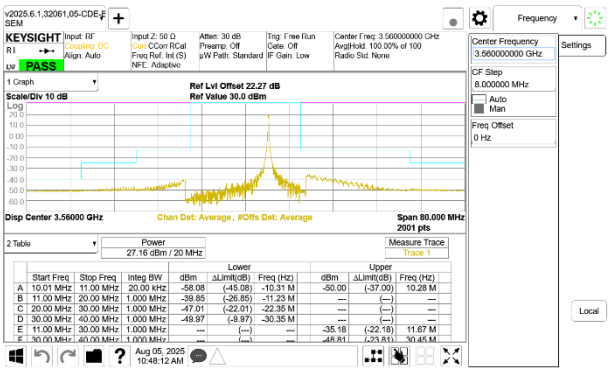
LTE B48 10MHz QPSK High Channel RB1-0



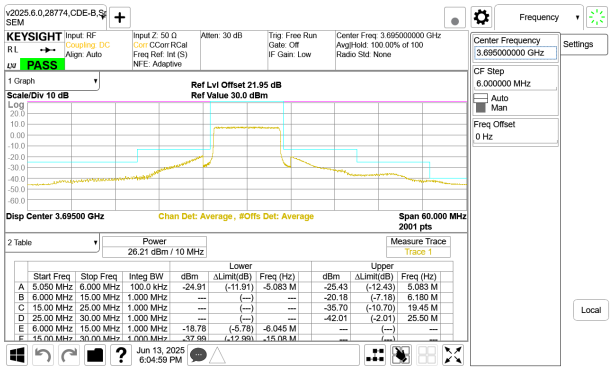
LTE B48 15MHz QPSK Low Channel RB1-0



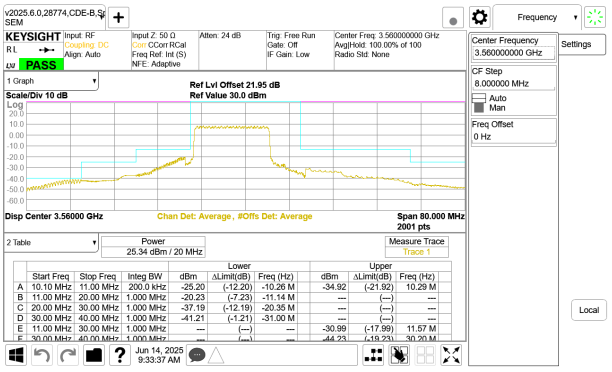
LTE B48 10MHz QPSK High Channel RB1-49



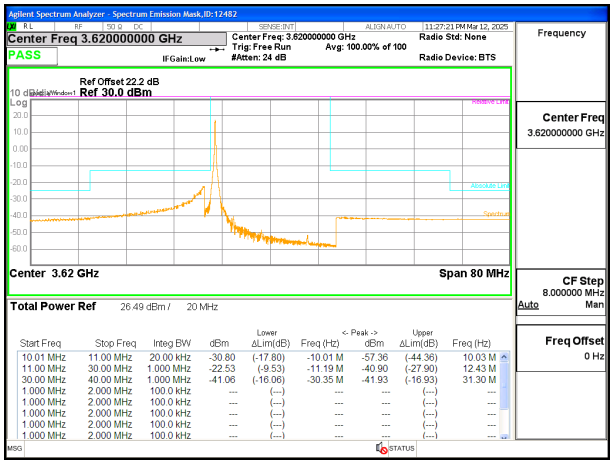
LTE B48 15MHz QPSK Low Channel RB1-74



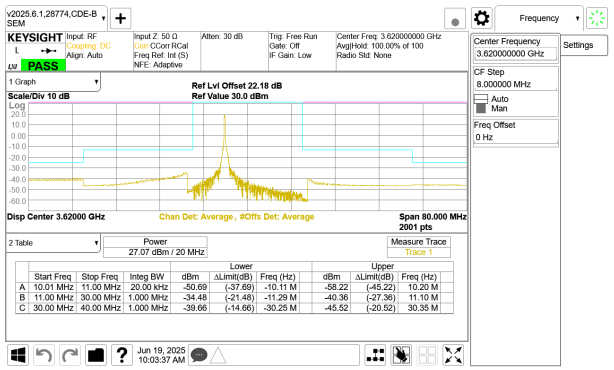
LTE B48 10MHz QPSK High Channel RB50-0



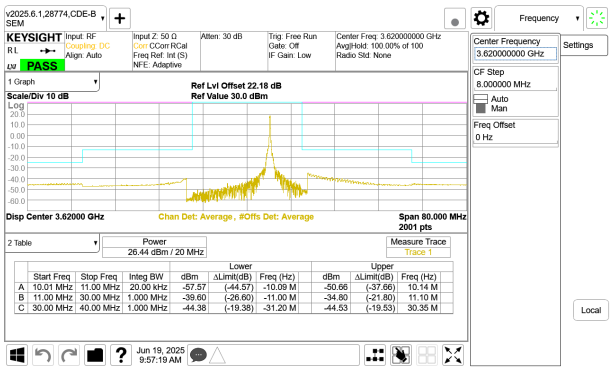
LTE B48 15MHz QPSK Low Channel RB75-0



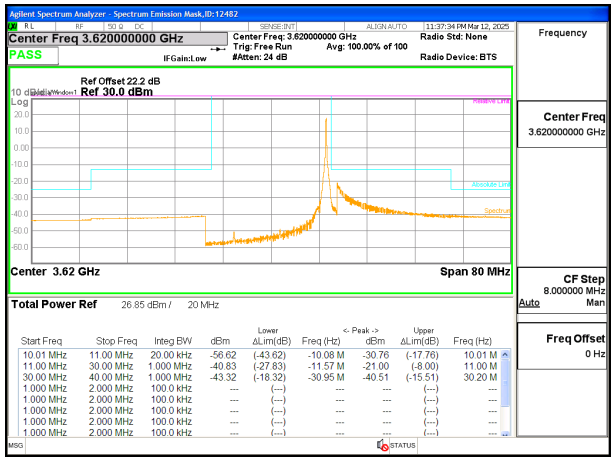
LTE B48 15MHz QPSK Middle Channel RB1-0 (3617.5MHz)



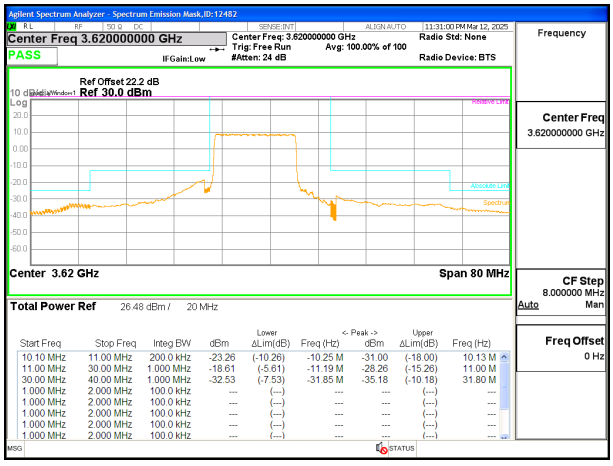
LTE B48 15MHz QPSK Middle Channel RB1-0 (3622.5MHz)



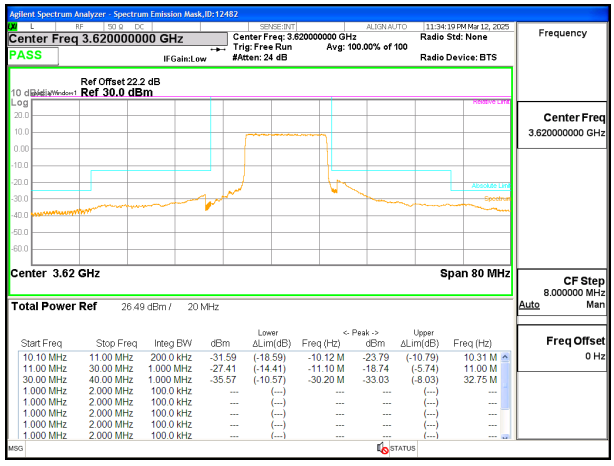
LTE B48 15MHz QPSK Middle Channel RB1-74 (3617.5MHz)



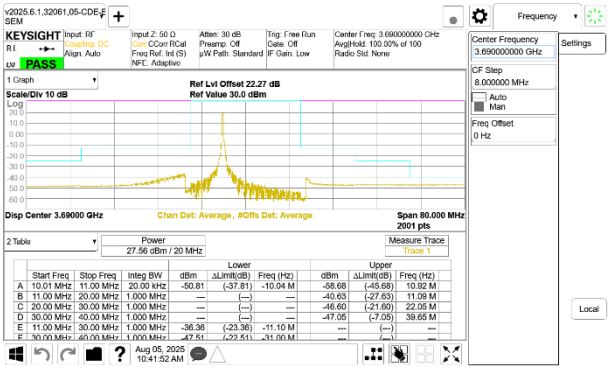
LTE B48 15MHz QPSK Middle Channel RB1-74 (3622.5MHz)



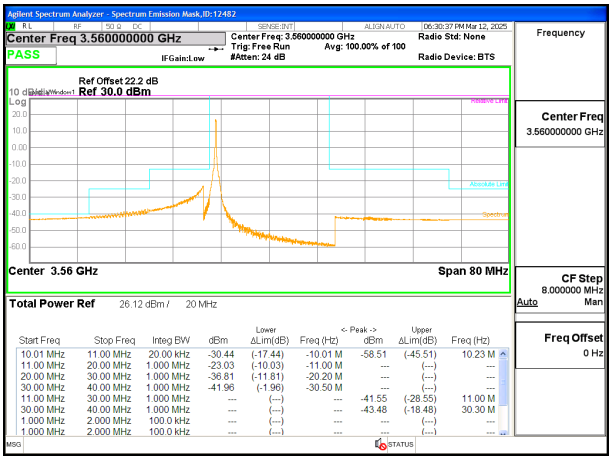
LTE B48 15MHz QPSK Middle Channel RB75-0 (3617.5MHz)



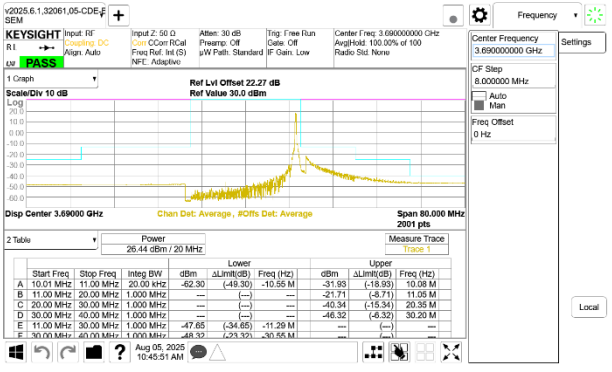
LTE B48 15MHz QPSK Middle Channel RB75-0 (3622.5MHz)



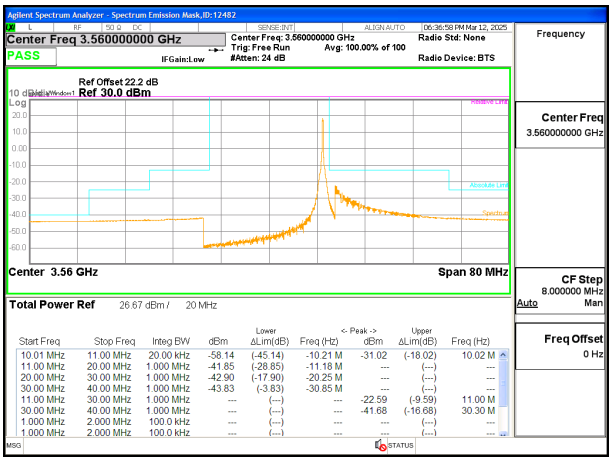
LTE B48 15MHz QPSK High Channel RB1-0



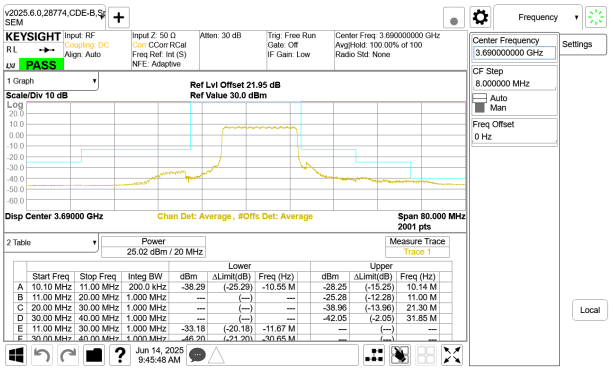
LTE B48 20MHz QPSK Low Channel RB1-0



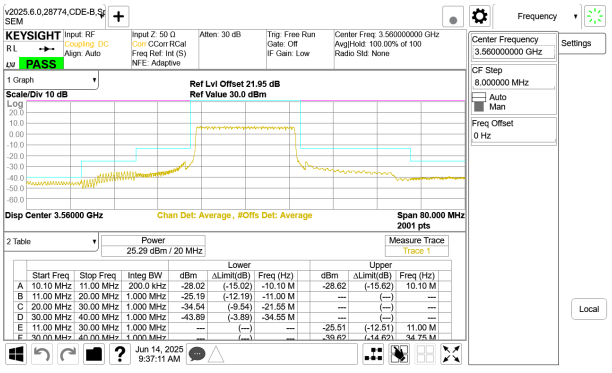
LTE B48 15MHz QPSK High Channel RB1-74



LTE B48 20MHz QPSK Low Channel RB1-99



LTE B48 15MHz QPSK High Channel RB75-0



LTE B48 20MHz QPSK Low Channel RB100-0

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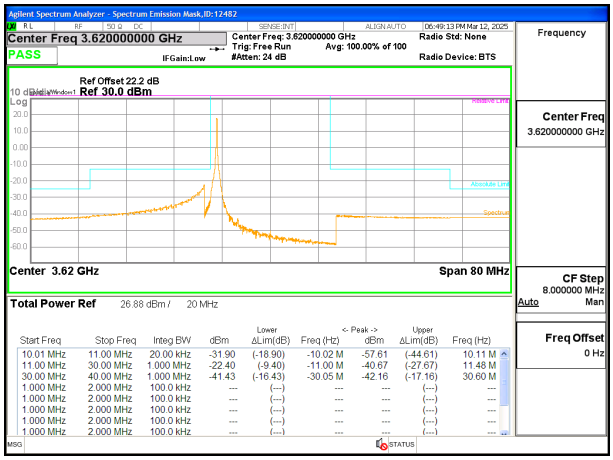
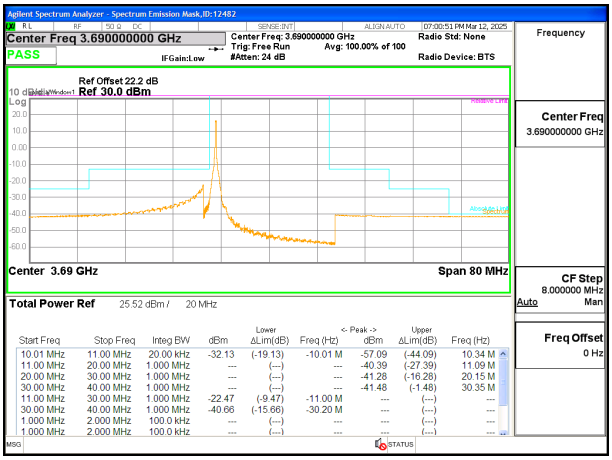
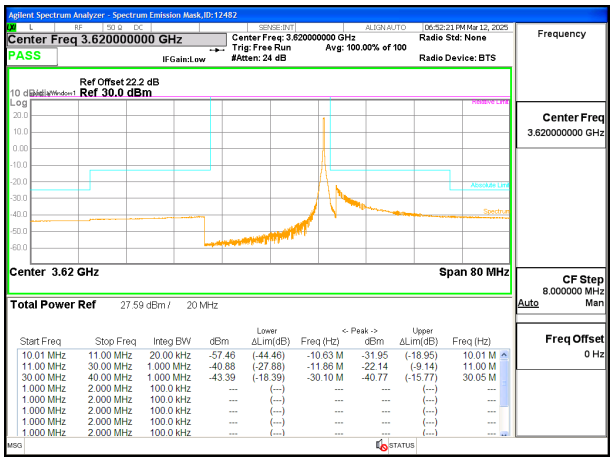


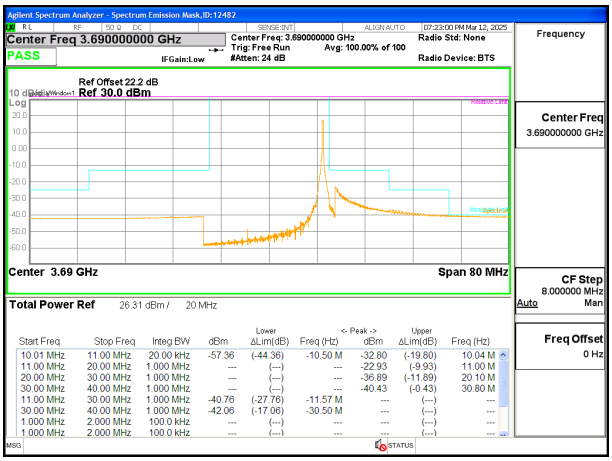
LTE B48 20MHz QPSK Middle Channel RB1-0



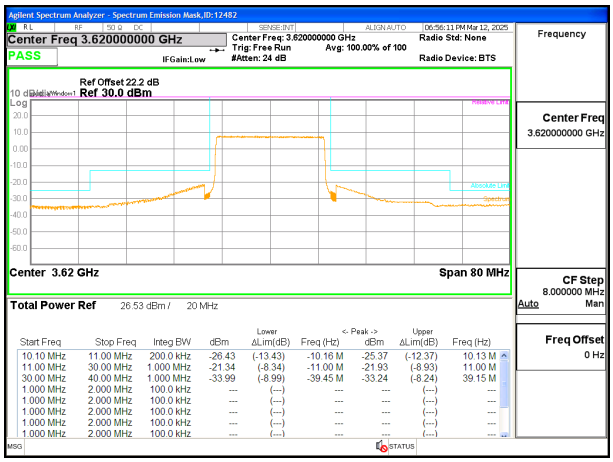
LTE B48 20MHz QPSK High Channel RB1-0



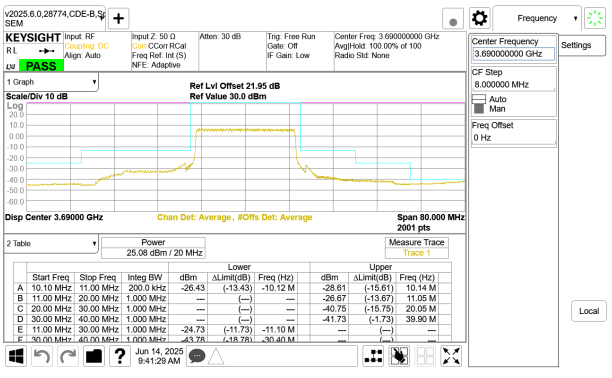
LTE B48 20MHz QPSK Middle Channel RB1-99



LTE B48 20MHz QPSK High Channel RB1-99



LTE B48 20MHz QPSK Middle Channel RB100-0



LTE B48 20MHz QPSK High Channel RB100-0

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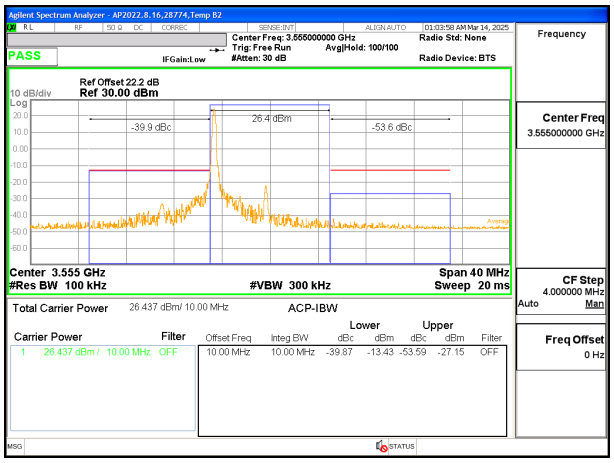
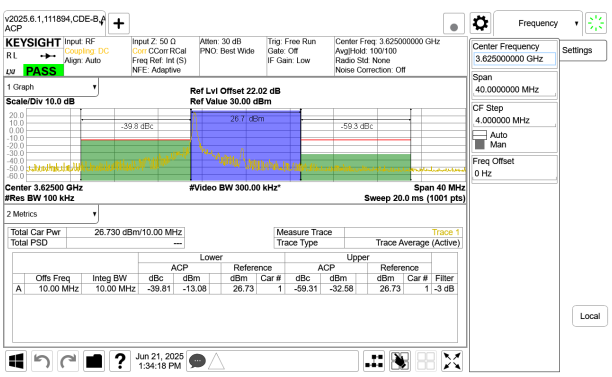
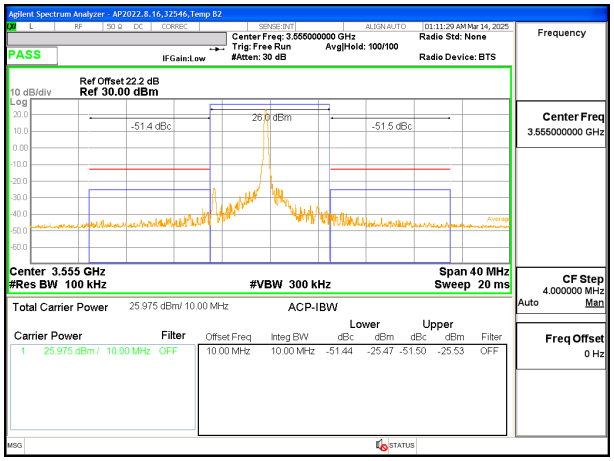
9.2.2. LTE BAND 48 ADJACENT CHANNEL POWER



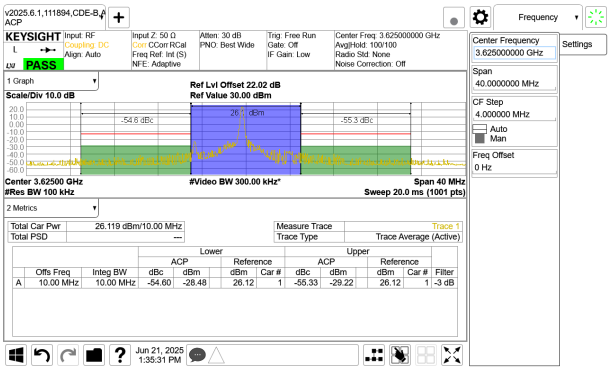
LTE B48 5MHz QPSK Low Channel RB1-0



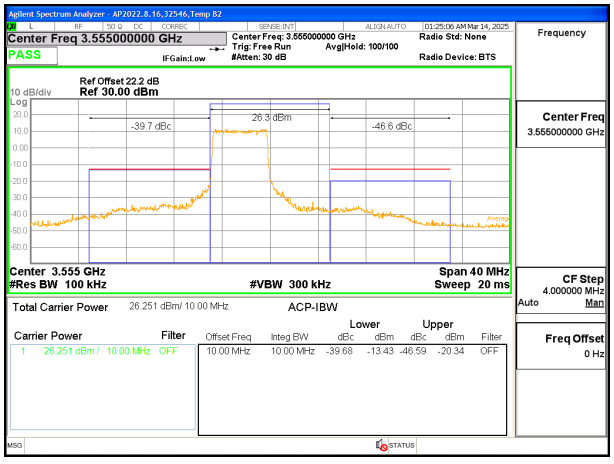
LTE B48 5MHz QPSK Middle Channel RB1-0 (3622.5MHz)



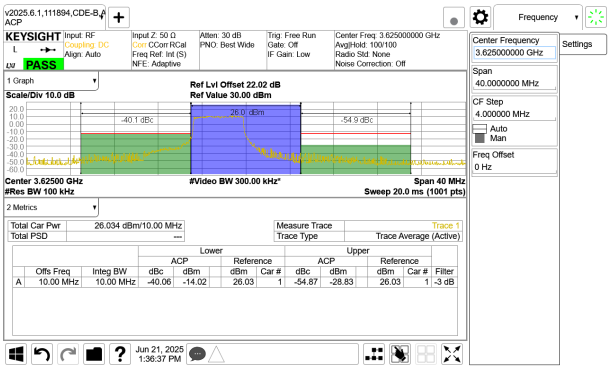
LTE B48 5MHz QPSK Low Channel RB1-24



LTE B48 5MHz QPSK Middle Channel RB1-24 (3622.5MHz)



LTE B48 5MHz QPSK Low Channel RB25-0



LTE B48 5MHz QPSK Middle Channel RB25-0 (3622.5MHz)