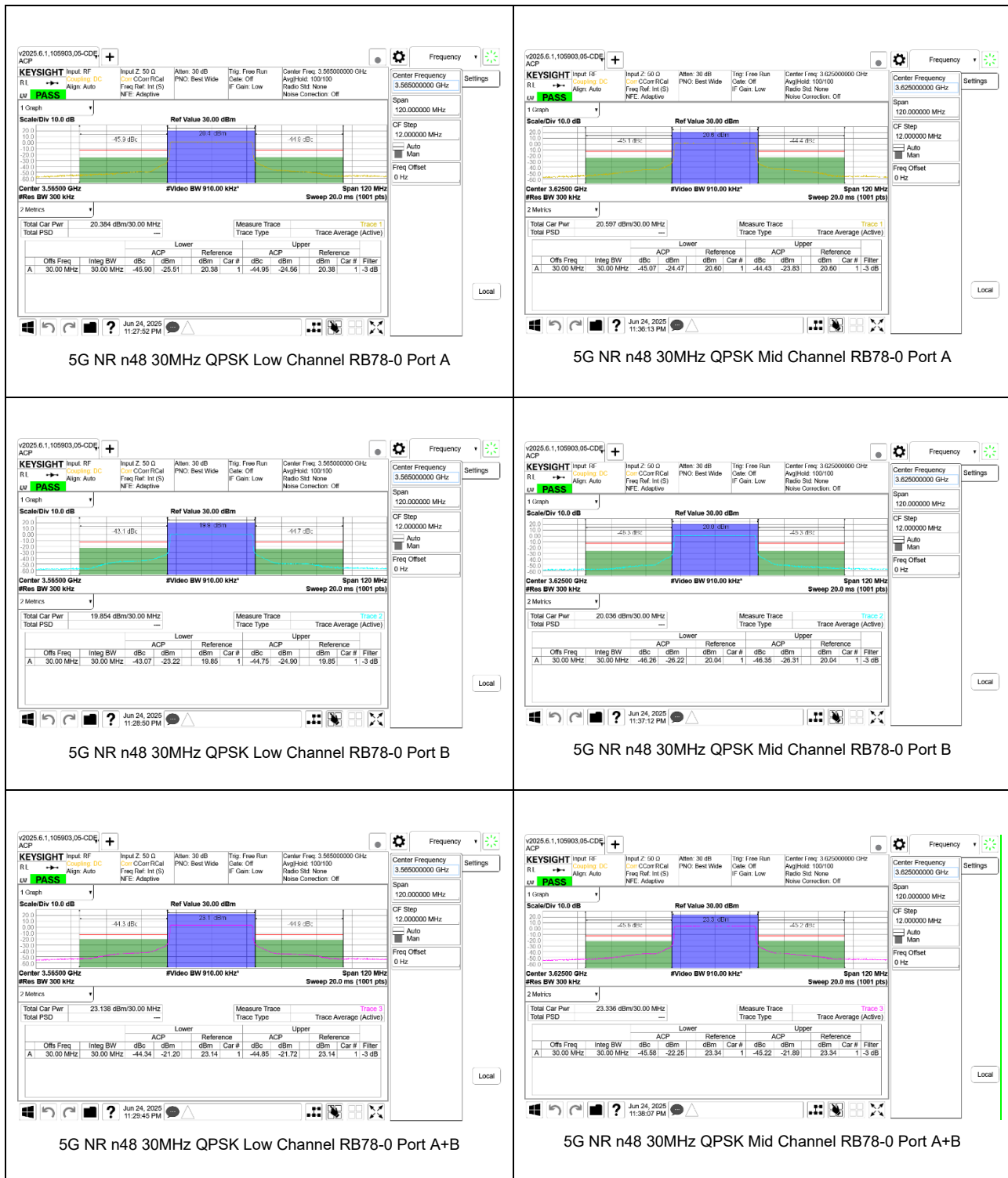
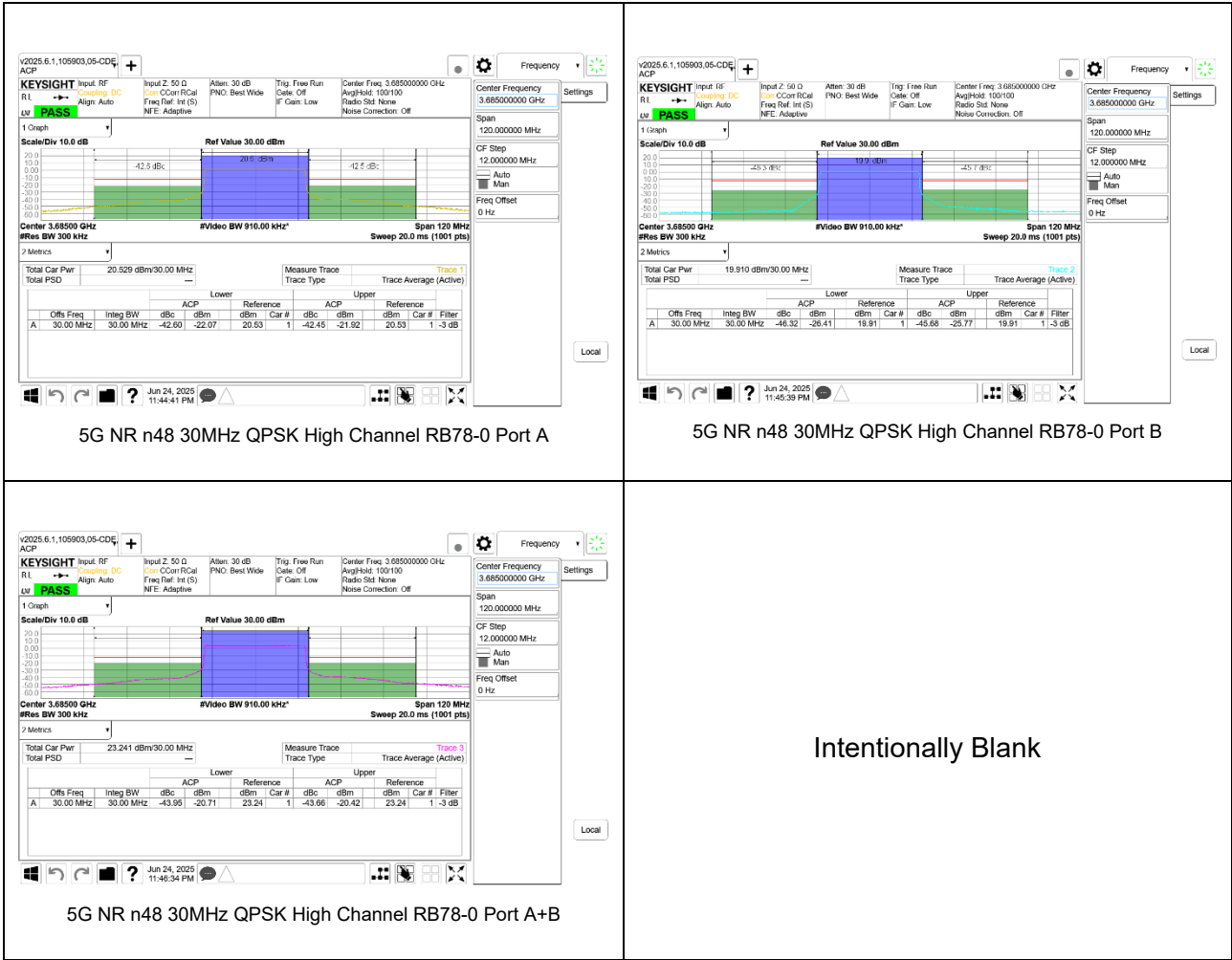
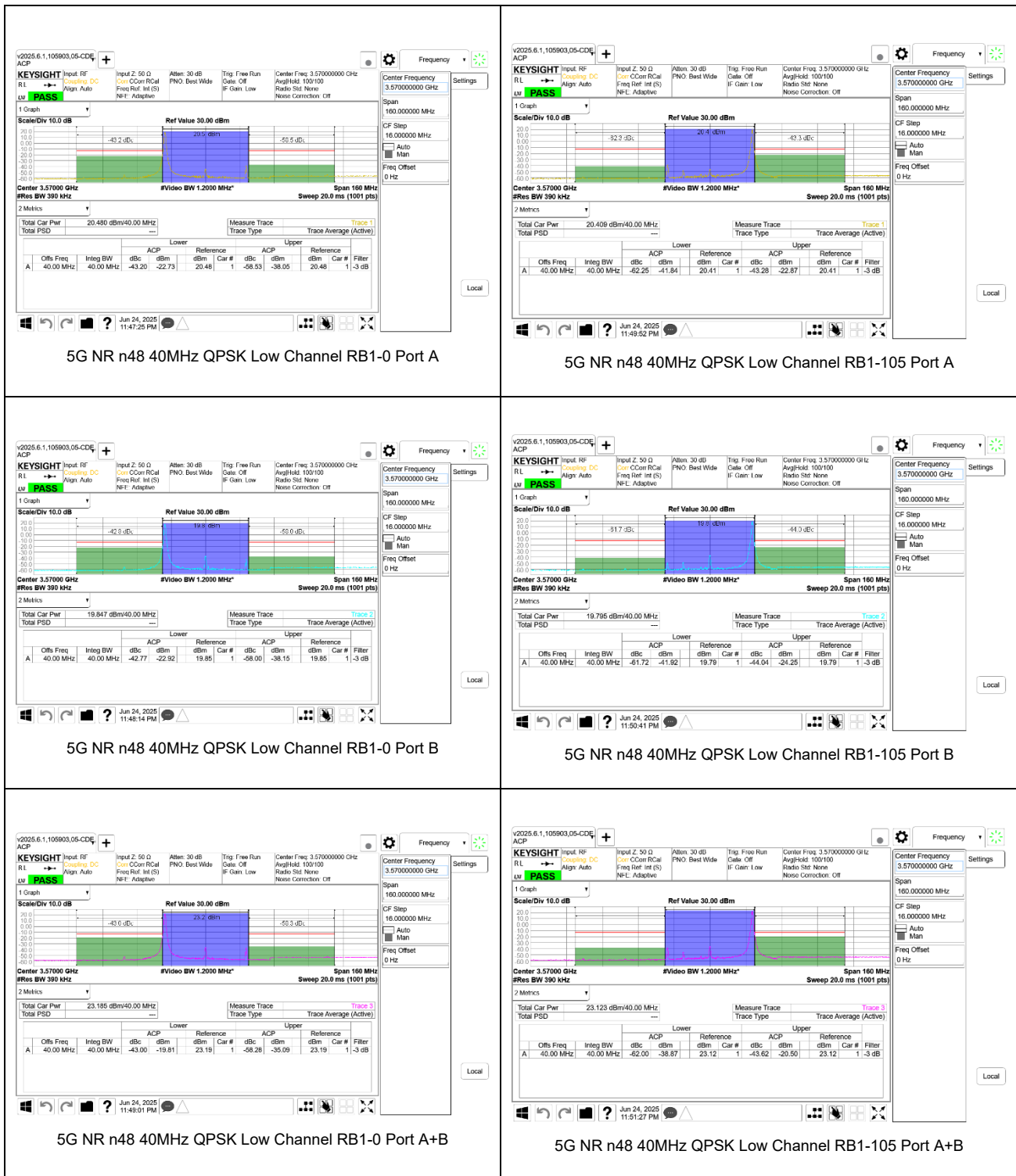
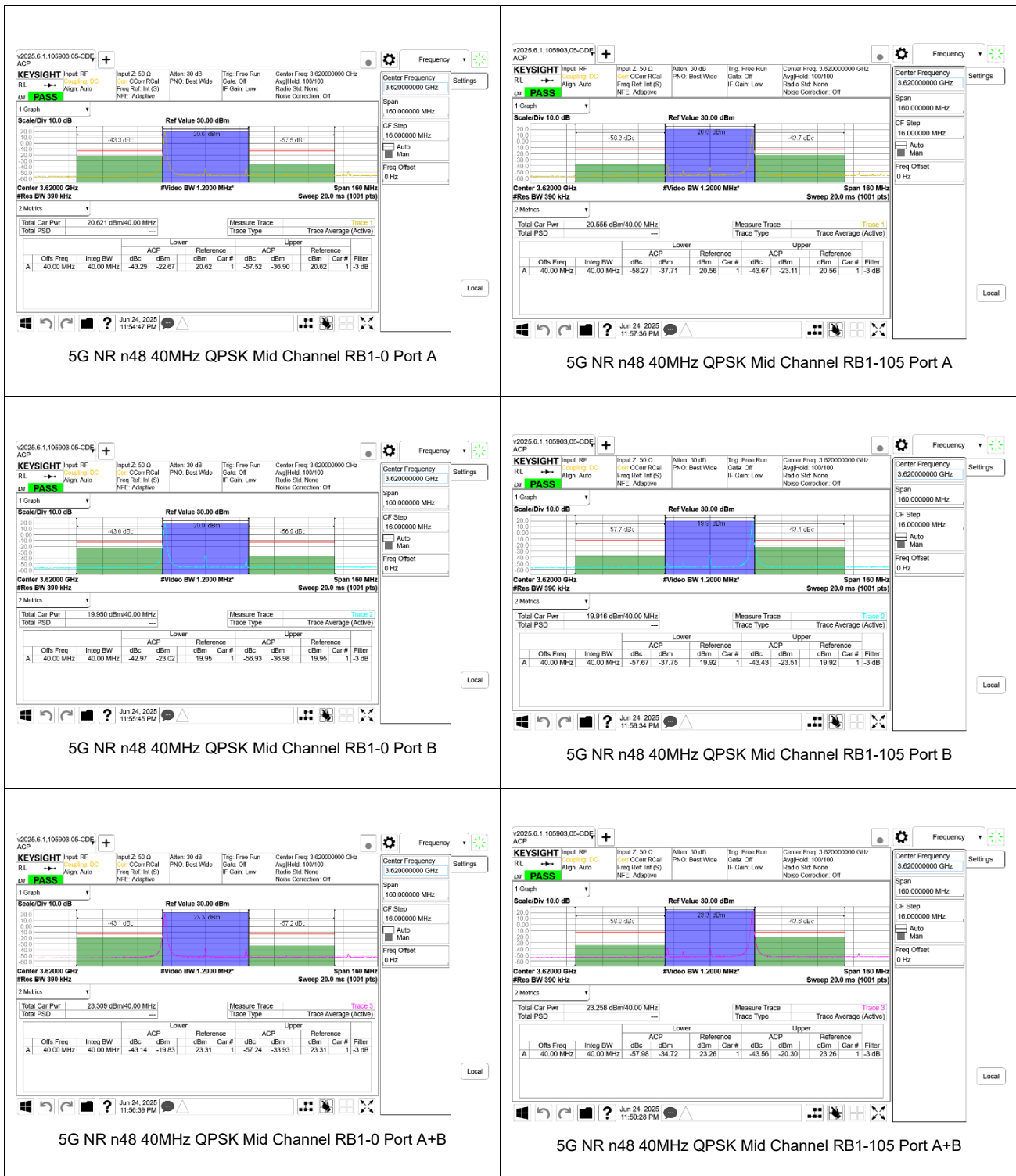
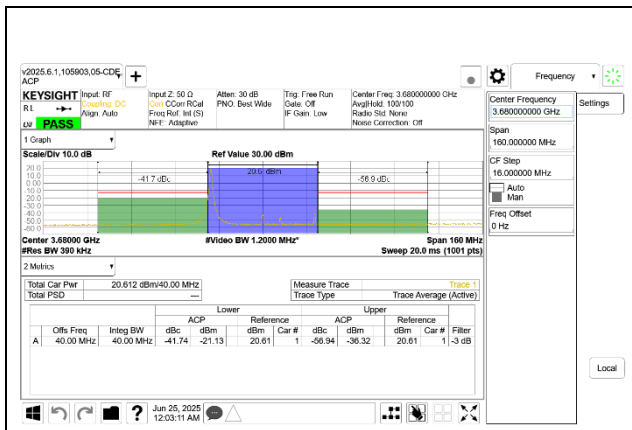




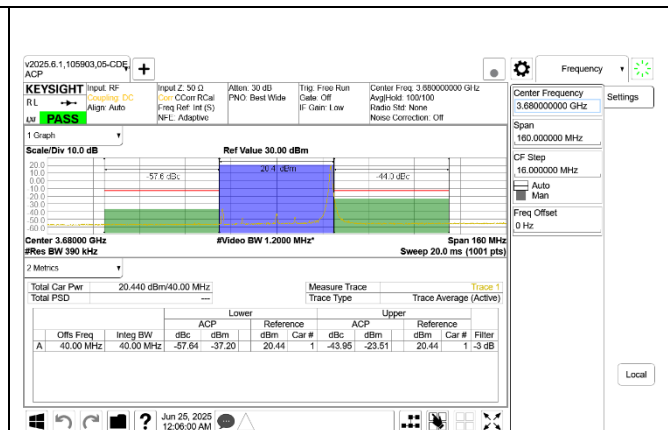




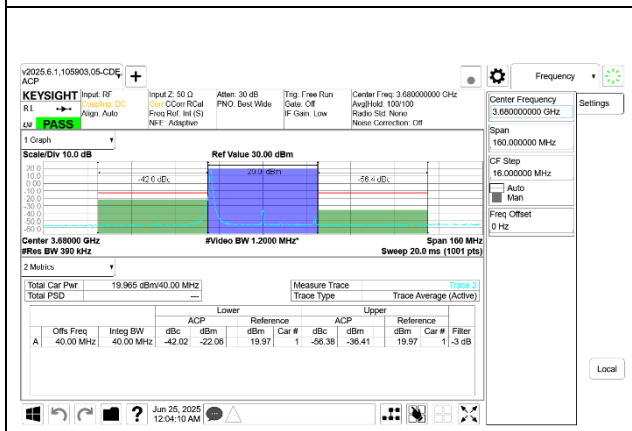




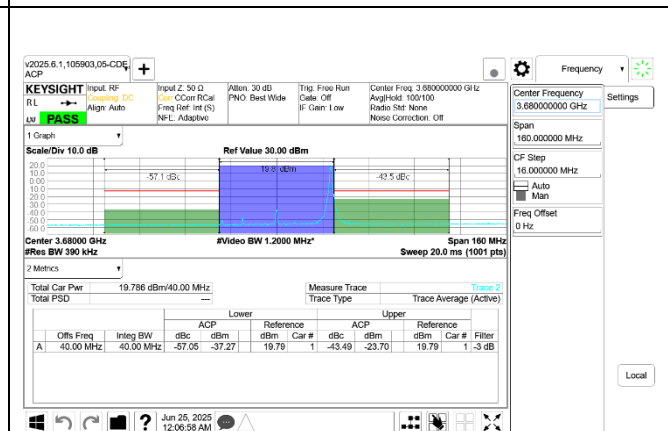
5G NR n48 40MHz QPSK High Channel RB1-0 Port A



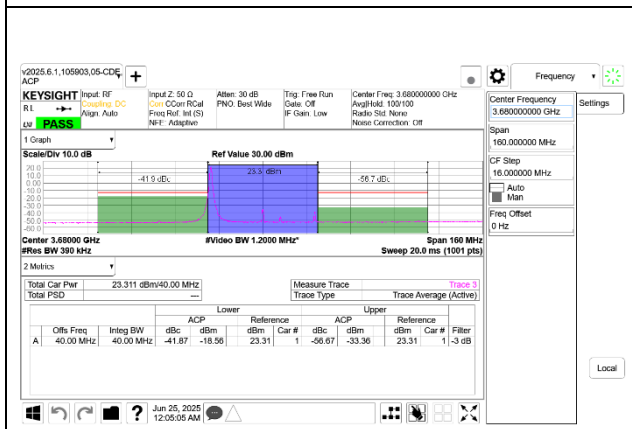
5G NR n48 40MHz QPSK High Channel RB1-105 Port A



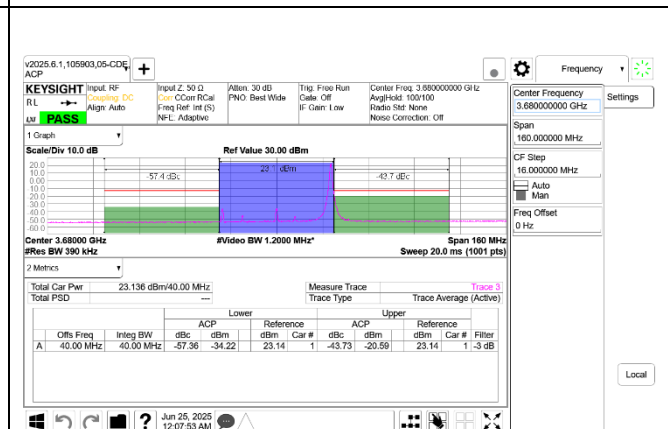
5G NR n48 40MHz QPSK High Channel RB1-0 Port B



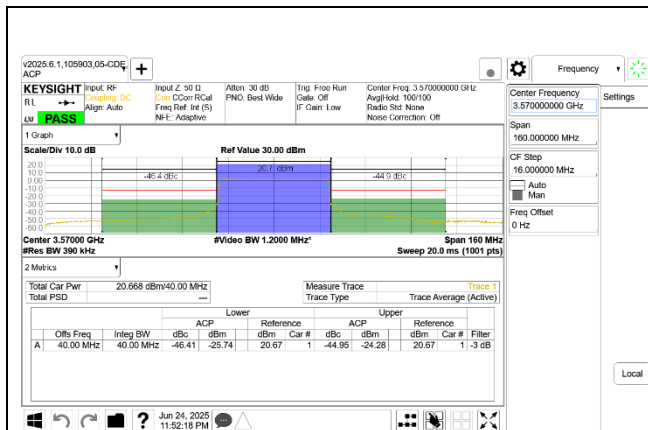
5G NR n48 40MHz QPSK High Channel RB1-105 Port B



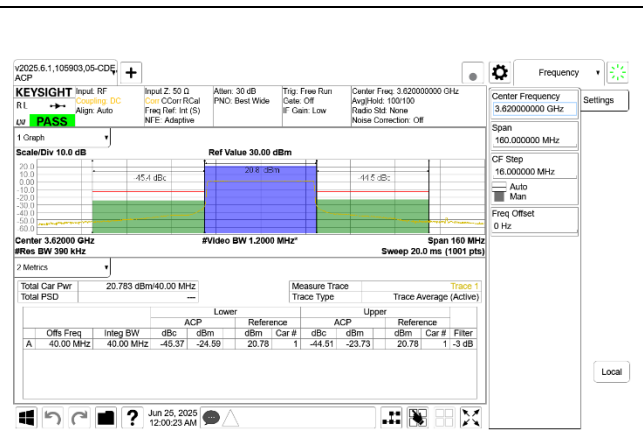
5G NR n48 40MHz QPSK High Channel RB1-0 Port A+B



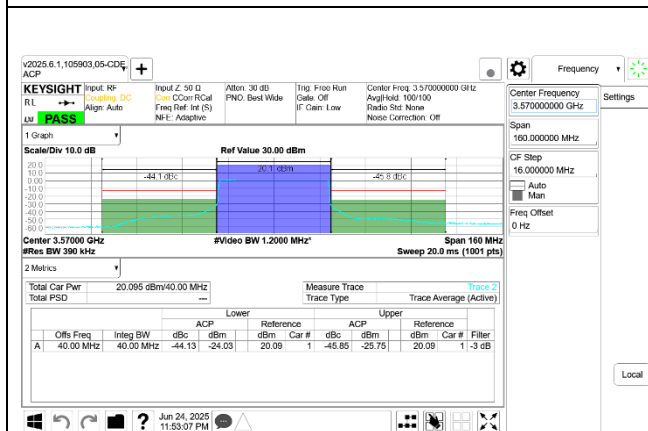
5G NR n48 40MHz QPSK High Channel RB1-105 Port A+B



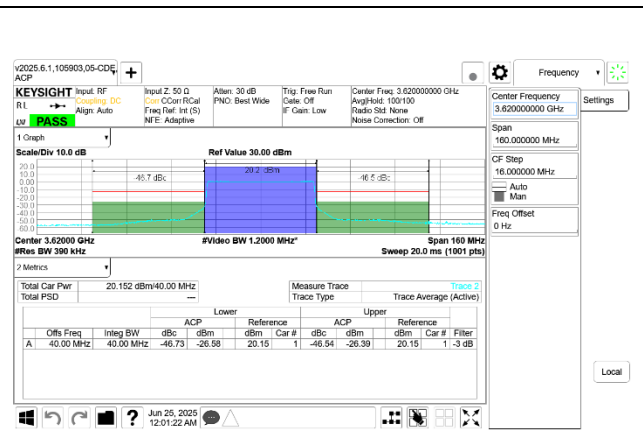
5G NR n48 40MHz QPSK Low Channel RB106-0 Port A



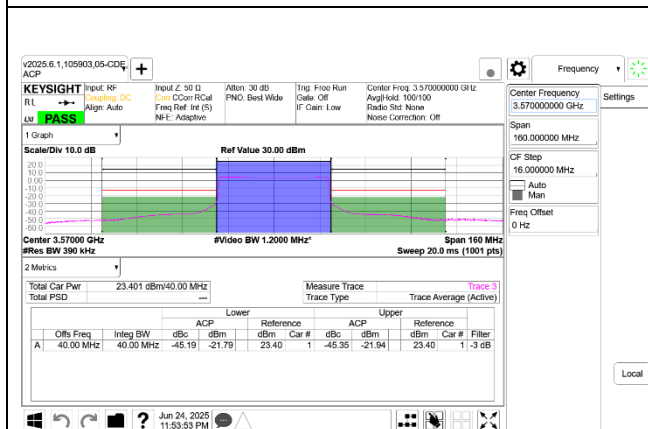
5G NR n48 40MHz QPSK Mid Channel RB106-0 Port A



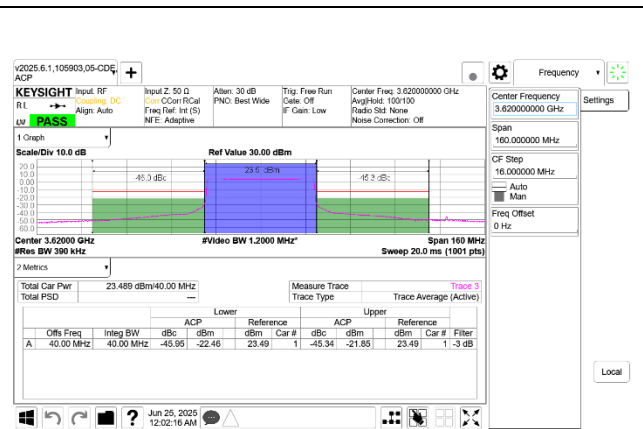
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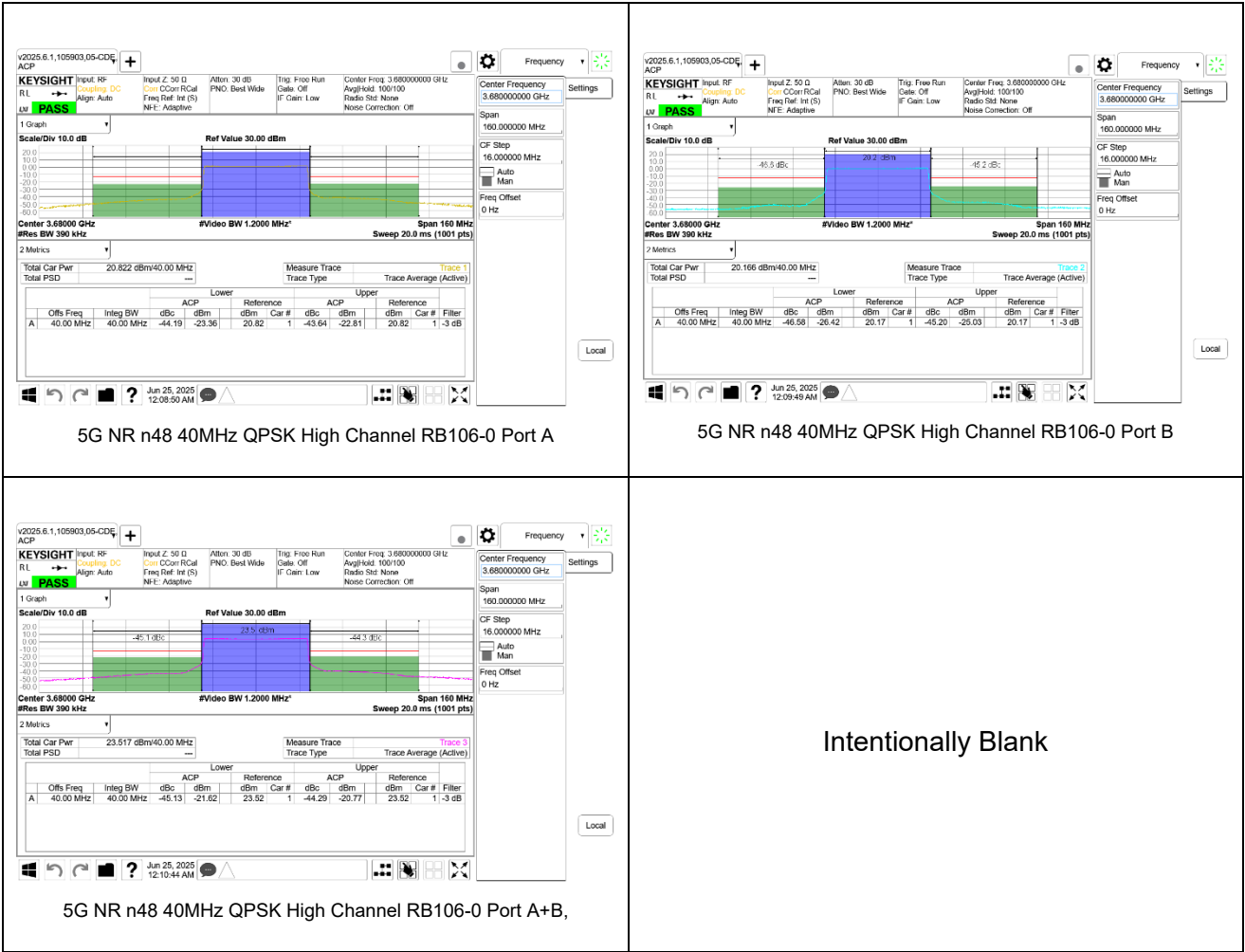
5G NR n48 40MHz QPSK Mid Channel RB106-0 Port B



5G NR n48 40MHz QPSK Low Channel RB106-0 Port A+B



5G NR n48 40MHz QPSK Mid Channel RB106-0 Port A+B



9.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(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

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

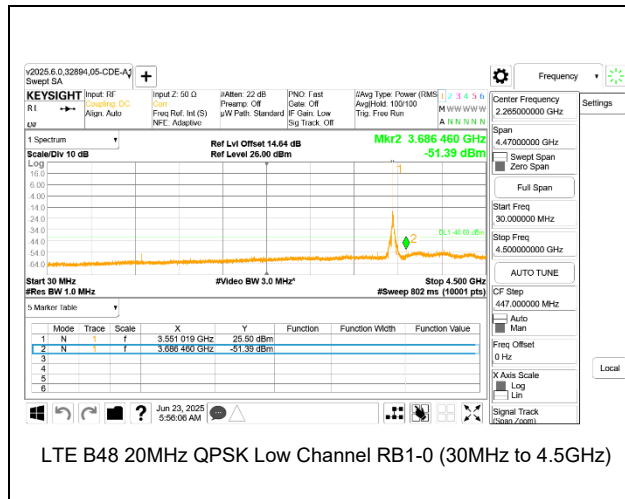
For each out of band emissions measurement:

- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

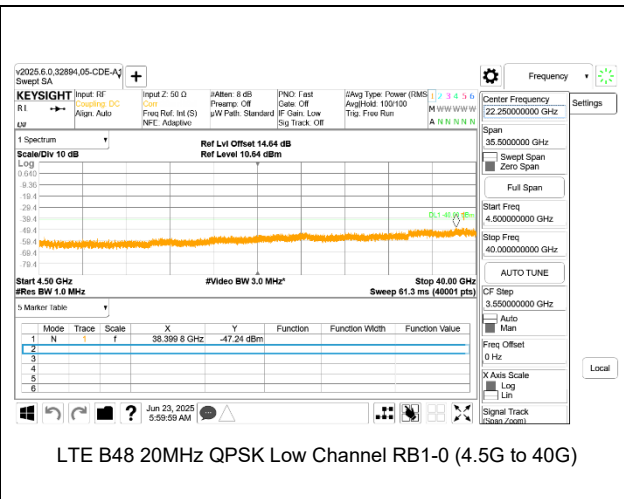
For MIMO modes are made using the measure and sum the spectra method E3)a)ii) / E)2)a) from KDB 662911 D01. The measurements for each antenna are stored in separate traces (i.e. trace 1 and trace 2). The spectrum analyzer's math function is used to perform a linear sum of powers of the two traces and store the result in trace 3. Trace 3 is compared to the in-band or out of band limit as applicable.

RESULTS

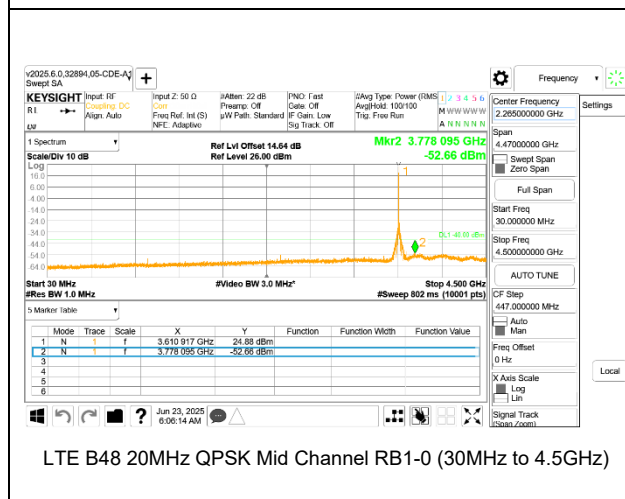
9.3.1. LTE BAND 48



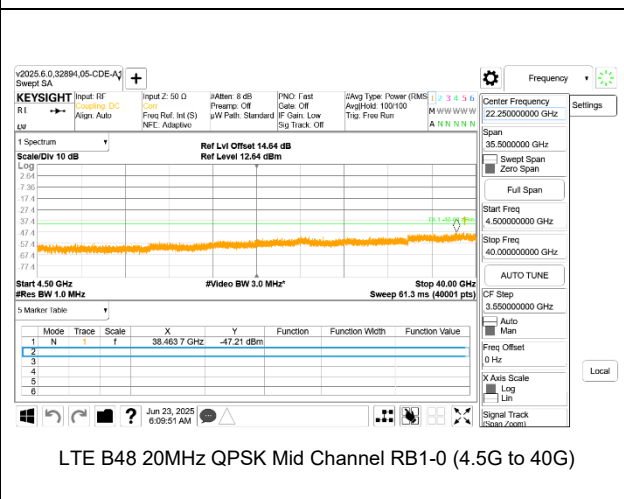
LTE B48 20MHz QPSK Low Channel RB1-0 (30MHz to 4.5GHz)



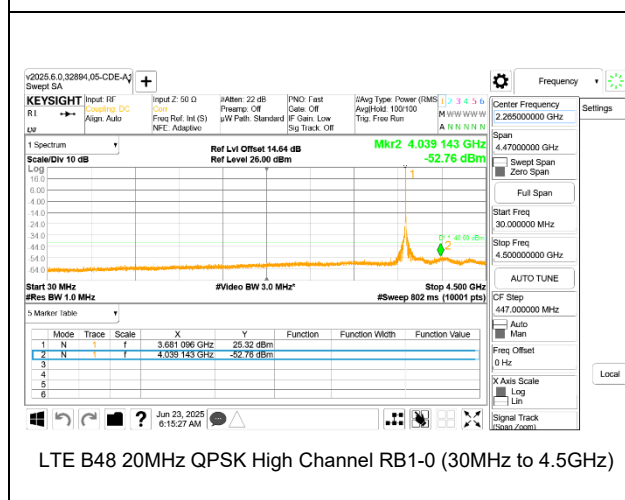
LTE B48 20MHz QPSK Low Channel RB1-0 (4.5G to 40G)



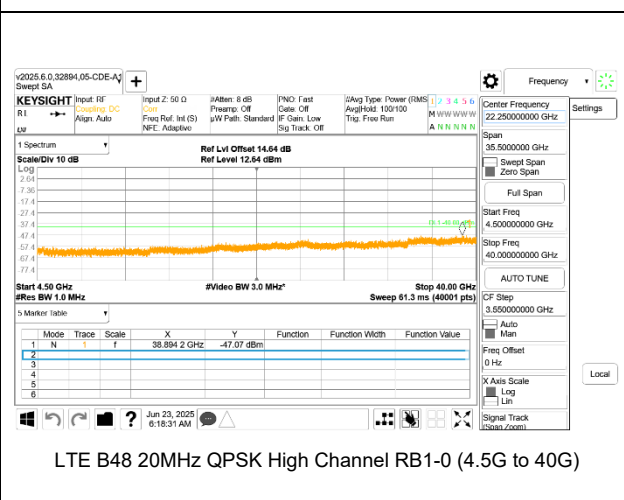
LTE B48 20MHz QPSK Mid Channel RB1-0 (30MHz to 4.5GHz)



LTE B48 20MHz QPSK Mid Channel RB1-0 (4.5G to 40G)



LTE B48 20MHz QPSK High Channel RB1-0 (30MHz to 4.5GHz)

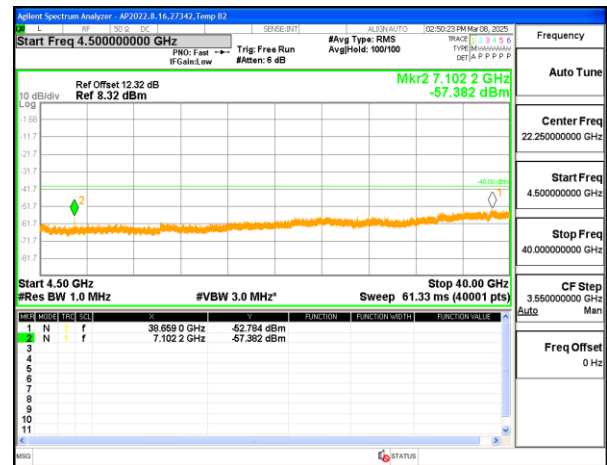


LTE B48 20MHz QPSK High Channel RB1-0 (4.5G to 40G)

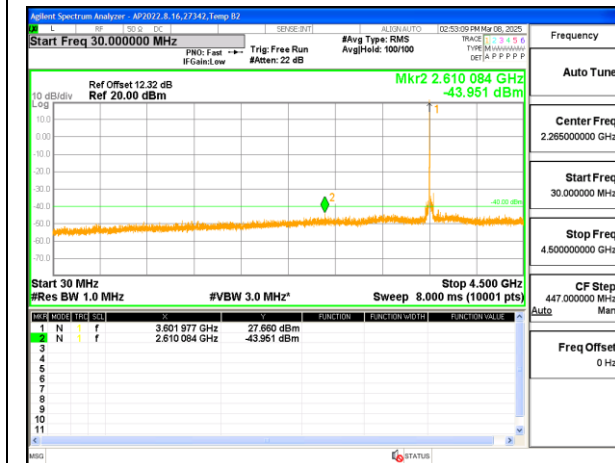
9.3.2. 5G NR n48



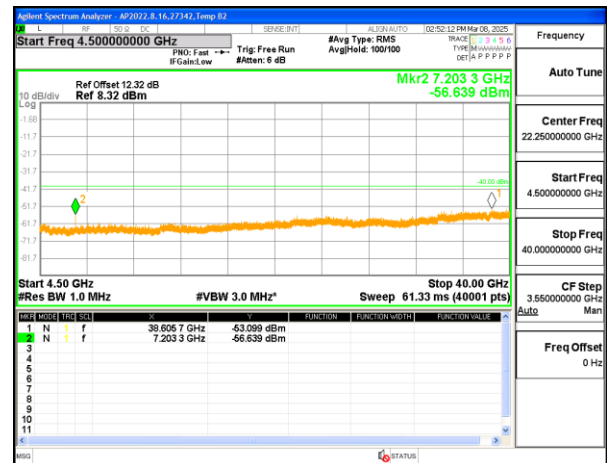
5G NR n48 40MHz QPSK Low Channel RB1-0 (30MHz to 4.5GHz)



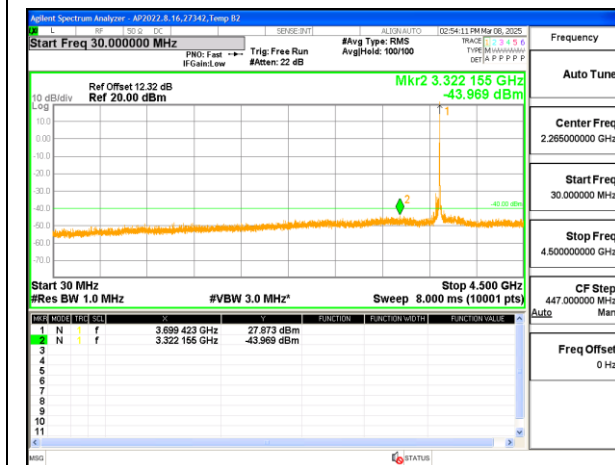
5G NR n48 40MHz QPSK Low Channel RB1-0 (4.5G to 40G)



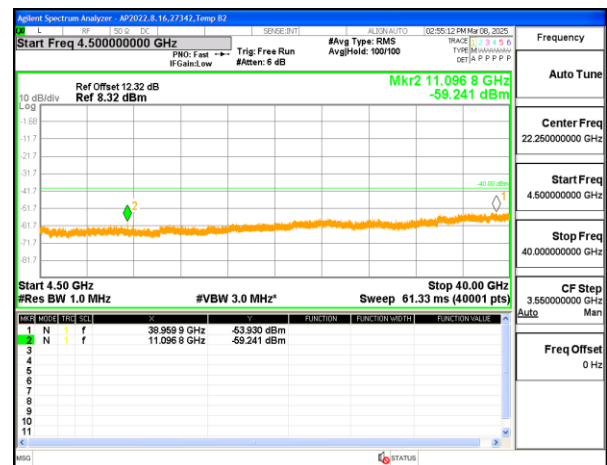
5G NR n48 40MHz QPSK Mid Channel RB1-1 (30MHz to 4.5GHz)



5G NR n48 40MHz QPSK Mid Channel RB1-1 (4.5G to 40G)

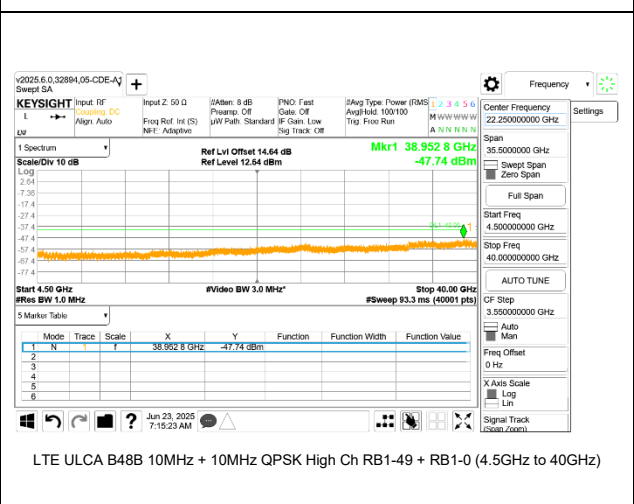
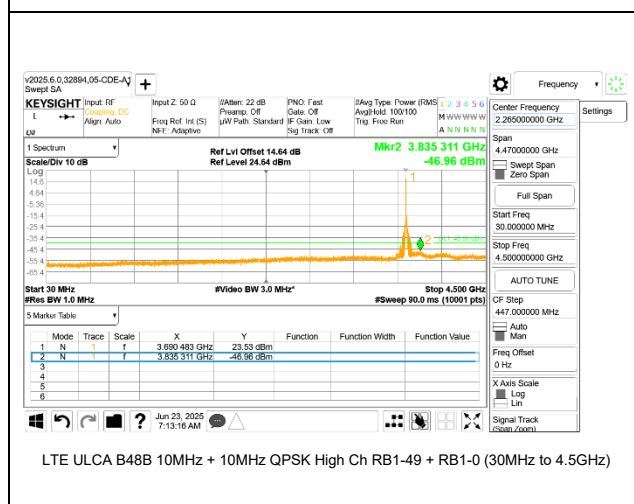
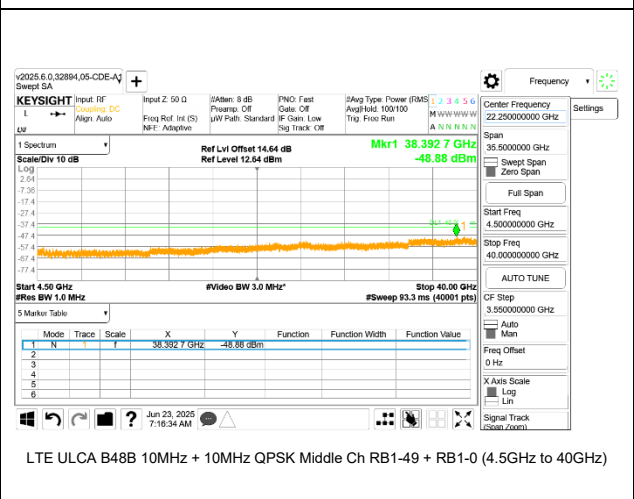
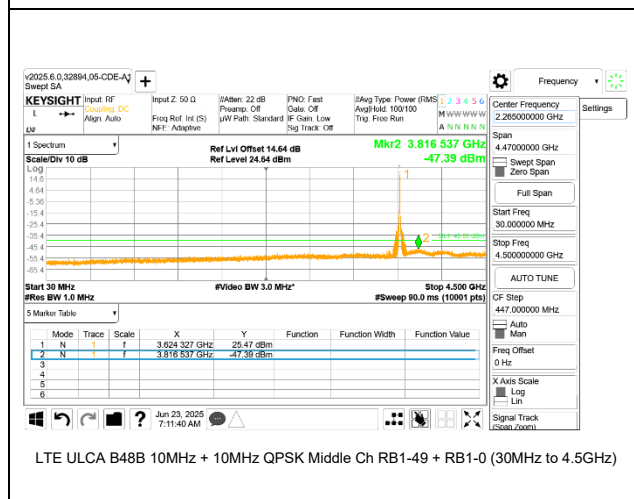
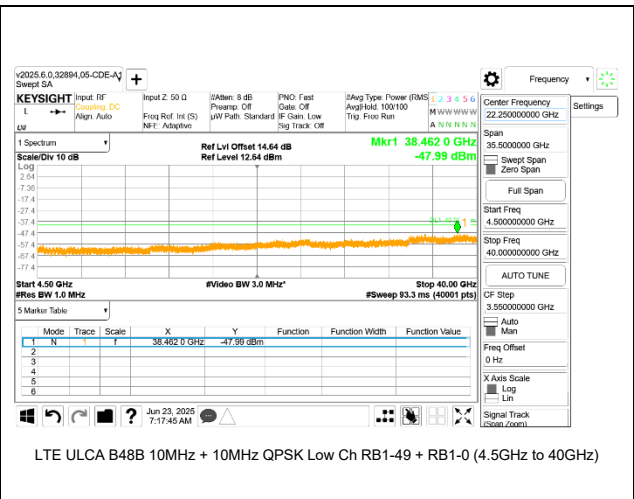
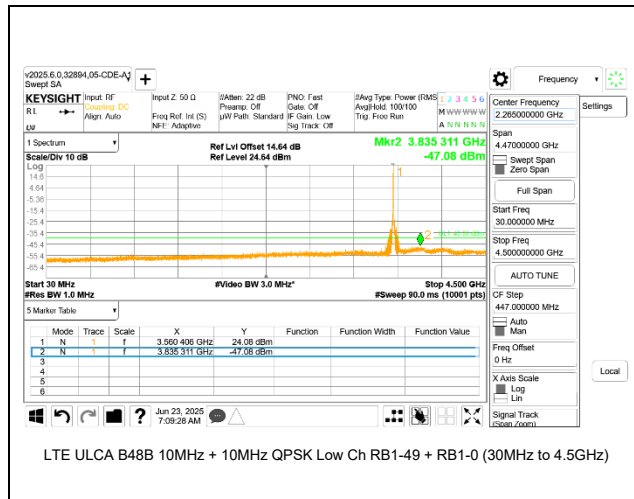


5G NR n48 40MHz QPSK High Channel RB1-105 (30MHz to 4.5GHz)

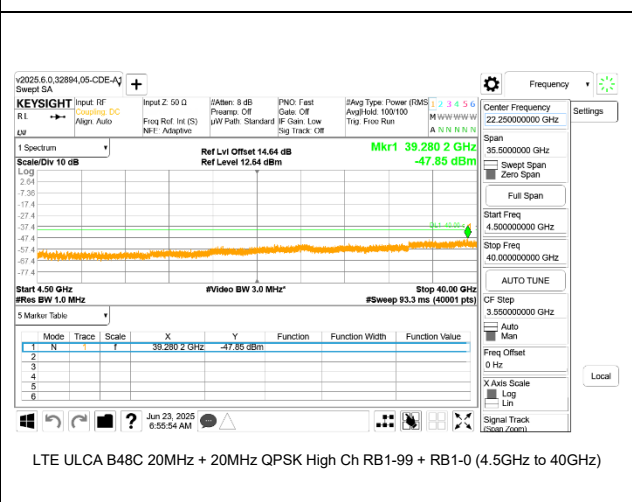
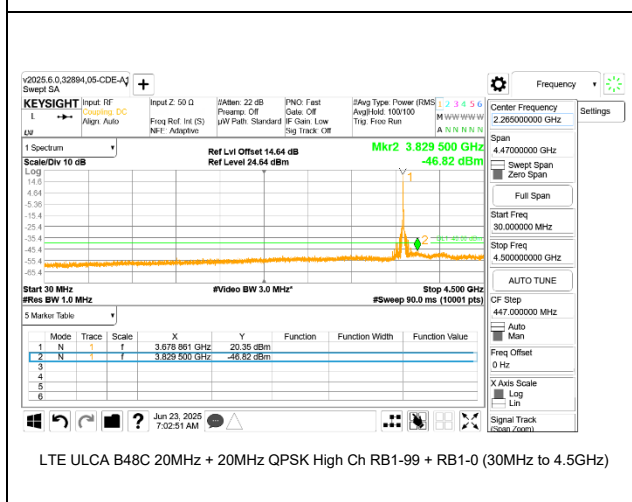
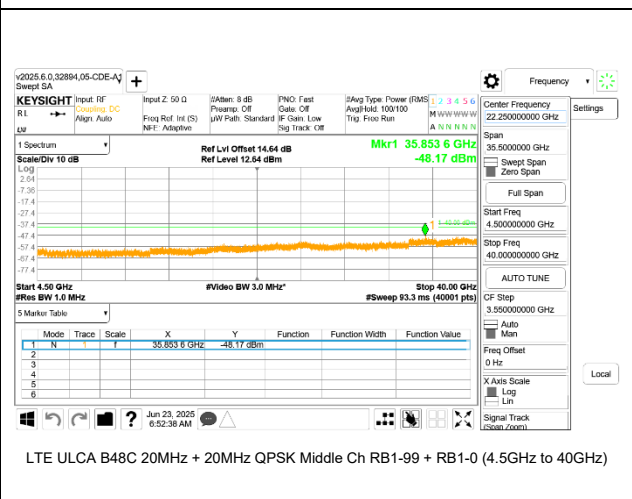
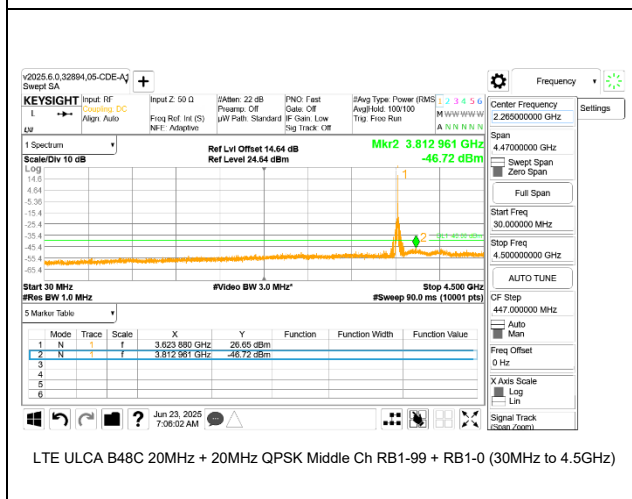
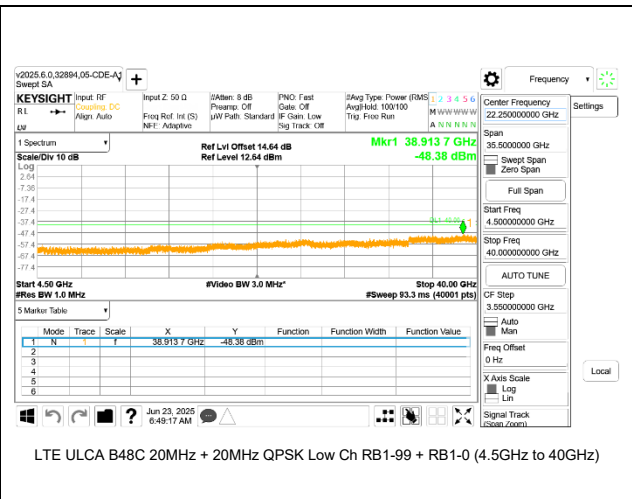
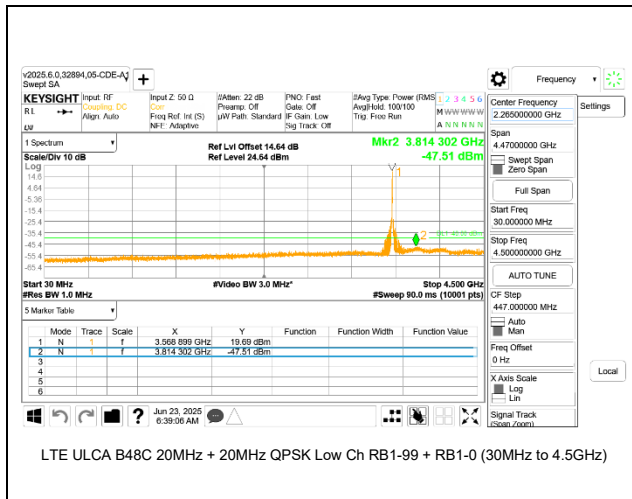


5G NR n48 40MHz QPSK High Channel RB1-105 (4.5G to 40G)

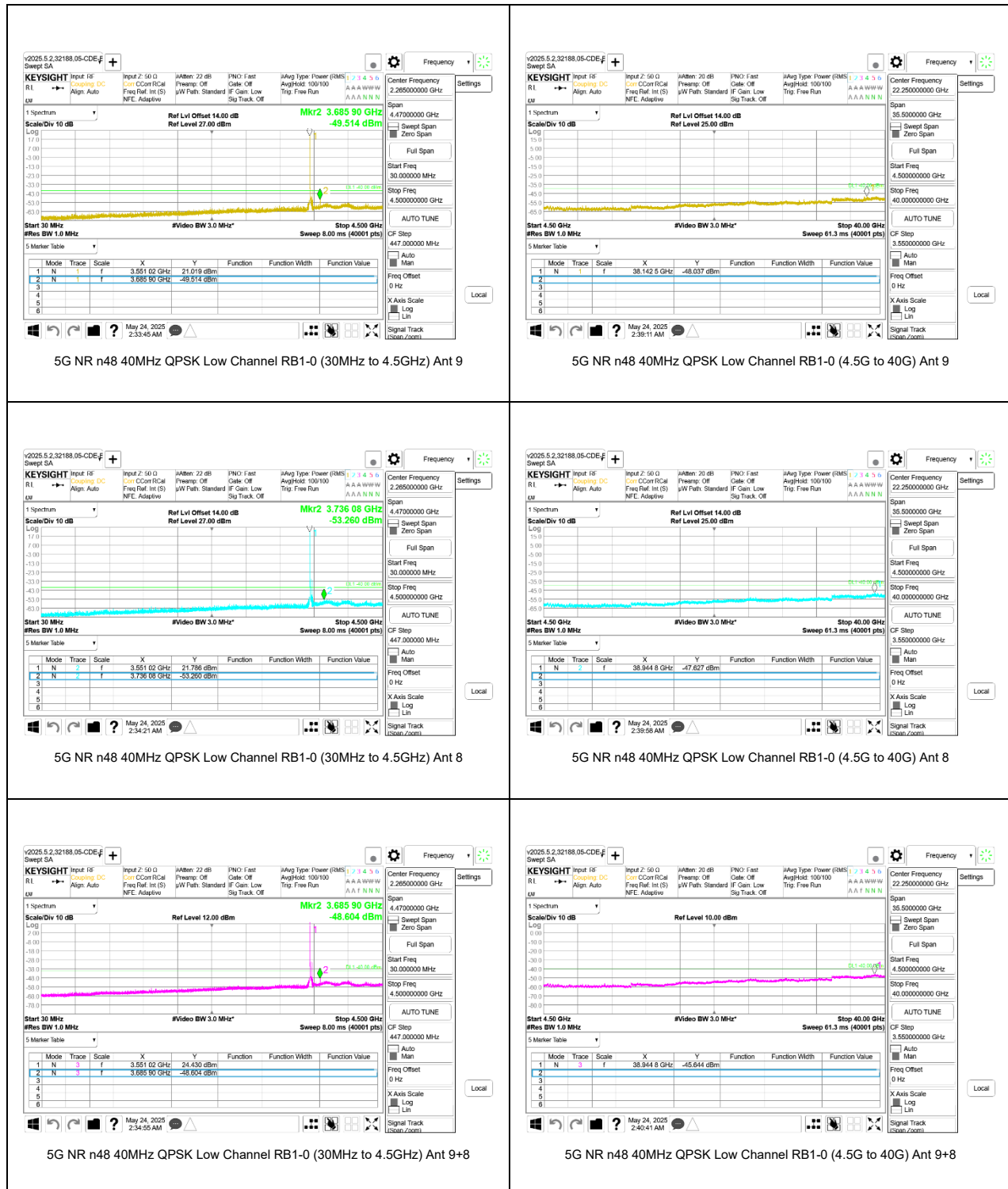
9.3.3. LTE ULCA BAND 48B

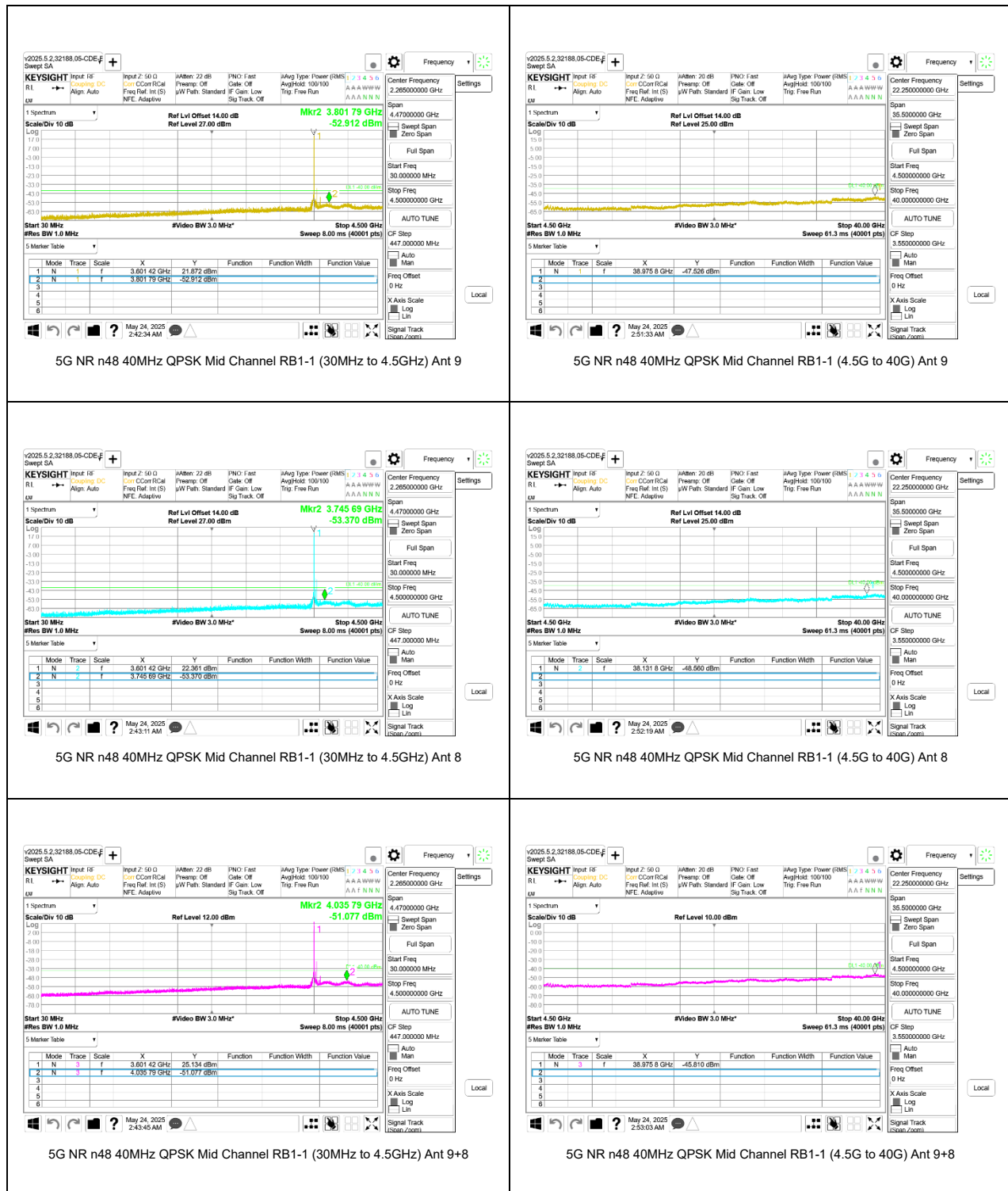


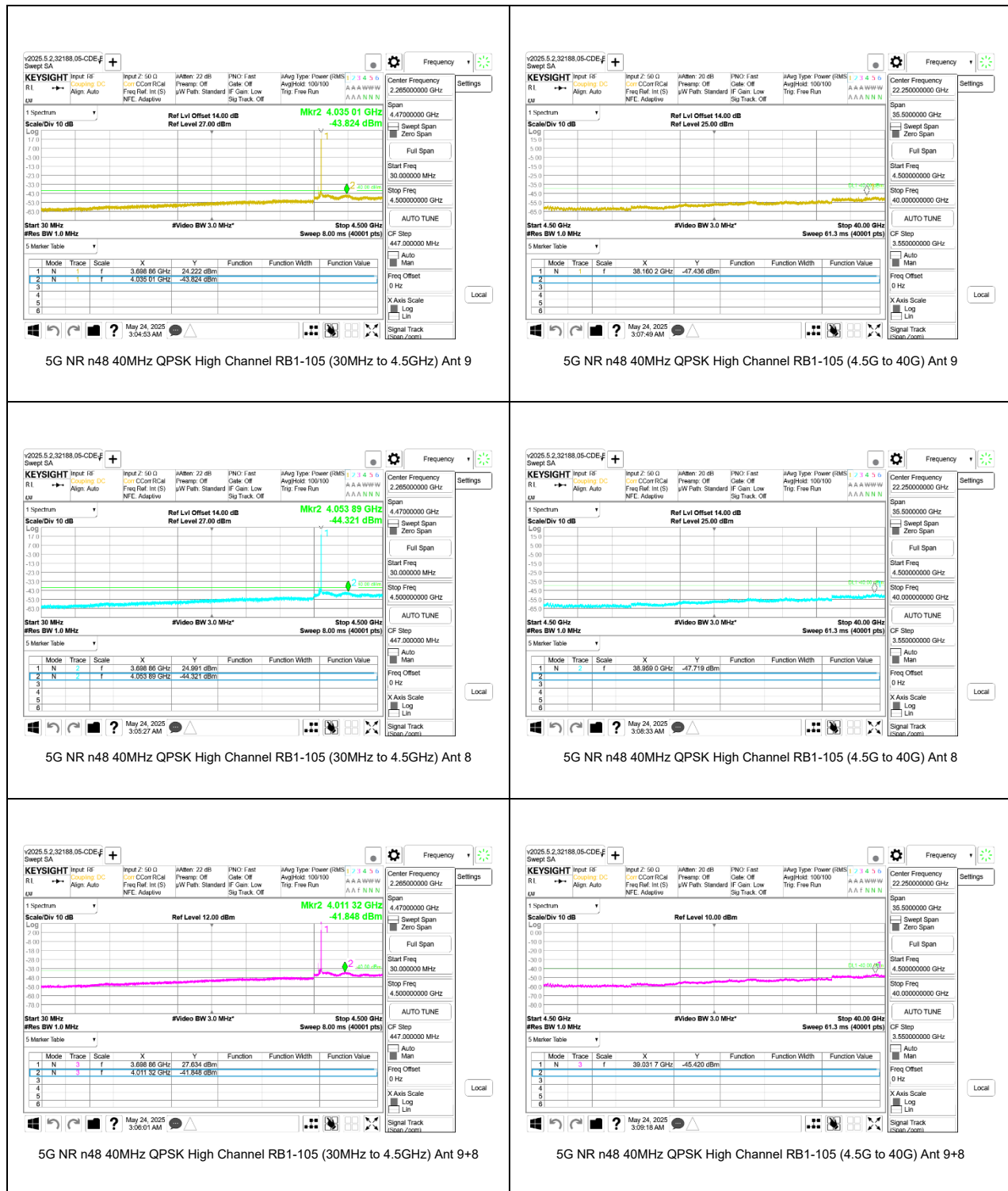
9.3.4. LTE ULCA BAND 48C



9.3.5. 5G NR n48 MIMO







9.4. FREQUENCY STABILITY

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. LTE BAND 48 QPSK (20MHz BANDWIDTH)

Test Engineer ID:	27700	Test Date:	3/4/2025
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LTE BAND 48 QPSK (20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	3550.7088	3698.9927			
Extreme (50°C)		3550.7088	3698.9927	2.2	0.001	Yes
Extreme (40°C)		3550.7088	3698.9927	-0.9	0.000	Yes
Extreme (30°C)		3550.7088	3698.9927	-3.1	-0.001	Yes
Extreme (10°C)		3550.7088	3698.9927	-4.2	-0.001	Yes
Extreme (0°C)		3550.7088	3698.9927	-0.1	0.000	Yes
Extreme (-10°C)		3550.7088	3698.9927	-4.8	-0.001	Yes
Extreme (-20°C)		3550.7088	3698.9927	-2.6	-0.001	Yes
Extreme (-30°C)		3550.7088	3698.9927	1.0	0.000	Yes
20°C	15%	3550.7088	3698.9927	-2.1	-0.001	Yes
	-15%	3550.7088	3698.9927	1.3	0.000	Yes
	End Point Voltage	3550.7088	3698.9927	6.1	0.002	Yes

9.4.2. 5G NR n48 QPSK (40MHz BANDWIDTH)

Test Engineer ID:	27700	Test Date:	3/20/2025
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5G NR n48 QPSK (40MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	3550.7049	3697.1090			
Extreme (50°C)		3550.7049	3697.1090	-6.14	-0.002	Yes
Extreme (40°C)		3550.7049	3697.1090	-6.27	-0.002	Yes
Extreme (30°C)		3550.7049	3697.1090	-2.91	-0.001	Yes
Extreme (10°C)		3550.7049	3697.1090	-8.45	-0.002	Yes
Extreme (0°C)		3550.7049	3697.1090	-3.98	-0.001	Yes
Extreme (-10°C)		3550.7049	3697.1090	0.48	0.000	Yes
Extreme (-20°C)		3550.7049	3697.1090	-13.44	-0.004	Yes
Extreme (-30°C)		3550.7049	3697.1090	-6.59	-0.002	Yes
20°C	15%	3550.7049	3697.1090	-2.26	-0.001	Yes
	-15%	3550.7049	3697.1090	-13.79	-0.004	Yes
	End Point Voltage	3550.7049	3697.1090	-3.52	-0.001	Yes

9.4.3. LTE ULCA BAND 48B QPSK (10MHz + 10MHz BANDWIDTH)

Test Engineer ID:	27700	Test Date:	3/13/2025
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Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	3550.0970	3699.8952			
Extreme (50°C)		3550.0970	3699.8952	79.2	0.022	Yes
Extreme (40°C)		3550.0970	3699.8952	63.6	0.018	Yes
Extreme (30°C)		3550.0970	3699.8952	54.8	0.015	Yes
Extreme (10°C)		3550.0970	3699.8952	46.4	0.013	Yes
Extreme (0°C)		3550.0970	3699.8952	36.0	0.010	Yes
Extreme (-10°C)		3550.0969	3699.8951	-49.4	-0.014	Yes
Extreme (-20°C)		3550.0969	3699.8951	-42.9	-0.012	Yes
Extreme (-30°C)		3550.0969	3699.8951	-35.7	-0.010	Yes
20°C	15%	3550.0970	3699.8952	42.3	0.012	Yes
	-15%	3550.0970	3699.8952	48.7	0.013	Yes
	End Point Voltage	3550.0970	3699.8952	69.9	0.019	Yes

9.4.4. LTE ULCA BAND 48C QPSK (20MHz + 20MHz BANDWIDTH)

Test Engineer ID:	27700	Test Date:	3/13/2025
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QPSK (20MHz + 20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage					
Normal (20°C)	Normal	3551.0226	3698.9595			
Extreme (50°C)		3551.0226	3698.9596	37.2	0.010	Yes
Extreme (40°C)		3551.0226	3698.9595	12.5	0.003	Yes
Extreme (30°C)		3551.0226	3698.9595	-7.9	-0.002	Yes
Extreme (10°C)		3551.0226	3698.9596	34.2	0.009	Yes
Extreme (0°C)		3551.0226	3698.9596	41.0	0.011	Yes
Extreme (-10°C)		3551.0226	3698.9596	33.8	0.009	Yes
Extreme (-20°C)		3551.0226	3698.9595	7.8	0.002	Yes
Extreme (-30°C)		3551.0226	3698.9595	-15.8	-0.004	Yes
20°C	15%	3551.0226	3698.9596	42.5	0.012	Yes
	-15%	3551.0226	3698.9596	42.2	0.012	Yes
	End Point Voltage	3551.0226	3698.9596	38.7	0.011	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

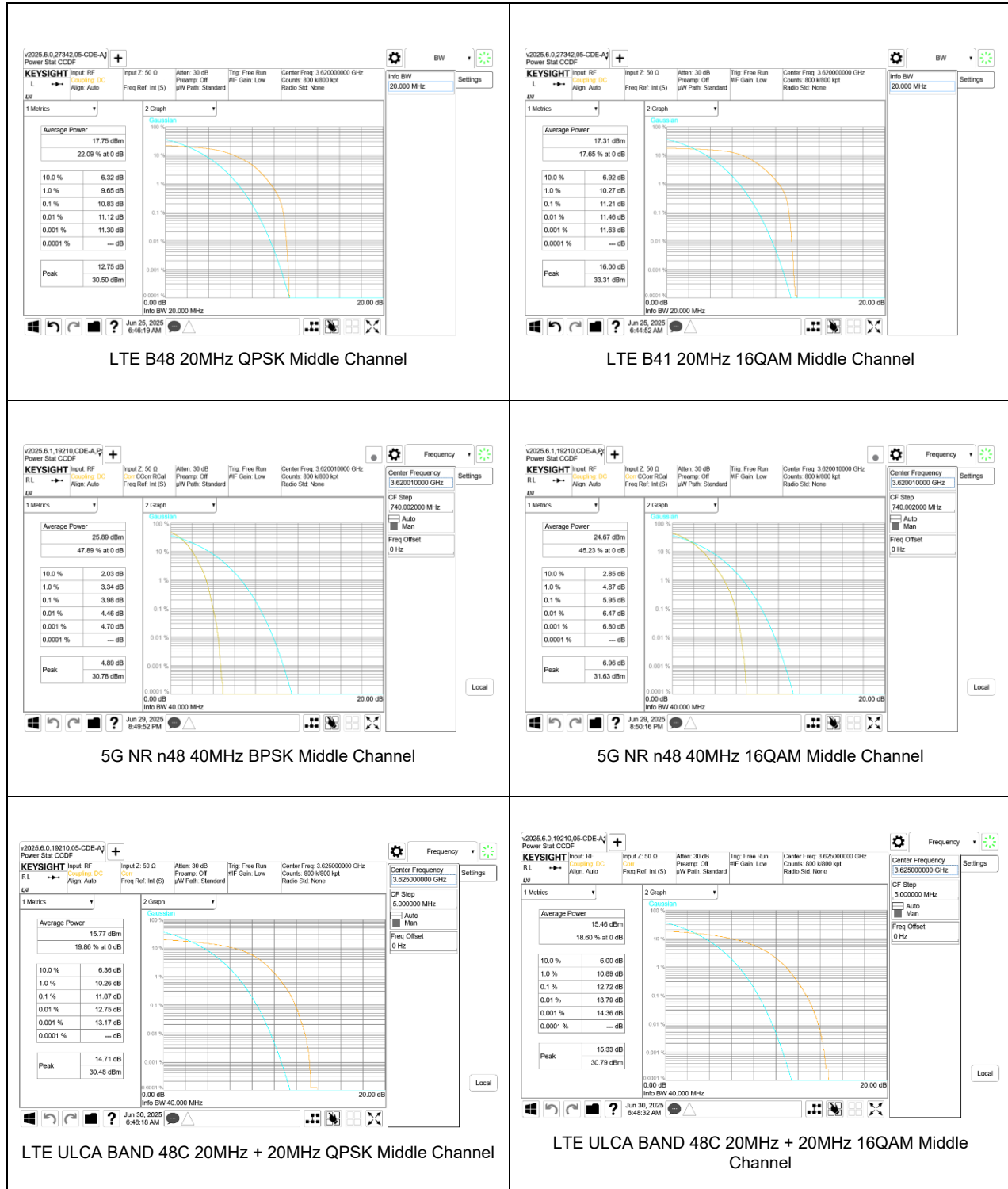
LIMIT

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

RESULT

Antenna 9 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Example Plots: FULL RB



9.5.1. LTE BAND 48

Test Engineer ID:	32188	Test Date:	2025-06-22
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 48	5MHz	3625.0	25	0	QPSK	31.82	17.95	6.88
					16QAM	34.98	17.59	10.40
	10MHz		50	0	QPSK	31.69	18.49	6.21
					16QAM	33.27	17.1	9.18
	15MHz	3620.0	75	0	QPSK	31.06	18.06	6.01
					16QAM	33.58	17.06	9.53
	20MHz		100	0	QPSK	30.50	17.75	5.76
					16QAM	33.31	17.31	9.01
Duty Cycle Correction Factor (dB) =			6.99					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.2. 5G NR n48

Test Engineer ID:	28498	Test Date:	2025-02-27
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n48	10MHz	3625.0	24	0	BPSK	30.84	26.68	4.16
					16QAM	32.07	25.66	6.41
	15MHz	3620.0	36	0	BPSK	31.07	26.60	4.47
					16QAM	32.21	25.48	6.73
	20MHz		50	0	BPSK	30.60	26.53	4.07
					16QAM	31.91	25.33	6.58
	30MHz	3625.0	75	0	BPSK	30.25	25.88	4.37
					16QAM	31.62	24.88	6.74
	40MHz	3620.0	100	0	BPSK	30.78	25.89	4.89
					16QAM	31.63	24.67	6.96
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.3. LTE ULCA BAND 48B

Test Engineer ID:	19210	Test Date:	2025-03-14
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Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
LTE ULCA Band 48B	10MHz / 10MHz	3620.1	3630.0	QPSK	33.01	22.46	3.55
				16QAM	31.10	21.24	2.86
Duty Cycle Correction Factor (dB) =			7.00				
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

9.5.4. LTE ULCA BAND 48C

Test Engineer ID:	19210	Test Date:	2025-03-14
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Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
LTE ULCA Band 48C	5MHz / 20MHz	3615.8	3627.5	QPSK	30.46	16.41	7.06
				16QAM	31.04	15.94	8.11
	20MHz / 5MHz	3622.5	3634.2	QPSK	29.84	15.57	7.28
				16QAM	30.54	15.50	8.05
	10MHz / 20MHz	3615.6	3630.0	QPSK	29.17	14.97	7.21
				16QAM	30.20	14.93	8.28
	20MHz / 10MHz	3620.1	3634.5	QPSK	29.16	15.32	6.85
				16QAM	30.20	14.97	8.24
	15MHz / 20MHz	3615.3	3632.4	QPSK	29.82	15.48	7.35
				16QAM	30.79	15.45	8.35
	20MHz / 15MHz	3617.6	3634.7	QPSK	29.54	15.46	7.09
				16QAM	30.74	15.46	8.29
	20MHz / 20MHz	3615.1	3634.9	QPSK	30.48	15.77	7.72
				16QAM	30.79	15.46	8.34
Duty Cycle Correction Factor (dB) =			6.99				
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

10. RADIATED TEST RESULTS

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

Radiated measurement using the Field Strength Method

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

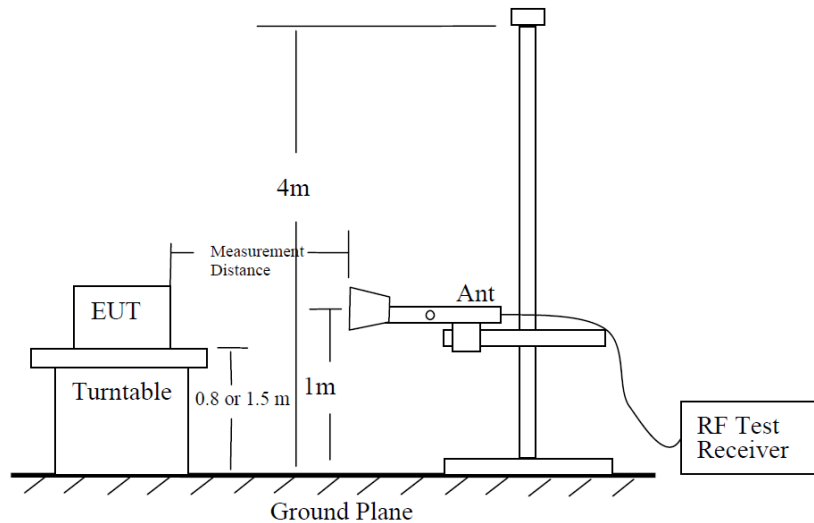


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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

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

b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.

c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.

d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

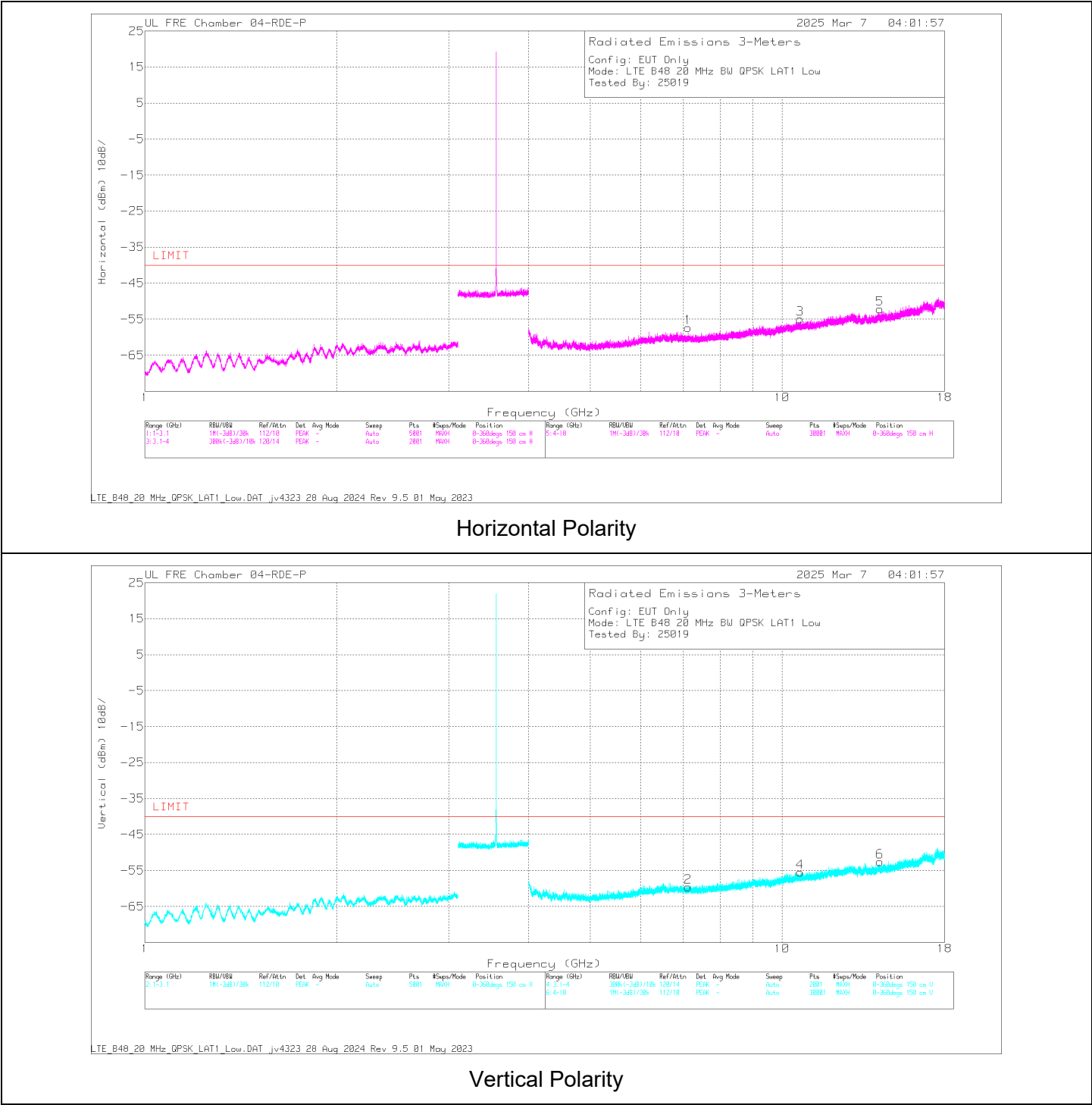
So, from d)

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

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

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

Example Plot



Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
7.119669	43.95	RMS	35.7	-95.2	-45.21	-60.76	-40	-20.76	H
7.120136	43.99	RMS	35.7	-95.2	-45.22	-60.73	-40	-20.73	V
10.680805	43.51	RMS	37.7	-95.2	-43.68	-57.67	-40	-17.67	H
10.680805	43.53	RMS	37.7	-95.2	-43.68	-57.65	-40	-17.65	V
14.241474	44.18	RMS	39.1	-95.2	-43.24	-55.16	-40	-15.16	H
14.241941	44.19	RMS	39.1	-95.2	-43.28	-55.19	-40	-15.19	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

TEST PROCEDURE

KDB 971168 D01 /D02

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

RESULTS

10.1.1. LTE BAND 48

QPSK LTE BAND 48 (20MHz BANDWIDTH, ANT 9)

Date:	2025-06-24
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE B48 20MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.119669	43.95	RMS	35.7	-95.2	-45.21	-60.76	-40	-20.76	H
7.120136	43.99	RMS	35.7	-95.2	-45.22	-60.73	-40	-20.73	V
10.680805	43.51	RMS	37.7	-95.2	-43.68	-57.67	-40	-17.67	H
10.680805	43.53	RMS	37.7	-95.2	-43.68	-57.65	-40	-17.65	V
14.241474	44.18	RMS	39.1	-95.2	-43.24	-55.16	-40	-15.16	H
14.241941	44.19	RMS	39.1	-95.2	-43.28	-55.19	-40	-15.19	V
Mid Channel, 3625MHz									
7.250336	44.26	RMS	35.7	-95.2	-45.75	-60.99	-40	-20.99	H
7.249869	44.31	RMS	35.7	-95.2	-45.75	-60.94	-40	-20.94	V
10.375605	44.17	RMS	37.4	-95.2	-45.24	-58.87	-40	-18.87	H
10.375138	44.20	RMS	37.4	-95.2	-45.24	-58.84	-40	-18.84	V
14.502808	44.25	RMS	39.4	-95.2	-43.00	-54.55	-40	-14.55	H
14.499074	44.35	RMS	39.4	-95.2	-42.92	-54.37	-40	-14.37	V
High Channel, 3690MHz									
7.380536	44.62	RMS	35.7	-95.2	-46.08	-60.96	-40	-20.96	H
7.381002	44.64	RMS	35.7	-95.2	-46.10	-60.96	-40	-20.96	V
11.070005	42.85	RMS	37.8	-95.2	-42.93	-57.48	-40	-17.48	H
11.069772	42.90	RMS	37.8	-95.2	-42.93	-57.43	-40	-17.43	V
14.760874	43.99	RMS	39.5	-95.2	-42.93	-54.64	-40	-14.64	H
14.760874	44.02	RMS	39.5	-95.2	-42.93	-54.61	-40	-14.61	V

QPSK LTE BAND 48 (20MHz BANDWIDTH, ANT 8)

Date:	2025-03-10
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE B48 20MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.120136	44.21	RMS	35.70	-95.2	-45.22	-60.51	-40	-20.51	H
7.120136	44.21	RMS	35.70	-95.2	-45.22	-60.51	-40	-20.51	V
10.680338	43.66	RMS	37.70	-95.2	-43.69	-57.53	-40	-17.53	H
10.680338	43.65	RMS	37.70	-95.2	-43.69	-57.54	-40	-17.54	V
14.241007	44.43	RMS	39.10	-95.2	-43.20	-54.87	-40	-14.87	H
14.241007	46.48	RMS	39.10	-95.2	-43.20	-52.82	-40	-12.82	V
Mid Channel, 3625MHz									
7.249869	44.47	RMS	35.70	-95.2	-45.75	-60.78	-40	-20.78	H
7.249869	44.48	RMS	35.70	-95.2	-45.75	-60.77	-40	-20.77	V
10.874938	43.29	RMS	37.70	-95.2	-43.48	-57.69	-40	-17.69	H
10.874938	43.29	RMS	37.70	-95.2	-43.48	-57.69	-40	-17.69	V
14.500008	44.59	RMS	39.40	-95.2	-42.88	-54.09	-40	-14.09	H
14.500008	44.62	RMS	39.40	-95.2	-42.88	-54.06	-40	-14.06	V
High Channel, 3690MHz									
7.380536	44.79	RMS	35.70	-95.20	-46.08	-60.79	-40	-20.79	H
7.380536	44.79	RMS	35.70	-95.20	-46.08	-60.79	-40	-20.79	V
11.070005	42.90	RMS	37.80	-95.20	-42.93	-57.43	-40	-17.43	H
11.070005	42.91	RMS	37.80	-95.20	-42.93	-57.42	-40	-17.42	V
14.760408	44.18	RMS	39.50	-95.20	-42.93	-54.45	-40	-14.45	H
7.380536	44.79	RMS	35.70	-95.20	-46.08	-60.79	-40	-20.79	V

QPSK LTE BAND 48 (20MHz BANDWIDTH, ANT 4)

Date:	2025-03-10
Test Engineer:	25109
Configuration:	EUT ONLY
Mode:	LTE B48 20MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.120602	44.15	RMS	35.7	-95.2	-45.22	-60.57	-40	-20.57	H
7.120602	44.16	RMS	35.7	-95.2	-45.22	-60.56	-40	-20.56	V
10.680338	43.59	RMS	37.7	-95.2	-43.69	-57.60	-40	-17.60	H
10.680338	43.61	RMS	37.7	-95.2	-43.69	-57.58	-40	-17.58	V
14.240541	44.32	RMS	39.1	-95.2	-43.2	-54.98	-40	-14.98	H
14.240541	44.34	RMS	39.1	-95.2	-43.2	-54.96	-40	-14.96	V
Mid Channel, 3625MHz									
7.250336	44.42	RMS	35.7	-95.2	-45.75	-60.83	-40	-20.83	H
7.250336	44.41	RMS	35.7	-95.2	-45.75	-60.84	-40	-20.84	V
10.875405	43.22	RMS	37.7	-95.2	-43.46	-57.74	-40	-17.74	H
10.875405	43.24	RMS	37.7	-95.2	-43.46	-57.72	-40	-17.72	V
14.500474	44.48	RMS	39.4	-95.2	-42.91	-54.23	-40	-14.23	H
14.500474	44.50	RMS	39.4	-95.2	-42.91	-54.21	-40	-14.21	V
High Channel, 3690MHz									
7.380069	44.75	RMS	35.7	-95.2	-46.06	-60.81	-40	-20.81	H
7.380069	44.77	RMS	35.7	-95.2	-46.06	-60.79	-40	-20.79	V
11.070005	42.88	RMS	37.8	-95.2	-42.93	-57.45	-40	-17.45	H
11.070005	42.88	RMS	37.8	-95.2	-42.93	-57.45	-40	-17.45	V
14.760874	44.12	RMS	39.5	-95.2	-42.93	-54.51	-40	-14.51	H
14.760874	44.14	RMS	39.5	-95.2	-42.93	-54.49	-40	-14.49	V

QPSK LTE BAND 48 (20MHz BANDWIDTH, ANT 7)

Date:	2025-03-12
Test Engineer:	25019
Configuration:	EUT ONLY
Mode:	LTE B48 20MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.100536	44.08	RMS	35.7	-95.2	-45.35	-60.77	-40	-20.77	H
7.100536	44.07	RMS	35.7	-95.2	-45.35	-60.78	-40	-20.78	V
10.650005	43.79	RMS	37.6	-95.2	-43.73	-57.54	-40	-17.54	H
10.650005	43.79	RMS	37.6	-95.2	-43.73	-57.54	-40	-17.54	V
14.199941	44.06	RMS	39	-95.2	-42.88	-55.02	-40	-15.02	H
14.199941	44.07	RMS	39	-95.2	-42.88	-55.01	-40	-15.01	V
Mid Channel, 3625MHz									
7.230736	44.56	RMS	35.7	-95.2	-45.57	-60.51	-40	-20.51	H
7.230736	44.59	RMS	35.7	-95.2	-45.57	-60.48	-40	-20.48	V
10.845538	43.10	RMS	37.7	-95.2	-43.48	-57.88	-40	-17.88	H
10.845538	43.11	RMS	37.7	-95.2	-43.48	-57.87	-40	-17.87	V
14.460807	44.27	RMS	39.3	-95.2	-42.8	-54.43	-40	-14.43	H
14.460807	44.27	RMS	39.3	-95.2	-42.8	-54.43	-40	-14.43	V
High Channel, 3690MHz									
7.360469	44.64	RMS	35.7	-95.2	-45.97	-60.83	-40	-20.83	H
7.360469	44.66	RMS	35.7	-95.2	-45.97	-60.81	-40	-20.81	V
11.040138	42.95	RMS	37.8	-95.2	-42.9	-57.35	-40	-17.35	H
11.040138	42.96	RMS	37.8	-95.2	-42.9	-57.34	-40	-17.34	V
14.720741	44.00	RMS	39.5	-95.2	-43.16	-54.86	-40	-14.86	H
14.720741	43.99	RMS	39.5	-95.2	-43.16	-54.87	-40	-14.87	V

10.1.2. 5G NR n48

QPSK 5G NR n48 (40MHZ BANDWIDTH, ANT 9)

Date:	2025-03-18
Test Engineer:	32703
Configuration:	EUT Only
Mode:	FR1 N48 40MHz QPSK
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.100536	43.22	RMS	35.9	-95.2	-45.9	-61.98	-40	-21.98	H
7.100536	43.26	RMS	35.9	-95.2	-45.9	-61.94	-40	-21.94	V
10.650471	43.64	RMS	37.7	-95.2	-44.75	-58.61	-40	-18.61	H
10.650471	43.64	RMS	37.7	-95.2	-44.75	-58.61	-40	-18.61	V
14.200407	42.72	RMS	39.1	-95.2	-43.10	-56.48	-40	-16.48	H
14.200407	42.64	RMS	39.1	-95.2	-43.10	-56.56	-40	-16.56	V
Mid Channel, 3620MHz									
7.210202	43.81	RMS	35.8	-95.2	-46	-61.59	-40	-21.59	H
7.210202	43.82	RMS	35.8	-95.2	-46	-61.58	-40	-21.58	V
10.815672	43.07	RMS	37.7	-95.2	-44.7	-59.13	-40	-19.13	H
10.815672	43	RMS	37.7	-95.2	-44.7	-59.2	-40	-19.20	V
14.420207	43.38	RMS	39.2	-95.2	-42.7	-55.32	-40	-15.32	H
14.420207	43.37	RMS	39.2	-95.2	-42.7	-55.33	-40	-15.33	V
High Channel, 3680MHz									
7.320336	43.58	RMS	35.8	-95.2	-45.80	-61.62	-40	-21.62	H
7.320336	43.60	RMS	35.8	-95.2	-45.80	-61.60	-40	-21.60	V
10.980405	43.30	RMS	37.8	-95.2	-44.50	-58.60	-40	-18.60	H
10.980405	43.31	RMS	37.8	-95.2	-44.50	-58.59	-40	-18.59	V
14.640008	42.73	RMS	39.4	-95.2	-43.00	-56.07	-40	-16.07	H
14.640008	42.80	RMS	39.4	-95.2	-43.00	-56.00	-40	-16.00	V

QPSK 5G NR n48 (40MHZ BANDWIDTH, ANT 8)

Date:	2025-03-20
Test Engineer:	28567
Configuration:	EUT Only
Mode:	FR1 N48 QPSK 40MHz
Chamber #:	05-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.120136	43.17	RMS	35.8	-95.2	-45.70	-61.93	-40	-21.93	H
7.120136	43.15	RMS	35.8	-95.2	-45.70	-61.95	-40	-21.95	V
10.680805	43.63	RMS	37.7	-95.2	-44.72	-58.59	-40	-18.59	H
10.680805	43.62	RMS	37.7	-95.2	-44.72	-58.60	-40	-18.60	V
14.240541	42.75	RMS	39.1	-95.2	-42.70	-56.05	-40	-16.05	H
14.240541	42.9	RMS	39.1	-95.2	-42.70	-55.90	-40	-15.90	V
Mid Channel, 3620MHz									
7.230736	43.55	RMS	35.8	-95.2	-45.7	-61.55	-40	-21.55	H
7.230736	43.57	RMS	35.8	-95.2	-45.7	-61.53	-40	-21.53	V
10.845072	43.06	RMS	37.7	-95.2	-44.7	-59.14	-40	-19.14	H
10.845072	42.97	RMS	37.7	-95.2	-44.7	-59.23	-40	-19.23	V
14.460341	43.15	RMS	39.2	-95.2	-43	-55.85	-40	-15.85	H
14.460341	43.12	RMS	39.2	-95.2	-43	-55.88	-40	-15.88	V
High Channel, 3680MHz									
7.320336	43.58	RMS	35.8	-95.2	-45.80	-61.62	-40	-21.62	H
7.320336	43.57	RMS	35.8	-95.2	-45.80	-61.63	-40	-21.63	V
10.979938	43.38	RMS	37.8	-95.2	-44.50	-58.52	-40	-18.52	H
10.979938	43.32	RMS	37.8	-95.2	-44.50	-58.58	-40	-18.58	V
14.640941	42.78	RMS	39.4	-95.2	-43.00	-56.02	-40	-16.02	H
14.640941	42.74	RMS	39.4	-95.2	-43.00	-56.06	-40	-16.06	V

QPSK 5G NR n48 (40MHZ BANDWIDTH, ANT 4)

Date:	2025-06-24
Test Engineer:	45258
Configuration:	EUT Only
Mode:	FR1 N48 FCC 40MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.147202	51.43	RMS	35.70	-95.2	-47.20	-55.27	-40	-15.27	H
7.146269	52.80	RMS	35.70	-95.2	-47.20	-53.90	-40	-13.90	V
10.714871	51.38	RMS	37.70	-95.2	-46.80	-52.92	-40	-12.92	H
10.713938	50.76	RMS	37.70	-95.2	-46.80	-53.54	-40	-13.54	V
14.280674	51.69	RMS	39.20	-95.2	-45.87	-50.18	-40	-10.18	H
14.279741	50.09	RMS	39.20	-95.2	-45.83	-51.74	-40	-11.74	V
Mid Channel, 3620MHz									
7.252669	50.63	RMS	35.60	-95.2	-47.9	-56.87	-40	-16.87	H
7.251269	50.47	RMS	35.60	-95.2	-47.9	-57.03	-40	-17.03	V
10.876338	49.79	RMS	37.80	-95.2	-46.4	-54.01	-40	-14.01	H
10.874005	49.98	RMS	37.80	-95.2	-46.4	-53.82	-40	-13.82	V
14.497674	51.34	RMS	39.40	-95.2	-45.73	-50.19	-40	-10.19	H
14.498608	50.09	RMS	39.40	-95.2	-45.8	-51.51	-40	-11.51	V
High Channel, 3680MHz									
7.362336	51.20	RMS	35.60	-95.2	-47.80	-56.20	-40	-16.20	H
7.361402	50.58	RMS	35.60	-95.2	-47.80	-56.82	-40	-16.82	V
11.040138	50.23	RMS	37.80	-95.2	-46.00	-53.17	-40	-13.17	H
11.041072	49.80	RMS	37.80	-95.2	-46.00	-53.60	-40	-13.60	V
14.721674	50.66	RMS	39.60	-95.2	-45.70	-50.64	-40	-10.64	H
14.720741	49.41	RMS	39.60	-95.2	-45.73	-51.92	-40	-11.92	V

QPSK 5G NR n48 (40MHZ BANDWIDTH, ANT 7)

Date:	2025-06-24
Test Engineer:	32703
Configuration:	EUT Only
Mode:	FR1 N48 40MHz QPSK
Chamber #:	03-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.101002	43.26	RMS	35.9	-95.2	-45.90	-61.94	-40	-21.94	H
7.101002	43.28	RMS	35.9	-95.2	-45.90	-61.92	-40	-21.92	V
10.650471	43.69	RMS	37.7	-95.2	-44.75	-58.56	-40	-18.56	H
10.650471	43.67	RMS	37.7	-95.2	-44.75	-58.58	-40	-18.58	V
14.200407	42.75	RMS	39.1	-95.2	-43.10	-56.45	-40	-16.45	H
14.200407	42.73	RMS	39.1	-95.2	-43.10	-56.47	-40	-16.47	V
Mid Channel, 3620MHz									
7.230269	43.56	RMS	35.8	-95.2	-45.7	-61.54	-40	-21.54	H
7.230269	43.57	RMS	35.8	-95.2	-45.7	-61.53	-40	-21.53	V
10.845538	43.08	RMS	37.7	-95.2	-44.7	-59.12	-40	-19.12	H
10.845538	43.12	RMS	37.7	-95.2	-44.7	-59.08	-40	-19.08	V
14.460807	43.10	RMS	39.2	-95.2	-43.00	-55.90	-40	-15.90	H
14.460807	43.09	RMS	39.2	-95.2	-43.00	-55.91	-40	-15.91	V
High Channel, 3680MHz									
7.340402	43.38	RMS	35.8	-95.2	-45.8	-61.82	-40	-21.82	H
7.340402	43.38	RMS	35.8	-95.2	-45.8	-61.82	-40	-21.82	V
11.010738	43.37	RMS	37.9	-95.2	-44.5	-58.43	-40	-18.43	H
11.010738	43.29	RMS	37.9	-95.2	-44.5	-58.51	-40	-18.51	V
14.680141	42.59	RMS	39.4	-95.2	-42.99	-56.2	-40	-16.20	H
14.680141	42.5	RMS	39.4	-95.2	-42.99	-56.29	-40	-16.29	V

10.1.3. LTE ULCA BAND 48C

QPSK LTE ULCA BAND 48C (20MHz + 20MHz BANDWIDTH, ANT 9)

Date:	2025-03-12
Test Engineer:	25019
Configuration:	EUT Only
Mode:	ULCA B48 20+20 MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz									
7.136002	44.16	RMS	35.7	-95.2	-45.21	-60.55	-40	-20.55	H
7.136002	44.17	RMS	35.7	-95.2	-45.21	-60.54	-40	-20.54	V
10.704138	43.49	RMS	37.7	-95.2	-43.83	-57.84	-40	-17.84	H
10.704138	43.51	RMS	37.7	-95.2	-43.83	-57.82	-40	-17.82	V
14.272274	44.35	RMS	39.1	-95.2	-43.71	-55.46	-40	-15.46	H
14.272274	44.39	RMS	39.1	-95.2	-43.71	-55.42	-40	-15.42	V
Mid Channel, 3615.1MHz + 3634.9MHz									
7.246602	44.46	RMS	35.7	-95.2	-45.74	-60.78	-40	-20.78	H
7.246602	44.47	RMS	35.7	-95.2	-45.74	-60.77	-40	-20.77	V
10.869338	43.11	RMS	37.7	-95.2	-43.51	-57.9	-40	-17.90	H
10.869338	43.12	RMS	37.7	-95.2	-43.51	-57.89	-40	-17.89	V
14.429074	44.50	RMS	39.3	-95.2	-43.27	-54.67	-40	-14.67	H
14.429074	44.52	RMS	39.3	-95.2	-43.27	-54.65	-40	-14.65	V
High Channel, 3670.2MHz + 3690MHz									
7.356269	44.67	RMS	35.7	-95.2	-46.06	-60.89	-40	-20.89	H
7.356269	44.65	RMS	35.7	-95.2	-46.06	-60.91	-40	-20.91	V
11.034072	42.93	RMS	37.8	-95.2	-42.97	-57.44	-40	-17.44	H
11.035819	42.93	RMS	37.8	-95.2	-42.93	-57.40	-40	-17.40	V
14.712808	44.03	RMS	39.5	-95.2	-43.05	-54.72	-40	-14.72	H
14.712808	44.07	RMS	39.5	-95.2	-43.05	-54.68	-40	-14.68	V

QPSK LTE ULCA BAND 48C (20MHz + 20MHz BANDWIDTH, ANT 8)

Date:	2025-03-14
Test Engineer:	25019
Configuration:	EUT Only
Mode:	ULCA B48C 20+20 MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz									
7.136469	44.28	RMS	35.7	-95.2	-45.19	-60.41	-40	-20.41	H
7.136002	44.28	RMS	35.7	-95.2	-45.21	-60.43	-40	-20.43	V
10.703671	43.56	RMS	37.7	-95.2	-43.83	-57.77	-40	-17.77	H
10.704605	43.56	RMS	37.7	-95.2	-43.86	-57.8	-40	-17.80	V
14.272274	44.53	RMS	39.1	-95.2	-43.71	-55.28	-40	-15.28	H
14.272741	44.57	RMS	39.1	-95.2	-43.73	-55.26	-40	-15.26	V
Mid Channel, 3615.1MHz + 3634.9MHz									
7.246602	44.57	RMS	35.7	-95.2	-45.74	-60.67	-40	-20.67	H
7.247069	44.58	RMS	35.7	-95.2	-45.73	-60.65	-40	-20.65	V
10.869338	43.19	RMS	37.7	-95.2	-43.51	-57.82	-40	-17.82	H
10.869805	43.24	RMS	37.7	-95.2	-43.5	-57.76	-40	-17.76	V
14.492541	44.51	RMS	39.3	-95.2	-42.89	-54.28	-40	-14.28	H
14.493941	44.52	RMS	39.3	-95.2	-42.92	-54.30	-40	-14.30	V
High Channel, 3670.2MHz + 3690MHz									
7.356736	44.75	RMS	35.7	-95.2	-46.01	-60.76	-40	-20.76	H
7.356736	44.75	RMS	35.7	-95.2	-46.01	-60.76	-40	-20.76	V
11.034072	43.01	RMS	37.8	-95.2	-42.97	-57.36	-40	-17.36	H
11.035938	43.00	RMS	37.8	-95.2	-42.93	-57.33	-40	-17.33	V
14.712808	44.20	RMS	39.5	-95.2	-43.05	-54.55	-40	-14.55	H
14.712808	44.22	RMS	39.5	-95.2	-43.05	-54.53	-40	-14.53	V

QPSK LTE ULCA BAND 48C (20MHz + 20MHz BANDWIDTH, ANT 4)

Date:	2025-03-14
Test Engineer:	31300
Configuration:	EUT Only
Mode:	ULCA B48C 20+20 MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz									
7.136002	44.26	RMS	35.7	-95.2	-45.21	-60.45	-40	-20.45	H
7.136236	44.23	RMS	35.7	-95.2	-45.2	-60.47	-40	-20.47	V
10.704138	43.55	RMS	37.7	-95.2	-43.83	-57.78	-40	-17.78	H
10.704138	43.55	RMS	37.7	-95.2	-43.83	-57.78	-40	-17.78	V
14.271807	44.46	RMS	39.1	-95.2	-43.67	-55.31	-40	-15.31	H
14.271807	44.45	RMS	39.1	-95.2	-43.67	-55.32	-40	-15.32	V
Mid Channel, 3615.1MHz + 3634.9MHz									
7.246602	44.52	RMS	35.7	-95.2	-45.74	-60.72	-40	-20.72	H
7.246602	44.54	RMS	35.7	-95.2	-45.74	-60.70	-40	-20.70	V
10.870272	43.24	RMS	37.7	-95.2	-43.51	-57.77	-40	-17.77	H
10.870738	43.18	RMS	37.7	-95.2	-43.53	-57.85	-40	-17.85	V
14.492541	44.43	RMS	39.3	-95.2	-42.89	-54.36	-40	-14.36	H
14.492541	44.44	RMS	39.3	-95.2	-42.89	-54.35	-40	-14.35	V
High Channel, 3670.2MHz + 3690MHz									
7.355802	44.75	RMS	35.7	-95.2	-46.06	-60.81	-40	-20.81	H
7.356269	44.74	RMS	35.7	-95.2	-46.06	-60.82	-40	-20.82	V
11.035005	42.99	RMS	37.8	-95.2	-42.95	-57.36	-40	-17.36	H
11.033605	43.02	RMS	37.8	-95.2	-42.98	-57.36	-40	-17.36	V
14.712341	44.13	RMS	39.5	-95.2	-43.04	-54.61	-40	-14.61	H
14.712341	44.14	RMS	39.5	-95.2	-43.04	-54.60	-40	-14.60	V

QPSK LTE ULCA BAND 48C (20MHz + 20MHz BANDWIDTH, ANT 7)

Date:	2025-03-18
Test Engineer:	31300
Configuration:	EUT Only
Mode:	ULCA B48C 20+20 MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz									
7.135536	44.32	RMS	35.7	-95.2	-45.21	-60.39	-40	-20.39	H
7.135536	44.31	RMS	35.7	-95.2	-45.21	-60.40	-40	-20.40	V
10.704605	43.45	RMS	37.7	-95.2	-43.86	-57.91	-40	-17.91	H
10.704605	43.45	RMS	37.7	-95.2	-43.86	-57.91	-40	-17.91	V
14.272274	44.29	RMS	39.1	-95.2	-43.71	-55.52	-40	-15.52	H
14.272274	44.3	RMS	39.1	-95.2	-43.71	-55.51	-40	-15.51	V
Mid Channel, 3615.1MHz + 3634.9MHz									
7.245202	44.56	RMS	35.7	-95.2	-45.71	-60.65	-40	-20.65	H
7.245669	44.57	RMS	35.7	-95.2	-45.73	-60.66	-40	-20.66	V
10.868872	43.09	RMS	37.7	-95.2	-43.52	-57.93	-40	-17.93	H
10.868872	43.08	RMS	37.7	-95.2	-43.52	-57.94	-40	-17.94	V
14.492541	44.27	RMS	39.3	-95.2	-42.89	-54.52	-40	-14.52	H
14.492074	44.27	RMS	39.3	-95.2	-42.90	-54.53	-40	-14.53	V
High Channel, 3670.2MHz + 3690MHz									
7.356736	44.72	RMS	35.7	-95.2	-46.01	-60.79	-40	-20.79	H
7.356269	44.77	RMS	35.7	-95.2	-46.06	-60.79	-40	-20.79	V
11.033138	42.92	RMS	37.8	-95.2	-43.00	-57.48	-40	-17.48	H
11.034538	42.89	RMS	37.8	-95.2	-42.96	-57.47	-40	-17.47	V
14.712341	43.96	RMS	39.5	-95.2	-43.04	-54.78	-40	-14.78	H
14.712341	43.96	RMS	39.5	-95.2	-43.04	-54.78	-40	-14.78	V

10.1.4. 5G NR n48 MIMO

QPSK 5G NR n48 (40MHz BANDWIDTH, ANT 9+8)

Date:	2025-03-26
Test Engineer:	25019
Configuration:	EUT Only
Mode:	FR1 MIMO N48 FCC 40MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.100069	44.07	RMS	35.7	-95.2	-45.34	-60.77	-40	-20.77	H
7.100069	44.07	RMS	35.7	-95.2	-45.34	-60.77	-40	-20.77	V
10.650471	43.79	RMS	37.6	-95.2	-43.8	-57.61	-40	-17.61	H
10.650471	43.82	RMS	37.6	-95.2	-43.8	-57.58	-40	-17.58	V
14.200407	44.12	RMS	39	-95.2	-42.89	-54.97	-40	-14.97	H
14.200407	44.14	RMS	39	-95.2	-42.89	-54.95	-40	-14.95	V
Mid Channel, 3620MHz									
7.199002	44.39	RMS	35.7	-95.2	-45.59	-60.7	-40	-20.70	H
7.199002	44.38	RMS	35.7	-95.2	-45.59	-60.71	-40	-20.71	V
10.799805	43.47	RMS	37.7	-95.2	-43.73	-57.76	-40	-17.76	H
10.799805	43.47	RMS	37.7	-95.2	-43.73	-57.76	-40	-17.76	V
14.399207	44.38	RMS	39.3	-95.2	-42.86	-54.38	-40	-14.38	H
14.399207	44.39	RMS	39.3	-95.2	-42.86	-54.37	-40	-14.37	V
High Channel, 3680MHz									
7.319869	44.76	RMS	35.7	-95.2	-45.90	-60.64	-40	-20.64	H
7.319869	44.79	RMS	35.7	-95.2	-45.90	-60.61	-40	-20.61	V
10.979938	42.84	RMS	37.8	-95.2	-42.95	-57.51	-40	-17.51	H
10.979938	42.82	RMS	37.8	-95.2	-42.95	-57.53	-40	-17.53	V
14.639074	44.41	RMS	39.4	-95.2	-42.96	-54.35	-40	-14.35	H
14.639074	44.4	RMS	39.4	-95.2	-42.96	-54.36	-40	-14.36	V

QPSK 5G NR n48 (40MHz BANDWIDTH, ANT 9+4)

Date:	2025-04-22
Test Engineer:	23522
Configuration:	EUT Only
Mode:	FR1 MIMO n48 FCC 40MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.140669	45.70	Pk	35.7	-95.2	-46.62	-60.42	-40	-20.42	H
7.140669	45.20	Pk	35.7	-95.2	-46.62	-60.92	-40	-20.92	V
10.710671	45.30	Pk	37.7	-95.2	-45.30	-57.50	-40	-17.50	H
10.710671	45.45	Pk	37.7	-95.2	-45.30	-57.35	-40	-17.35	V
14.280207	46.87	Pk	39.1	-95.2	-45.67	-54.90	-40	-14.90	H
14.280207	46.71	Pk	39.1	-95.2	-45.67	-55.06	-40	-15.06	V
Mid Channel, 36201MHz									
7.250336	46.57	Pk	35.7	-95.2	-46.98	-59.91	-40	-19.91	H
7.250336	46.64	Pk	35.7	-95.2	-46.98	-59.84	-40	-19.84	V
10.875405	45.61	Pk	37.7	-95.2	-44.98	-56.87	-40	-16.87	H
10.875405	46.07	Pk	37.7	-95.2	-44.98	-56.41	-40	-16.41	V
14.500941	46.63	Pk	39.4	-95.2	-44.79	-53.96	-40	-13.96	H
14.500941	46.90	Pk	39.4	-95.2	-44.79	-53.69	-40	-13.69	V
High Channel, 3680 MHz									
7.360002	46.40	Pk	35.7	-95.2	-47.37	-60.47	-40	-20.47	H
7.360002	46.24	Pk	35.7	-95.2	-47.37	-60.63	-40	-20.63	V
11.040138	44.82	Pk	37.8	-95.2	-44.71	-57.29	-40	-17.29	H
11.040138	45.47	Pk	37.8	-95.2	-44.71	-56.64	-40	-16.64	V
14.720274	46.20	Pk	39.5	-95.2	-44.91	-54.41	-40	-14.41	H
14.720274	46.02	Pk	39.5	-95.2	-44.91	-54.59	-40	-14.59	V

QPSK 5G NR n48 (40MHz BANDWIDTH, ANT 9+7)

Date:	2025-04-22
Test Engineer:	23522
Configuration:	EUT Only
Mode:	FR1 MIMO n48 FCC 40MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.140202	44.22	RMS	35.7	-95.2	-45.19	-60.47	-40	-20.47	H
7.140202	44.23	RMS	35.7	-95.2	-45.19	-60.46	-40	-20.46	V
10.710671	43.55	RMS	37.7	-95.2	-43.9	-57.85	-40	-17.85	H
10.710671	43.56	RMS	37.7	-95.2	-43.9	-57.84	-40	-17.84	V
14.280674	44.41	RMS	39.1	-95.2	-43.67	-55.36	-40	-15.36	H
14.280674	44.42	RMS	39.1	-95.2	-43.67	-55.35	-40	-15.35	V
Mid Channel, 3620MHz									
7.250336	44.5	RMS	35.7	-95.2	-45.75	-60.75	-40	-20.75	H
7.250336	44.5	RMS	35.7	-95.2	-45.75	-60.75	-40	-20.75	V
10.874938	43.24	RMS	37.7	-95.2	-43.48	-57.74	-40	-17.74	H
10.874938	43.25	RMS	37.7	-95.2	-43.48	-57.73	-40	-17.73	V
14.500008	44.52	RMS	39.4	-95.2	-42.88	-54.16	-40	-14.16	H
14.500008	44.52	RMS	39.4	-95.2	-42.88	-54.16	-40	-14.16	V
High Channel, 3680 MHz									
7.380069	46.55	RMS	35.7	-95.2	-47.35	-60.30	-40	-20.30	H
7.380069	47.21	RMS	35.7	-95.2	-47.35	-59.64	-40	-19.64	V
11.070472	44.58	RMS	37.8	-95.2	-44.48	-57.30	-40	-17.30	H
11.070472	44.97	RMS	37.8	-95.2	-44.48	-56.91	-40	-16.91	V
14.760408	46.27	RMS	39.5	-95.2	-45.13	-54.56	-40	-14.56	H
14.760408	45.99	RMS	39.5	-95.2	-45.13	-54.84	-40	-14.84	V

QPSK 5G NR n48 (40MHz BANDWIDTH, ANT 4+8)

Date:	2025-04-22
Test Engineer:	23522
Configuration:	EUT Only
Mode:	FR1 MIMO n48 FCC 40MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.140202	46.04	RMS	35.7	-95.2	-46.62	-60.08	-40	-20.08	H
7.140202	46.02	RMS	35.7	-95.2	-46.62	-60.10	-40	-20.10	V
10.710671	45.75	RMS	37.7	-95.2	-45.30	-57.05	-40	-17.05	H
10.710671	46.17	RMS	37.7	-95.2	-45.30	-56.63	-40	-16.63	V
14.280207	47.16	RMS	39.1	-95.2	-45.67	-54.61	-40	-14.61	H
14.280207	46.68	RMS	39.1	-95.2	-45.67	-55.09	-40	-15.09	V
Mid Channel, 3620 MHz									
7.250336	46.21	RMS	35.7	-95.2	-46.98	-60.27	-40	-20.27	H
7.250336	46.18	RMS	35.7	-95.2	-46.98	-60.30	-40	-20.30	V
10.874938	45.84	RMS	37.7	-95.2	-44.97	-56.63	-40	-16.63	H
10.874938	45.71	RMS	37.7	-95.2	-44.97	-56.76	-40	-16.76	V
14.500008	47.30	RMS	39.4	-95.2	-44.76	-53.26	-40	-13.26	H
14.500008	46.56	RMS	39.4	-95.2	-44.76	-54.00	-40	-14.00	V
High Channel, 3680 MHz									
7.360469	46.38	RMS	35.7	-95.2	-47.37	-60.49	-40	-20.49	H
7.360469	46.57	RMS	35.7	-95.2	-47.37	-60.30	-40	-20.30	V
11.040138	45.35	RMS	37.8	-95.2	-44.71	-56.76	-40	-16.76	H
11.040138	45.15	RMS	37.8	-95.2	-44.71	-56.96	-40	-16.96	V
14.720274	46.35	RMS	39.5	-95.2	-44.91	-54.26	-40	-14.26	H
14.720274	46.62	RMS	39.5	-95.2	-44.91	-53.99	-40	-13.99	V

QPSK 5G NR n48 (40MHz BANDWIDTH, ANT 4+7)

Date:	2025-03-26
Test Engineer:	25019
Configuration:	EUT Only
Mode:	FR1 MIMO N48 FCC 40MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.100069	45.37	RMS	35.7	-95.2	-46.43	-60.56	-40	-20.56	H
7.100069	46.00	RMS	35.7	-95.2	-46.43	-59.93	-40	-19.93	V
10.650005	45.54	RMS	37.6	-95.2	-45.43	-57.49	-40	-17.49	H
10.650005	45.66	RMS	37.6	-95.2	-45.43	-57.37	-40	-17.37	V
14.200407	46.56	RMS	39.0	-95.2	-44.93	-54.57	-40	-14.57	H
14.200407	46.85	RMS	39.0	-95.2	-44.93	-54.28	-40	-14.28	V
Mid Channel, 3620MHz									
7.139269	45.02	RMS	35.7	-95.2	-46.62	-61.10	-40	-21.10	H
7.139269	45.42	RMS	35.7	-95.2	-46.62	-60.70	-40	-20.70	V
10.709738	45.31	RMS	37.7	-95.2	-45.30	-57.49	-40	-17.49	H
10.709738	45.92	RMS	37.7	-95.2	-45.30	-56.88	-40	-16.88	V
14.279741	46.54	RMS	39.1	-95.2	-45.67	-55.23	-40	-15.23	H
14.279741	46.93	RMS	39.1	-95.2	-45.67	-54.84	-40	-14.84	V
High Channel, 3680 MHz									
7.318936	46.56	RMS	35.7	-95.2	-47.15	-60.09	-40	-20.09	H
7.318936	45.95	RMS	35.7	-95.2	-47.15	-60.70	-40	-20.70	V
10.979005	44.95	RMS	37.8	-95.2	-44.40	-56.85	-40	-16.85	H
10.979005	45.21	RMS	37.8	-95.2	-44.40	-56.59	-40	-16.59	V
14.640008	46.41	RMS	39.4	-95.2	-45.31	-54.70	-40	-14.70	H
14.640008	46.85	RMS	39.4	-95.2	-45.31	-54.26	-40	-14.26	V

QPSK 5G NR n48 (40MHz BANDWIDTH, ANT 7+8)

Date:	2025-04-23
Test Engineer:	23522
Configuration:	EUT Only
Mode:	FR1 MIMO n48 FCC 40MHz QPSK
Chamber #:	04-RDE-P

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz									
7.139736	45.89	RMS	35.7	-95.2	-46.62	-60.23	-40	-20.23	H
7.139736	45.54	RMS	35.7	-95.2	-46.62	-60.58	-40	-20.58	V
10.710205	44.37	RMS	37.7	-95.2	-45.31	-58.44	-40	-18.44	H
10.710205	45.37	RMS	37.7	-95.2	-45.31	-57.44	-40	-17.44	V
14.279741	46.12	RMS	39.1	-95.2	-45.67	-55.65	-40	-15.65	H
14.279741	46.90	RMS	39.1	-95.2	-45.67	-54.87	-40	-14.87	V
Mid Channel, 3620MHz									
7.250802	46.33	RMS	35.7	-95.2	-46.97	-60.14	-40	-20.14	H
7.250802	45.29	RMS	35.7	-95.2	-46.97	-61.18	-40	-21.18	V
10.875872	45.40	RMS	37.7	-95.2	-44.99	-57.09	-40	-17.09	H
10.875872	45.27	RMS	37.7	-95.2	-44.99	-57.22	-40	-17.22	V
14.500008	46.52	RMS	39.4	-95.2	-44.76	-54.04	-40	-14.04	H
14.500008	46.44	RMS	39.4	-95.2	-44.76	-54.12	-40	-14.12	V
High Channel, 3680 MHz									
7.360936	44.48	RMS	35.7	-95.2	-46.03	-61.05	-40	-21.05	H
7.360936	44.48	RMS	35.7	-95.2	-46.03	-61.05	-40	-21.05	V
11.040138	42.92	RMS	37.8	-95.2	-42.9	-57.38	-40	-17.38	H
11.040138	42.9	RMS	37.8	-95.2	-42.9	-57.40	-40	-17.40	V
14.720274	43.86	RMS	39.5	-95.2	-43.11	-54.95	-40	-14.95	H
14.720274	43.85	RMS	39.5	-95.2	-43.11	-54.96	-40	-14.96	V

11. SETUP PHOTOS

Refer to 15496224 -EP1 for setup photos.

END OF REPORT