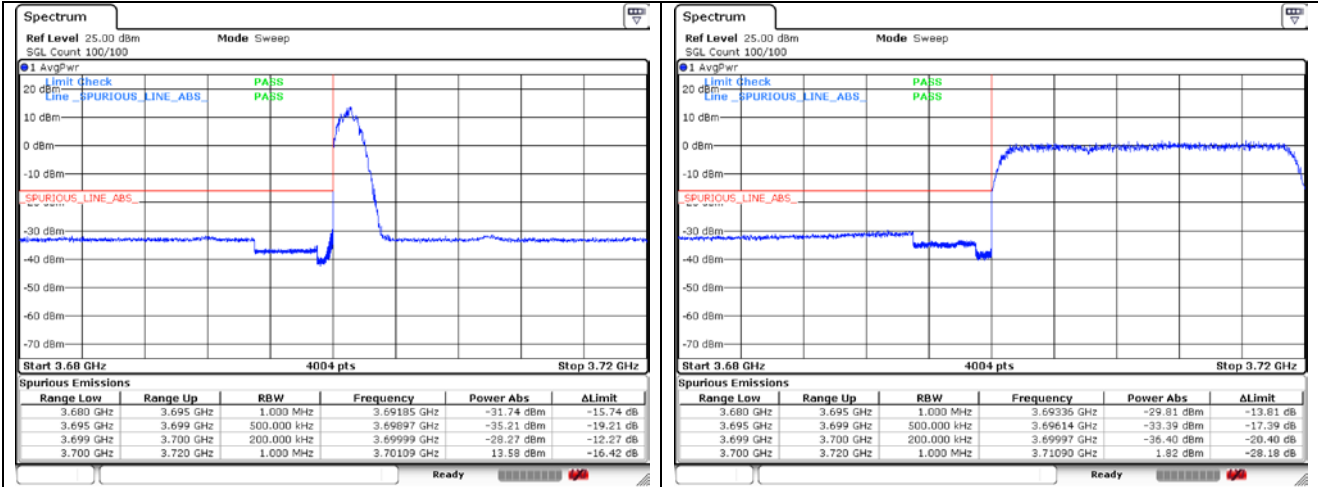
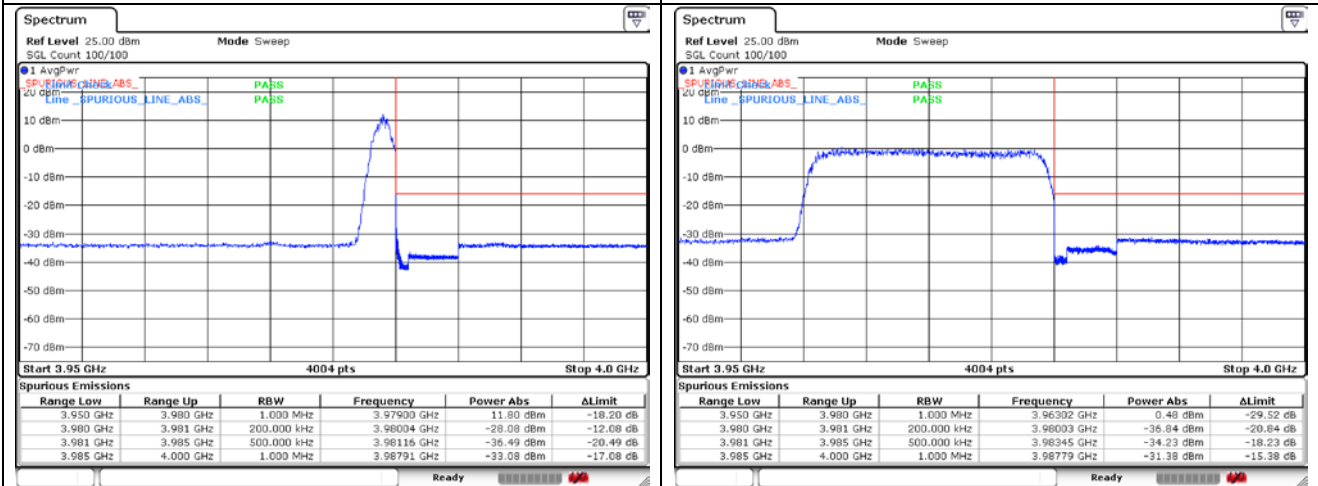


NR band 77_High Band (20 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

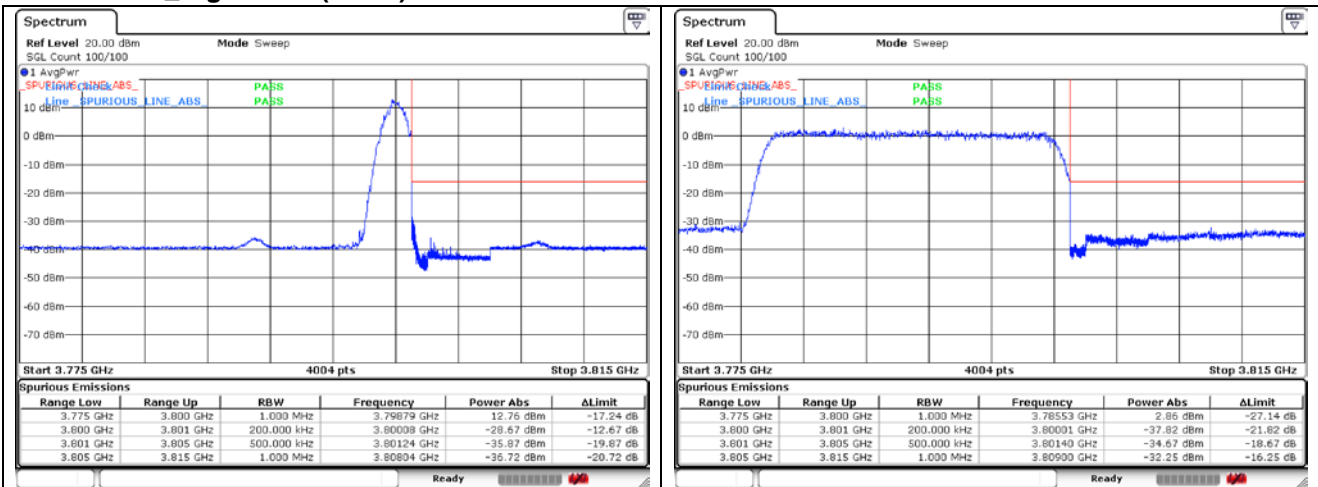
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

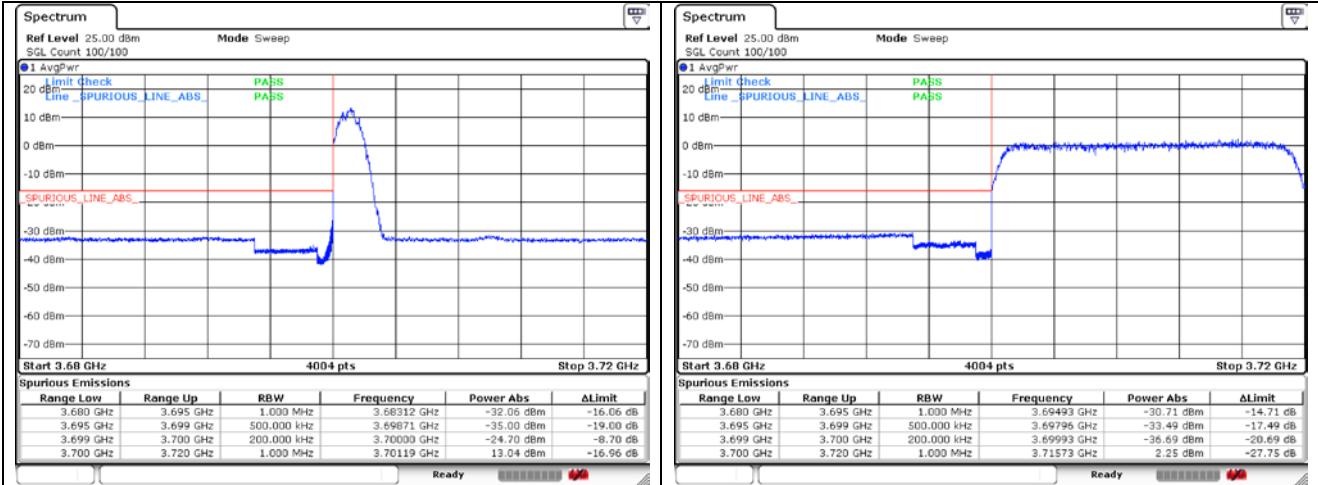
NR band 78_High Band (20 MHz)



CP-OFDM QPSK - High Channel - 1 RB

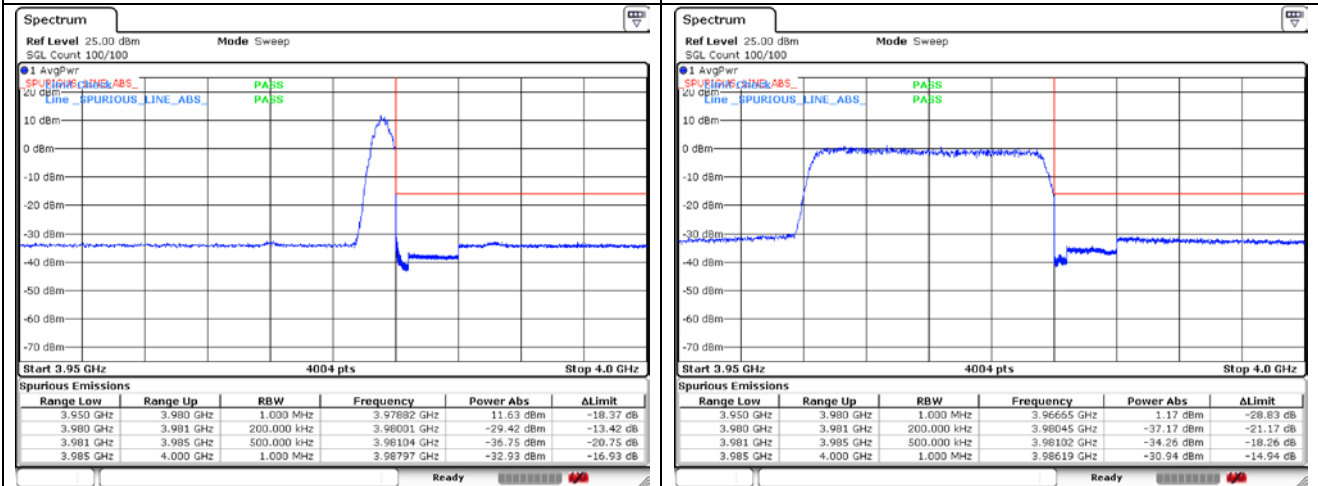
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (20 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

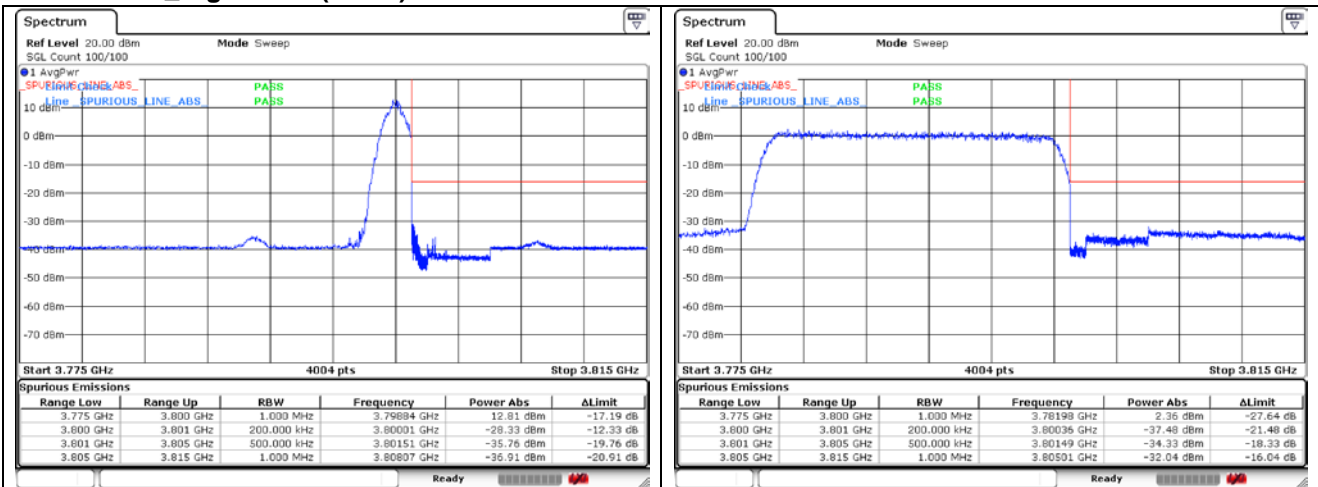
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

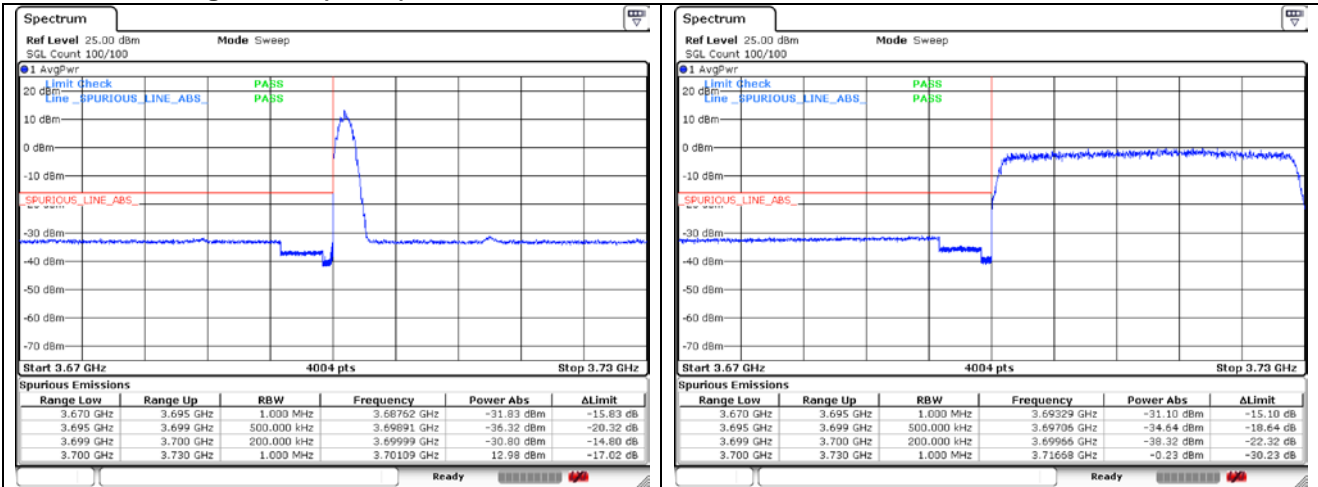
NR band 78_High Band (20 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

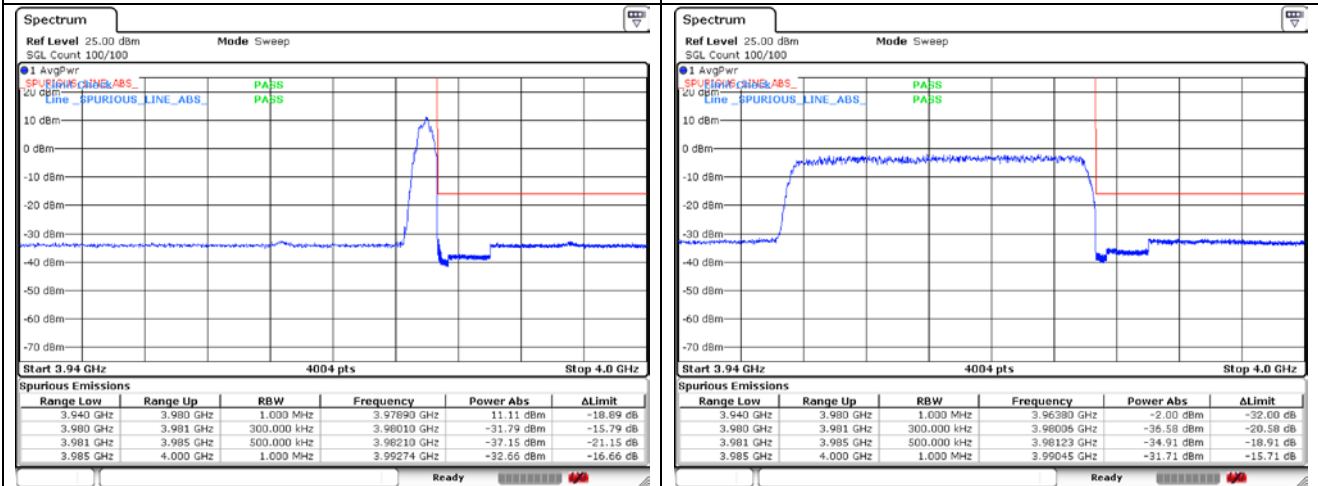
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (30 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

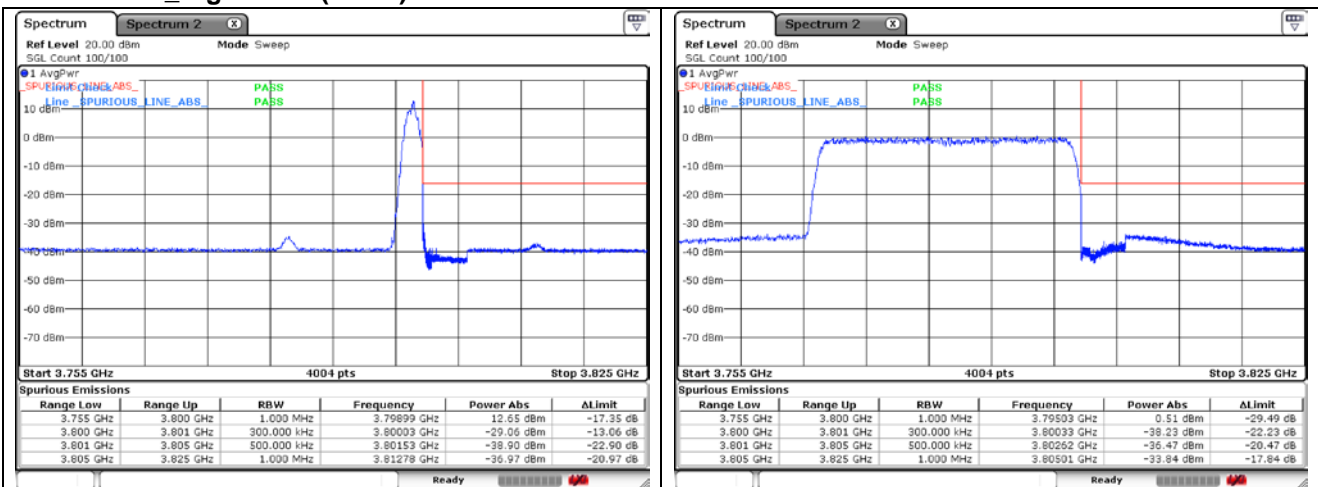
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

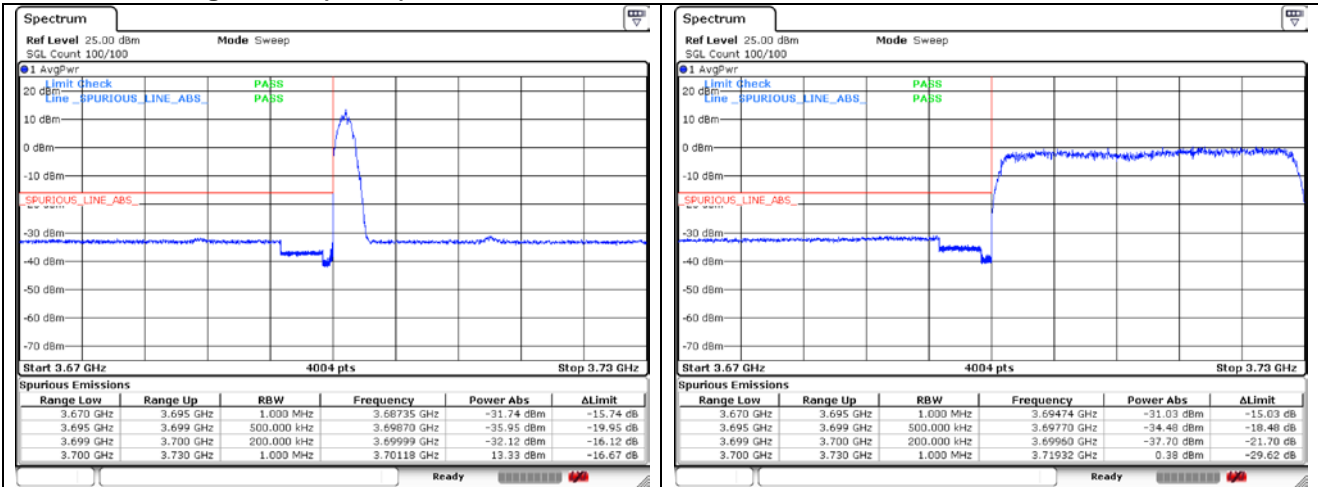
NR band 78_High Band (30 MHz)



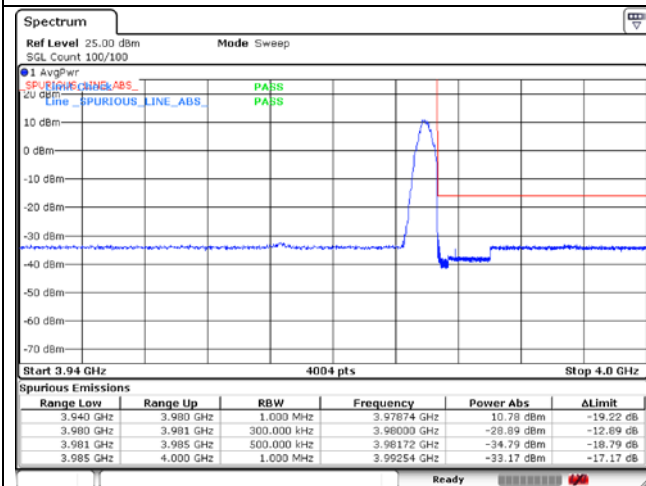
CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

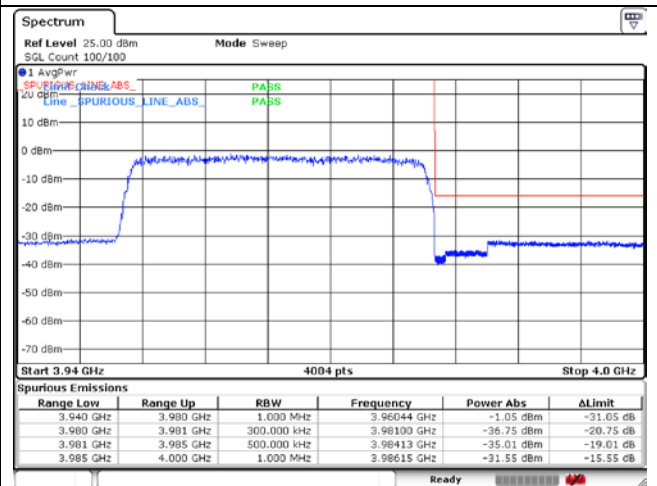
NR band 77_High Band (30 MHz)



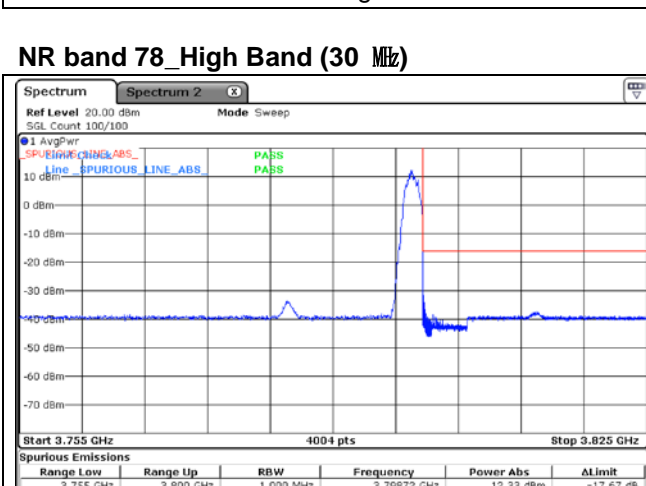
CP-OFDM 16QAM - Low Channel - 1 RB



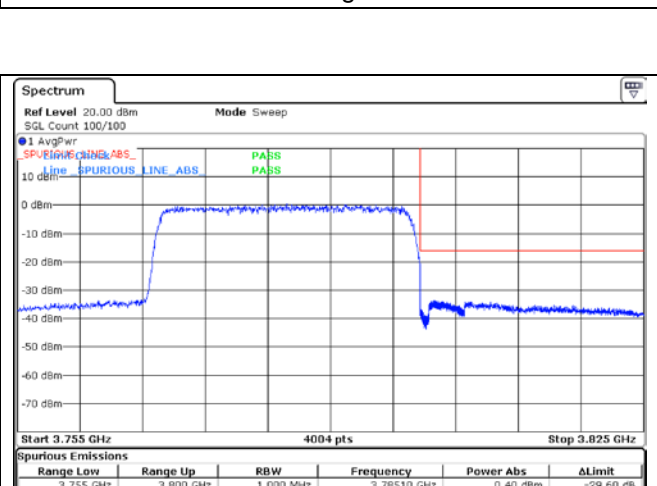
CP-OFDM 16QAM - Low Channel - Full RB



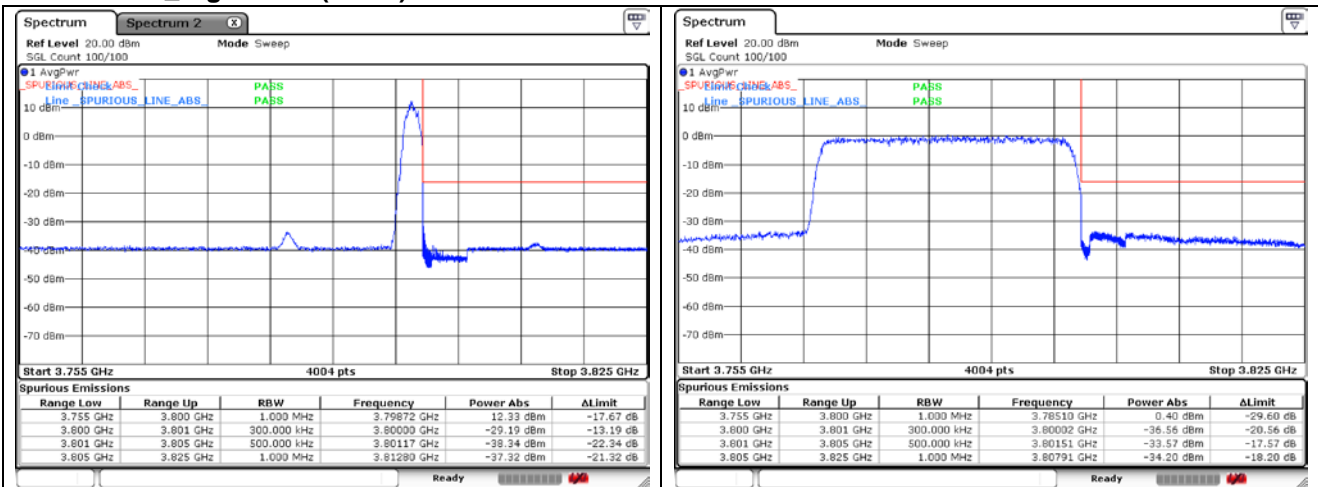
CP-OFDM 16QAM - High Channel - 1 RB



CP-OFDM 16QAM - High Channel - Full RB



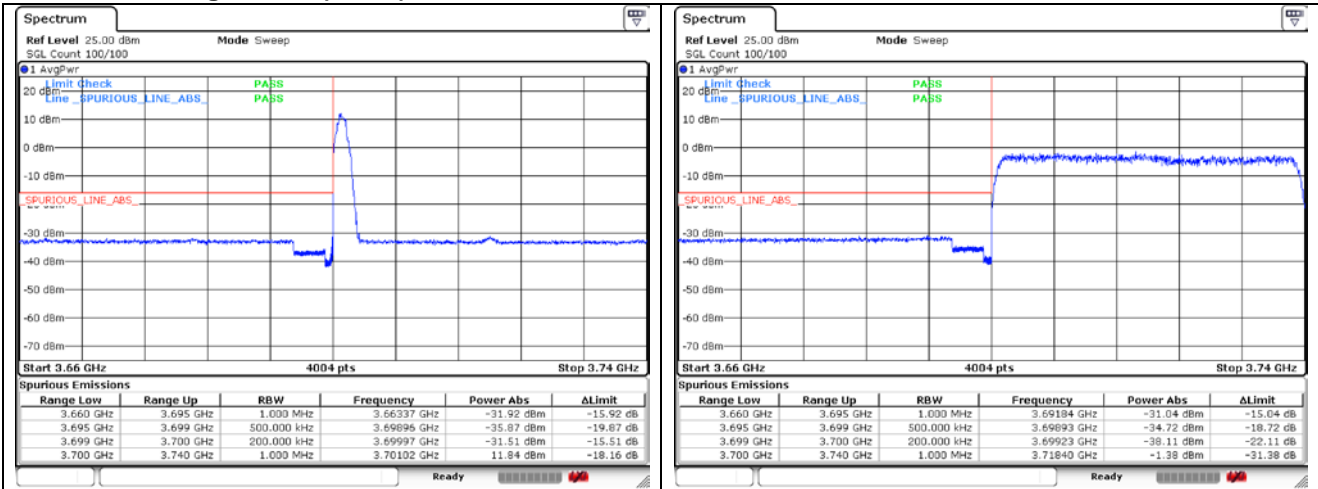
NR band 78_High Band (30 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

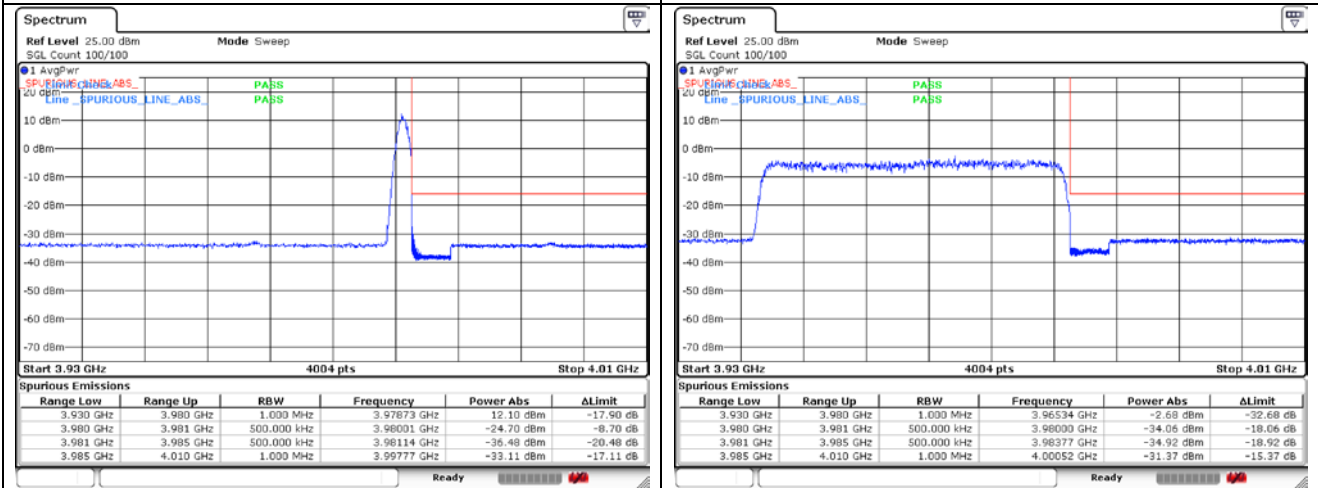
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (40 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

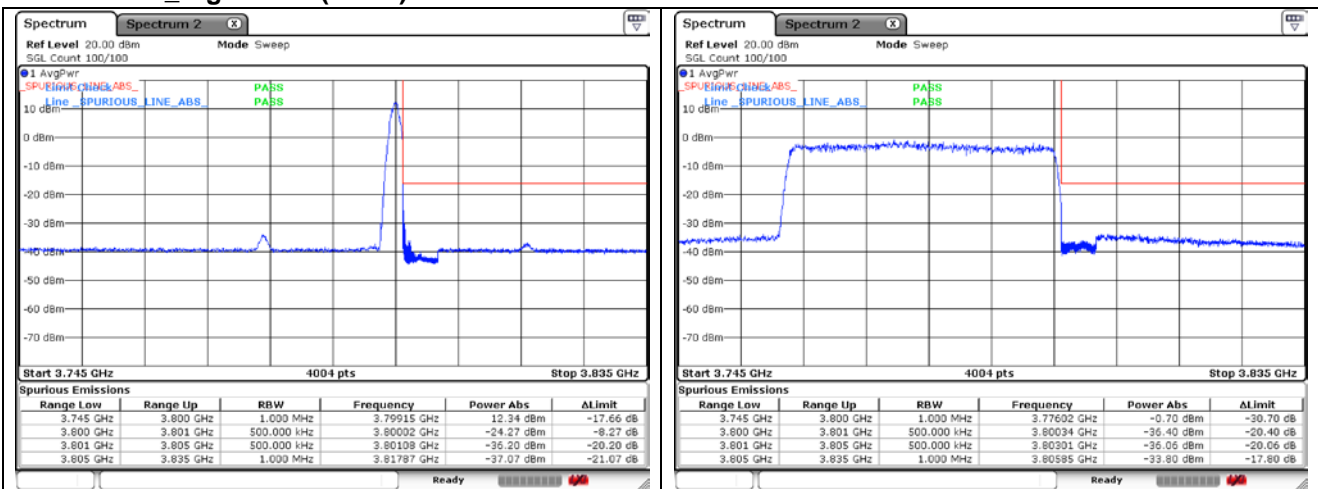
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

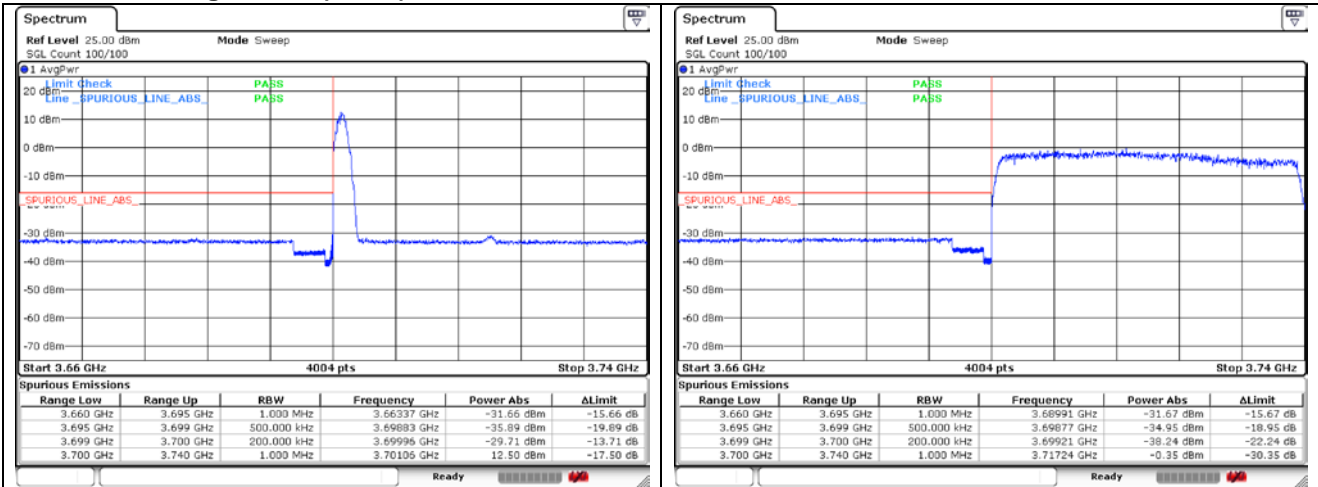
NR band 78_High Band (40 MHz)



CP-OFDM QPSK - High Channel - 1 RB

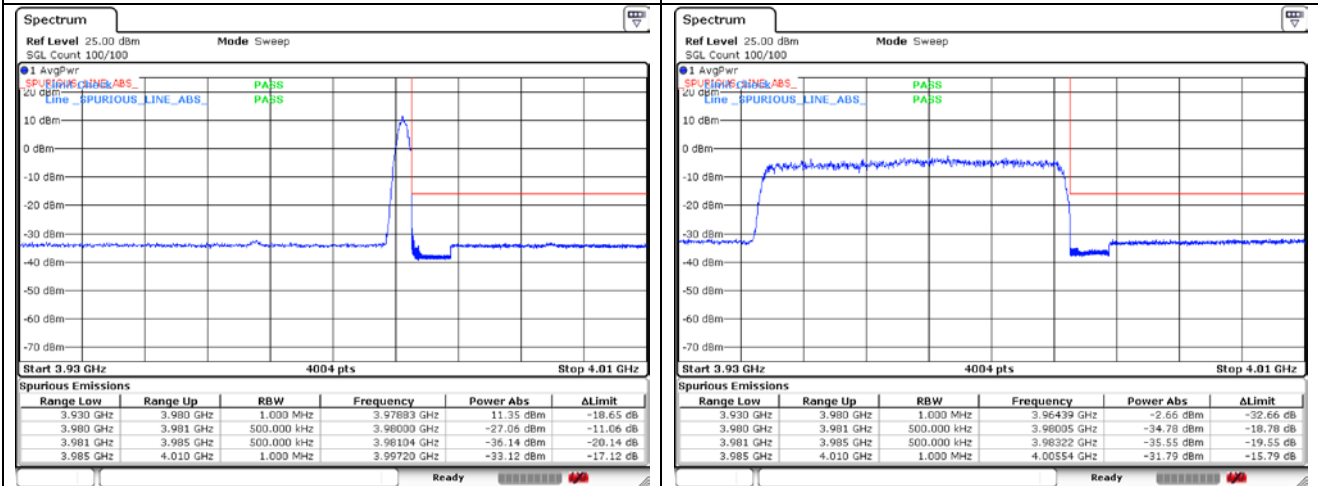
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (40 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

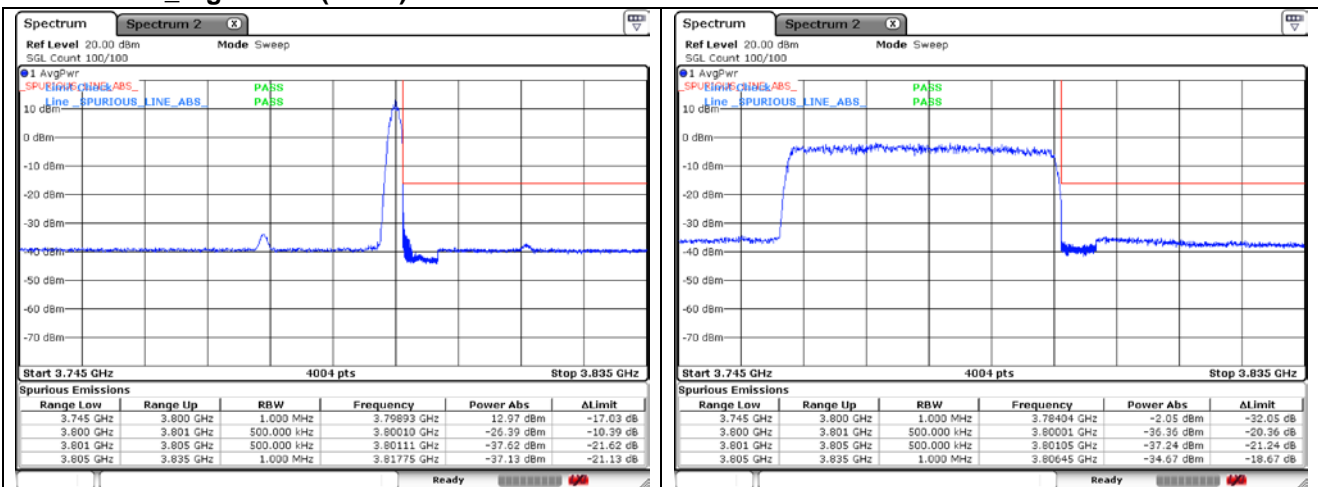
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

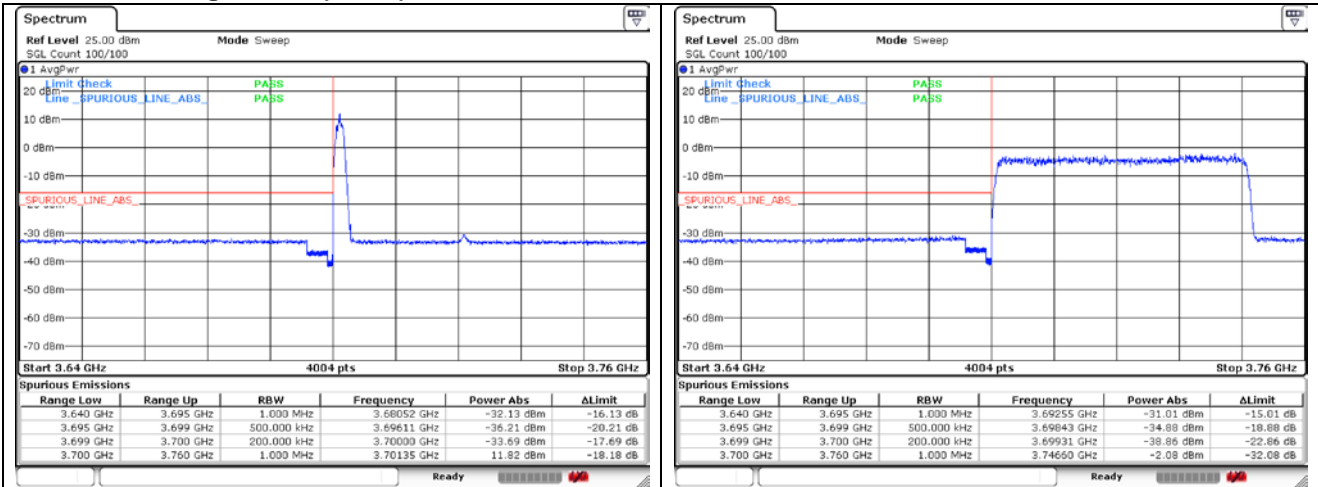
NR band 78_High Band (40 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

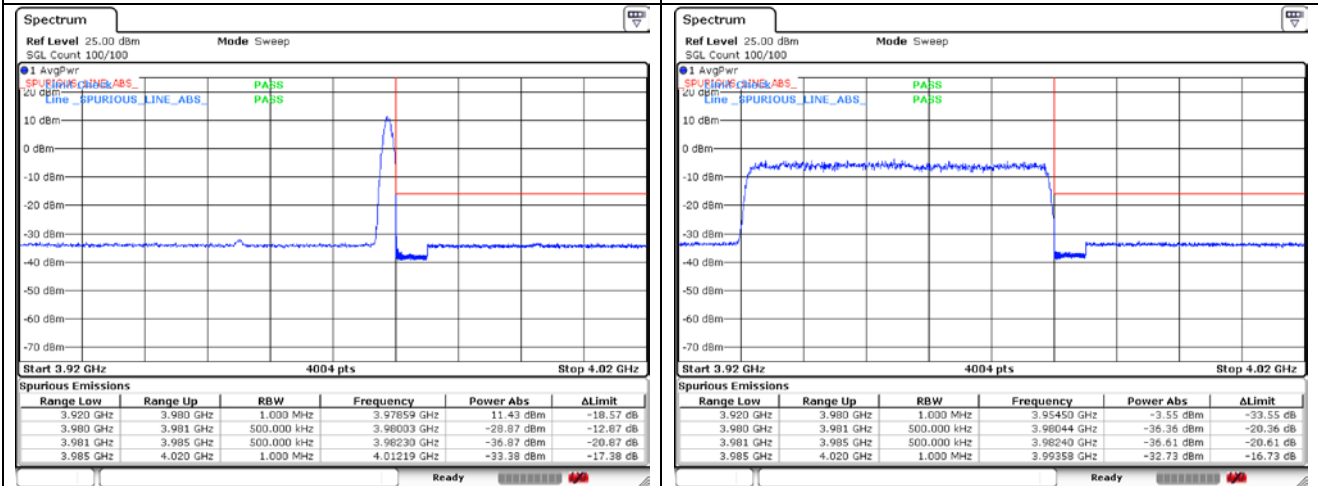
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (50 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

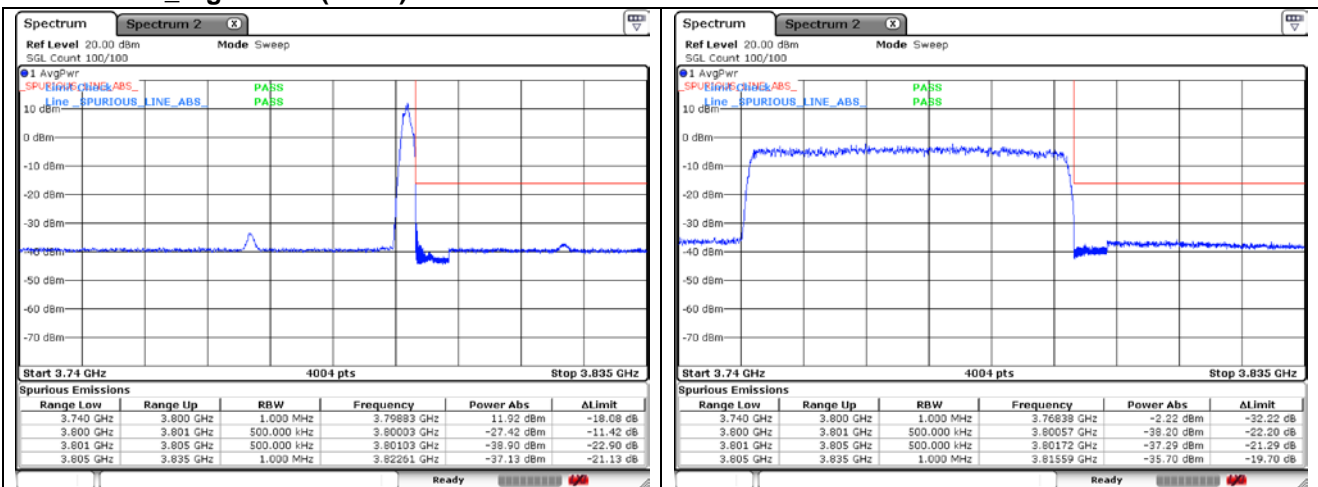
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

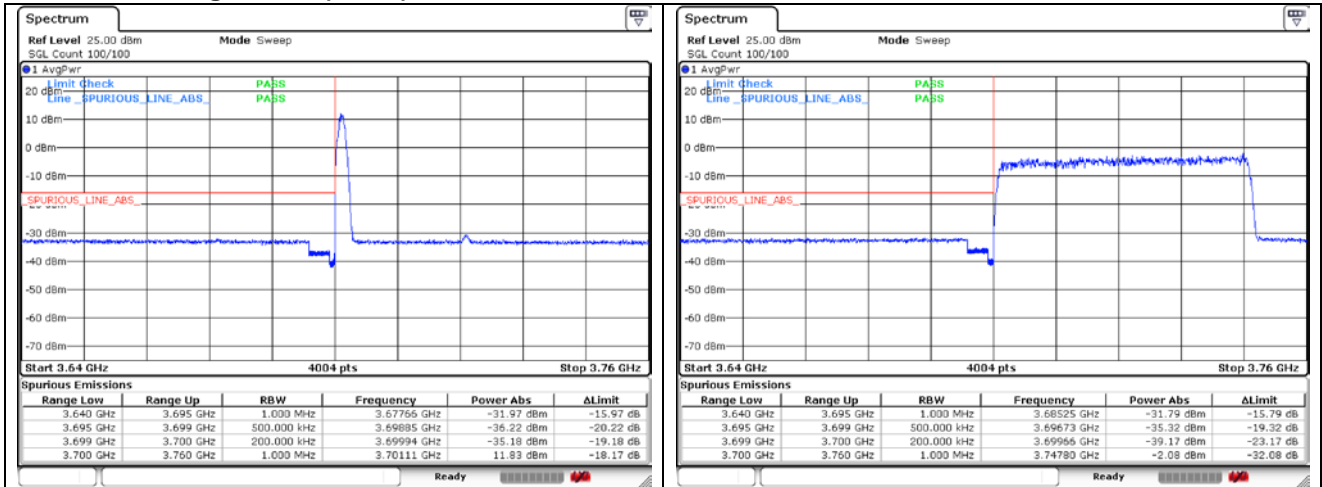
NR band 78_High Band (50 MHz)



CP-OFDM QPSK - High Channel - 1 RB

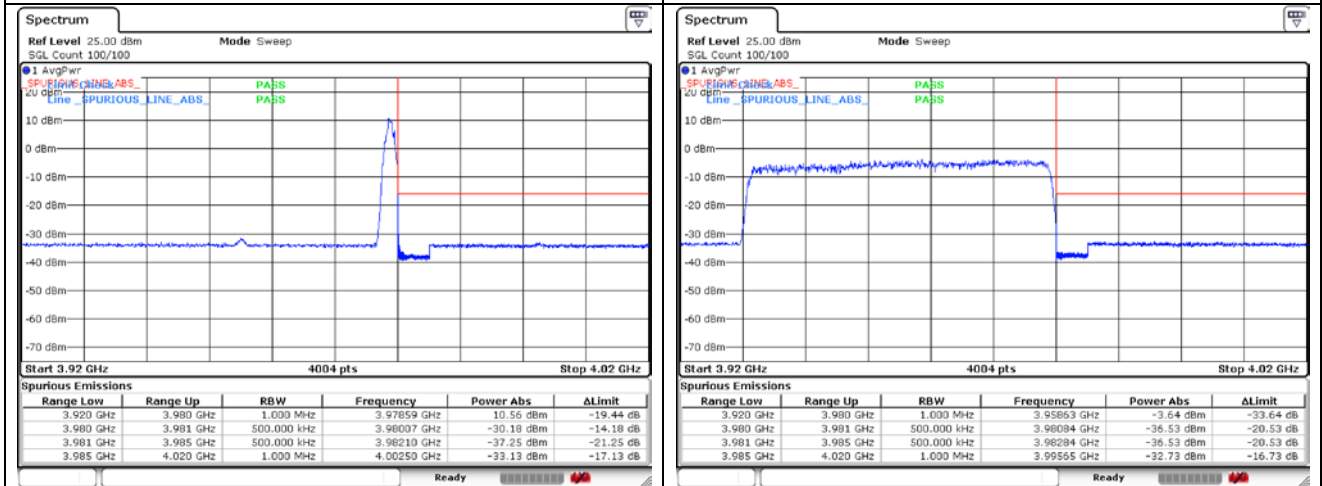
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (50 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

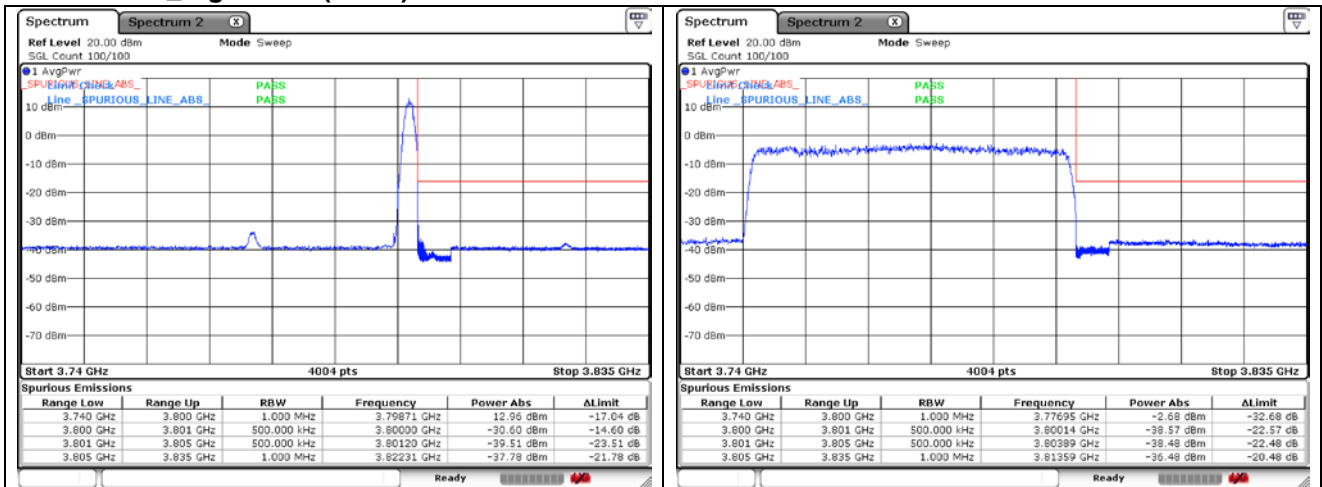
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

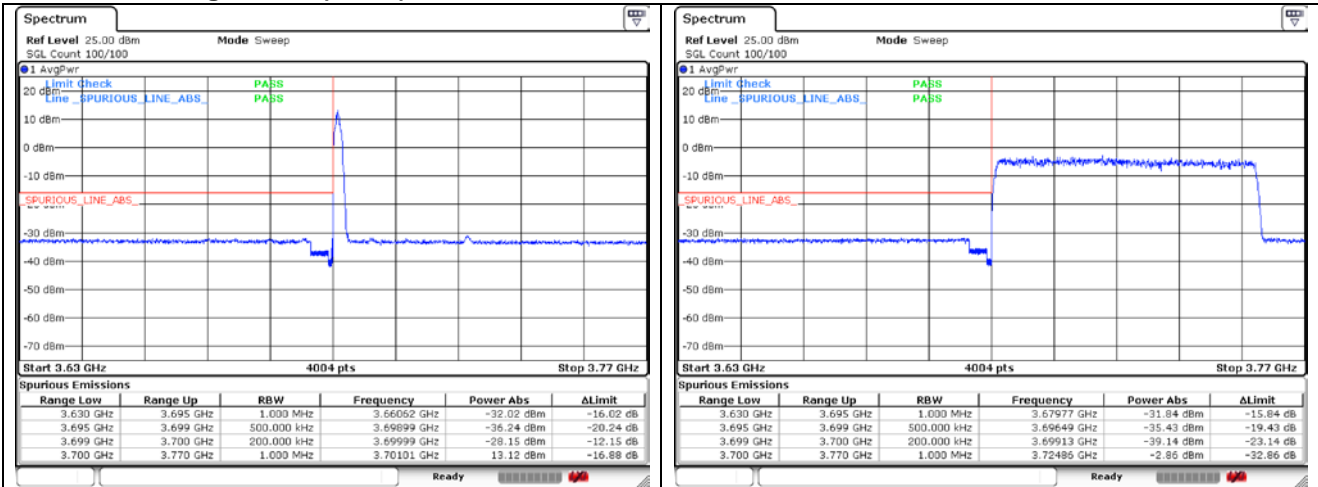
NR band 78_High Band (50 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

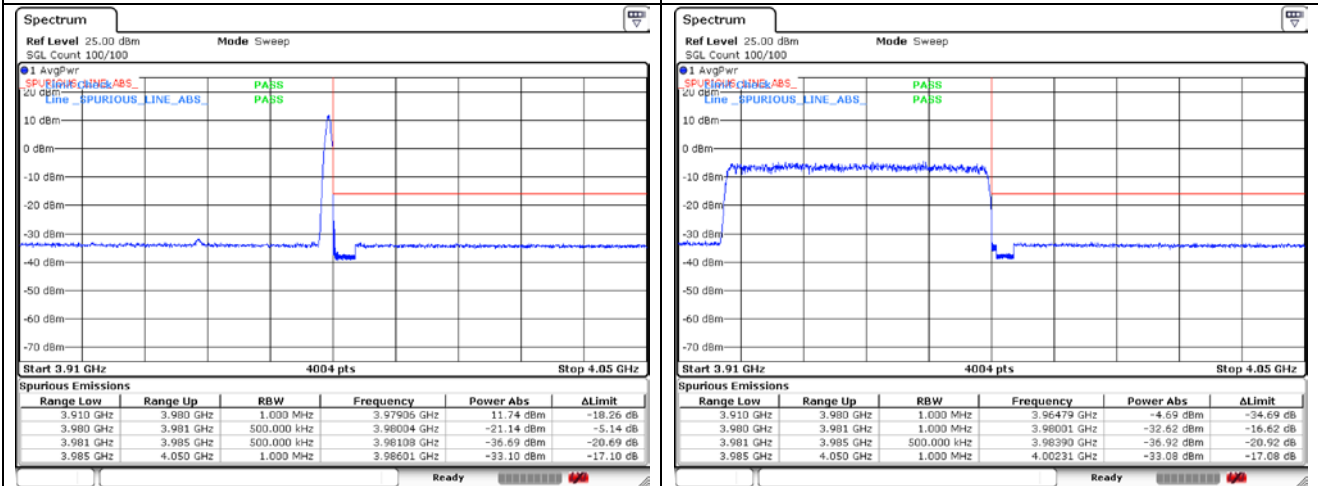
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (60 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

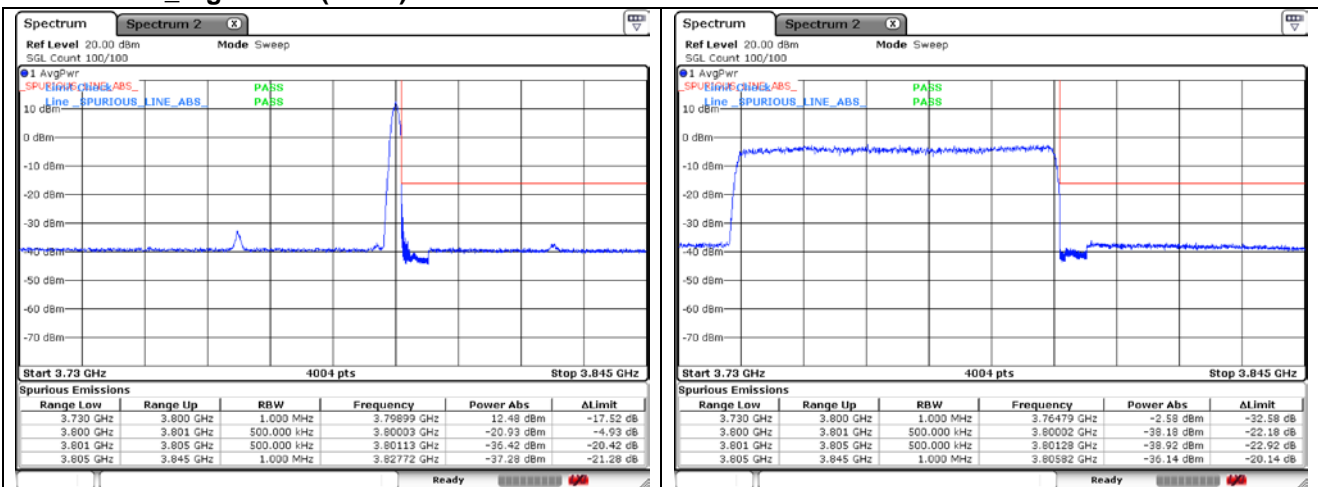
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

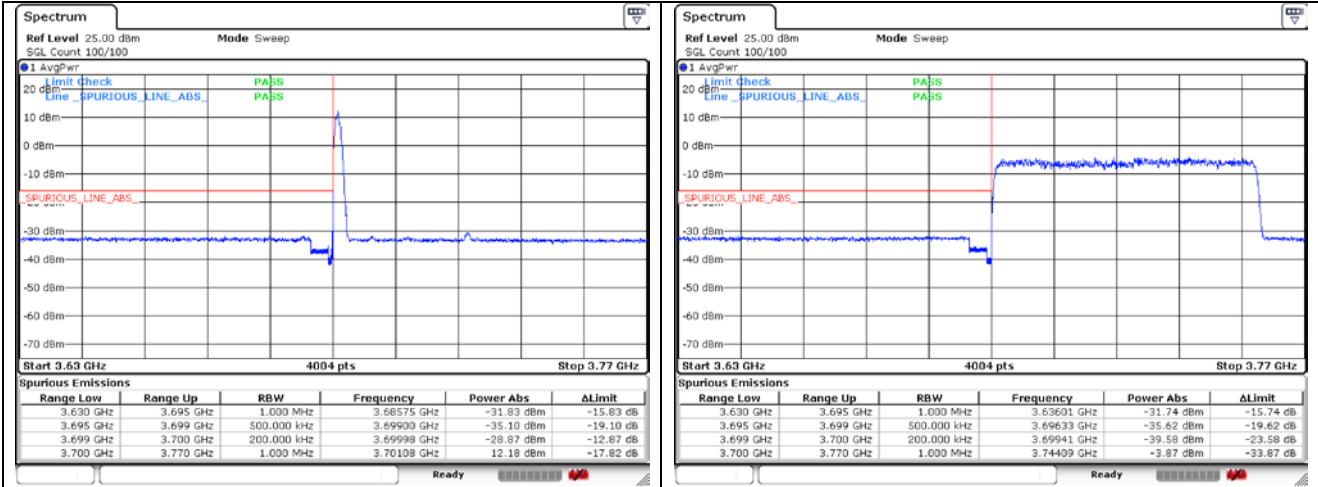
NR band 78_High Band (60 MHz)



CP-OFDM QPSK - High Channel - 1 RB

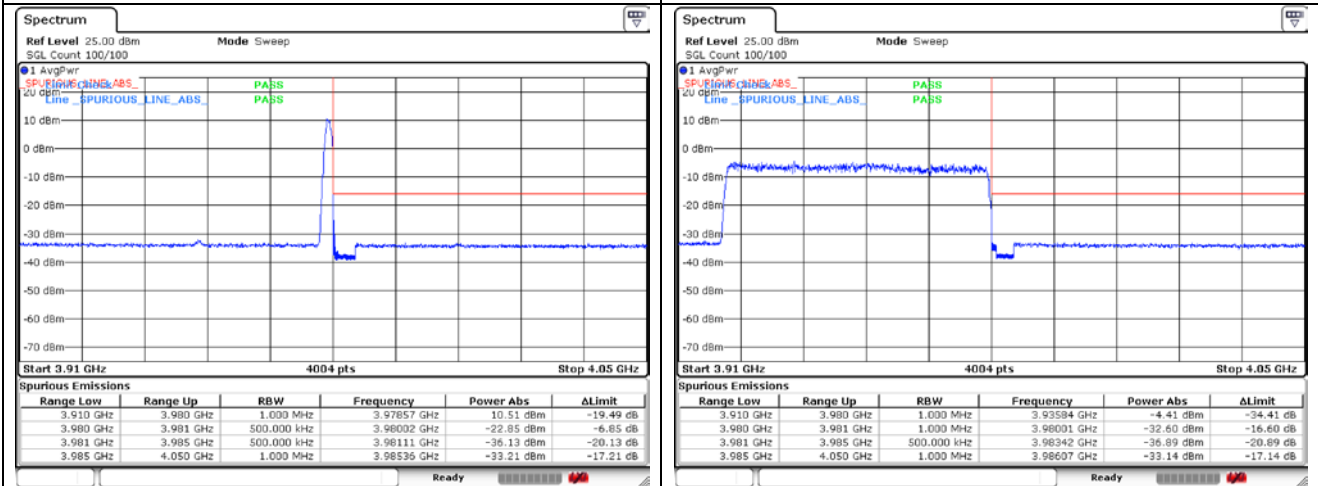
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (60 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

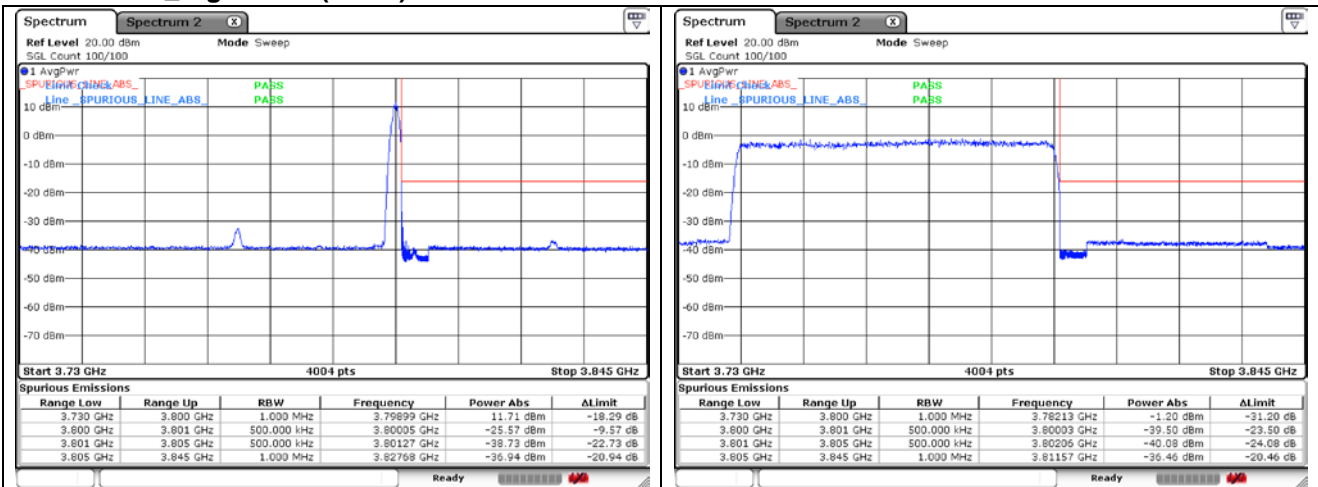
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

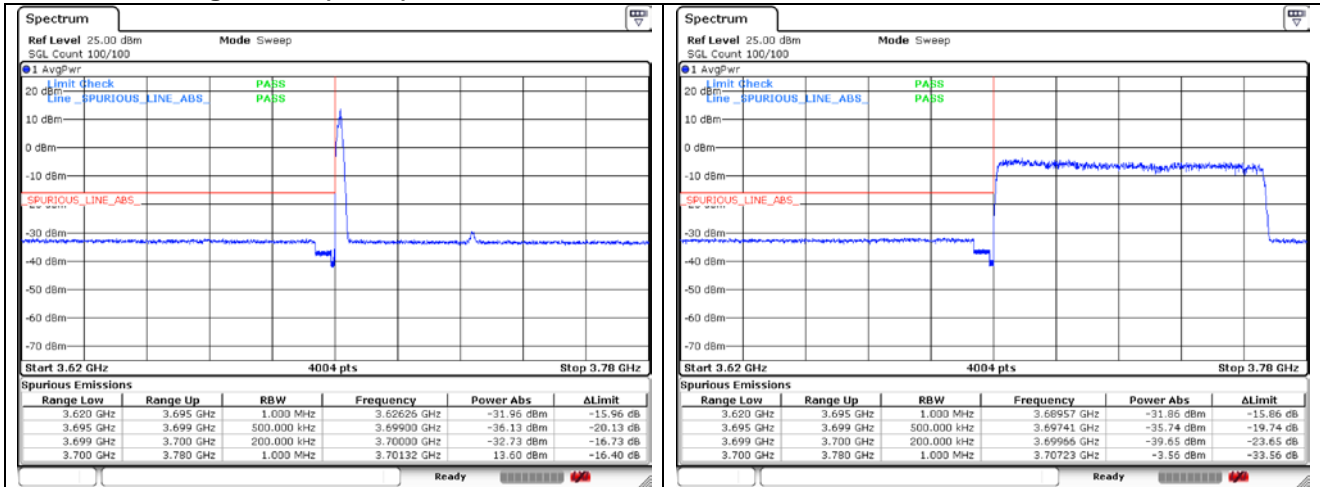
NR band 78_High Band (60 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

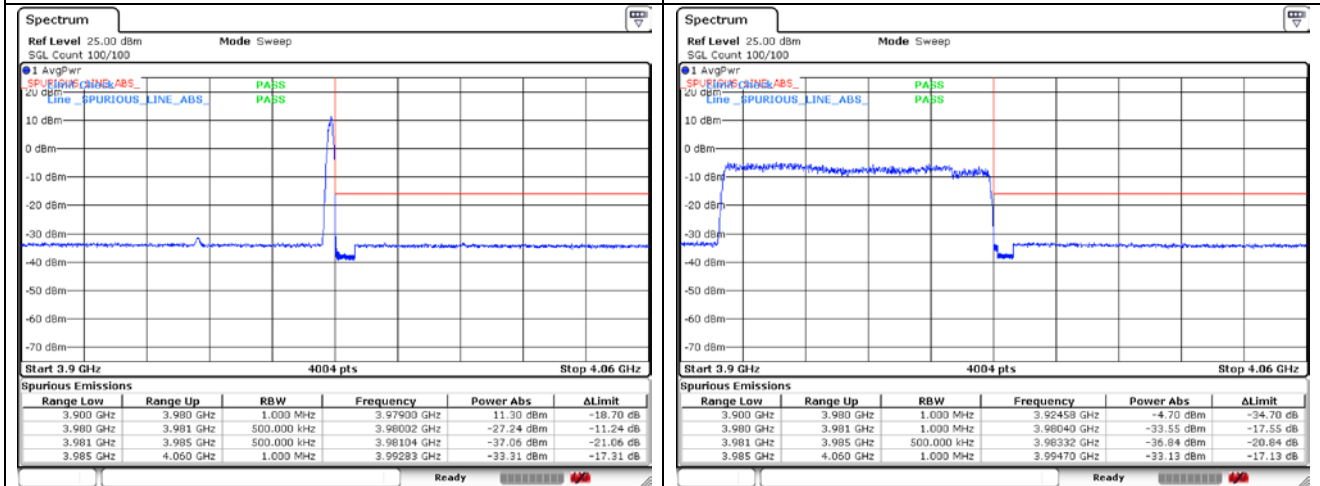
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (70 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

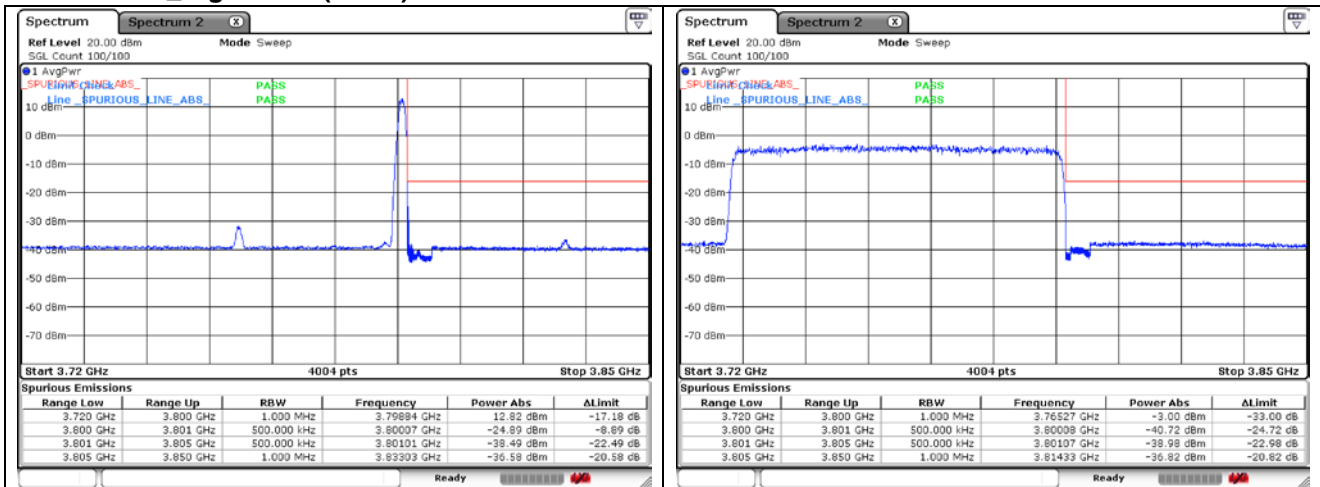
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

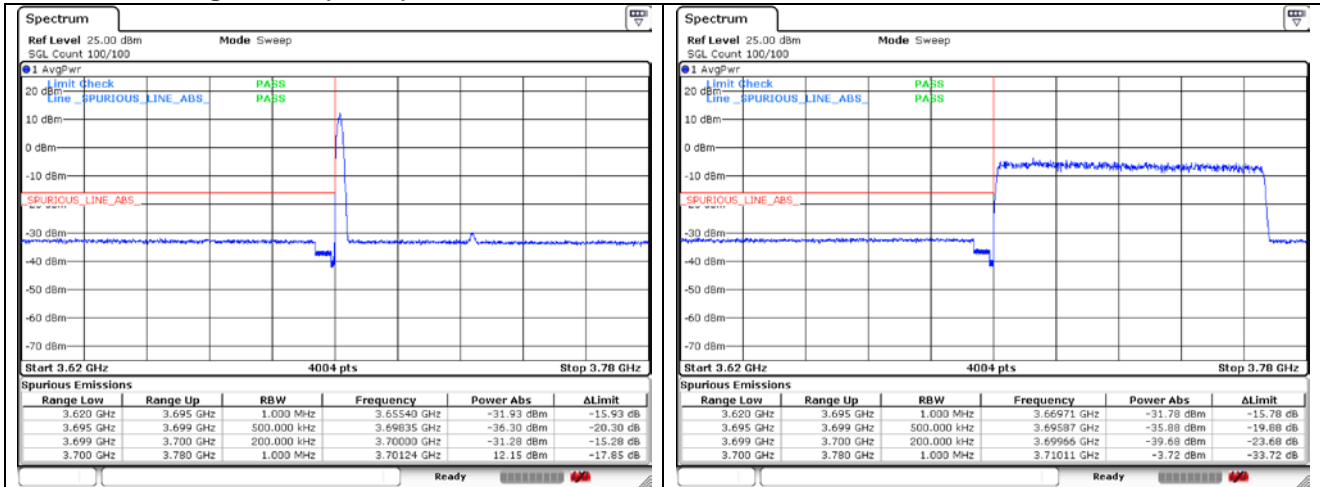
NR band 78_High Band (70 MHz)



CP-OFDM QPSK - High Channel - 1 RB

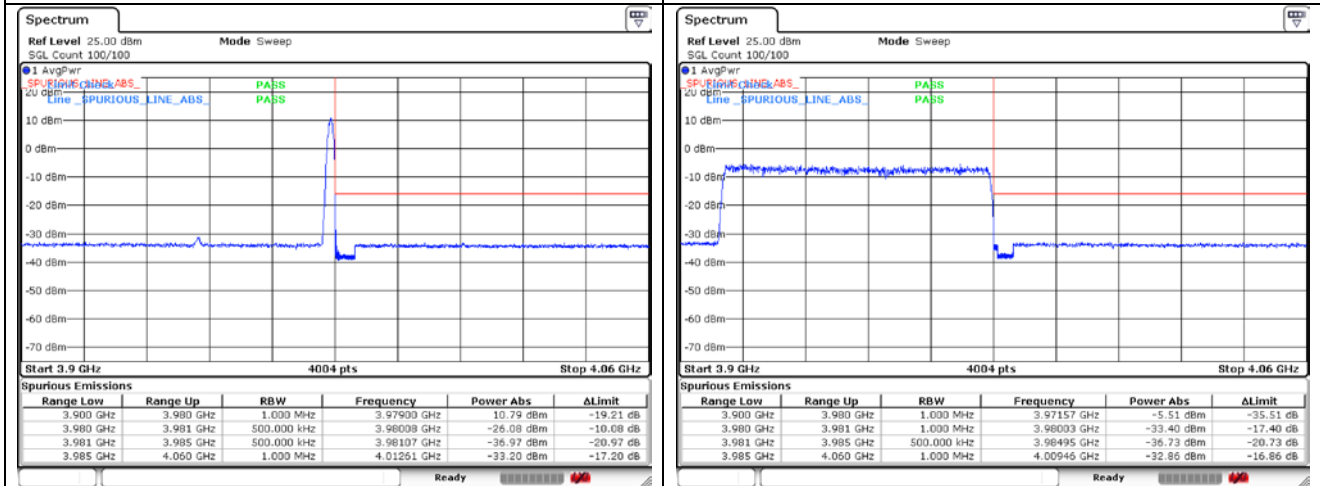
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (70 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

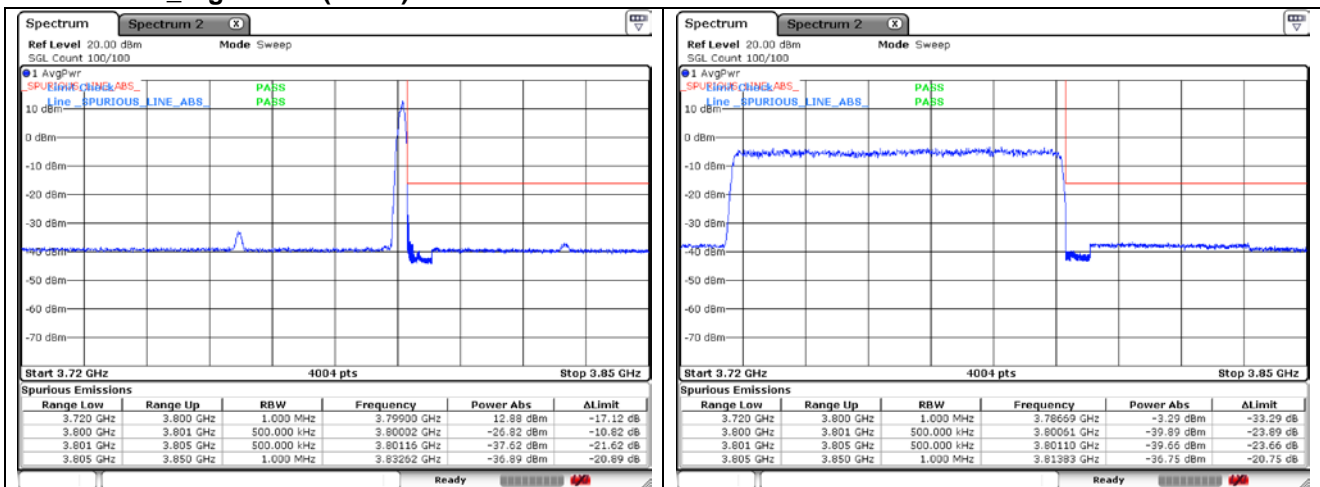
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

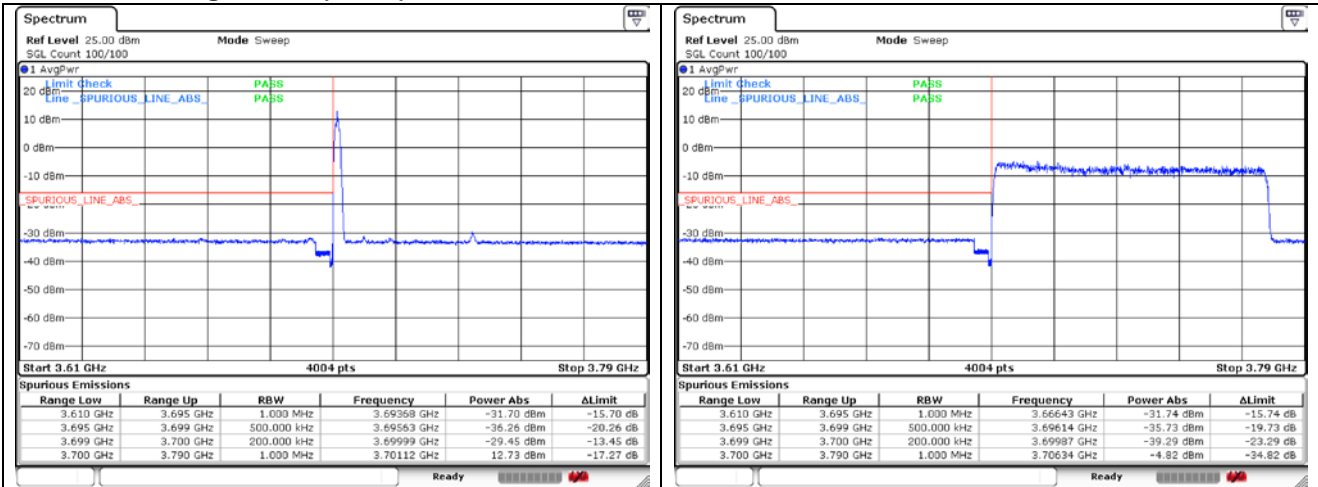
NR band 78_High Band (70 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

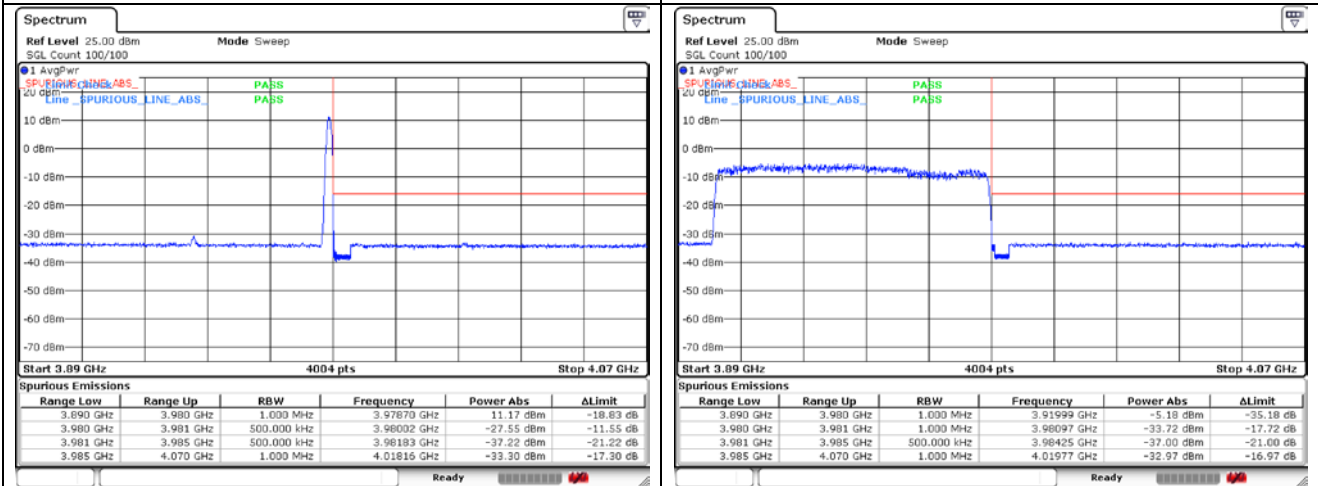
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (80 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

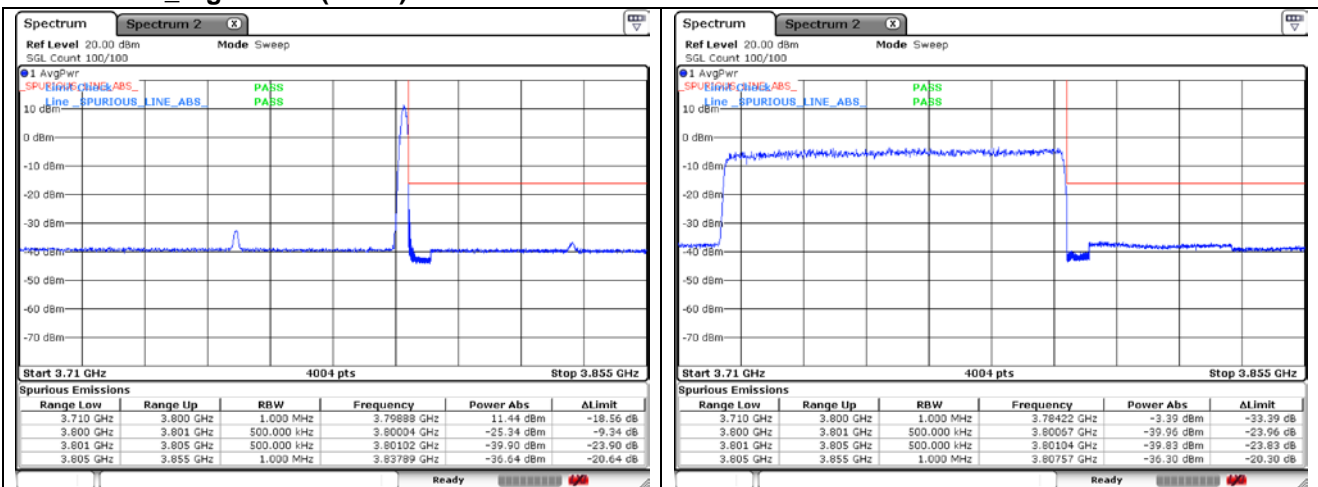
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

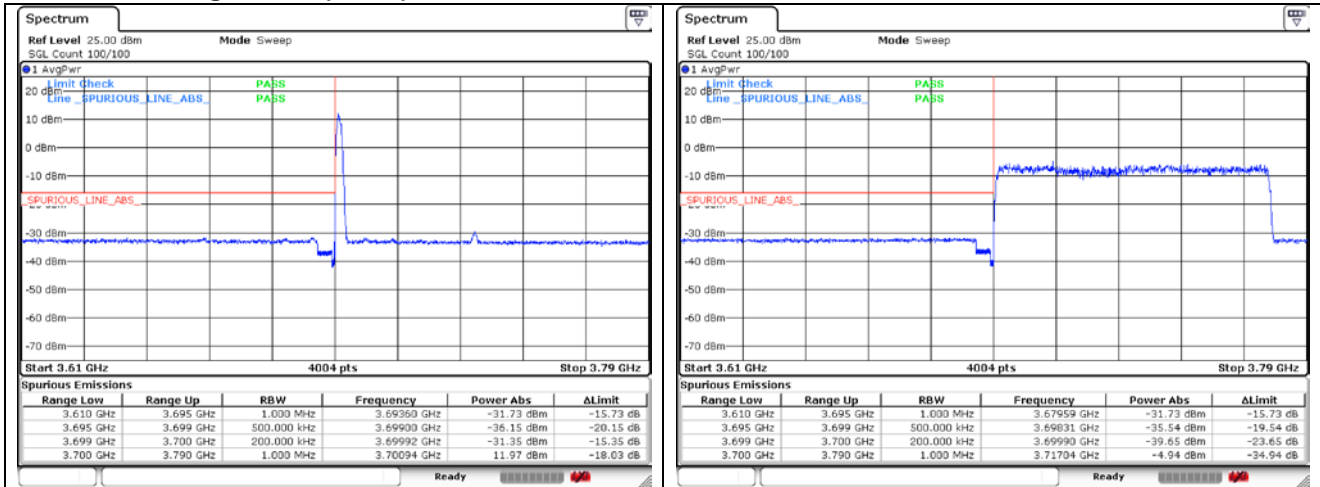
NR band 78_High Band (80 MHz)



CP-OFDM QPSK - High Channel - 1 RB

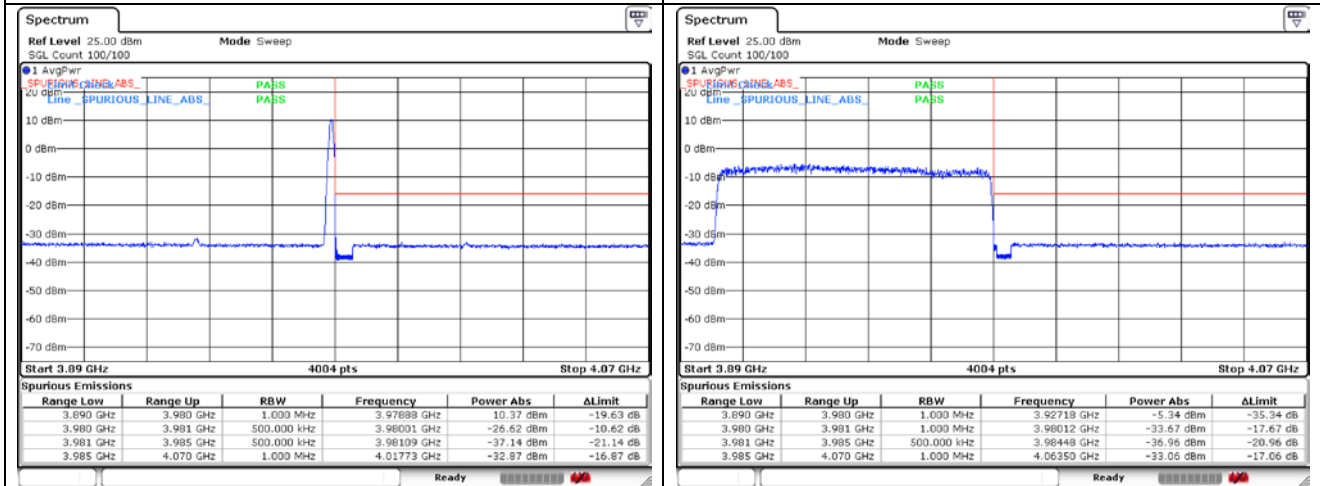
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (80 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

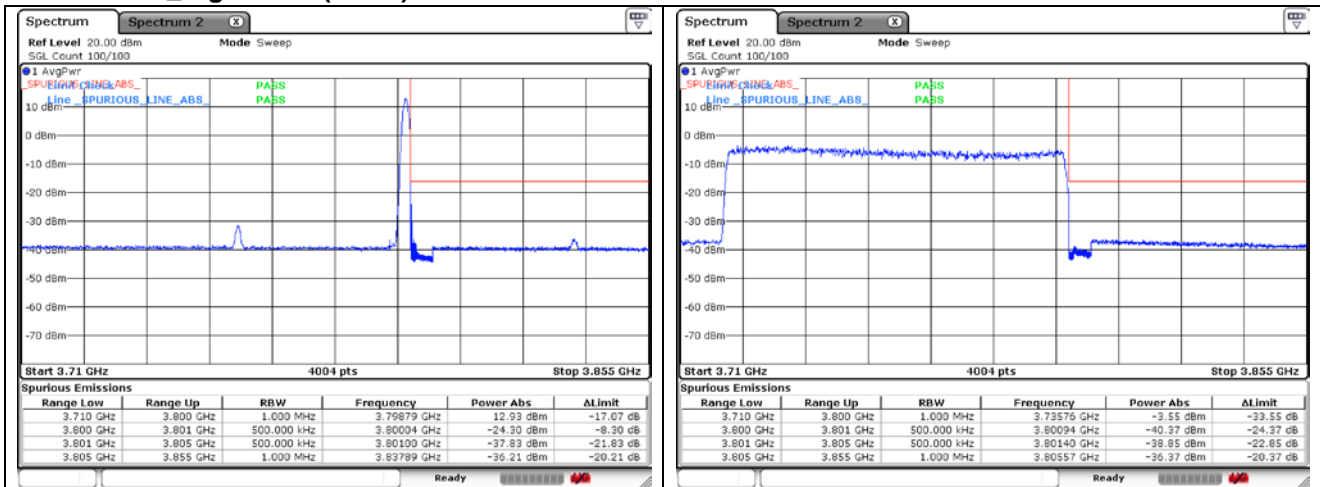
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

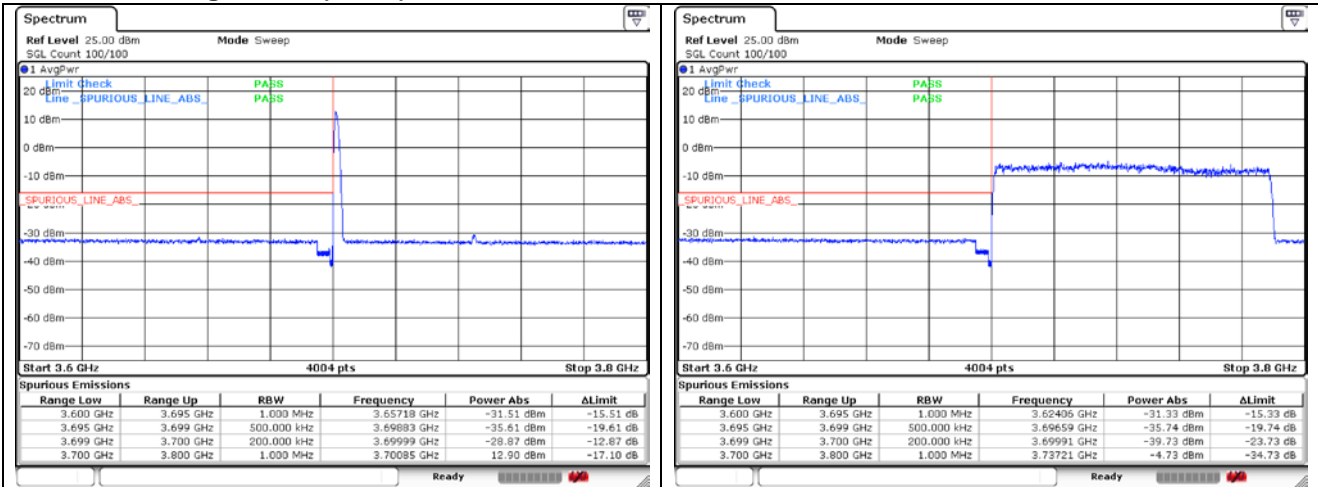
NR band 78_High Band (80 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

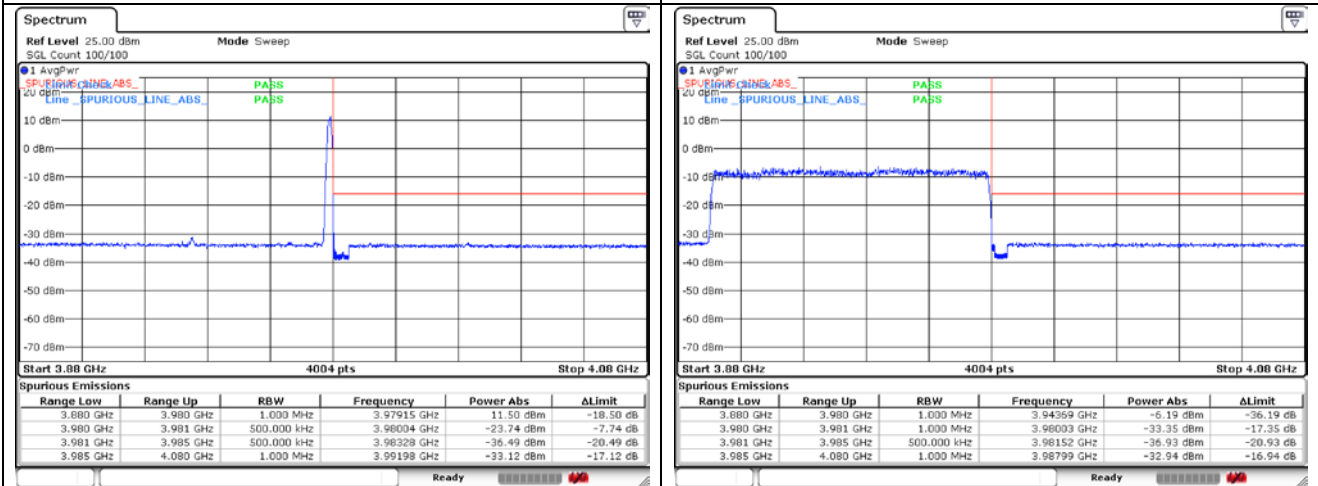
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (90 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

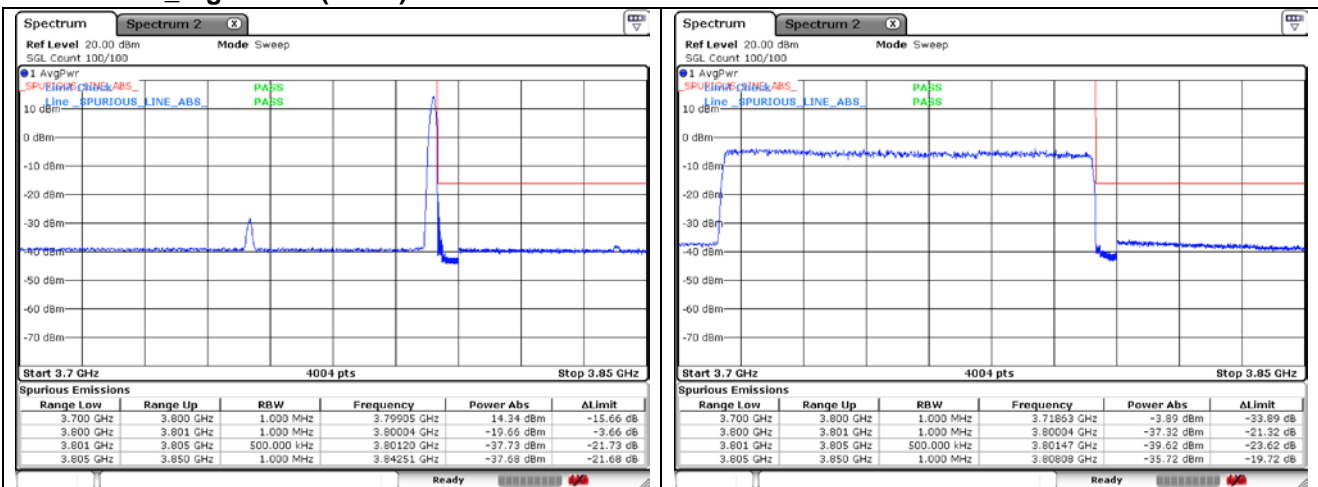
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

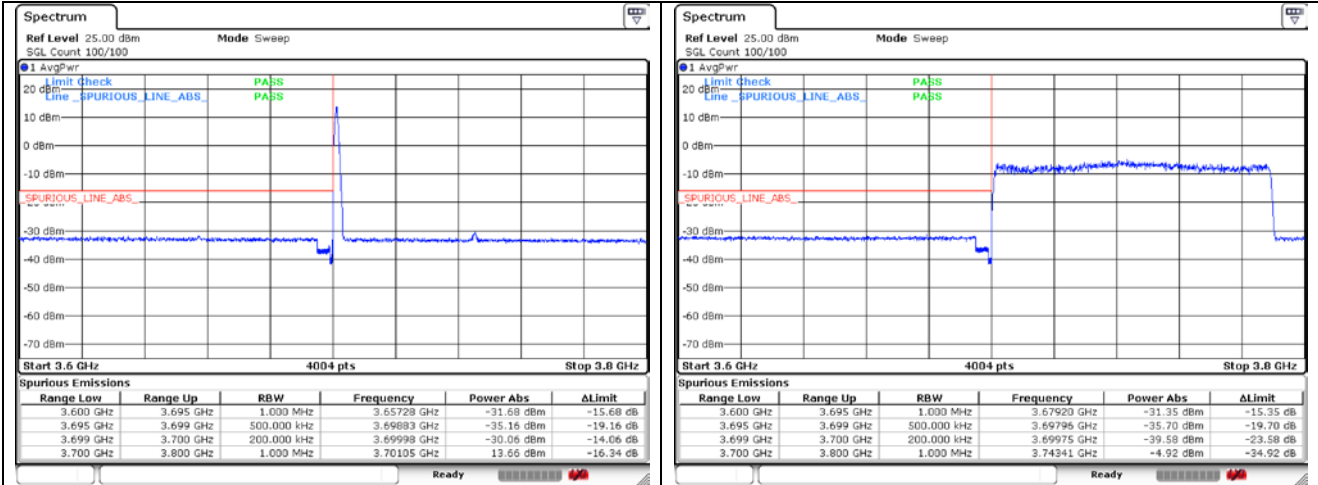
NR band 78_High Band (90 MHz)



CP-OFDM QPSK - High Channel - 1 RB

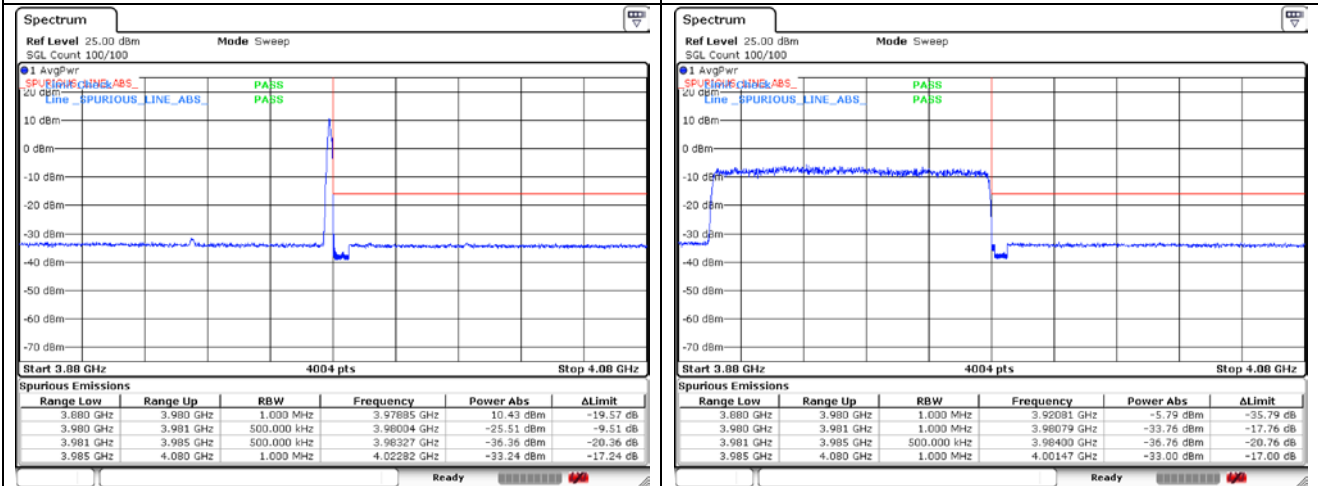
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (90 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

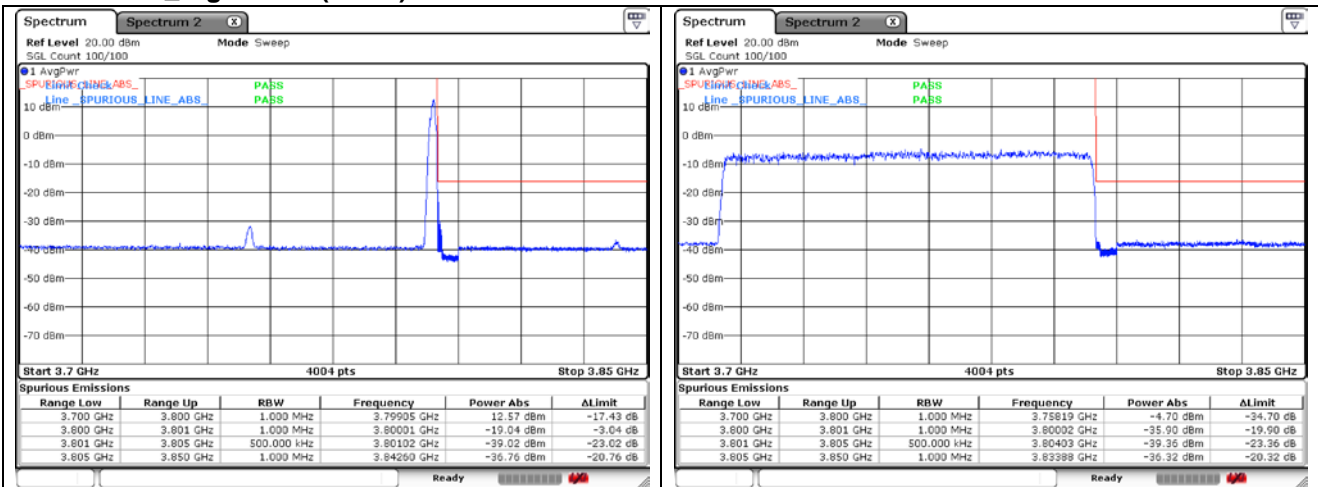
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

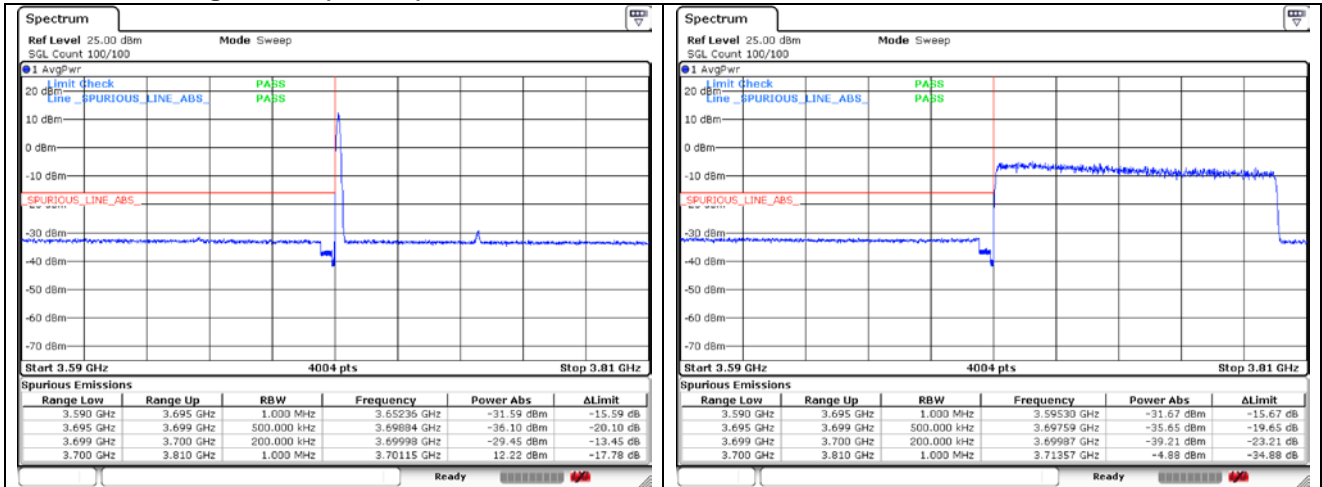
NR band 78_High Band (90 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

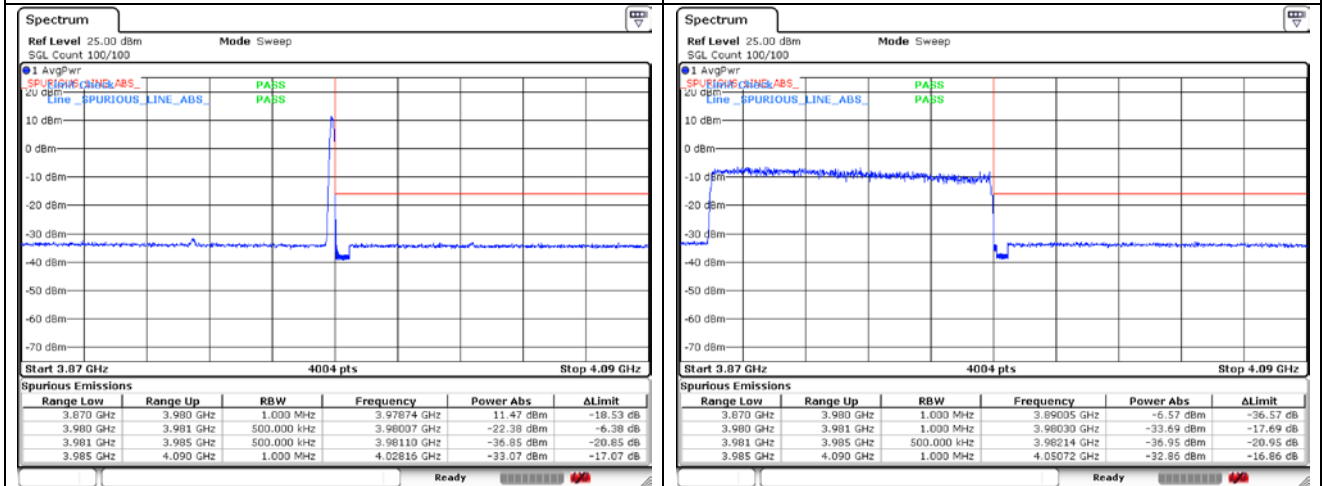
CP-OFDM 16QAM - High Channel - Full RB

NR band 77_High Band (100 MHz)



CP-OFDM QPSK - Low Channel - 1 RB

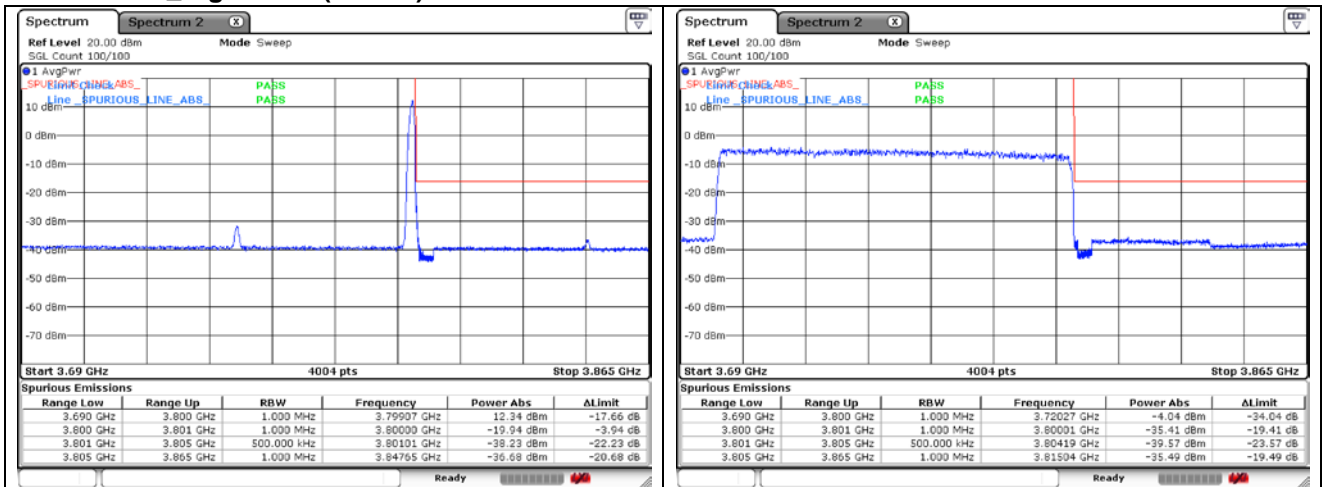
CP-OFDM QPSK - Low Channel - Full RB



CP-OFDM QPSK - High Channel - 1 RB

CP-OFDM QPSK - High Channel - Full RB

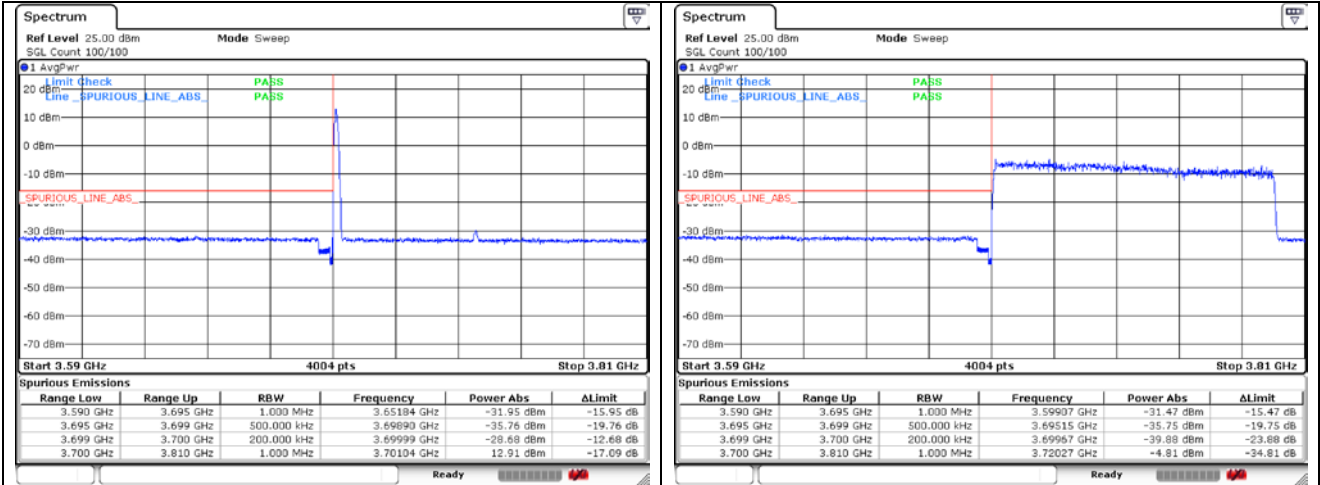
NR band 78_High Band (100 MHz)



CP-OFDM QPSK - High Channel - 1 RB

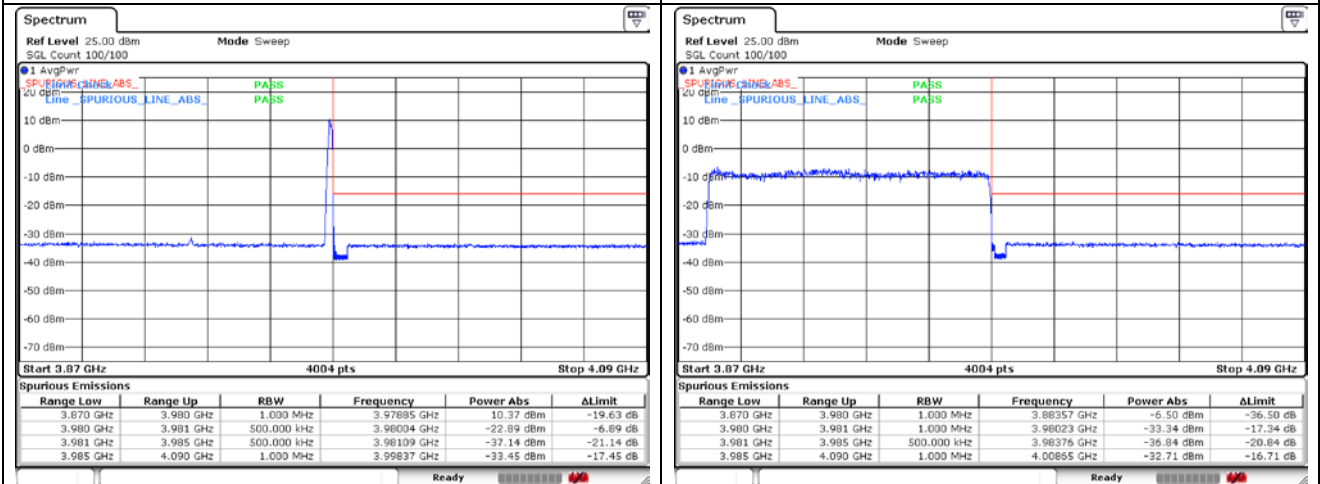
CP-OFDM QPSK - High Channel - Full RB

NR band 77_High Band (100 MHz)



CP-OFDM 16QAM - Low Channel - 1 RB

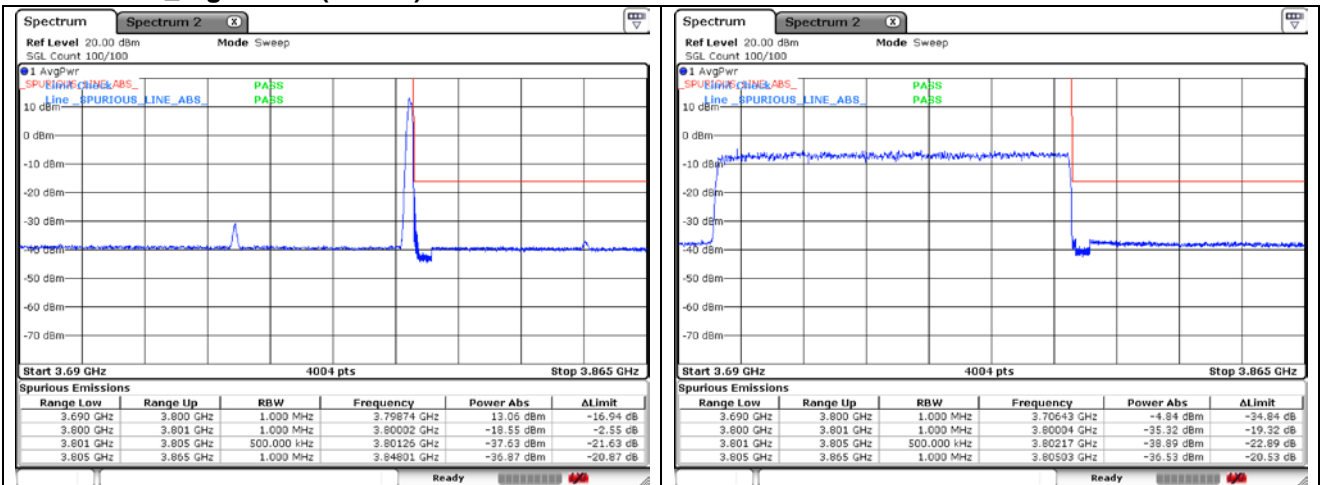
CP-OFDM 16QAM - Low Channel - Full RB



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

NR band 78_High Band (100 MHz)



CP-OFDM 16QAM - High Channel - 1 RB

CP-OFDM 16QAM - High Channel - Full RB

8. Frequency Stability

8.1. Limit

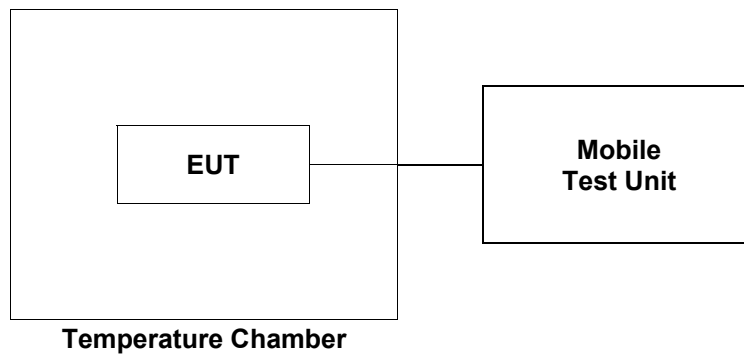
FCC

- § 2.1055 (a), § 2.1055 (d) & following:

- §27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

8.2. Test Procedure

1. Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Mobile Test Unit via feed-through attenuators.
2. The EUT was placed inside the temperature chamber.
3. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from Mobile Test Unit.



8.3. Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

SISO

NR band 77/78_Low Band at middle channel

Reference Frequency: 3 500.01 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.90	-28.90	0.002 89
40		-26.50	0.003 57
30		-31.50	0.002 14
20(Ref.)		-39.00	-
10		-30.50	0.002 43
0		-35.70	0.000 94
-10		-32.50	0.001 86
-20		-32.10	0.001 97
-30		-32.00	0.002 00
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
20	3.32 (85%)	-35.80	0.000 91
	4.49 (115%)	-31.40	0.002 17

NR band 77/78_High Band at middle channel

Reference Frequency: 3 840 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.90	-19.30	0.000 57
40		-34.30	-0.003 33
30		-25.60	-0.001 07
20(Ref.)		-21.50	-
10		-22.00	-0.000 13
0		-22.50	-0.000 26
-10		-28.40	-0.001 80
-20		-23.70	-0.000 57
-30		-18.20	0.000 86
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
20	3.32 (85%)	-22.20	-0.000 18
	4.49 (115%)	-24.70	-0.000 83

MIMO

NR band 77/78 Low Band at middle channel

Reference Frequency: 3 500.01 MHz					
Frequency Stability versus Temperature					
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse			
		Frequency Error (Hz)		ppm	
		Port 1	Port 2	Port 1	Port 2
50	3.90	-23.50	-21.50	0.000 23	0.001 40
40		-20.10	-25.00	0.001 20	0.000 40
30		-21.10	-24.50	0.000 91	0.000 54
20(Ref.)		-24.30	-26.40	-	-
10		-33.40	-23.10	-0.002 60	0.000 94
0		-27.30	-21.10	-0.000 86	0.001 51
-10		-20.40	-25.90	0.001 11	0.000 14
-20		-24.60	-32.00	-0.000 09	-0.001 60
-30		-27.80	-27.90	-0.001 00	-0.000 43
Frequency Stability versus Power Supply					
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse			
		Frequency Error (Hz)		ppm	
		Port 1	Port 2	Port 1	Port 2
20	3.32 (85%)	-20.40	-20.20	0.001 11	0.001 77
	4.49 (115%)	-23.20	-24.50	0.000 31	0.000 54

NR band 77/78_High Band at middle channel

Reference Frequency: 3 840 MHz					
Frequency Stability versus Temperature					
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse			
		Frequency Error (Hz)		ppm	
		Port 1	Port 2	Port 1	Port 2
50	3.90	25.70	26.60	-0.000 21	-0.000 89
40		11.30	14.80	-0.003 96	-0.003 96
30		18.80	25.30	-0.002 01	-0.001 22
20(Ref.)		26.50	30.00	-	-
10		15.20	12.20	-0.002 94	-0.004 64
0		-27.40	-21.40	-0.014 04	-0.013 39
-10		-15.70	-16.30	-0.010 99	-0.012 06
-20		19.70	23.90	-0.001 77	-0.001 59
-30		26.00	18.90	-0.000 13	-0.002 89
Frequency Stability versus Power Supply					
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse			
		Frequency Error (Hz)		ppm	
		Port 1	Port 2	Port 1	Port 2
20	3.32 (85%)	31.90	21.30	0.001 41	-0.002 27
	4.49 (115%)	27.60	23.50	0.000 29	-0.001 69

- End of the Test Report -