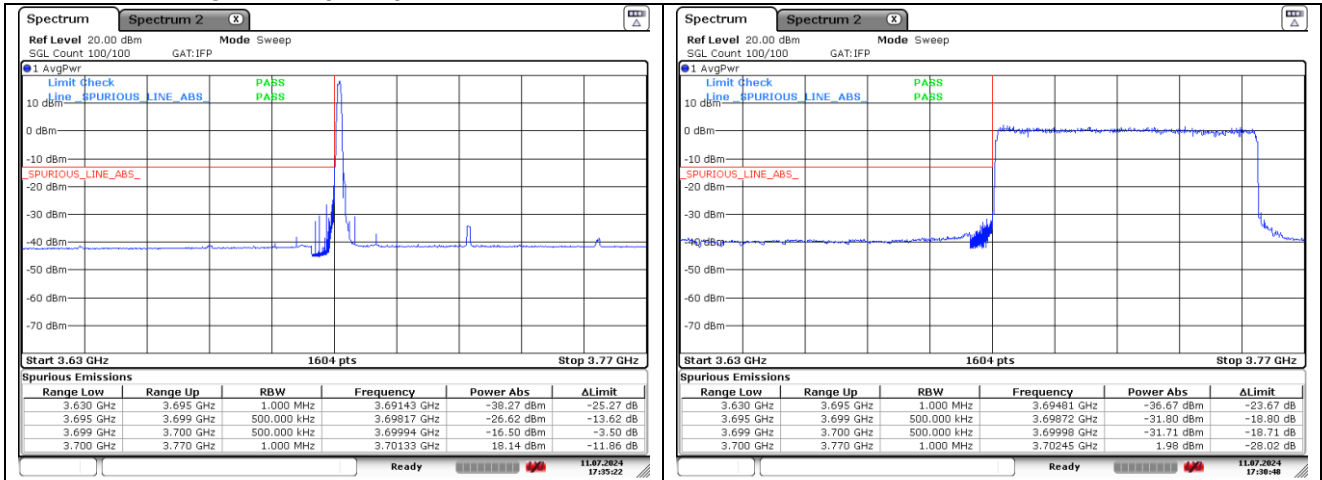
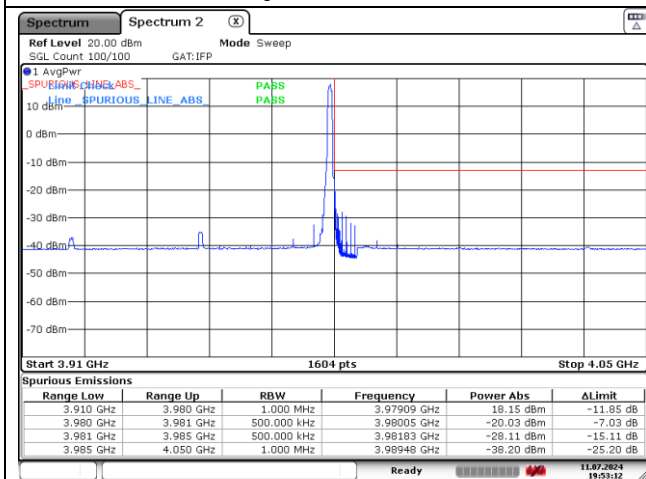


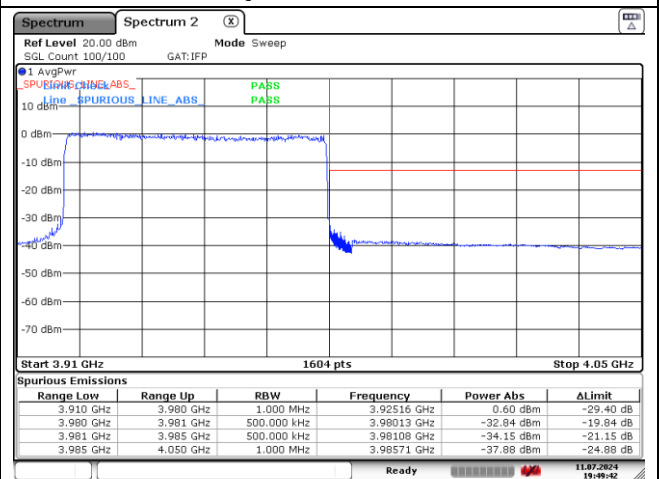
### NR band 77\_High Band (60 MHz)



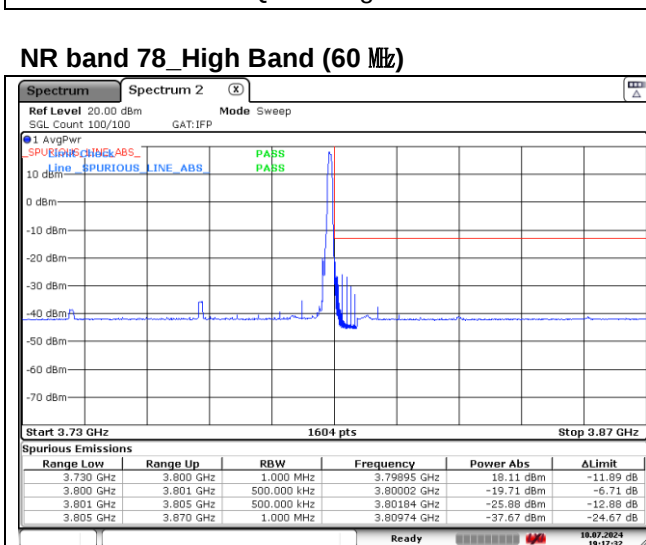
### CP-OFDM 16QAM - Low Channel - 1 RB



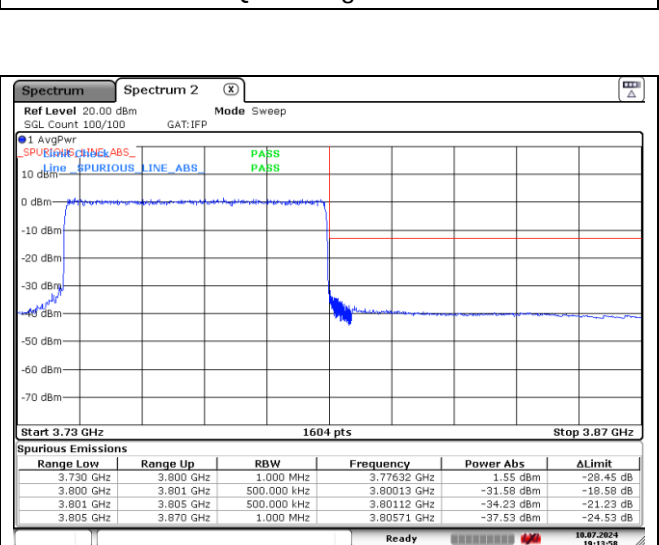
### CP-OFDM 16QAM - Low Channel - Full RB



### CP-OFDM 16QAM - High Channel - 1 RB



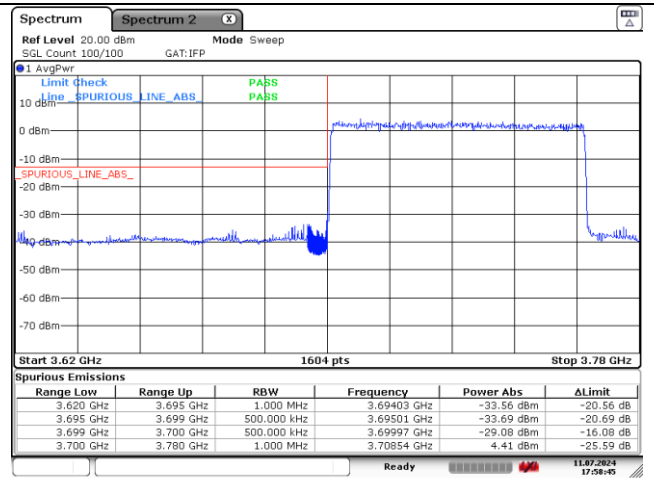
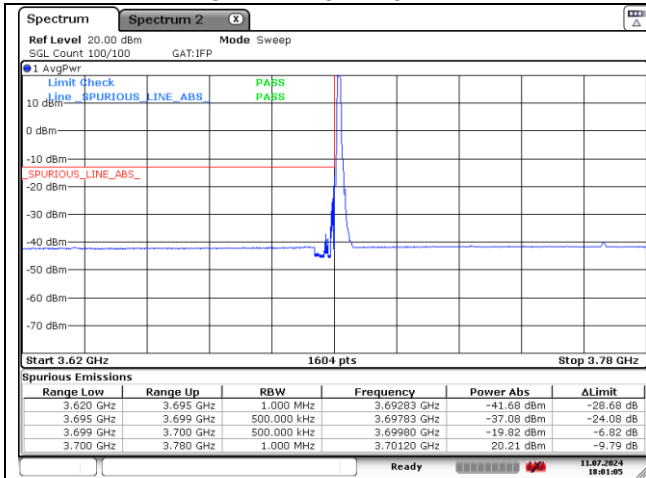
### CP-OFDM 16QAM - High Channel - Full RB



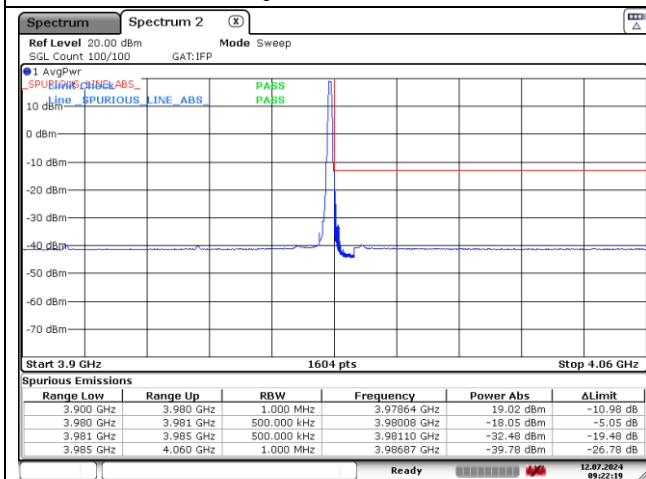
### CP-OFDM 16QAM - High Channel - 1 RB

### CP-OFDM 16QAM - High Channel - Full RB

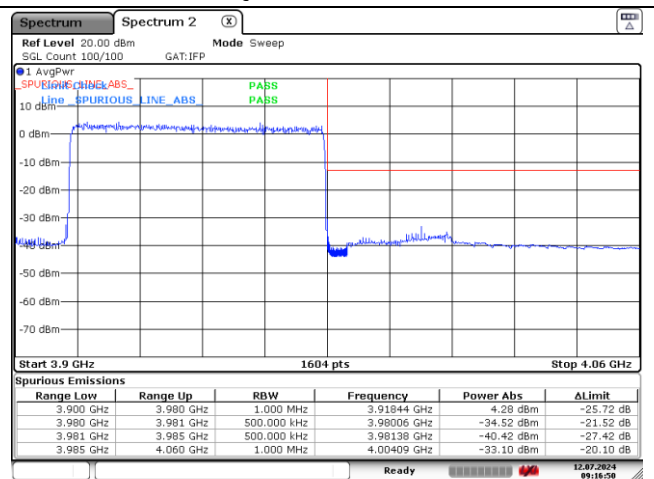
### NR band 77\_High Band (70 MHz)



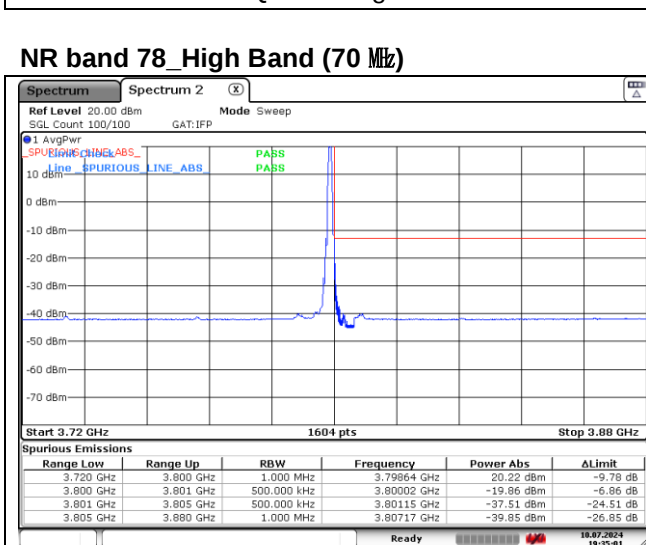
### DFT-S-OFDM QPSK - Low Channel - 1 RB



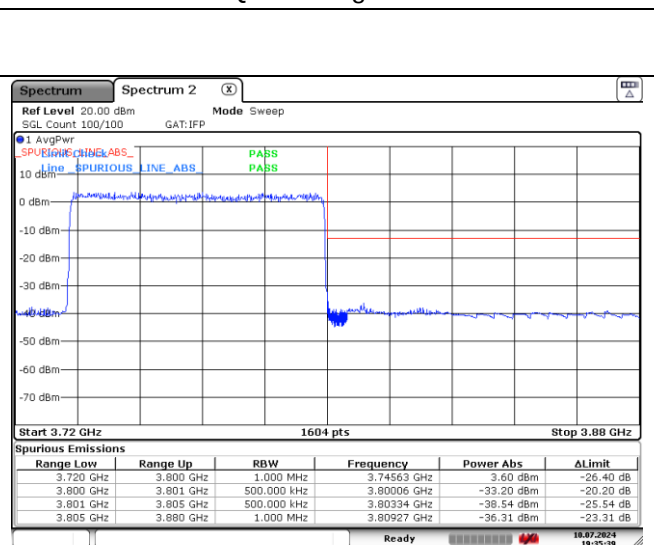
### DFT-S-OFDM QPSK - Low Channel - Full RB



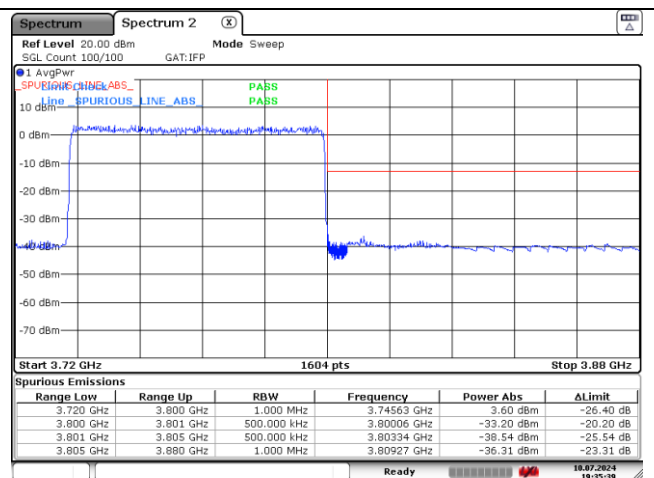
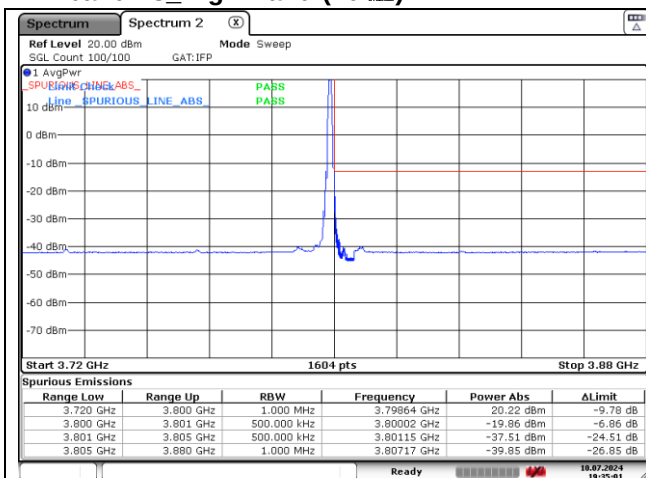
### DFT-S-OFDM QPSK - High Channel - 1 RB



### DFT-S-OFDM QPSK - High Channel - Full RB



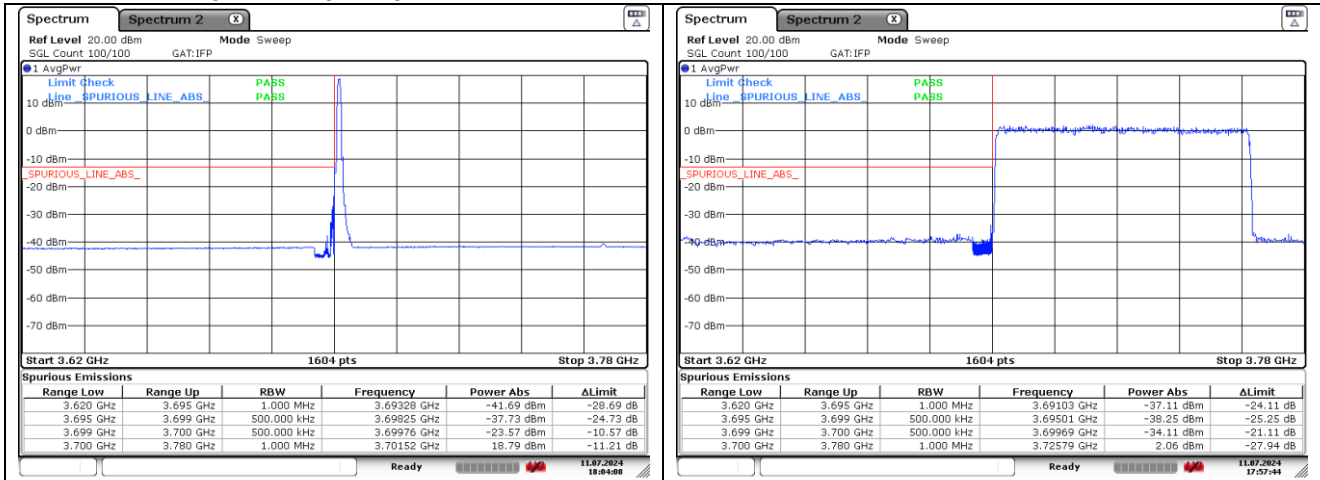
### NR band 78\_High Band (70 MHz)



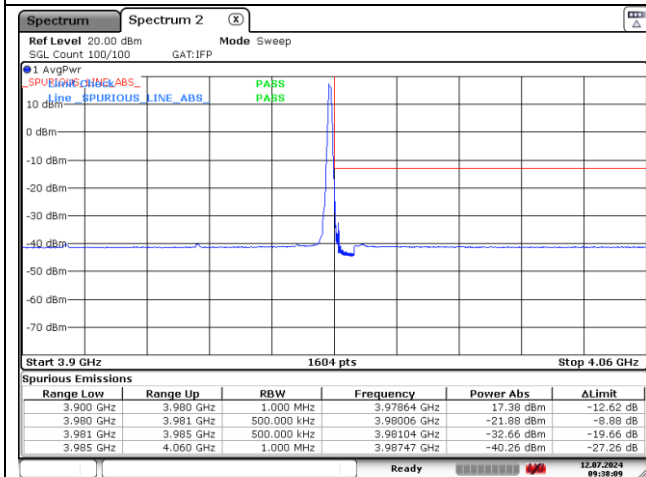
### DFT-S-OFDM QPSK - High Channel - 1 RB

### DFT-S-OFDM QPSK - High Channel - Full RB

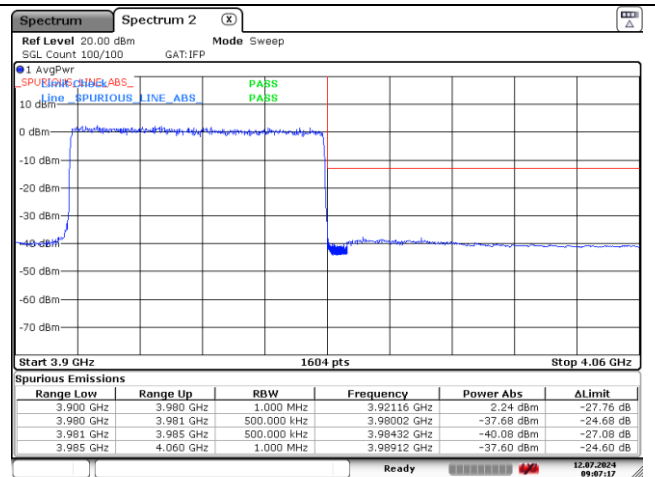
### NR band 77\_High Band (70 MHz)



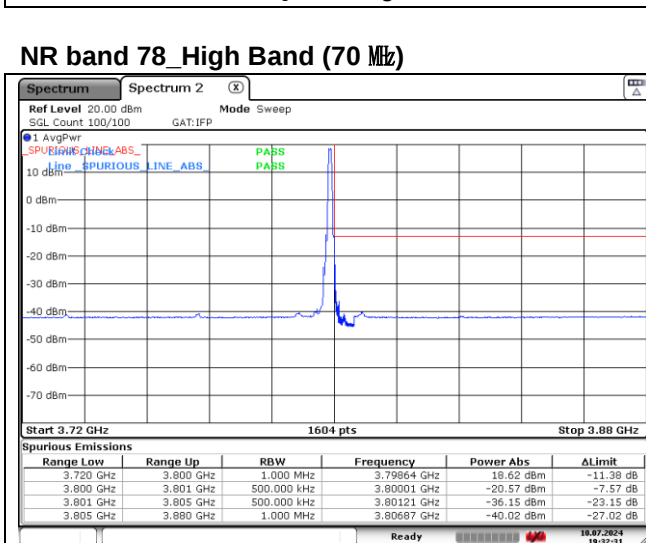
### DFT-S-OFDM 16QAM - Low Channel - 1 RB



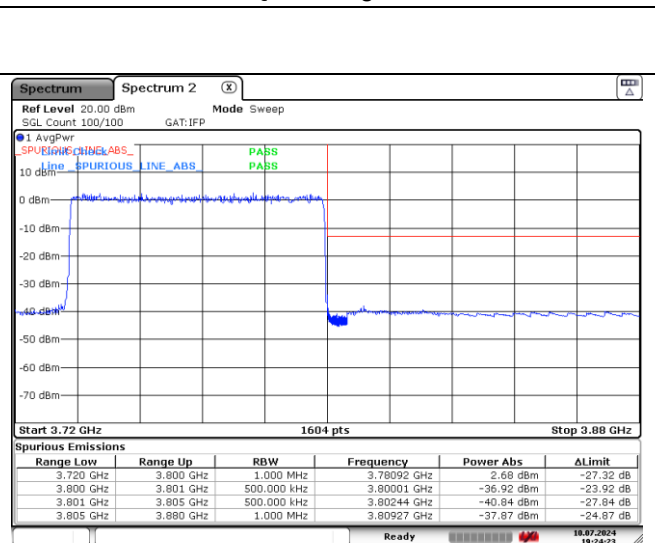
### DFT-S-OFDM 16QAM - Low Channel - Full RB



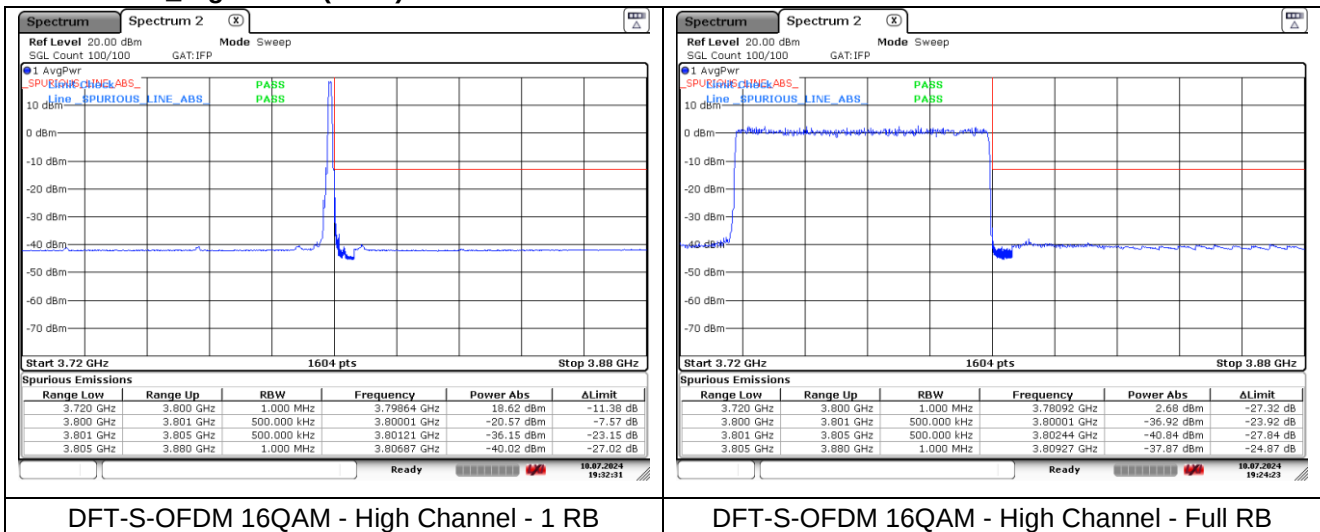
### DFT-S-OFDM 16QAM - High Channel - 1 RB



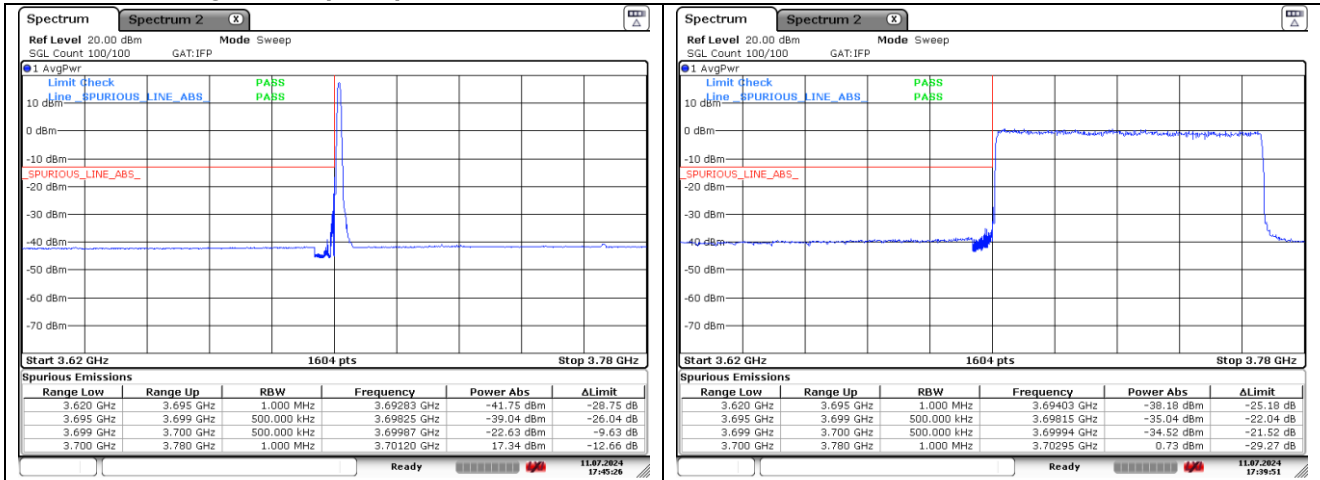
### DFT-S-OFDM 16QAM - High Channel - Full RB



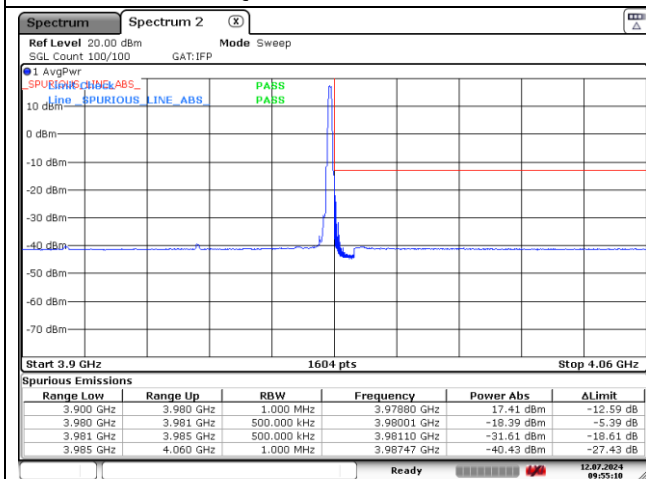
### NR band 78\_High Band (70 MHz)



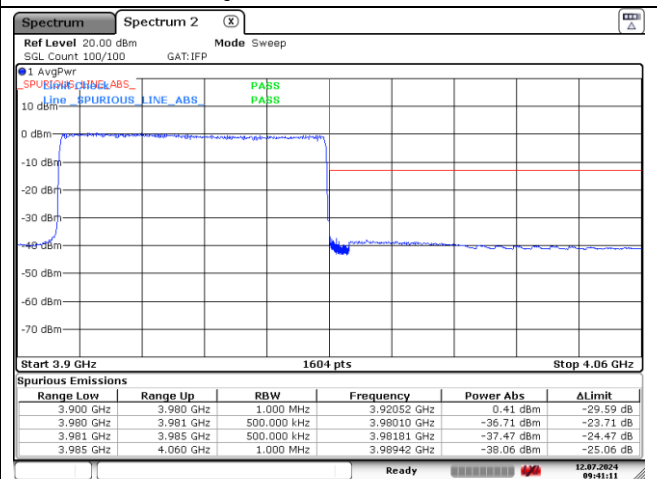
### NR band 77\_High Band (70 MHz)



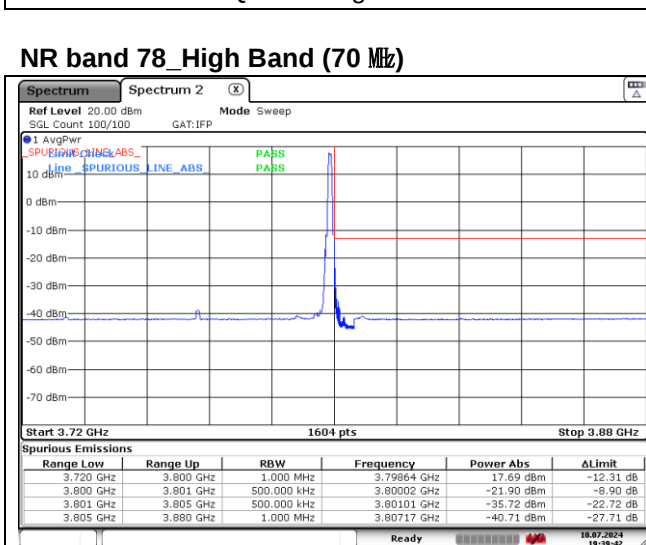
### CP-OFDM QPSK - Low Channel - 1 RB



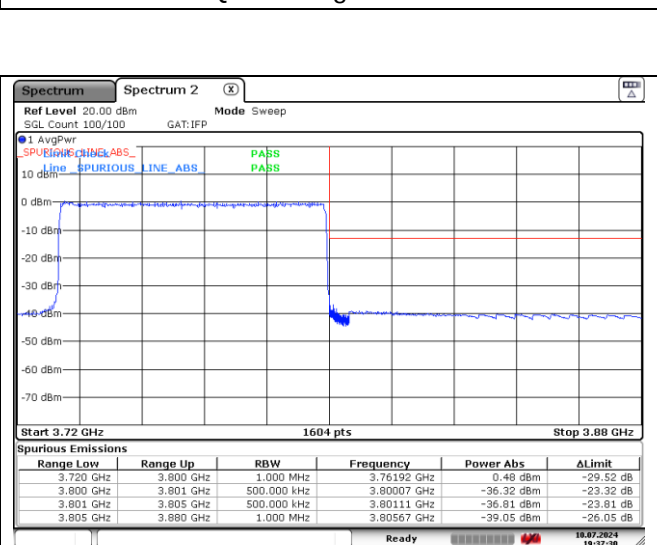
### CP-OFDM QPSK - Low Channel - Full RB



### CP-OFDM QPSK - High Channel - 1 RB



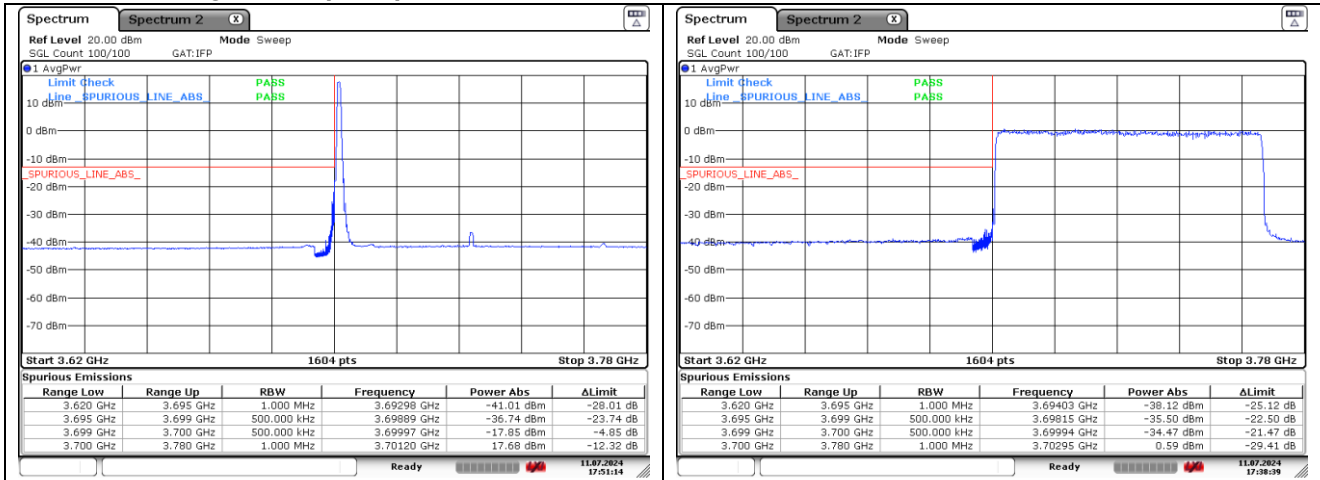
### CP-OFDM QPSK - High Channel - Full RB



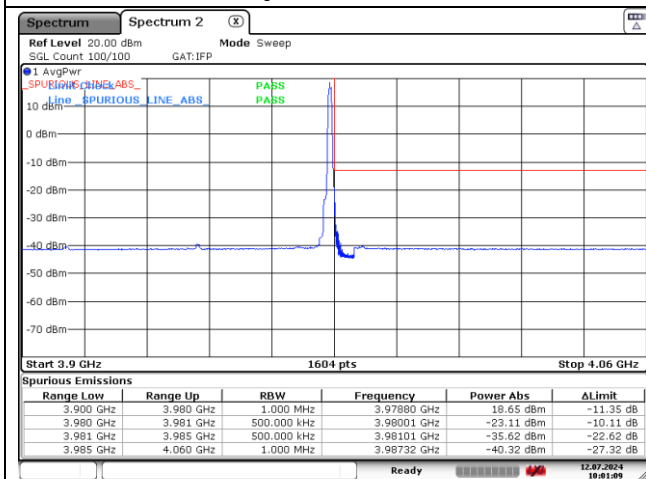
### CP-OFDM QPSK - High Channel - 1 RB

### CP-OFDM QPSK - High Channel - Full RB

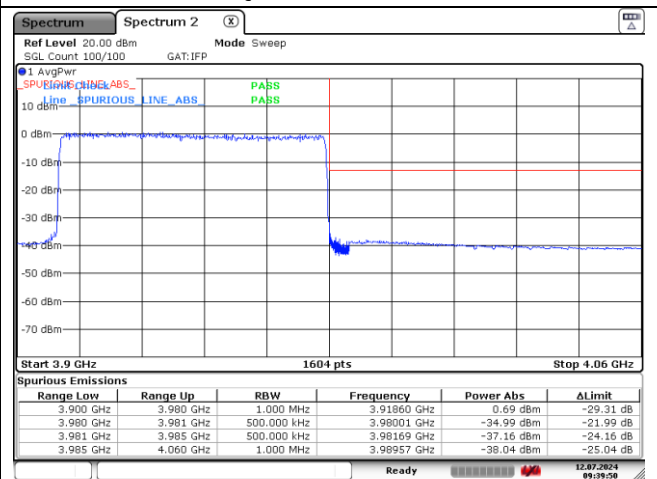
### NR band 77\_High Band (70 MHz)



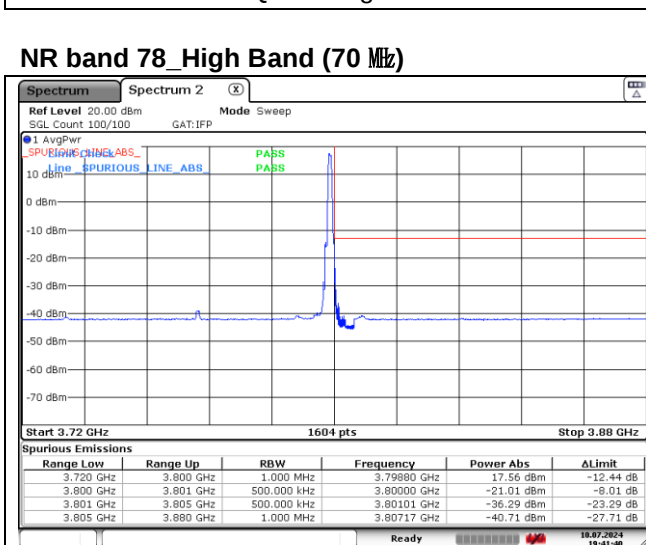
### CP-OFDM 16QAM - Low Channel - 1 RB



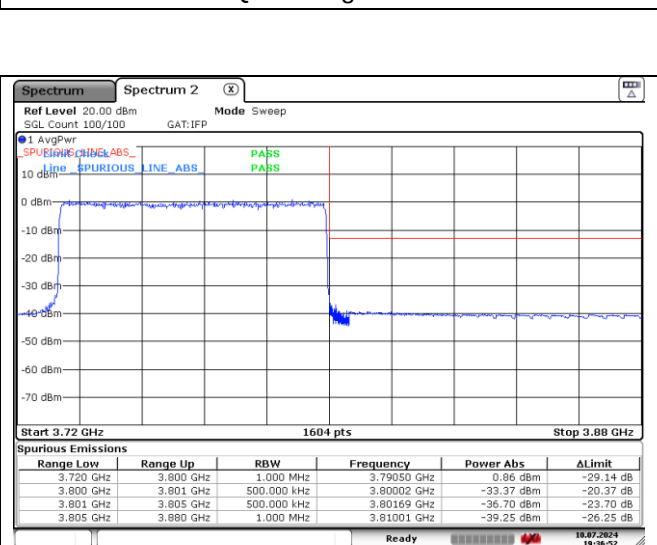
### CP-OFDM 16QAM - Low Channel - Full RB



### CP-OFDM 16QAM - High Channel - 1 RB



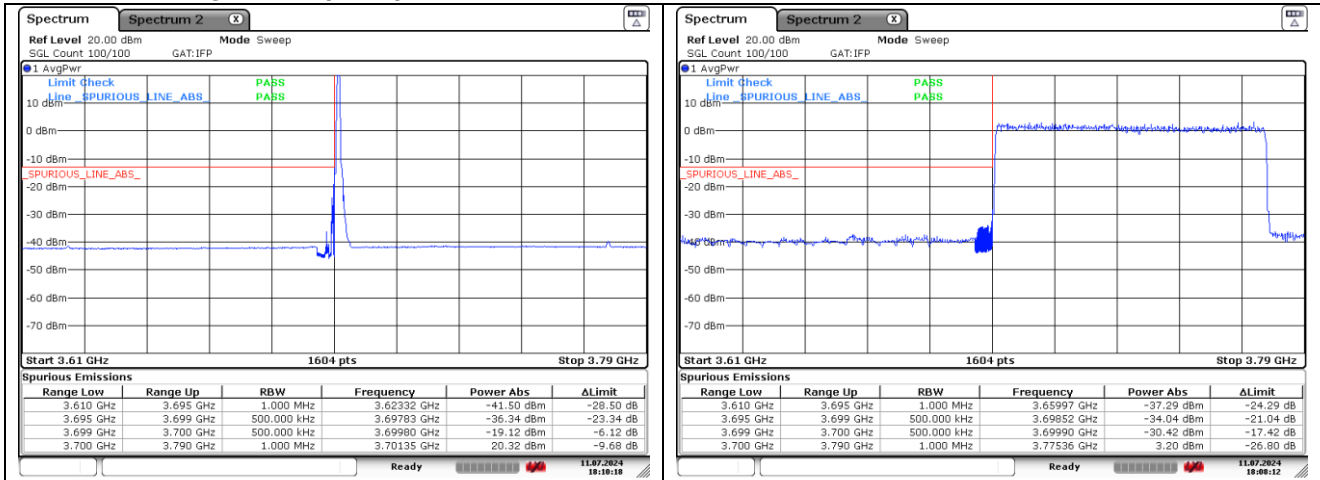
### CP-OFDM 16QAM - High Channel - Full RB



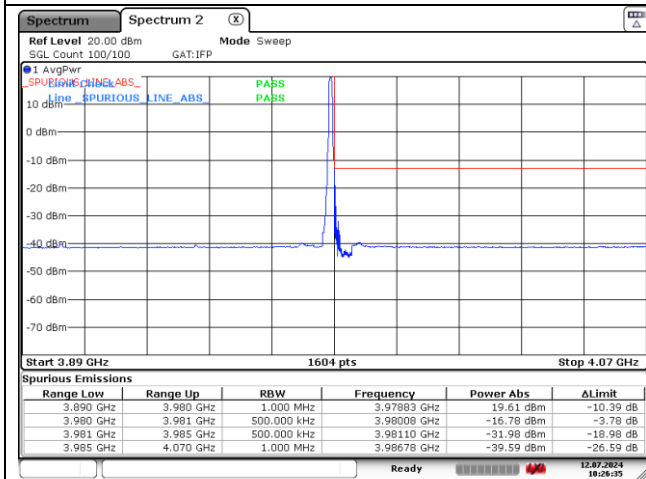
### CP-OFDM 16QAM - High Channel - 1 RB

### CP-OFDM 16QAM - High Channel - Full RB

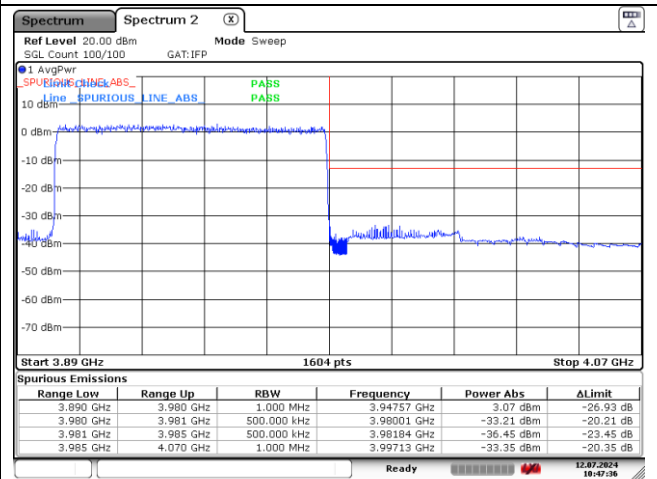
### NR band 77\_High Band (80 MHz)



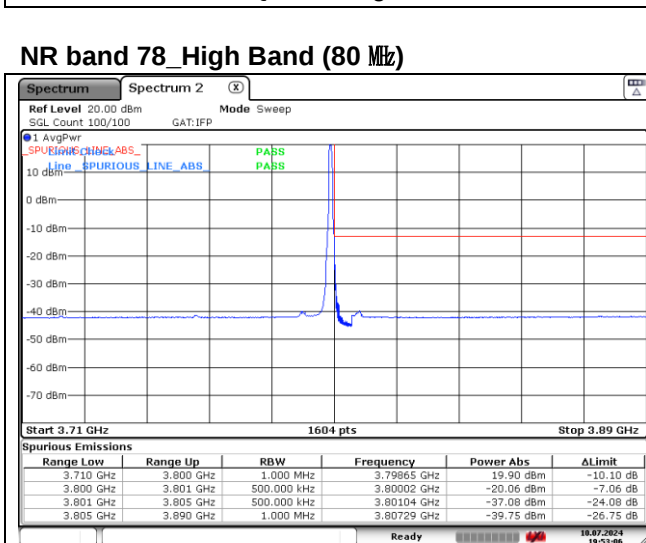
### DFT-S-OFDM QPSK - Low Channel - 1 RB



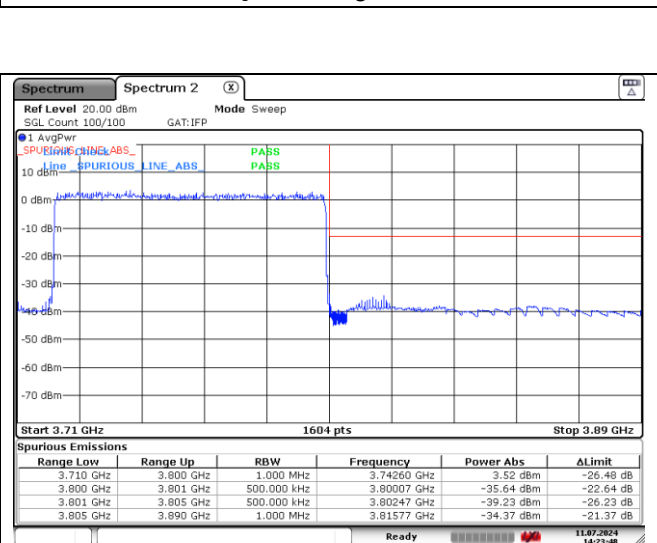
### DFT-S-OFDM QPSK - Low Channel - Full RB



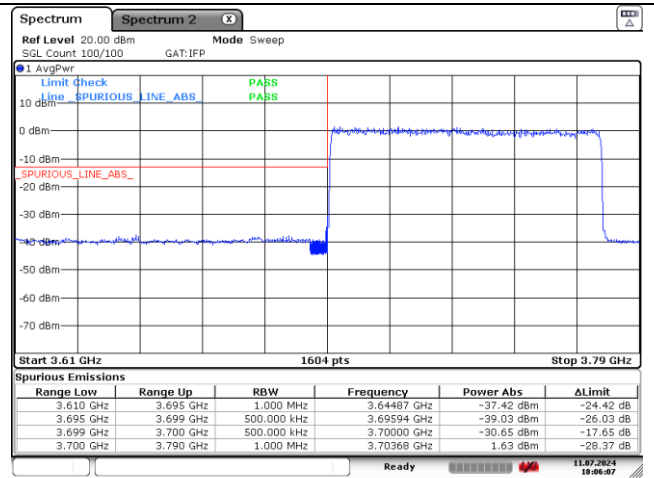
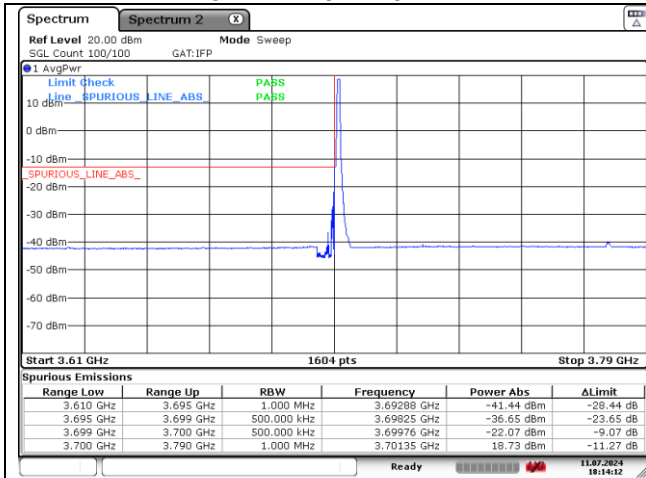
### DFT-S-OFDM QPSK - High Channel - 1 RB



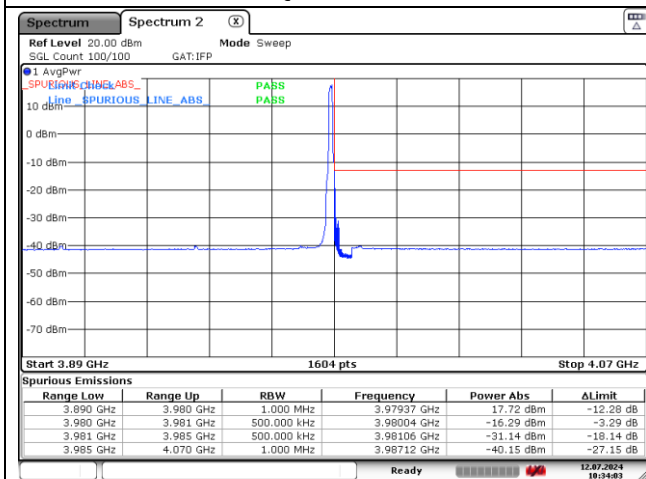
### DFT-S-OFDM QPSK - High Channel - Full RB



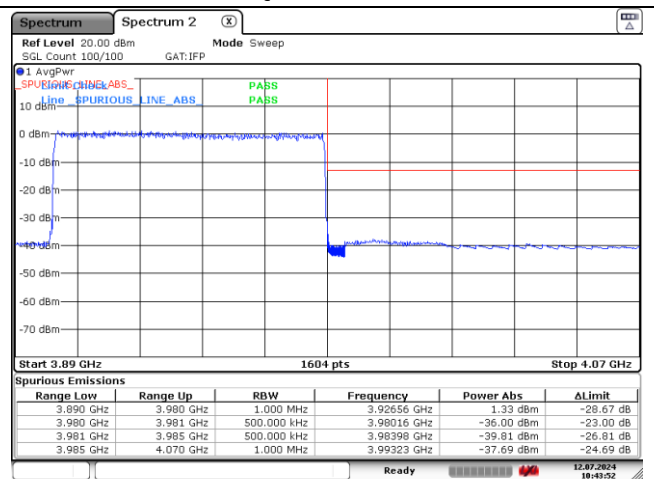
### NR band 77\_High Band (80 MHz)



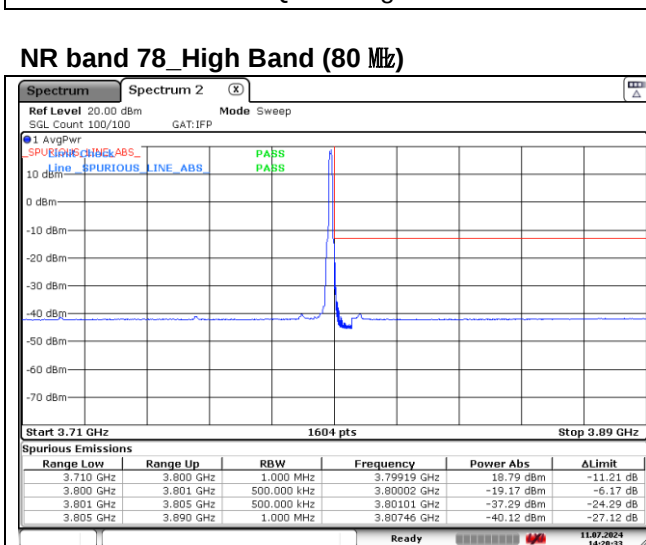
### DFT-S-OFDM 16QAM - Low Channel - 1 RB



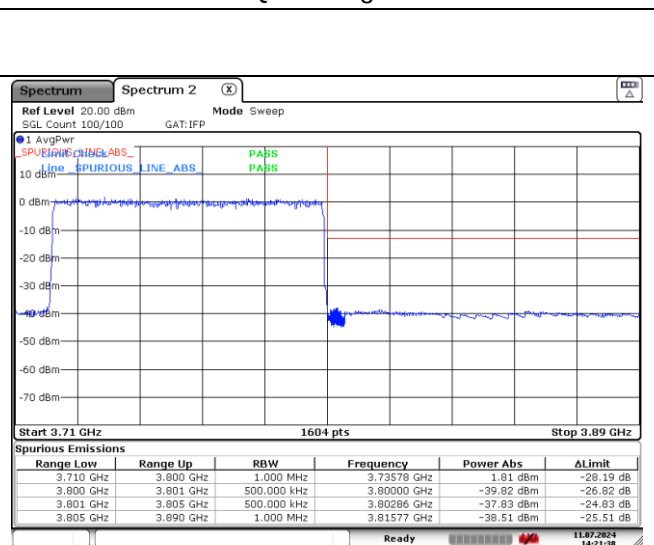
### DFT-S-OFDM 16QAM - Low Channel - Full RB



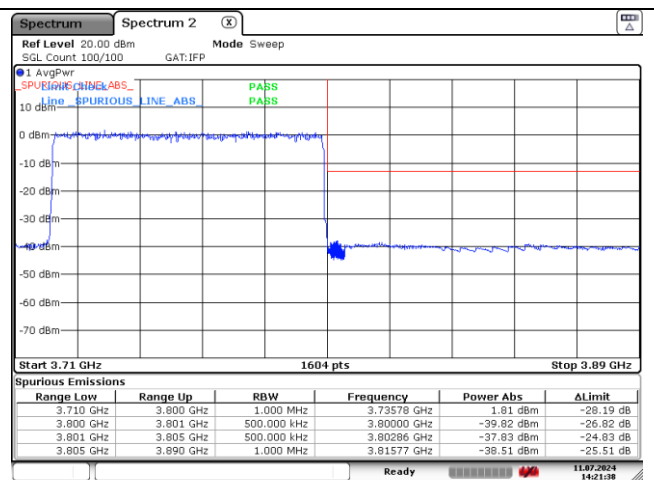
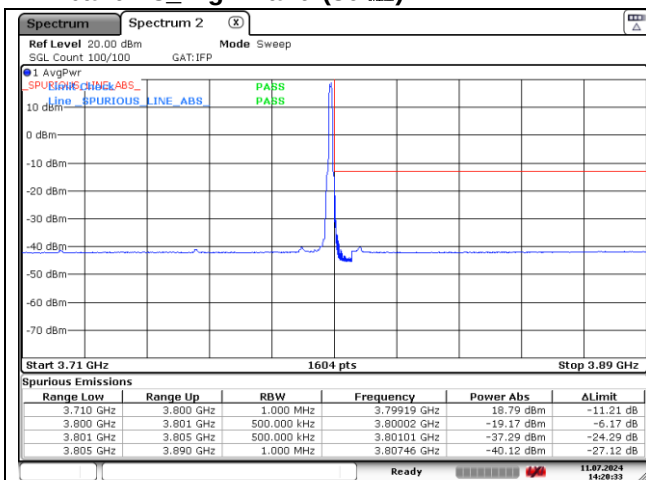
### DFT-S-OFDM 16QAM - High Channel - 1 RB



### DFT-S-OFDM 16QAM - High Channel - Full RB



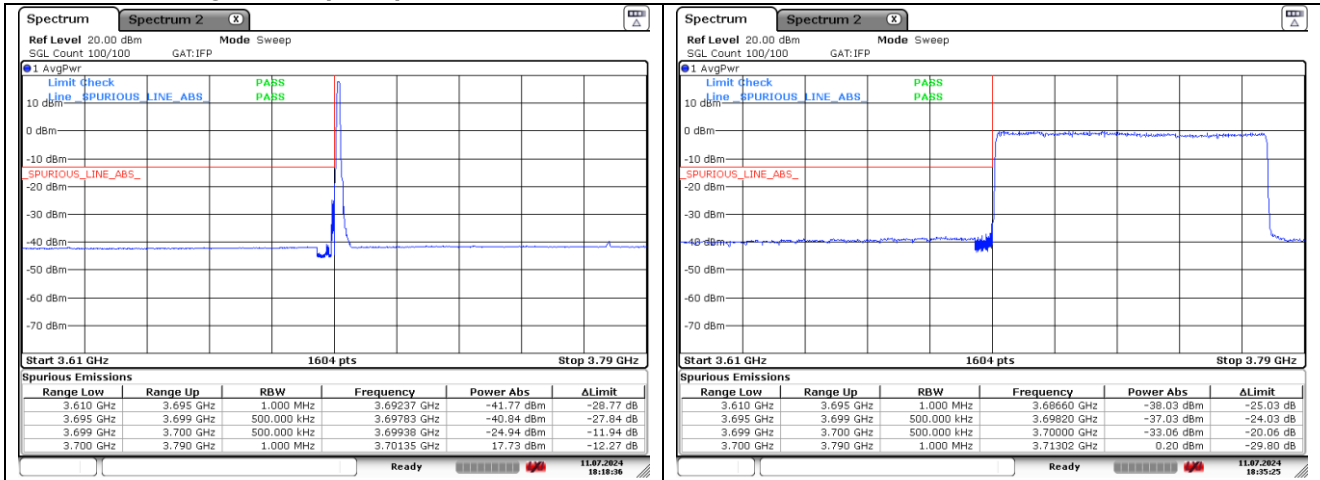
### NR band 78\_High Band (80 MHz)



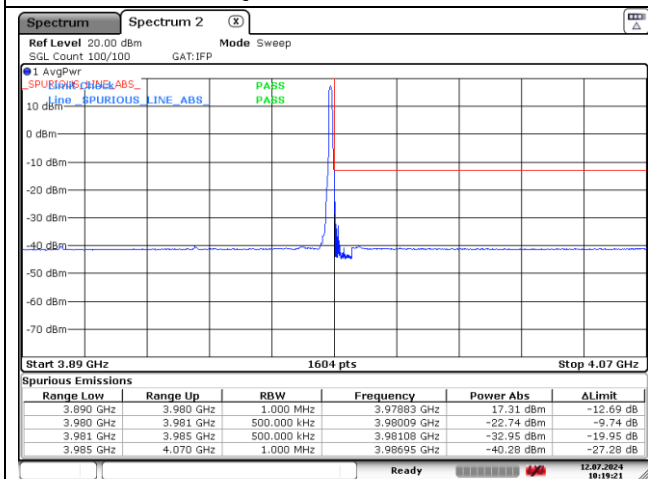
### DFT-S-OFDM 16QAM - High Channel - 1 RB

### DFT-S-OFDM 16QAM - High Channel - Full RB

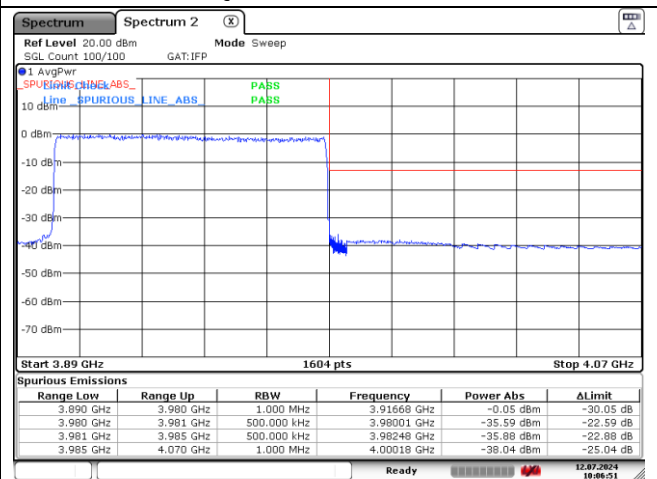
### NR band 77\_High Band (80 MHz)



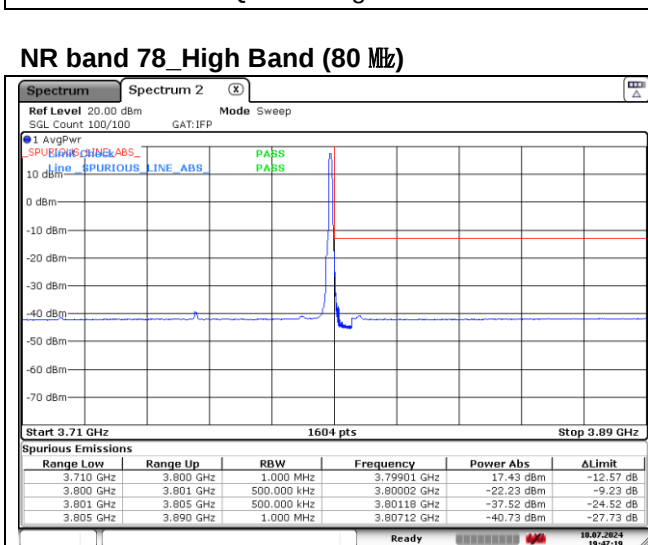
### CP-OFDM QPSK - Low Channel - 1 RB



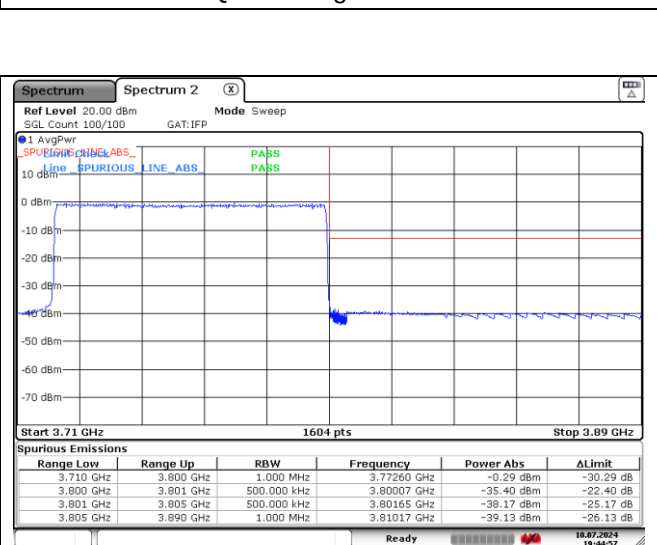
### CP-OFDM QPSK - Low Channel - Full RB



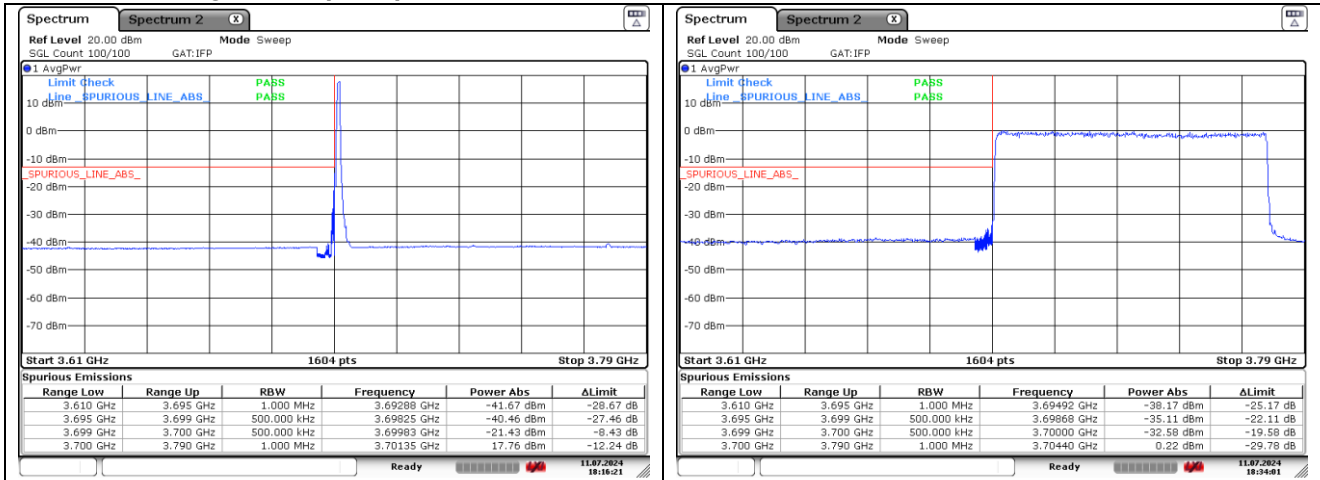
### CP-OFDM QPSK - High Channel - 1 RB



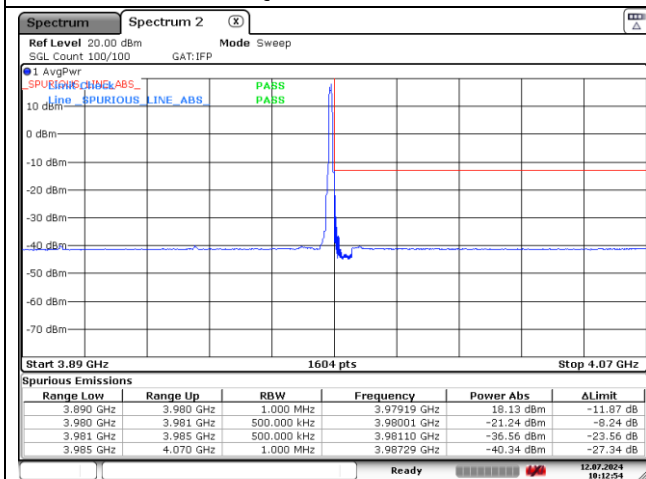
### CP-OFDM QPSK - High Channel - Full RB



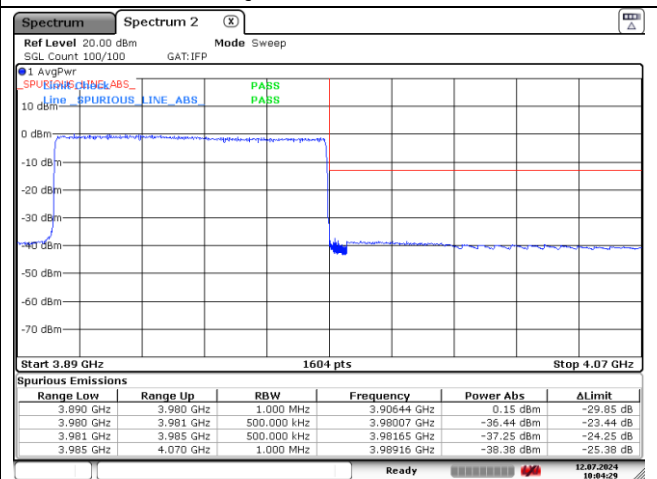
### NR band 77\_High Band (80 MHz)



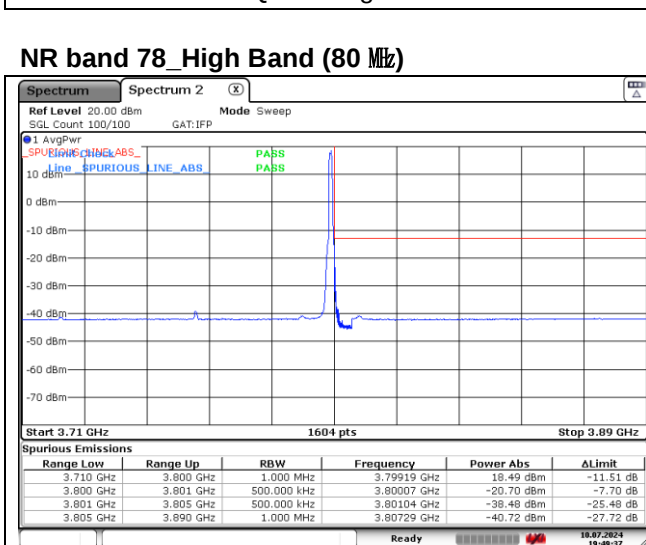
### CP-OFDM 16QAM - Low Channel - 1 RB



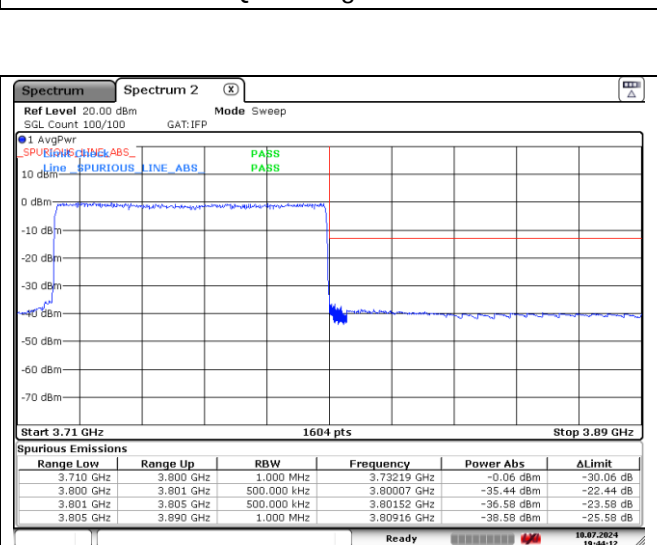
### CP-OFDM 16QAM - Low Channel - Full RB



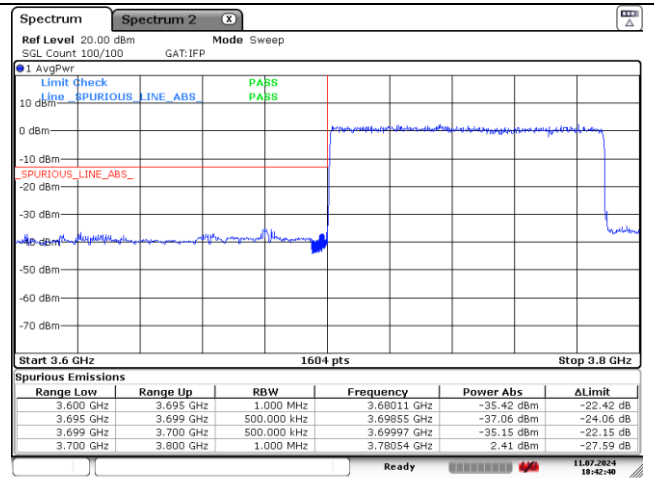
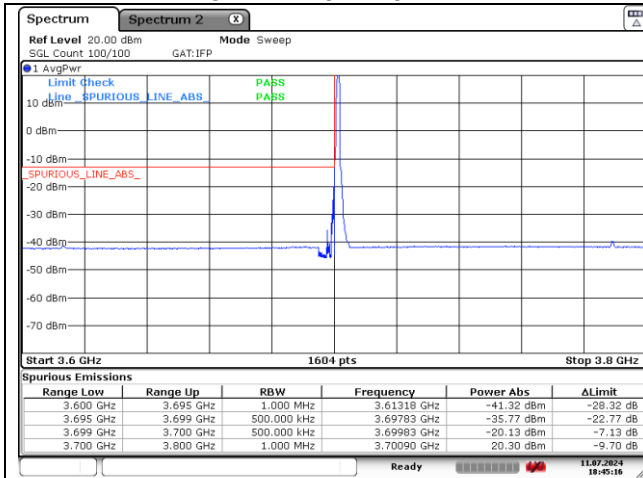
### CP-OFDM 16QAM - High Channel - 1 RB



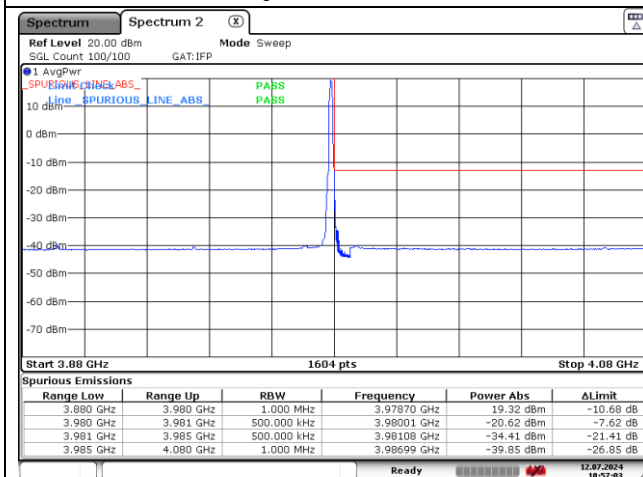
### CP-OFDM 16QAM - High Channel - Full RB



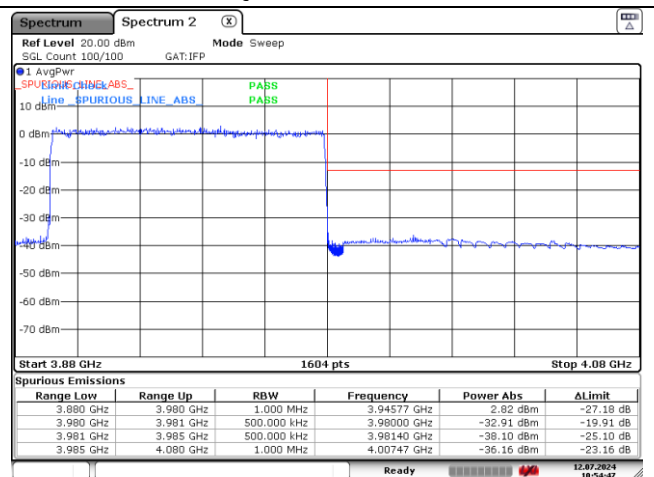
### NR band 77\_High Band (90 MHz)



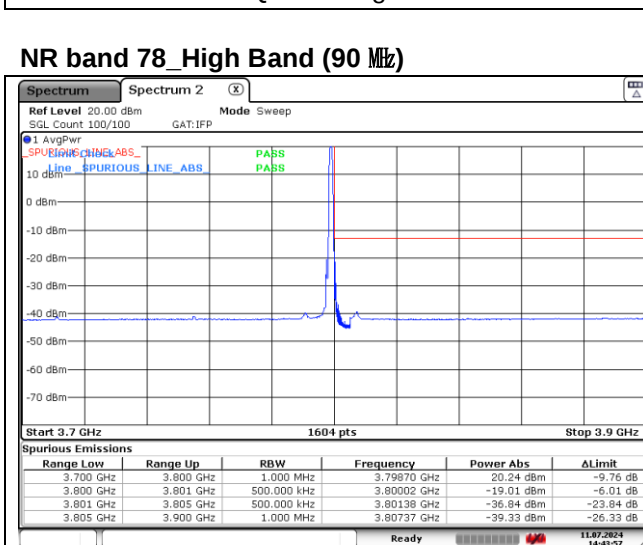
### DFT-S-OFDM QPSK - Low Channel - 1 RB



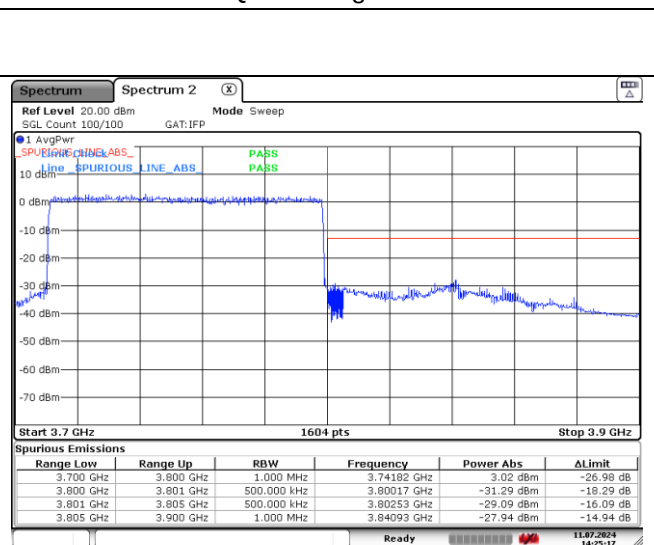
### DFT-S-OFDM QPSK - Low Channel - Full RB



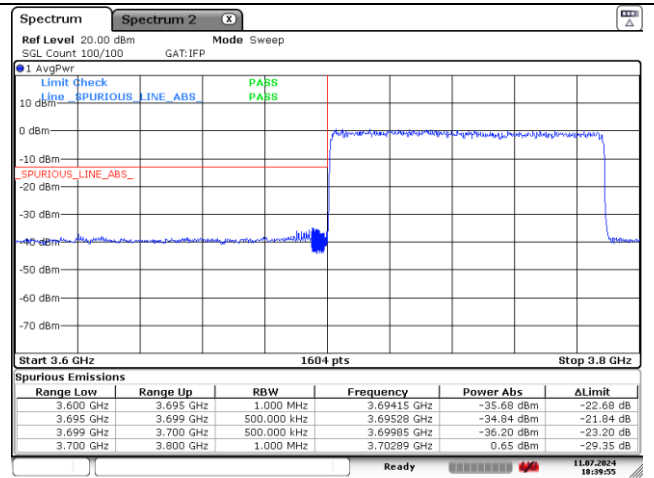
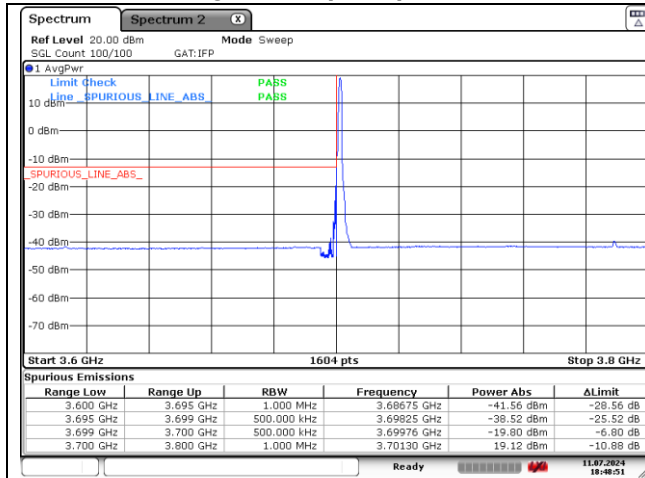
### DFT-S-OFDM QPSK - High Channel - 1 RB



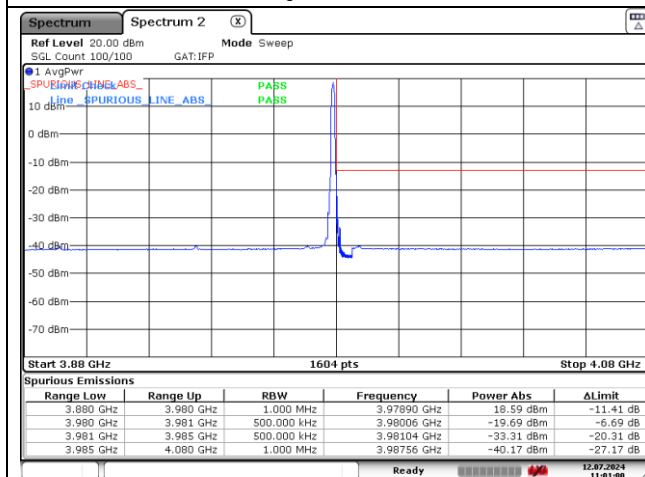
### DFT-S-OFDM QPSK - High Channel - Full RB



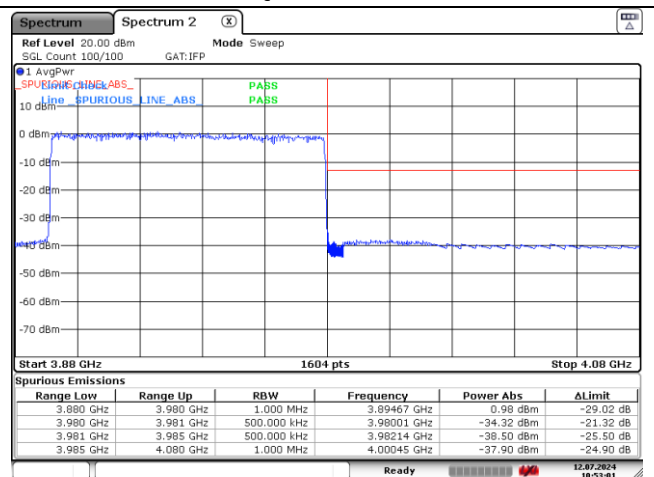
### NR band 77\_High Band (90 MHz)



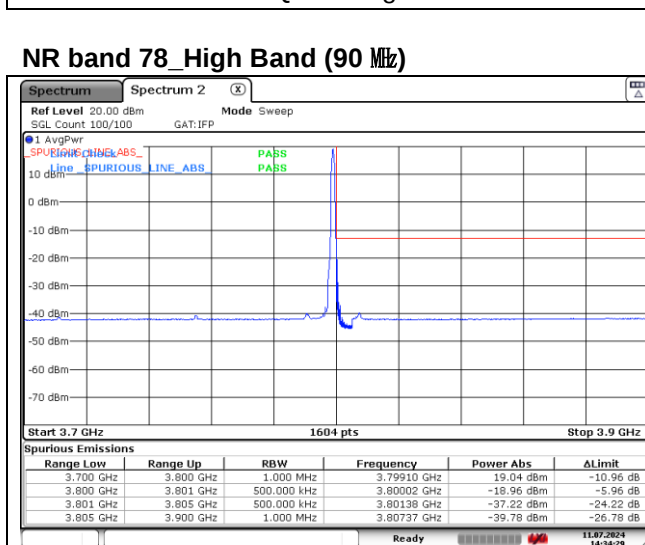
### DFT-S-OFDM 16QAM - Low Channel - 1 RB



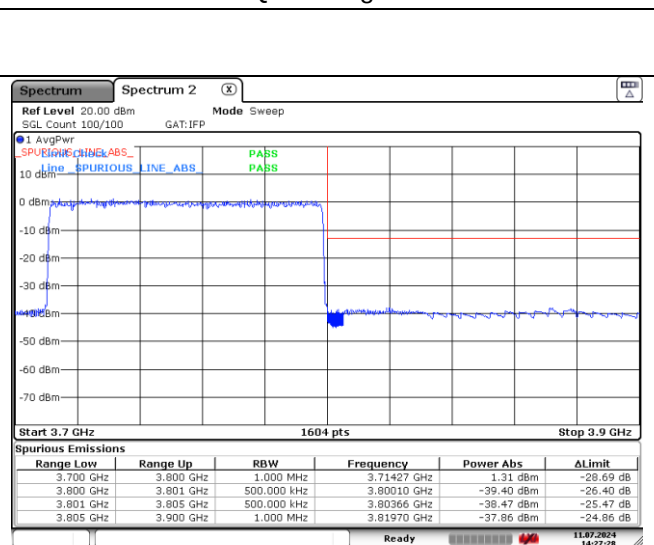
### DFT-S-OFDM 16QAM - Low Channel - Full RB



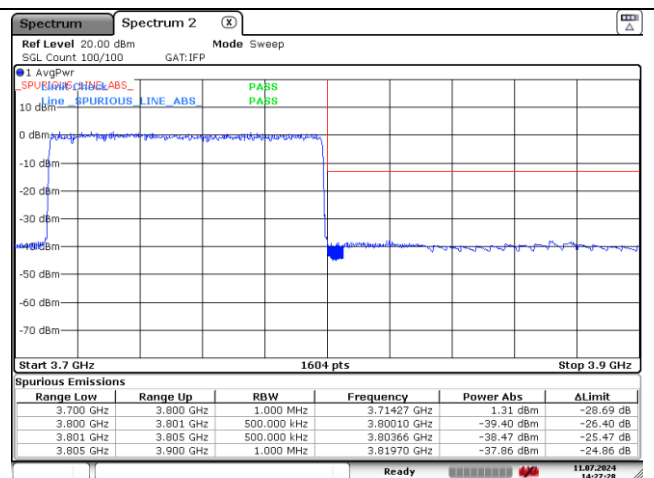
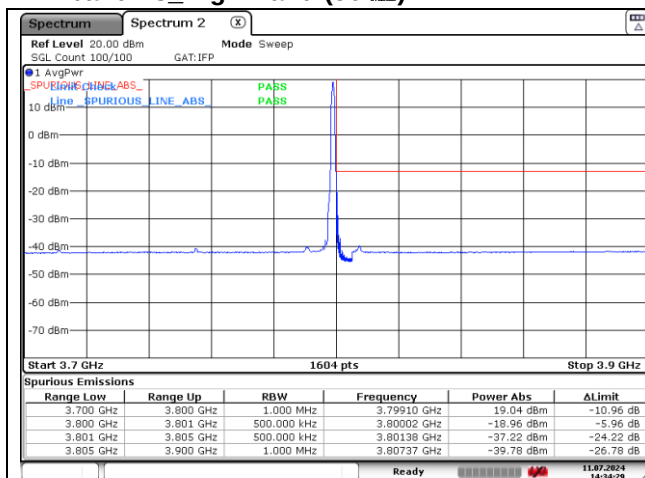
### DFT-S-OFDM 16QAM - High Channel - 1 RB



### DFT-S-OFDM 16QAM - High Channel - Full RB



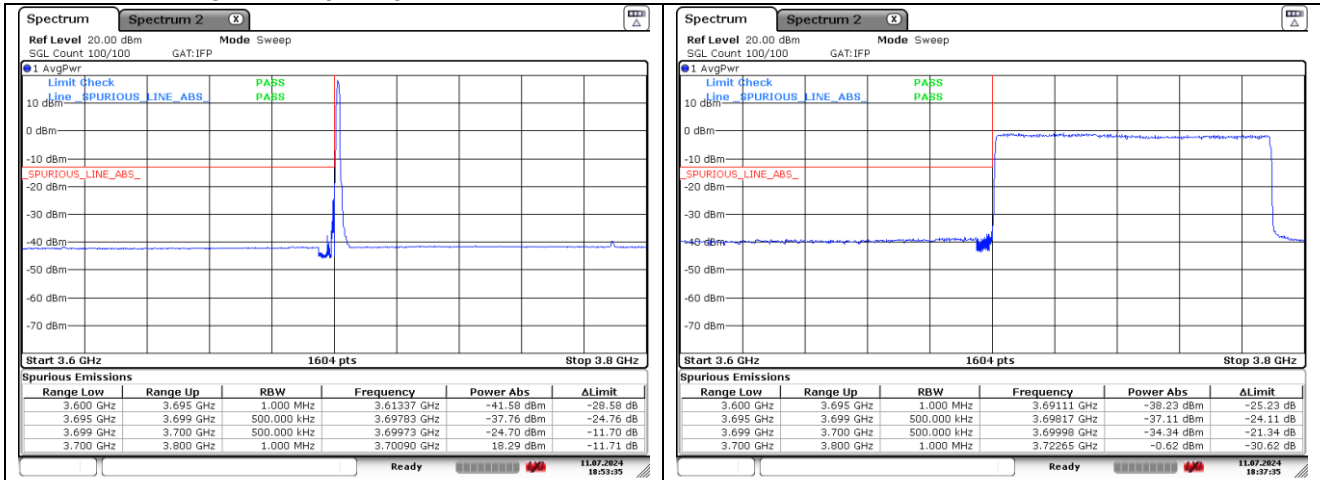
### NR band 78\_High Band (90 MHz)



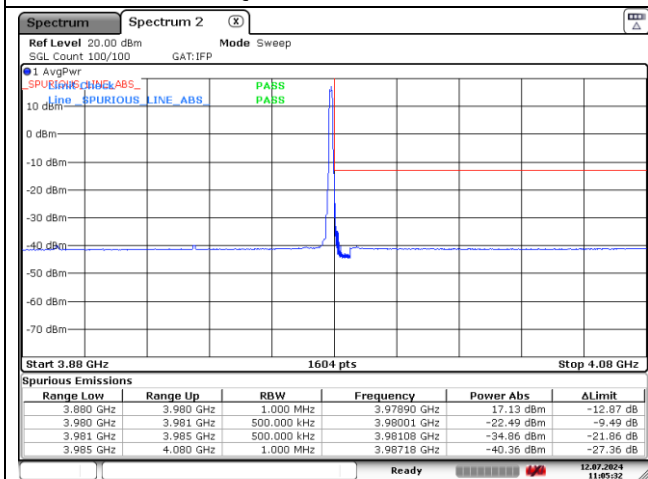
### DFT-S-OFDM 16QAM - High Channel - 1 RB

### DFT-S-OFDM 16QAM - High Channel - Full RB

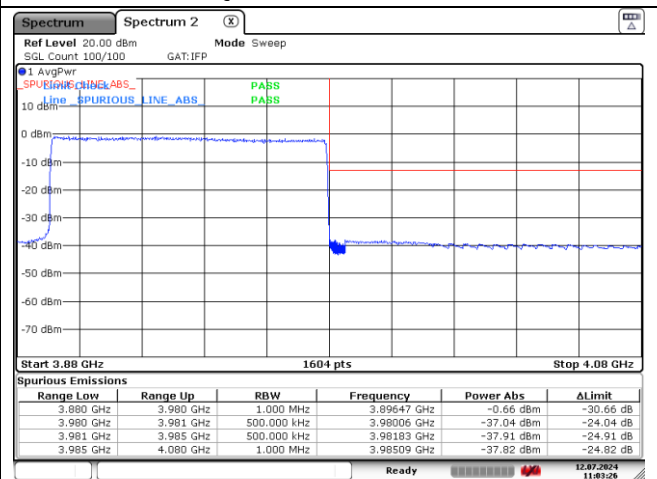
### NR band 77\_High Band (90 MHz)



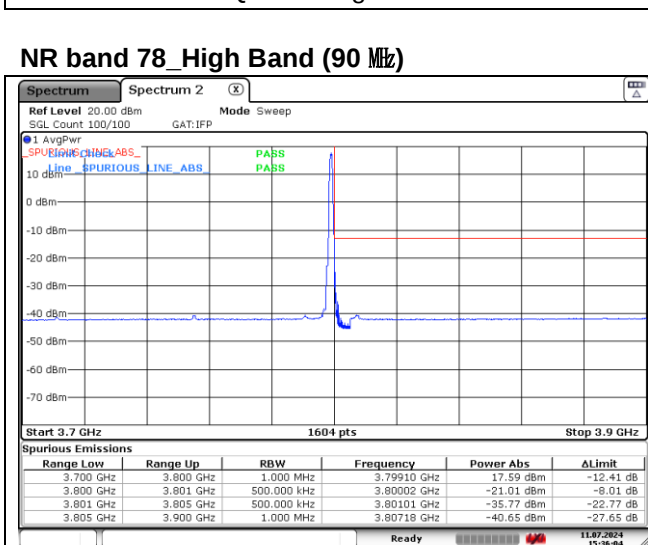
### CP-OFDM QPSK - Low Channel - 1 RB



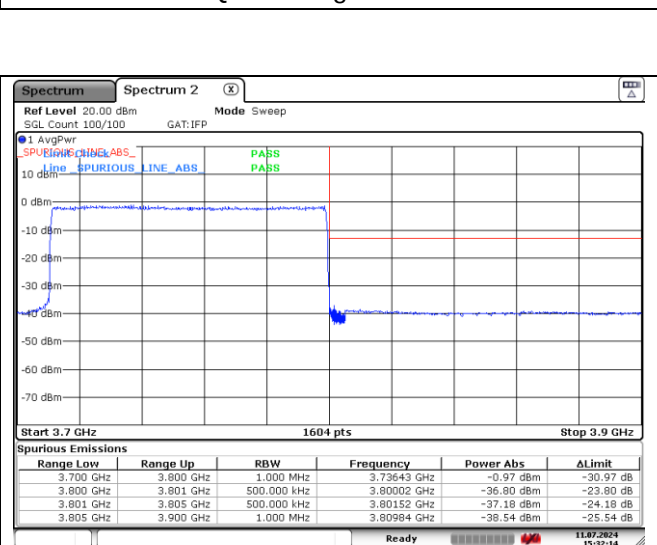
### CP-OFDM QPSK - Low Channel - Full RB



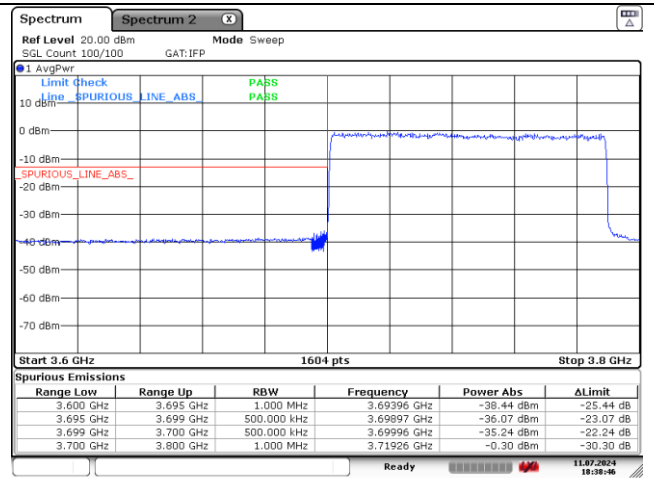
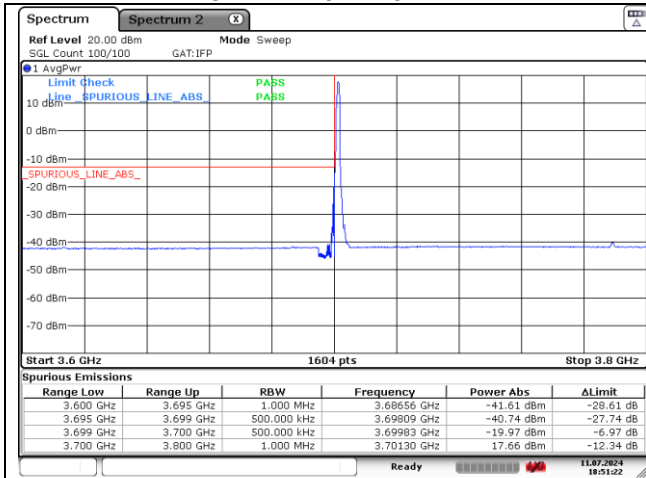
### CP-OFDM QPSK - High Channel - 1 RB



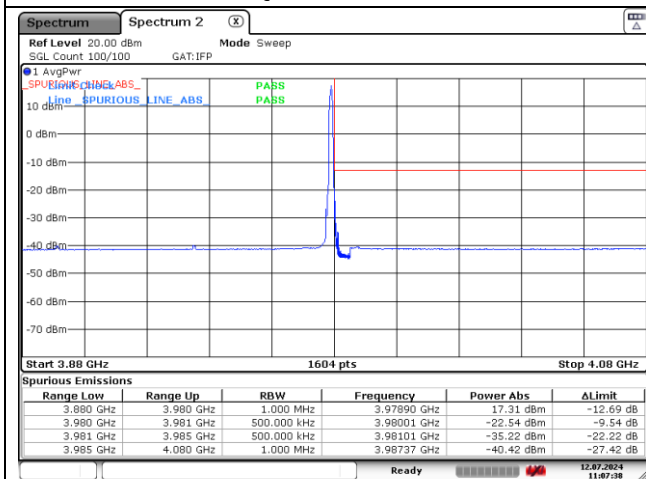
### CP-OFDM QPSK - High Channel - Full RB



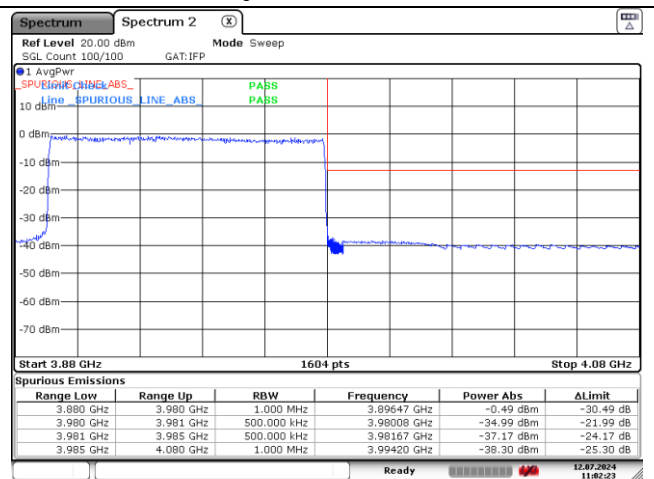
### NR band 77\_High Band (90 MHz)



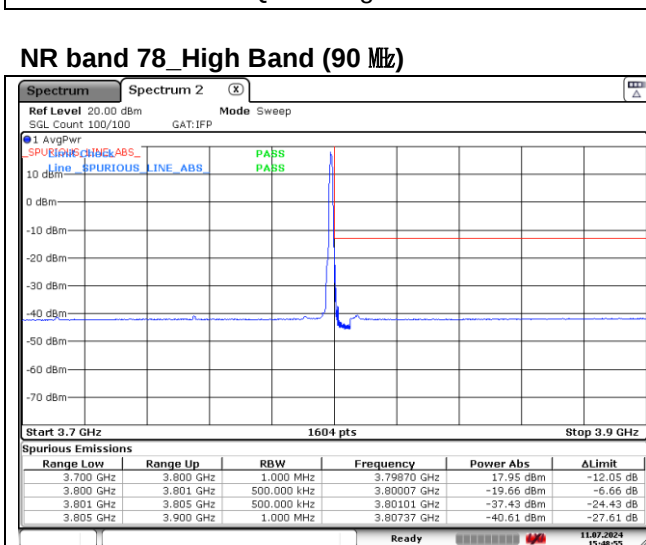
### CP-OFDM 16QAM - Low Channel - 1 RB



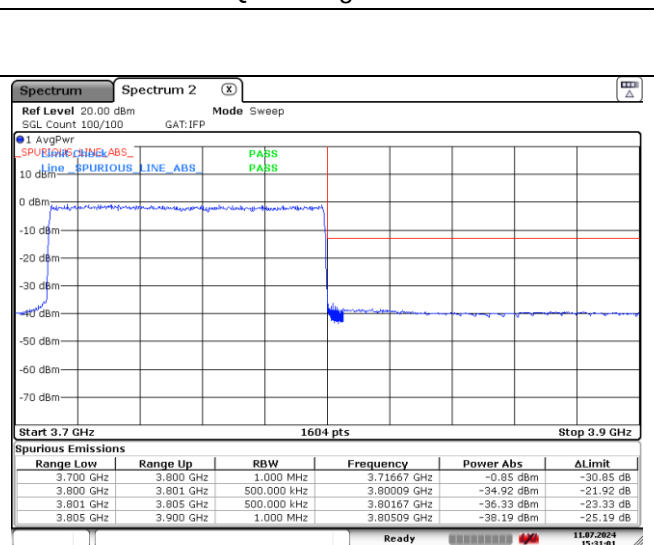
### CP-OFDM 16QAM - Low Channel - Full RB



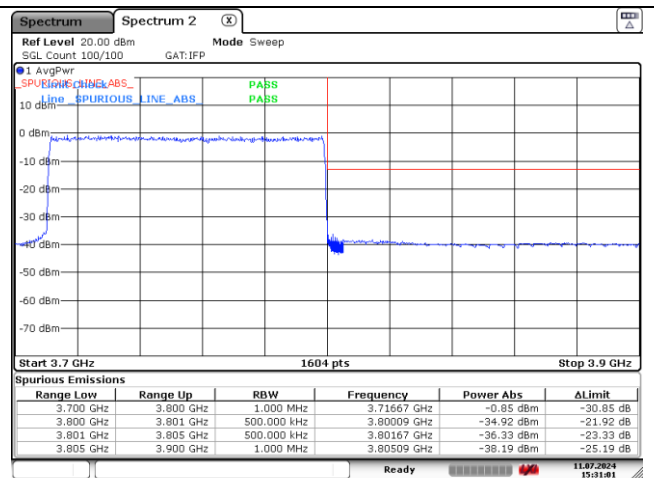
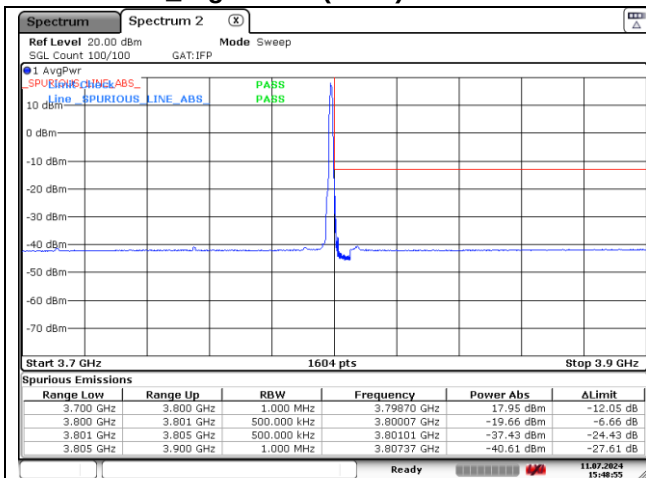
### CP-OFDM 16QAM - High Channel - 1 RB



### CP-OFDM 16QAM - High Channel - Full RB



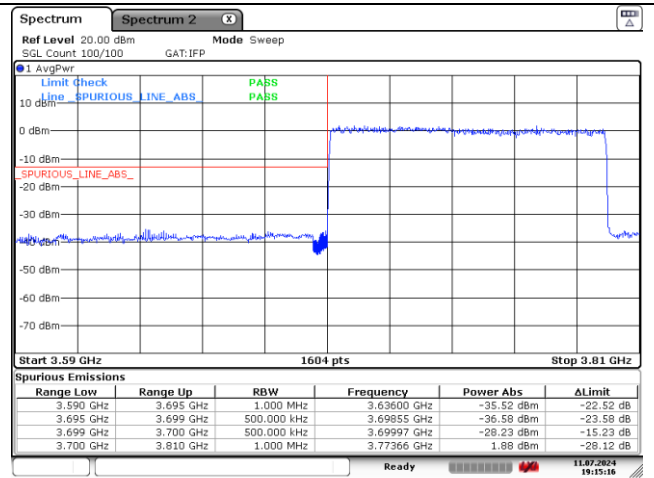
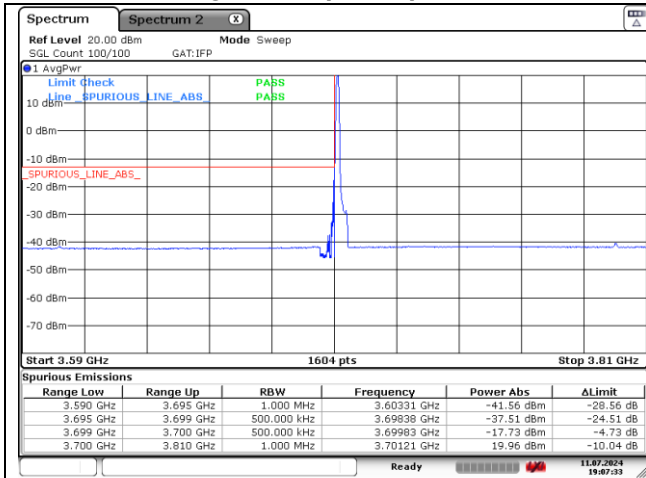
### NR band 78\_High Band (90 MHz)



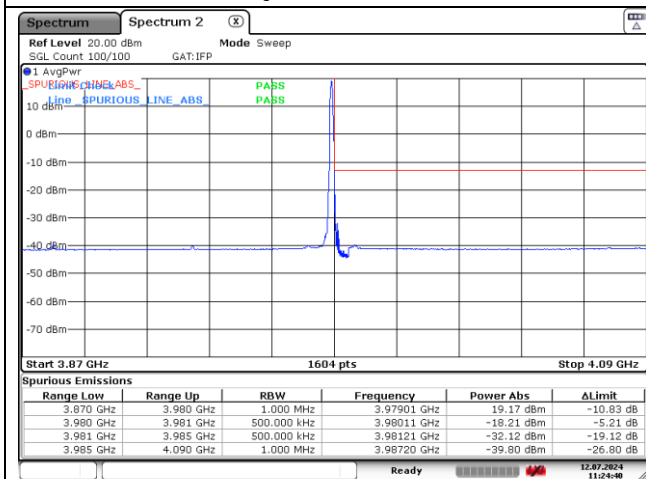
### CP-OFDM 16QAM - High Channel - 1 RB

### CP-OFDM 16QAM - High Channel - Full RB

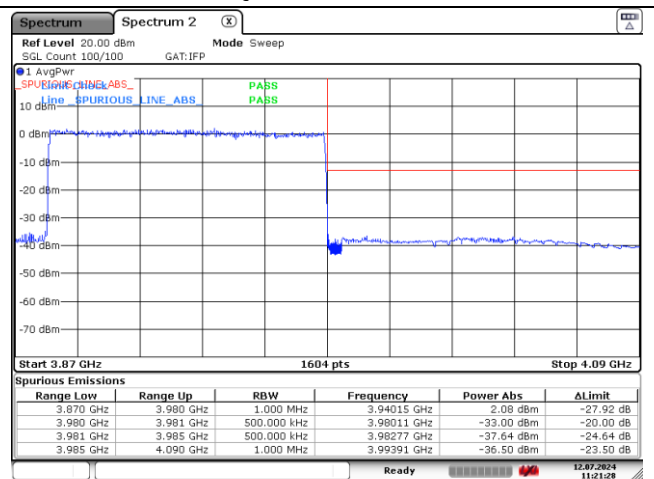
### NR band 77\_High Band (100 MHz)



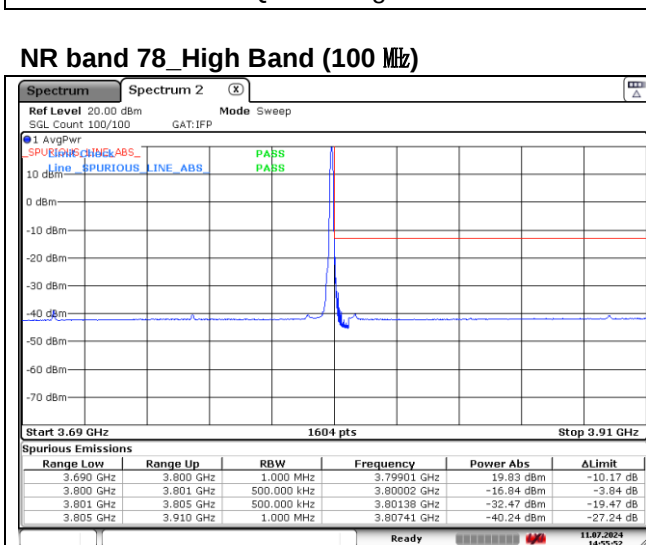
### DFT-S-OFDM QPSK - Low Channel - 1 RB



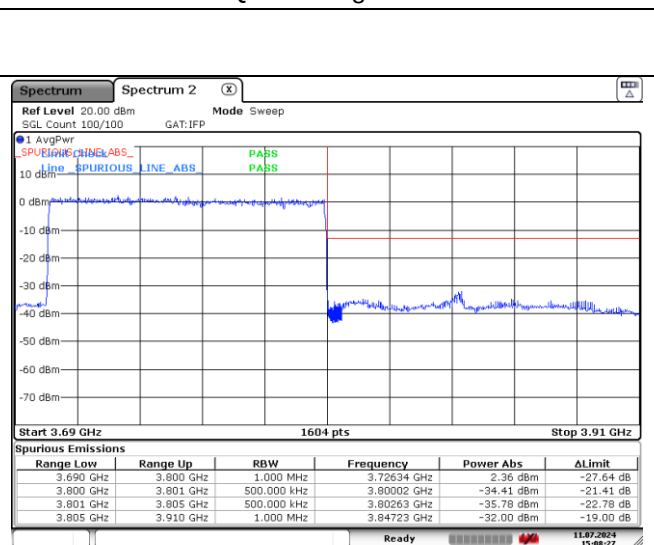
### DFT-S-OFDM QPSK - Low Channel - Full RB



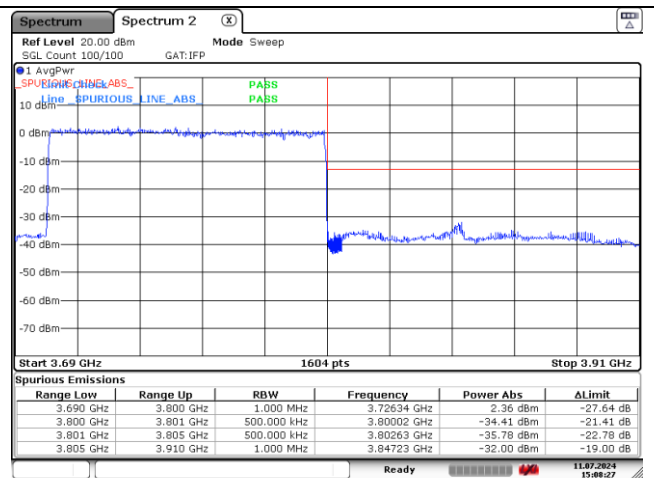
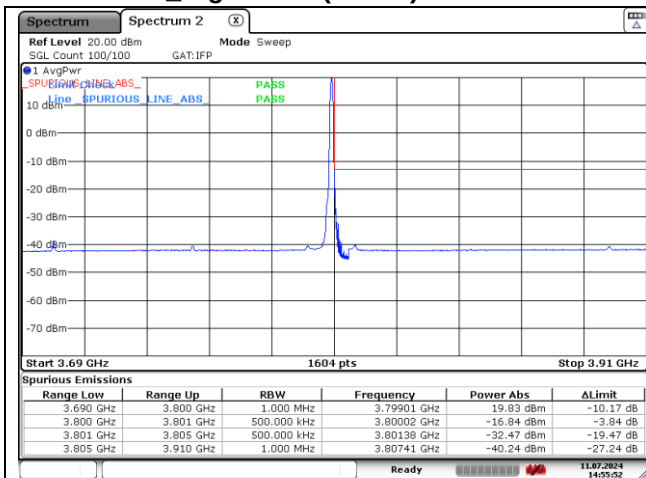
### DFT-S-OFDM QPSK - High Channel - 1 RB



### DFT-S-OFDM QPSK - High Channel - Full RB



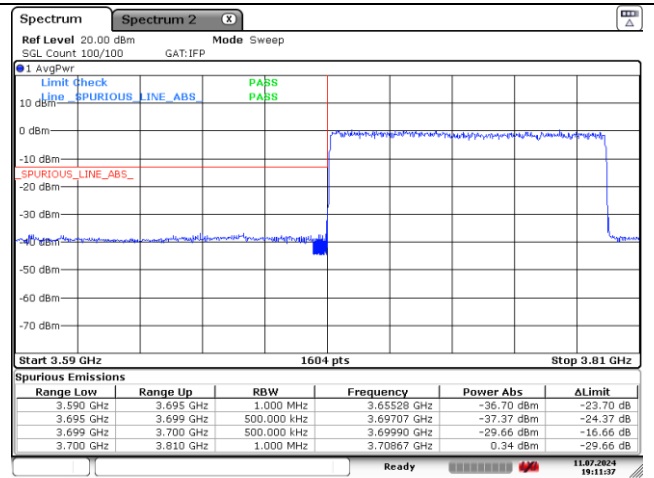
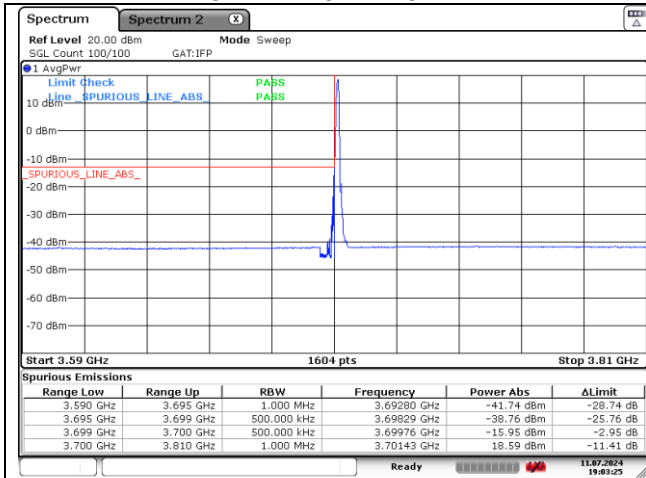
### NR band 78\_High Band (100 MHz)



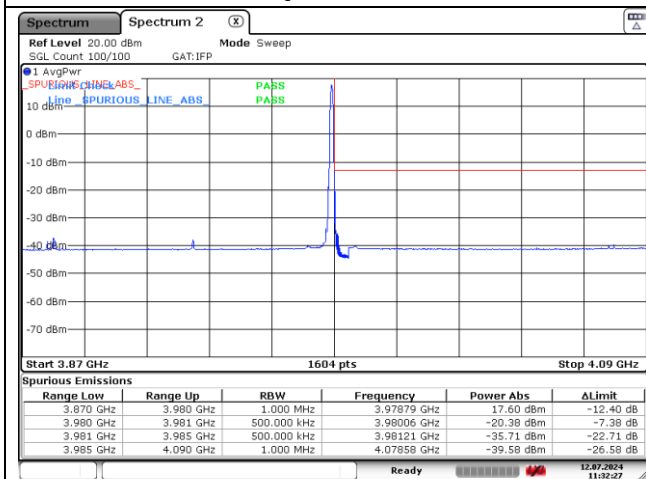
### DFT-S-OFDM QPSK - High Channel - 1 RB

### DFT-S-OFDM QPSK - High Channel - Full RB

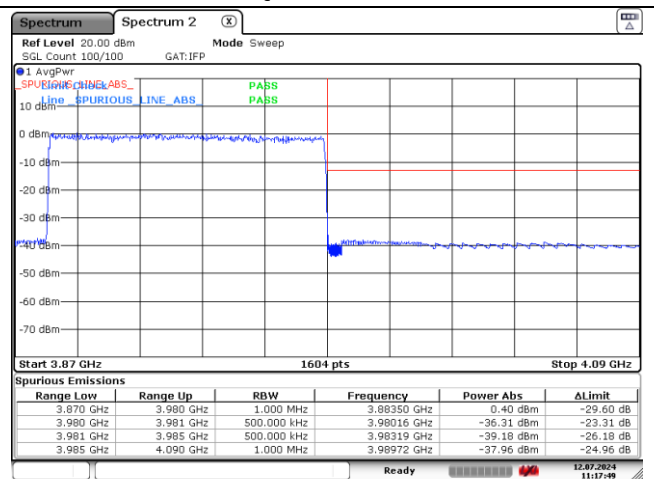
### NR band 77\_High Band (100 MHz)



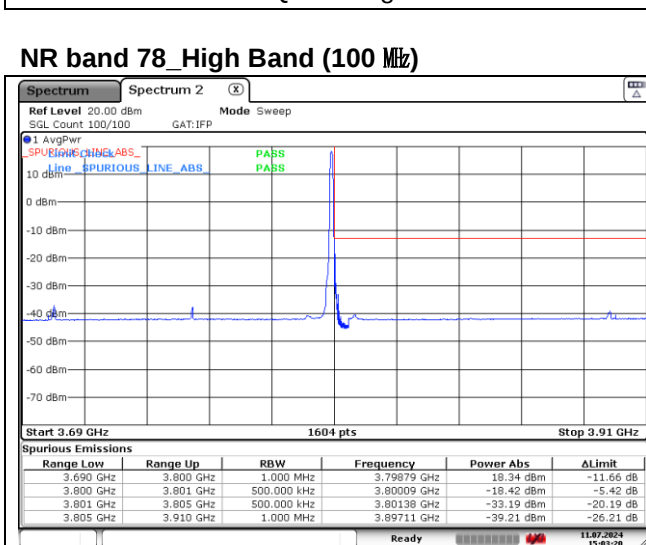
### DFT-S-OFDM 16QAM - Low Channel - 1 RB



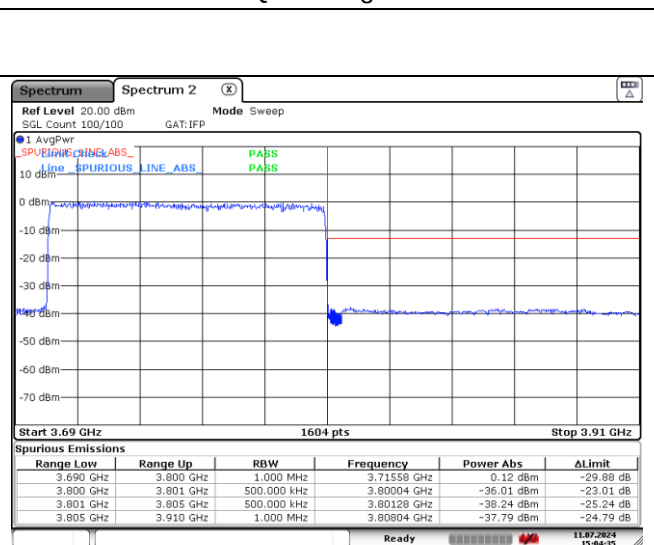
### DFT-S-OFDM 16QAM - Low Channel - Full RB



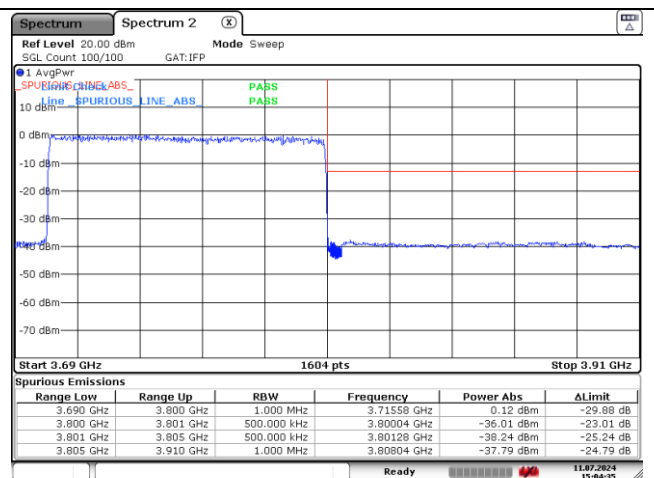
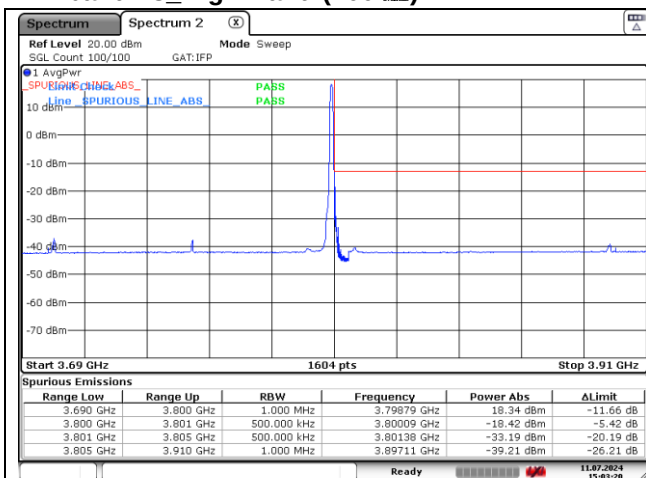
### DFT-S-OFDM 16QAM - High Channel - 1 RB



### DFT-S-OFDM 16QAM - High Channel - Full RB



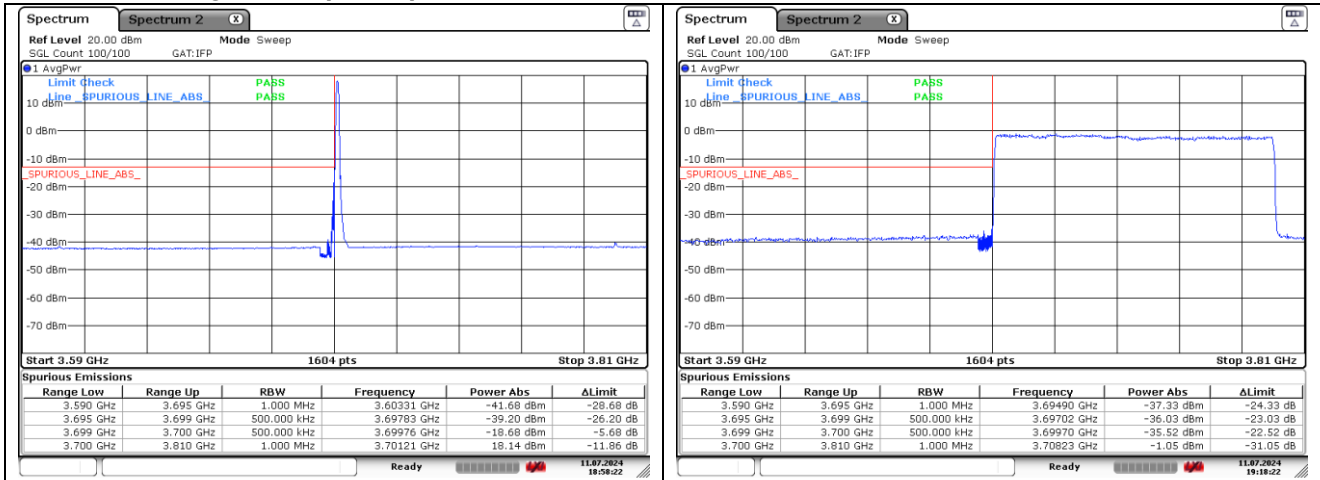
### NR band 78\_High Band (100 MHz)



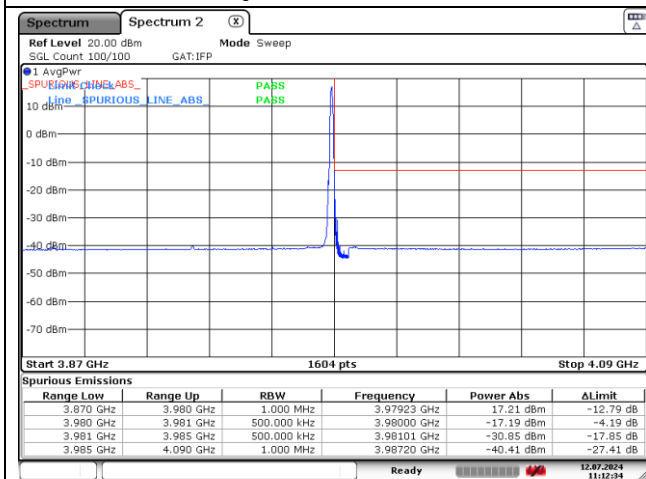
### DFT-S-OFDM 16QAM - High Channel - 1 RB

### DFT-S-OFDM 16QAM - High Channel - Full RB

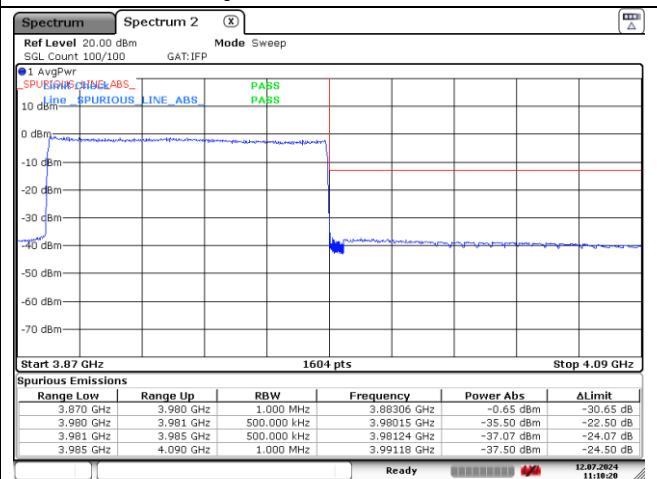
### NR band 77\_High Band (100 MHz)



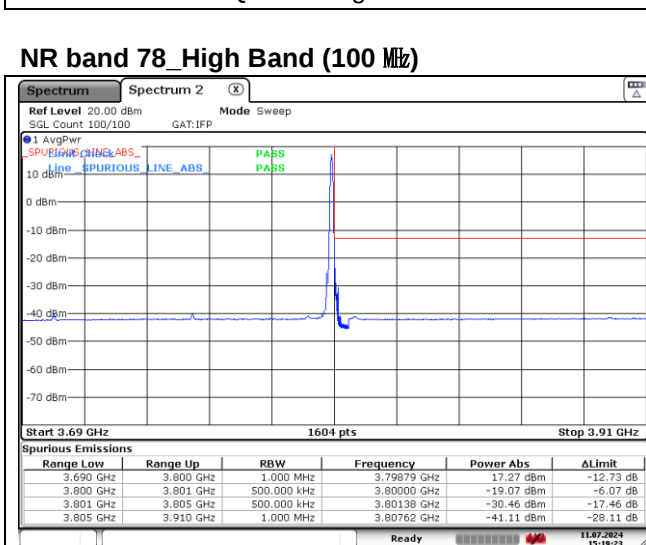
### CP-OFDM QPSK - Low Channel - 1 RB



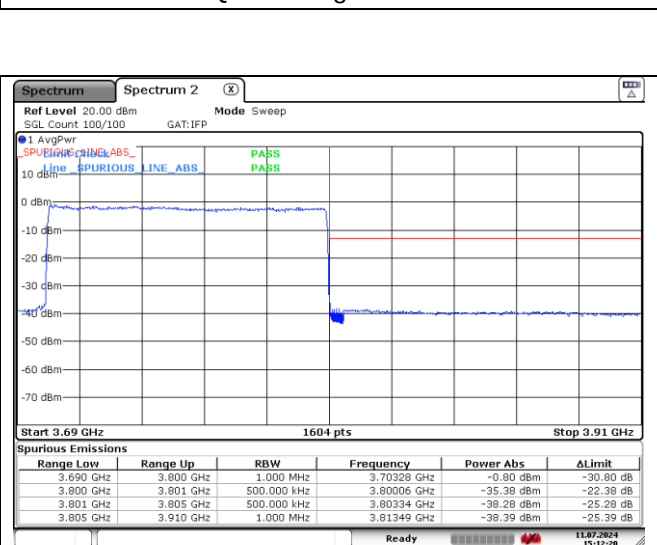
### CP-OFDM QPSK - Low Channel - Full RB



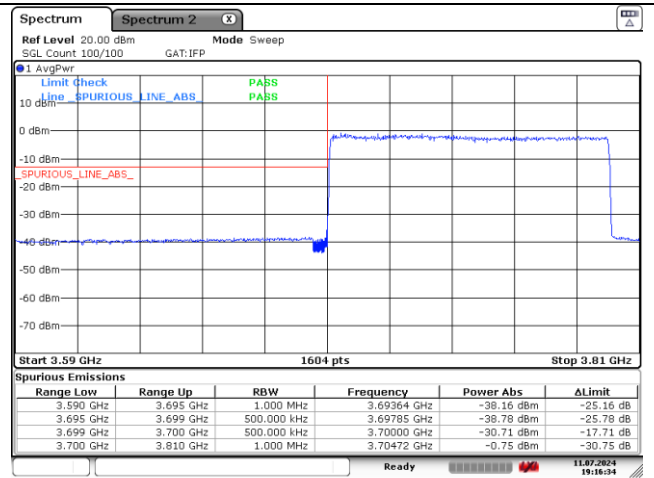
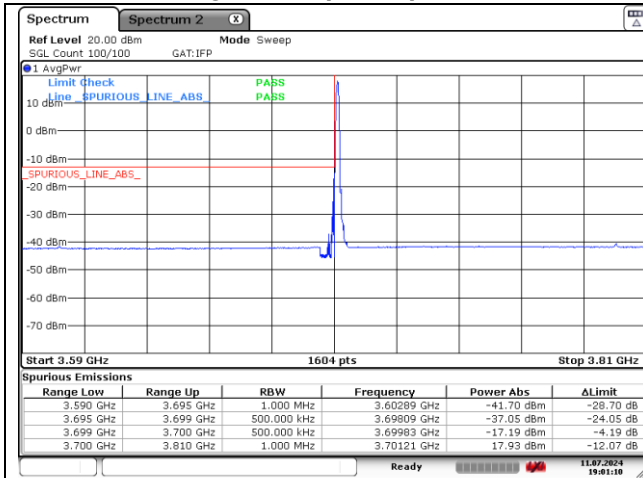
### CP-OFDM QPSK - High Channel - 1 RB



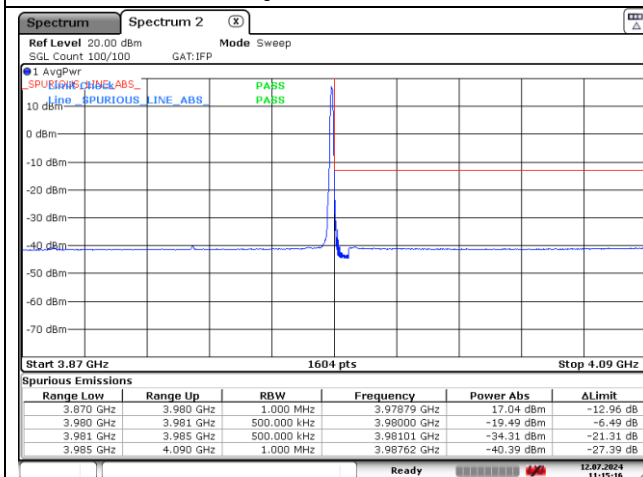
### CP-OFDM QPSK - High Channel - Full RB



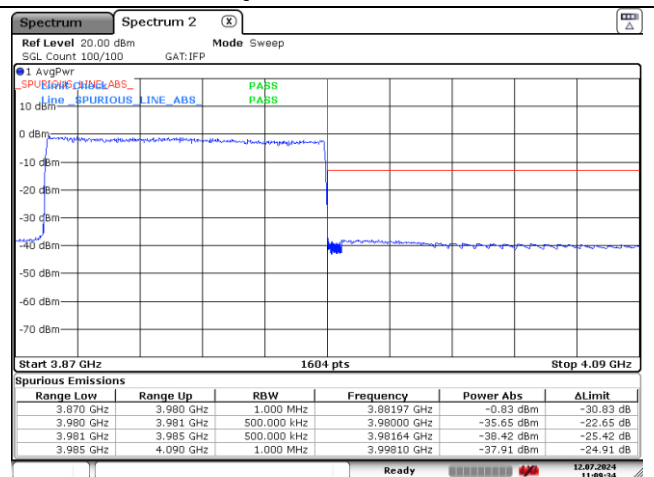
### NR band 77\_High Band (100 MHz)



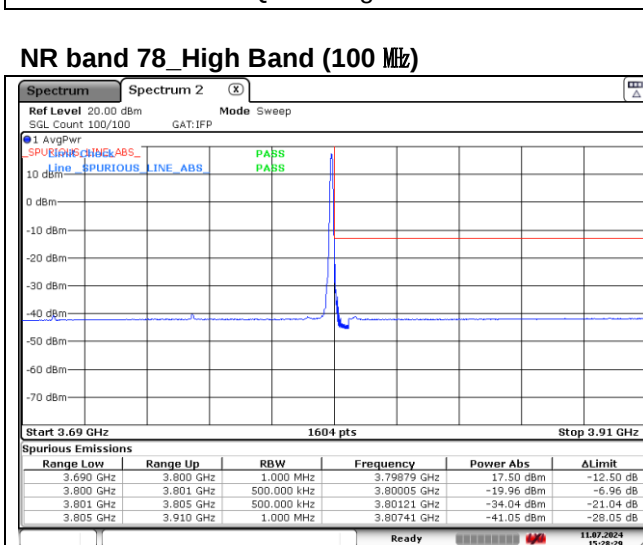
### CP-OFDM 16QAM - Low Channel - 1 RB



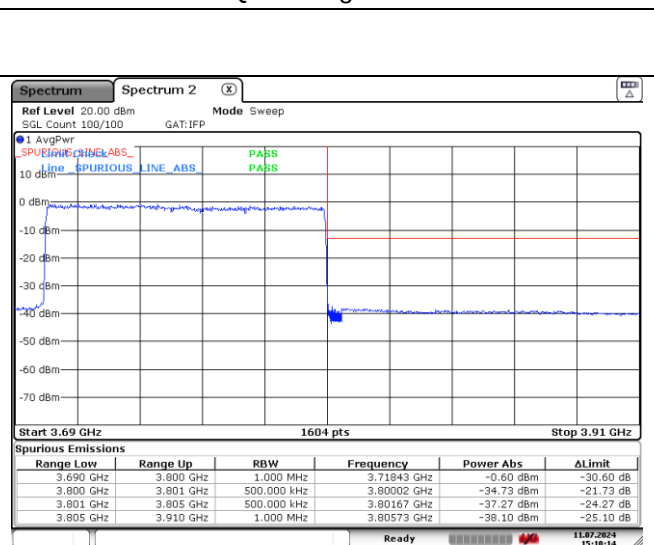
### CP-OFDM 16QAM - Low Channel - Full RB



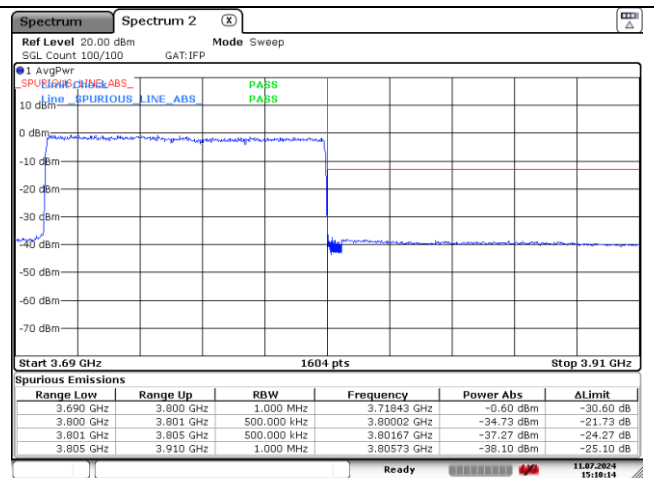
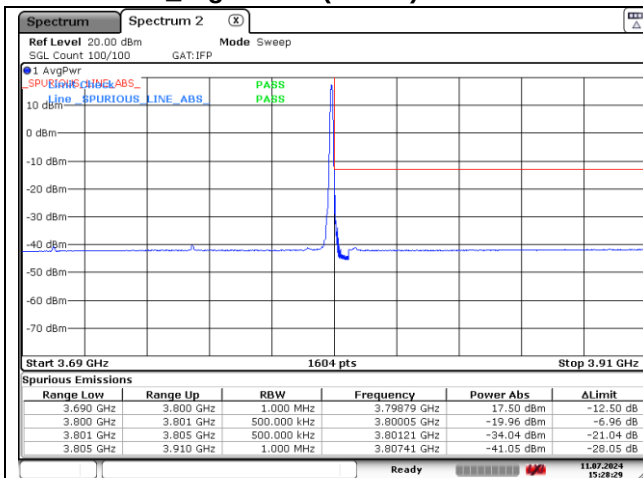
### CP-OFDM 16QAM - High Channel - 1 RB



### 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

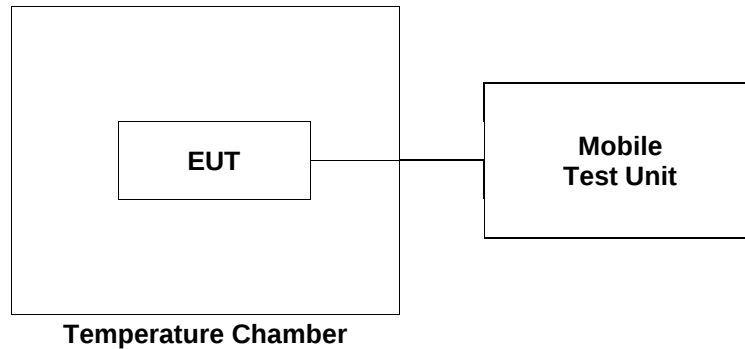
### 8.1. Limit

- § 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 :  $(23 \pm 1) ^\circ\text{C}$   
 Relative humidity : 47 % R.H.

#### NR band 7 at middle channel

| Reference Frequency: 2 535 MHz          |                    |                                    |           |
|-----------------------------------------|--------------------|------------------------------------|-----------|
| Frequency Stability versus Temperature  |                    |                                    |           |
| Environment Temperature (°C)            | Power Supplied (V) | Frequency Measure with Time Elapse |           |
|                                         |                    | Frequency Error (Hz)               | ppm       |
| 50                                      | 4.10               | -8.70                              | -0.000 75 |
| 40                                      |                    | -10.30                             | -0.001 38 |
| 30                                      |                    | -12.50                             | -0.002 25 |
| 20(Ref.)                                |                    | -6.80                              | -         |
| 10                                      |                    | -5.50                              | 0.000 51  |
| 0                                       |                    | -8.60                              | -0.000 71 |
| -10                                     |                    | -5.10                              | 0.000 67  |
| -20                                     |                    | -9.90                              | -0.001 22 |
| -30                                     |                    | -11.80                             | -0.001 97 |
| Frequency Stability versus Power Supply |                    |                                    |           |
| Environment Temperature (°C)            | Power Supplied (V) | Frequency Measure with Time Elapse |           |
|                                         |                    | Frequency Error (Hz)               | ppm       |
| 20                                      | 3.49 (85%)         | -11.70                             | -0.001 93 |
|                                         | 4.72 (115%)        | -10.10                             | -0.001 30 |

**NR band 41 at middle channel**

| Reference Frequency: 2 592.99 MHz       |                    |                                    |           |
|-----------------------------------------|--------------------|------------------------------------|-----------|
| Frequency Stability versus Temperature  |                    |                                    |           |
| Environment Temperature (°C)            | Power Supplied (V) | Frequency Measure with Time Elapse |           |
|                                         |                    | Frequency Error (Hz)               | ppm       |
| 50                                      | 4.10               | -7.70                              | -0.000 31 |
| 40                                      |                    | -5.40                              | 0.000 58  |
| 30                                      |                    | -8.60                              | -0.000 66 |
| 20(Ref.)                                |                    | -6.90                              | -         |
| 10                                      |                    | -9.80                              | -0.001 12 |
| 0                                       |                    | -11.50                             | -0.001 77 |
| -10                                     |                    | -9.20                              | -0.000 89 |
| -20                                     |                    | -9.10                              | -0.000 85 |
| -30                                     |                    | -13.90                             | -0.002 70 |
| Frequency Stability versus Power Supply |                    |                                    |           |
| Environment Temperature (°C)            | Power Supplied (V) | Frequency Measure with Time Elapse |           |
|                                         |                    | Frequency Error (Hz)               | ppm       |
| 20                                      | 3.49 (85%)         | 5.90                               | 0.004 94  |
|                                         | 4.72 (115%)        | -4.60                              | 0.000 89  |

**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                                      | 4.10               | -9.20                              | -0.000 83 |
| 40                                      |                    | -8.70                              | -0.000 69 |
| 30                                      |                    | -10.20                             | -0.001 11 |
| 20(Ref.)                                |                    | -6.30                              | -         |
| 10                                      |                    | -9.90                              | -0.001 03 |
| 0                                       |                    | -7.70                              | -0.000 40 |
| -10                                     |                    | -9.80                              | -0.001 00 |
| -20                                     |                    | -9.60                              | -0.000 94 |
| -30                                     |                    | -12.60                             | -0.001 80 |
| Frequency Stability versus Power Supply |                    |                                    |           |
| Environment Temperature (°C)            | Power Supplied (V) | Frequency Measure with Time Elapse |           |
|                                         |                    | Frequency Error (Hz)               | ppm       |
| 20                                      | 3.49 (85%)         | -7.20                              | -0.000 26 |
|                                         | 4.72 (115%)        | -5.90                              | 0.000 11  |

**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                                      | 4.10               | -10.70                             | -0.001 09 |
| 40                                      |                    | -9.90                              | -0.000 89 |
| 30                                      |                    | -9.60                              | -0.000 81 |
| 20(Ref.)                                |                    | -6.50                              | -         |
| 10                                      |                    | -8.00                              | -0.000 39 |
| 0                                       |                    | -11.70                             | -0.001 35 |
| -10                                     |                    | -10.80                             | -0.001 12 |
| -20                                     |                    | -10.90                             | -0.001 15 |
| -30                                     |                    | -11.90                             | -0.001 41 |
| Frequency Stability versus Power Supply |                    |                                    |           |
| Environment Temperature (°C)            | Power Supplied (V) | Frequency Measure with Time Elapse |           |
|                                         |                    | Frequency Error (Hz)               | ppm       |
| 20                                      | 3.49 (85%)         | -7.70                              | -0.000 31 |
|                                         | 4.72 (115%)        | -8.40                              | -0.000 49 |

- End of the Test Report -