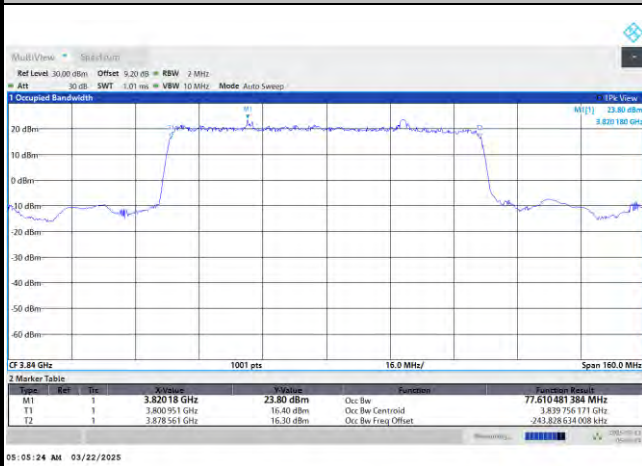




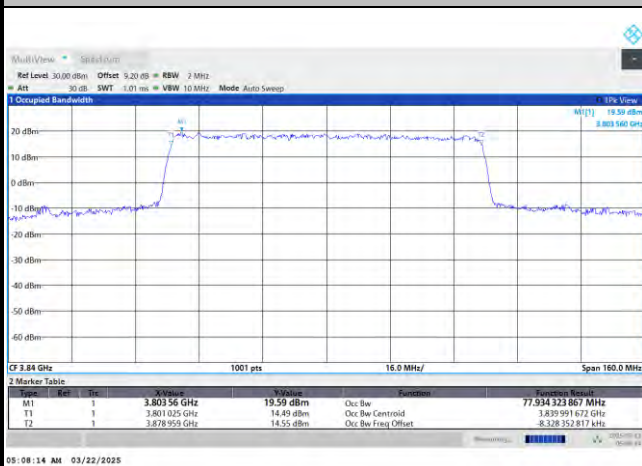
## FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

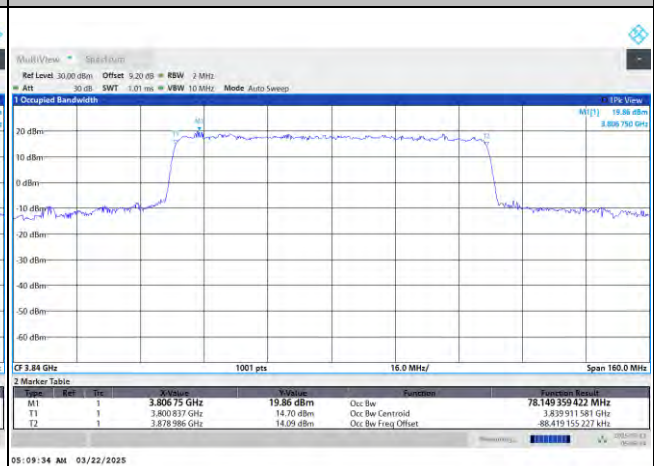


## FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

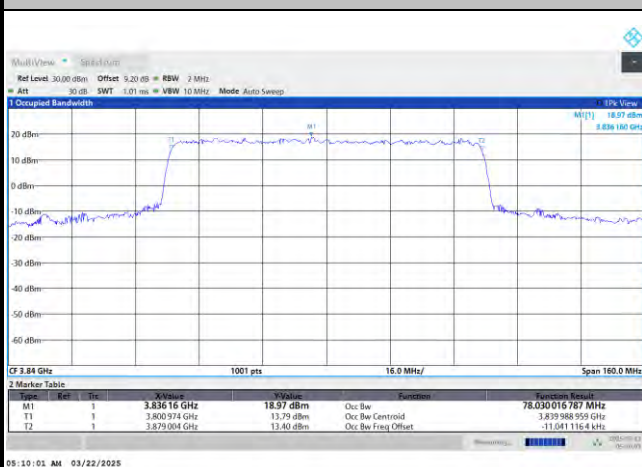
## QPSK



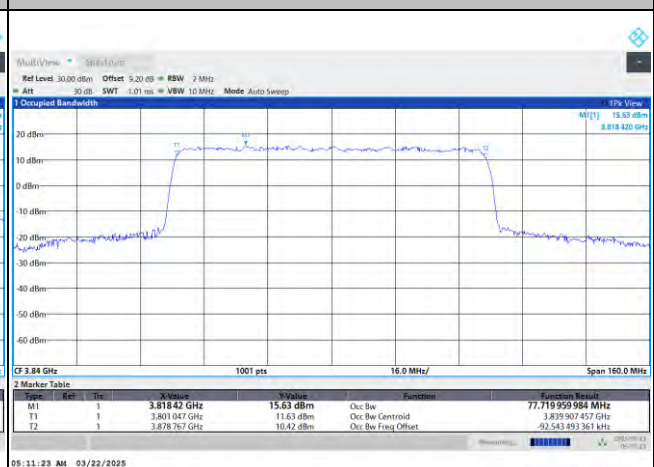
## 16QAM



## 64QAM



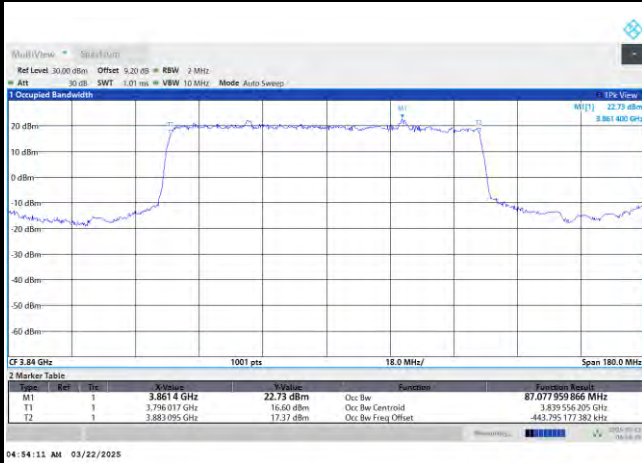
## 256QAM





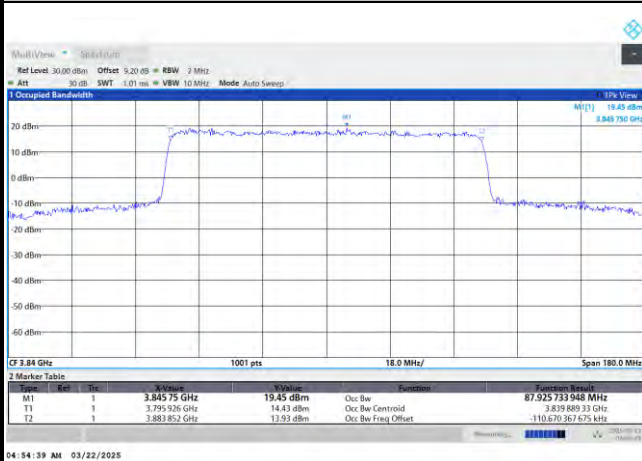
## FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



## FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

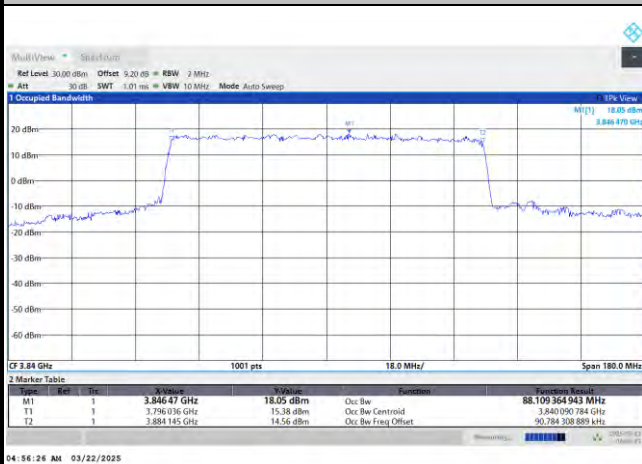
## QPSK



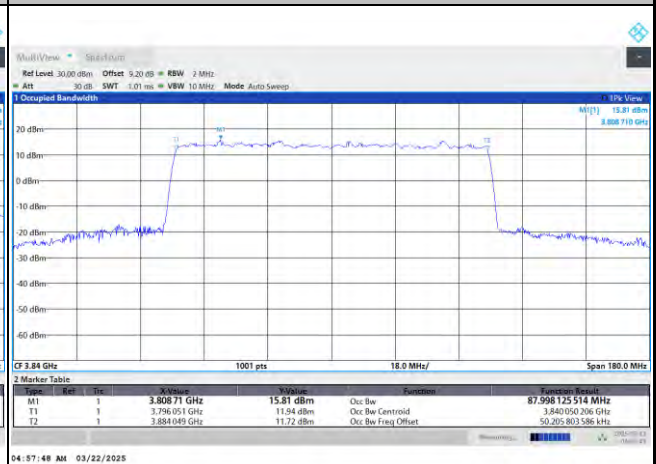
## 16QAM



## 64QAM



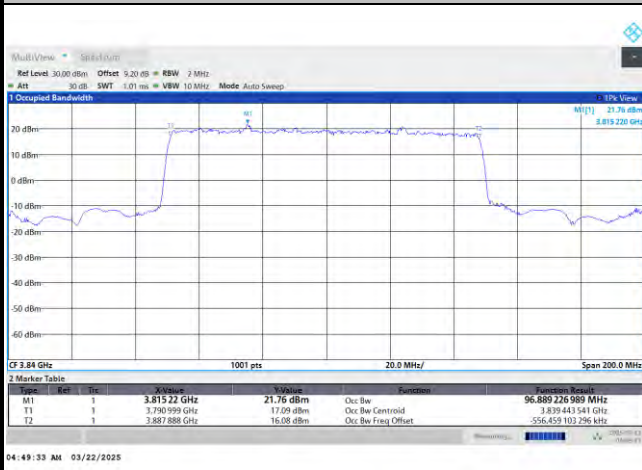
## 256QAM





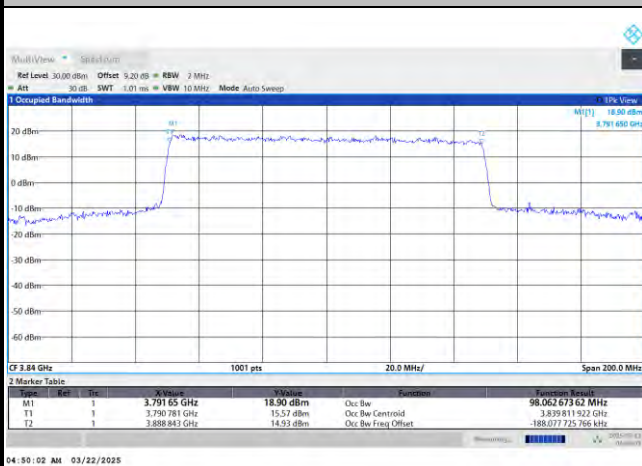
## FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

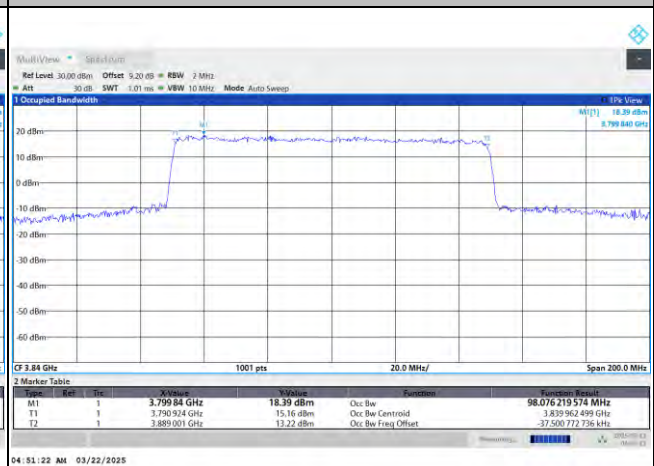


## FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

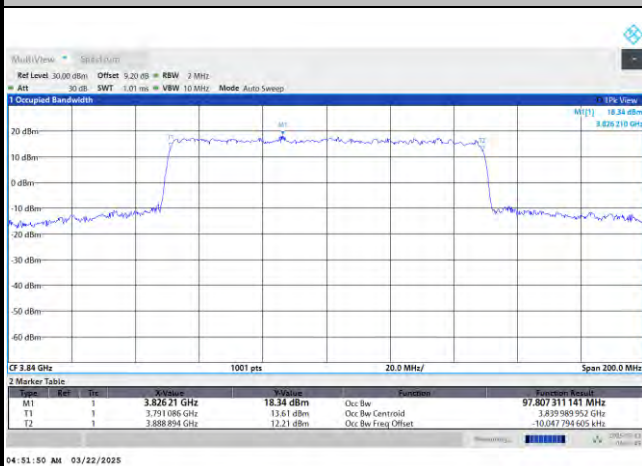
## QPSK



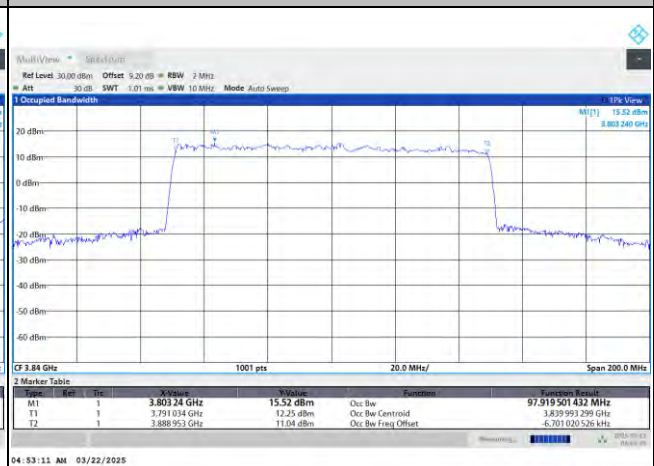
## 16QAM



## 64QAM



## 256QAM



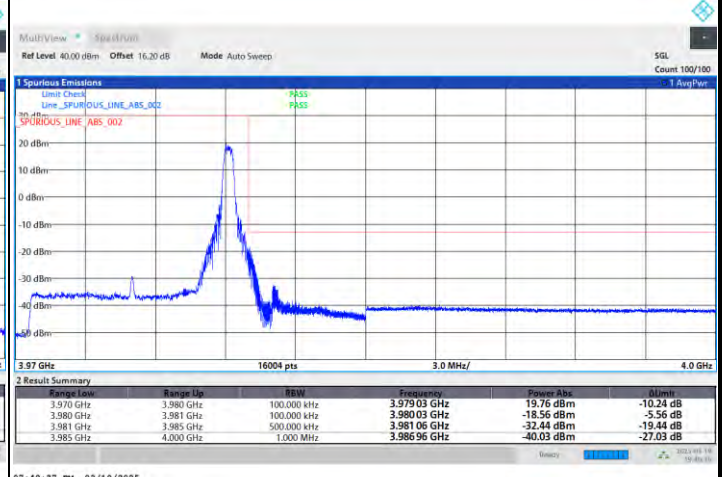
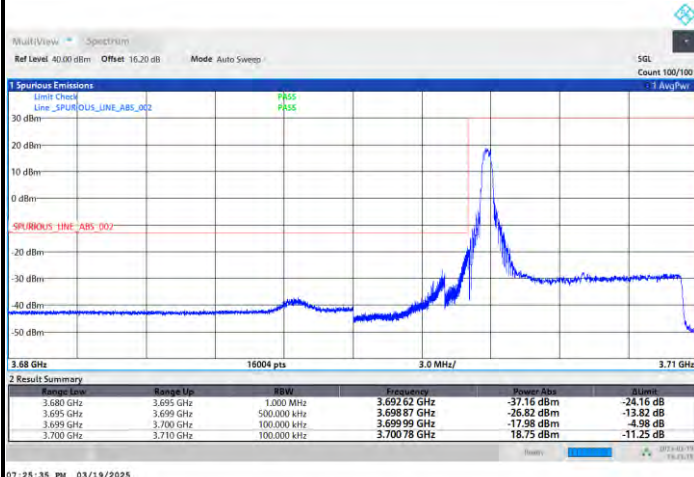


## Conducted Band Edge

FR1 n77 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

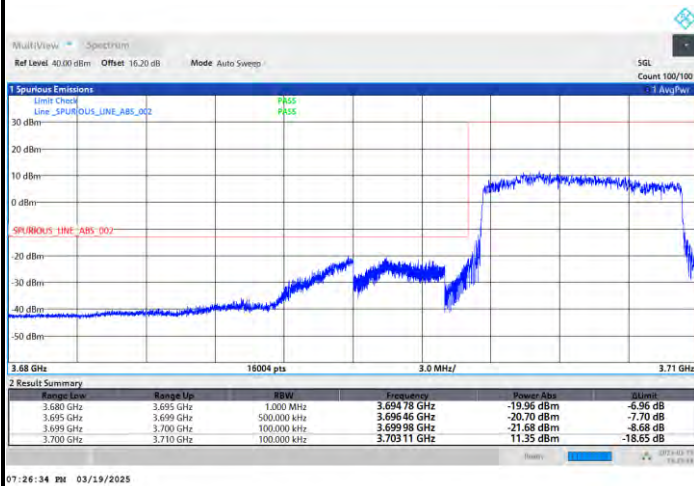
Highest Band Edge / 1RBmax





## FR1 n77 / 10MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



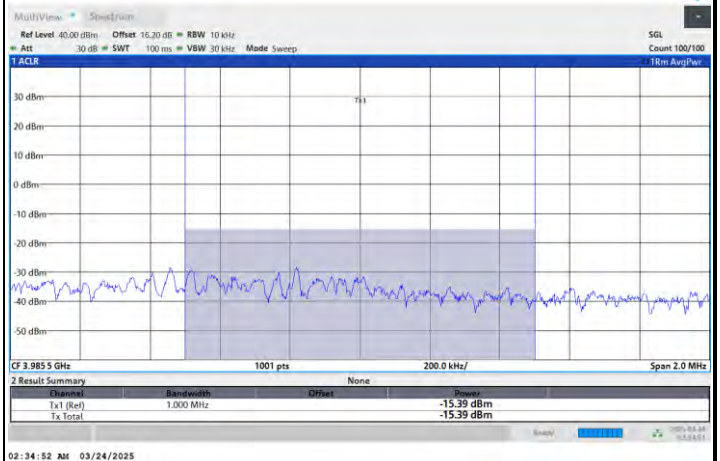
## Highest Band Edge / Full RB



N/A

Channel power -13dBm &gt; -15.39dBm (PASS)

N/A

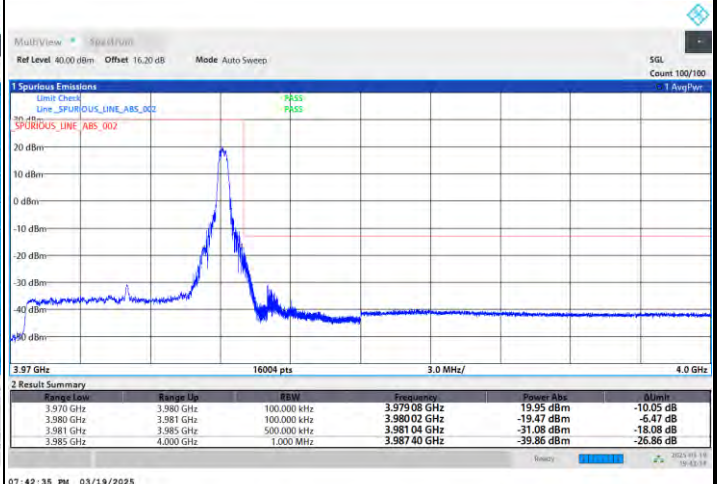




## FR1 n77 / 10MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



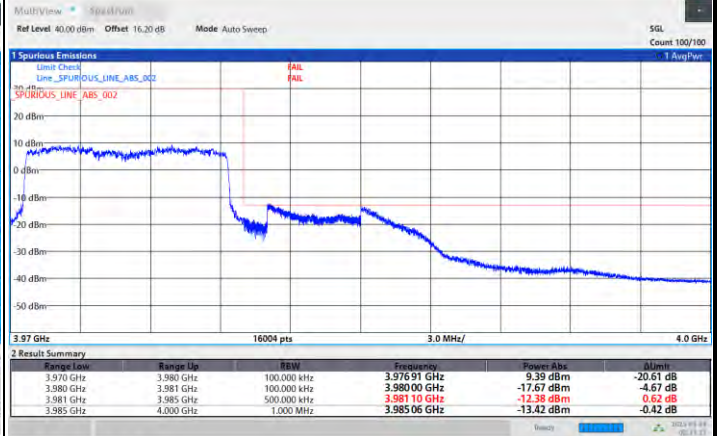


## FR1 n77 / 10MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



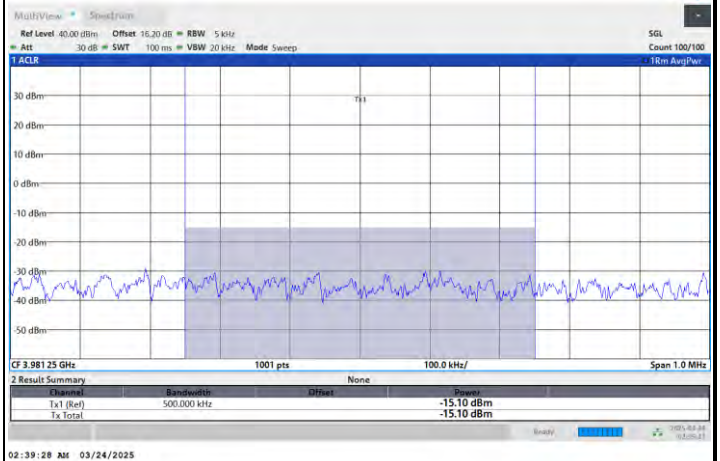
## Highest Band Edge / Full RB



N/A

Channel power -13dBm &gt; -15.10dBm (PASS)

N/A

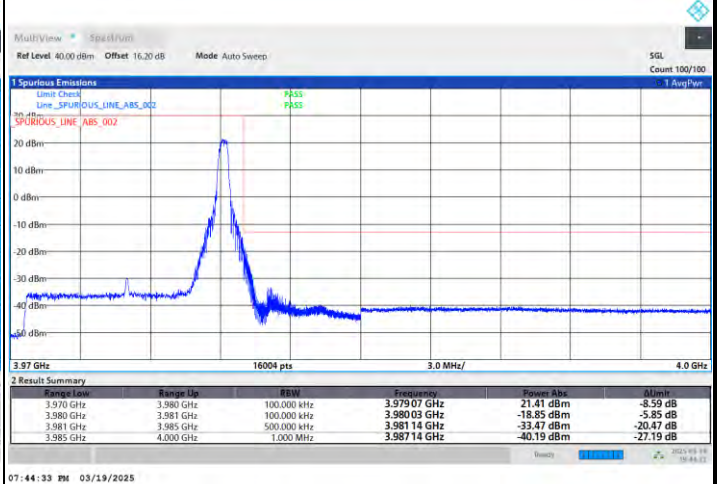
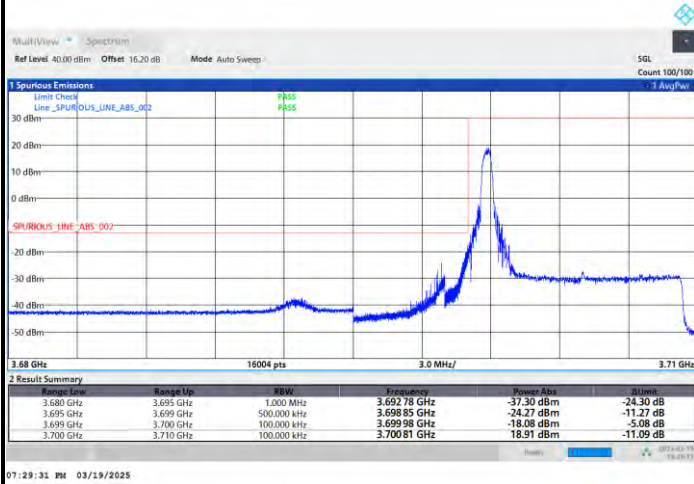




## FR1 n77 / 10MHz / DFT-S OFDM / 16QAM

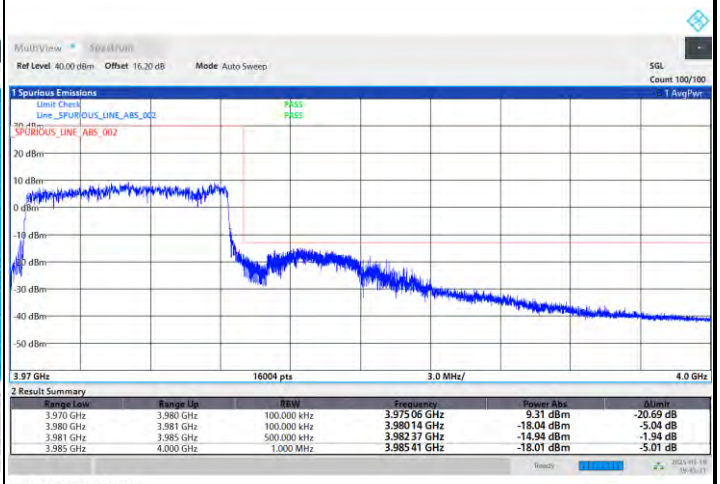
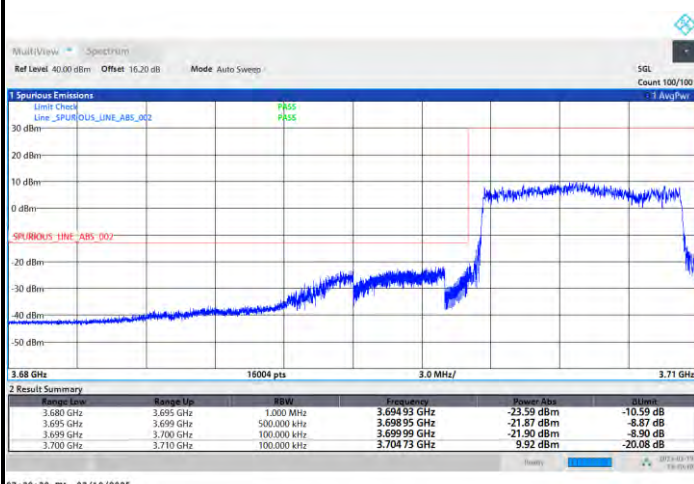
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

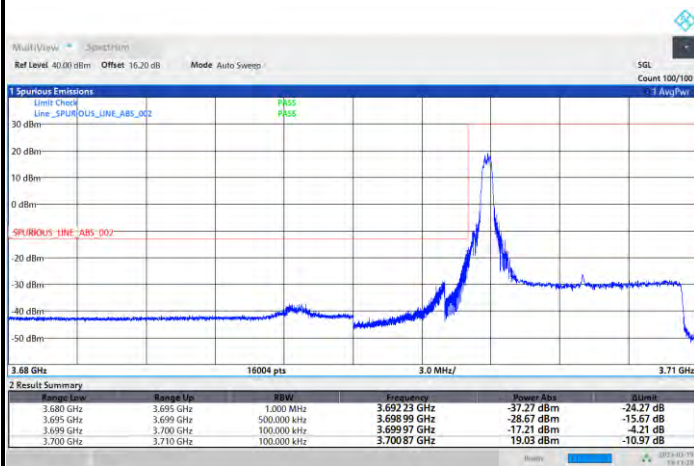
## Highest Band Edge / Full RB



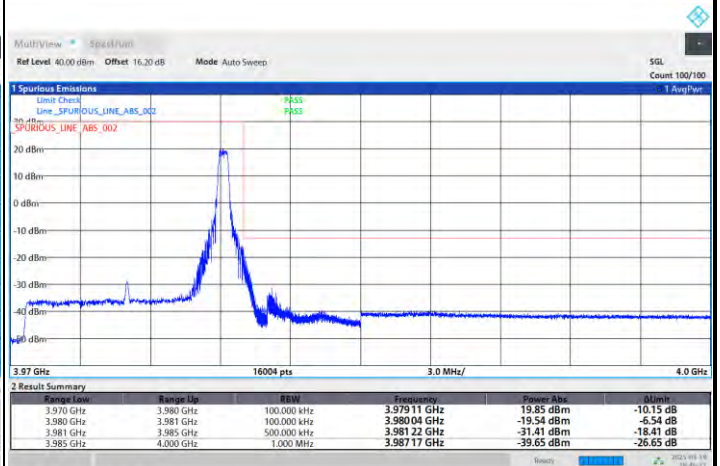


## FR1 n77 / 10MHz / DFT-S OFDM / 64QAM

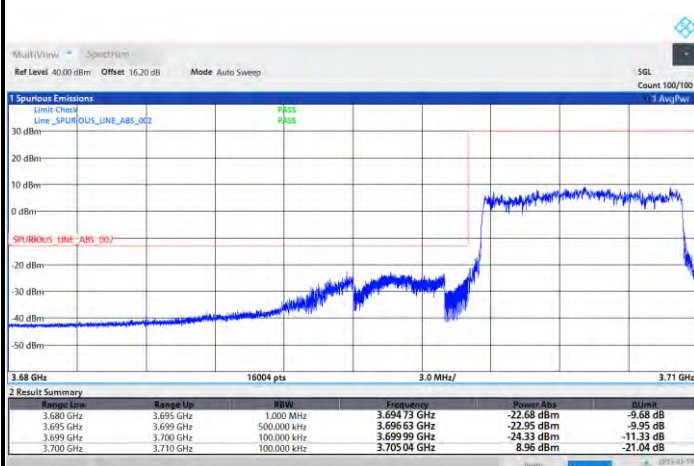
## Lowest Band Edge / 1RB0



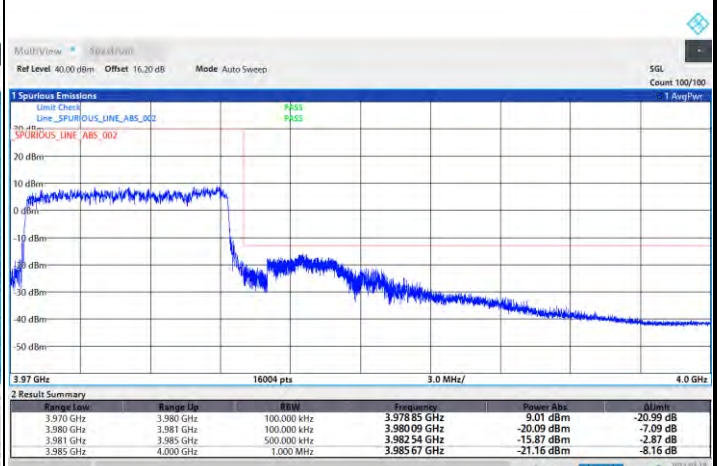
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



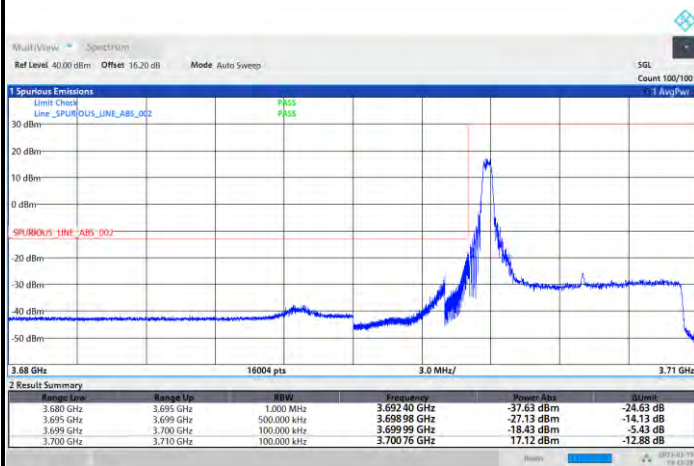
## Highest Band Edge / Full RB



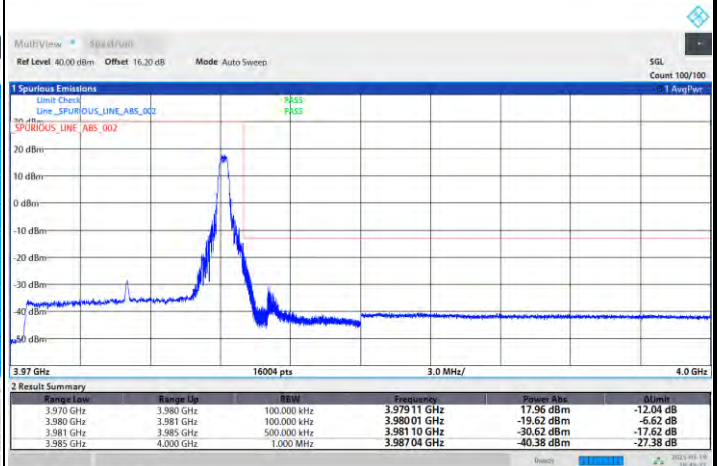


## FR1 n77 / 10MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / 1RB0



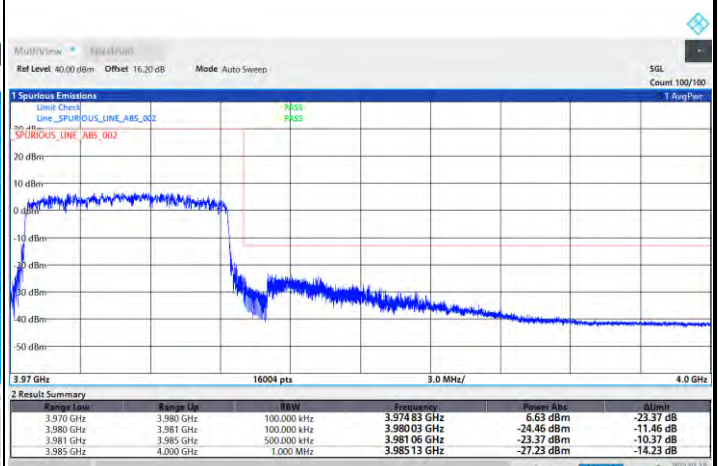
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



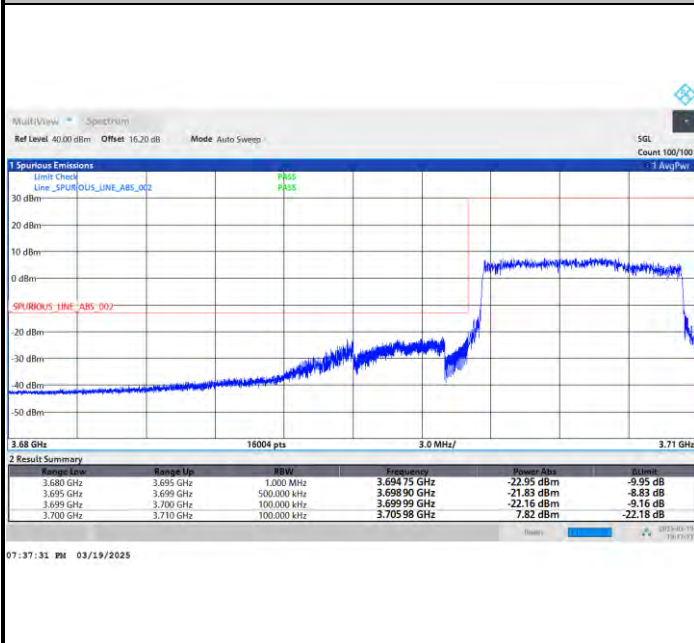
## Highest Band Edge / Full RB





## FR1 n77 / 10MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



## Highest Band Edge





## FR1 n77 / 15MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

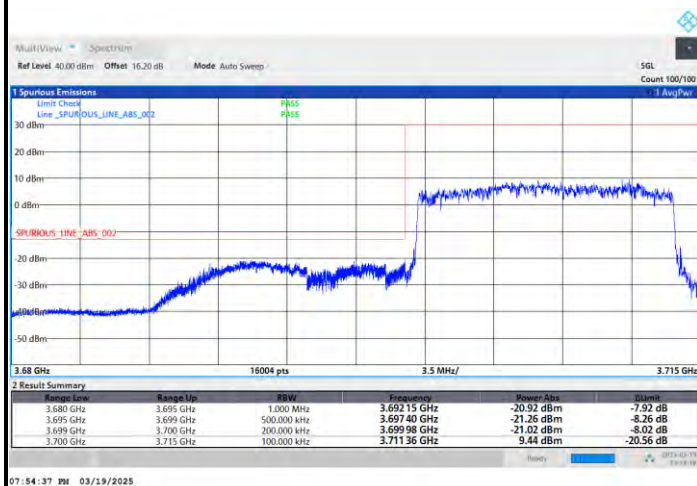


## Highest Band Edge / Full RB

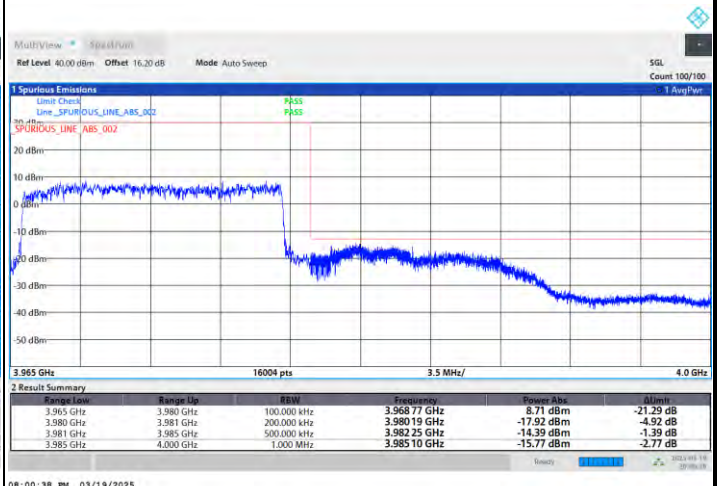


## FR1 n77 / 15MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB





## FR1 n77 / 15MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB



07:55:36 PM 03/19/2025

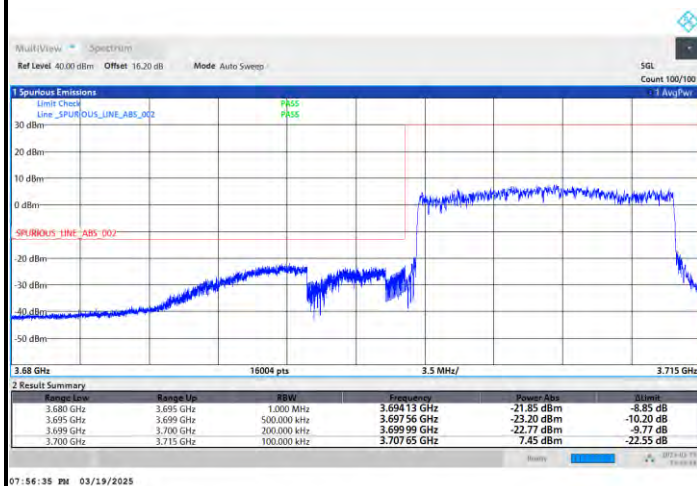
## Highest Band Edge / Full RB



08:01:37 PM 03/19/2025

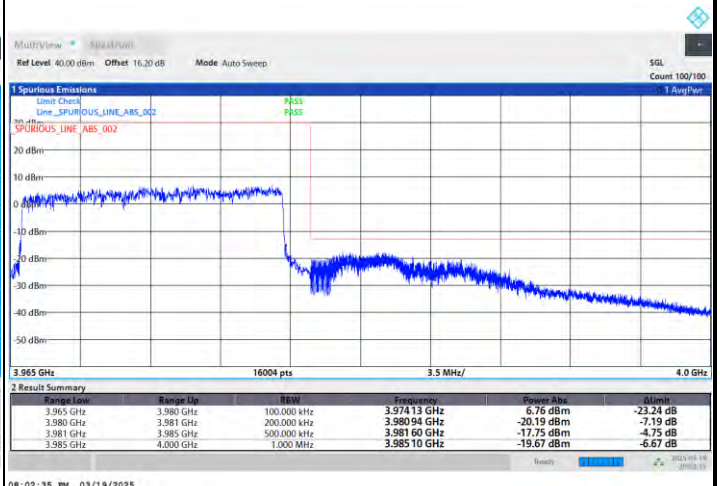
## FR1 n77 / 15MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB

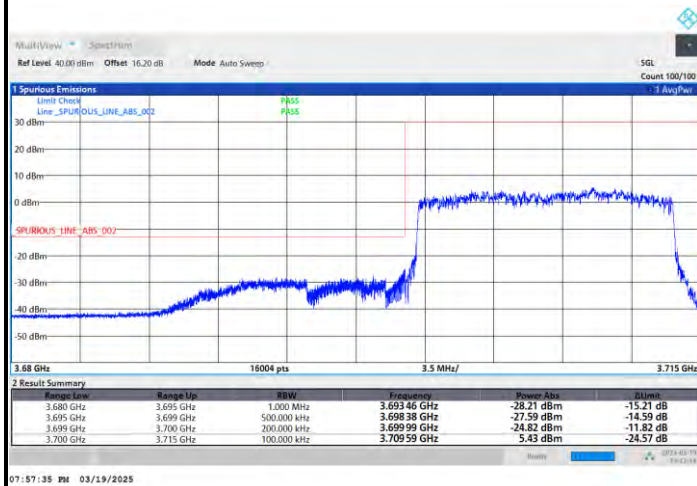


07:56:35 PM 03/19/2025

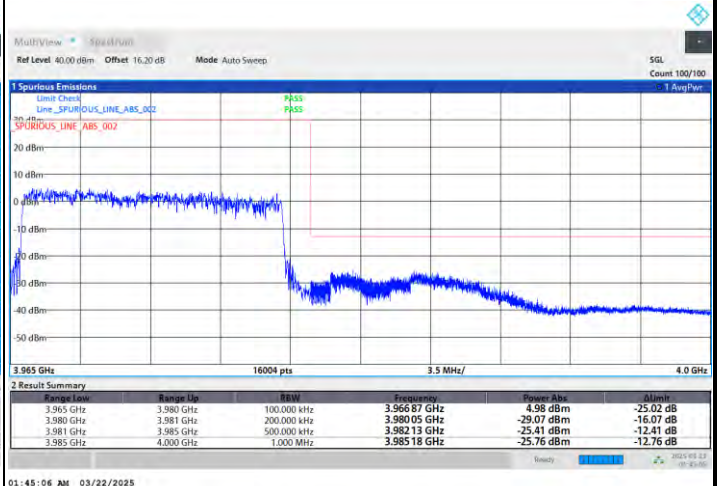
## Highest Band Edge / Full RB



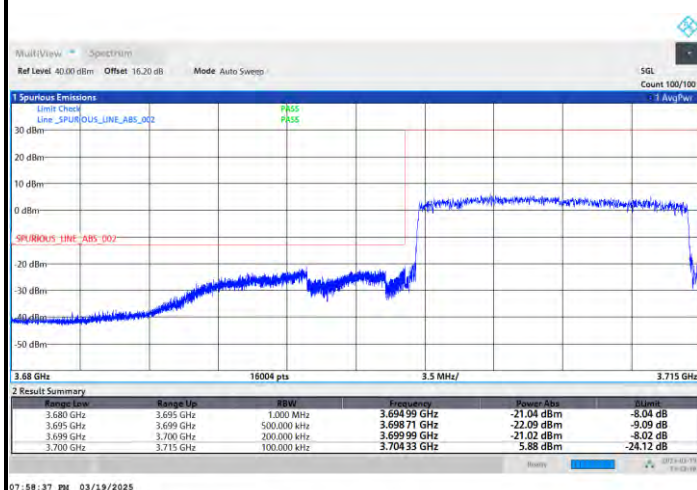
08:02:35 PM 03/19/2025

**FR1 n77 / 15MHz / DFT-S OFDM / 256QAM****Lowest Band Edge / Full RB**

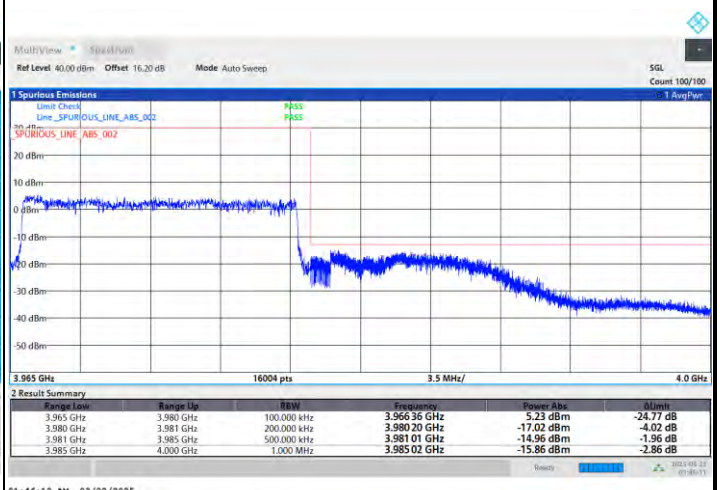
07:57:35 PM 03/19/2025

**Highest Band Edge / Full RB**

01:45:06 AM 03/22/2025

**FR1 n77 / 15MHz / CP OFDM / QPSK / Full RB****Lowest Band Edge**

07:58:37 PM 03/19/2025

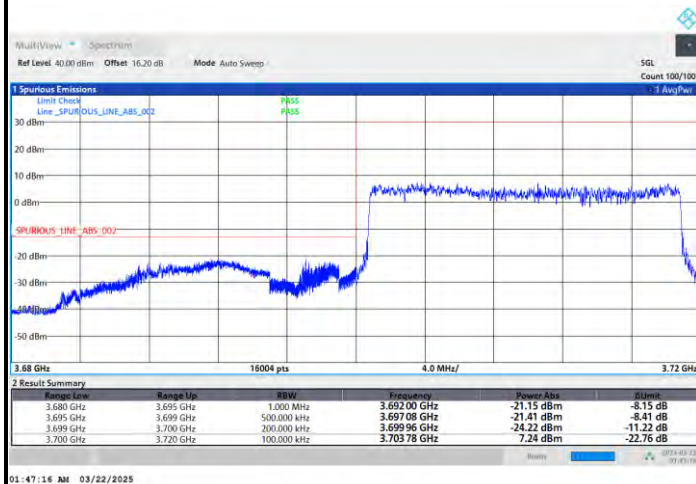
**Highest Band Edge**

01:46:12 AM 03/22/2025

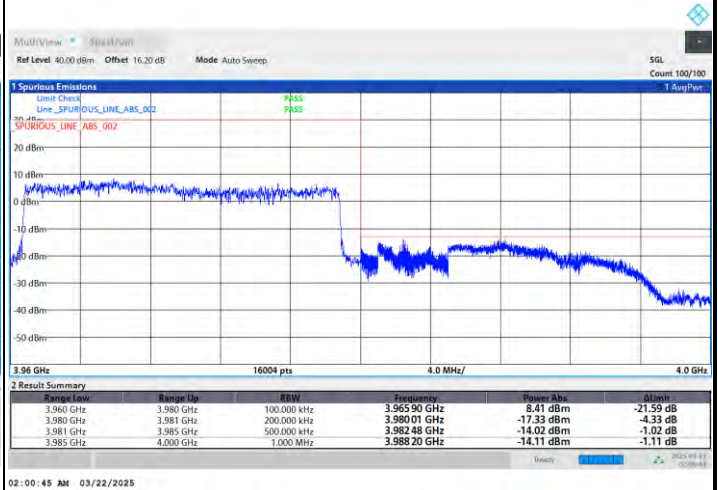


## FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

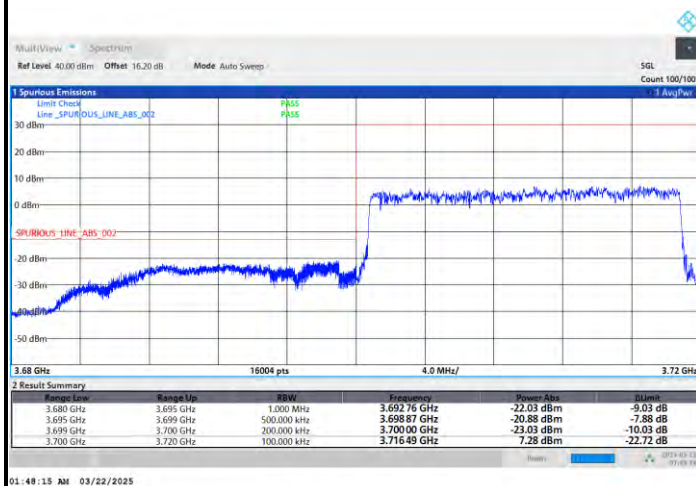


## Highest Band Edge / Full RB

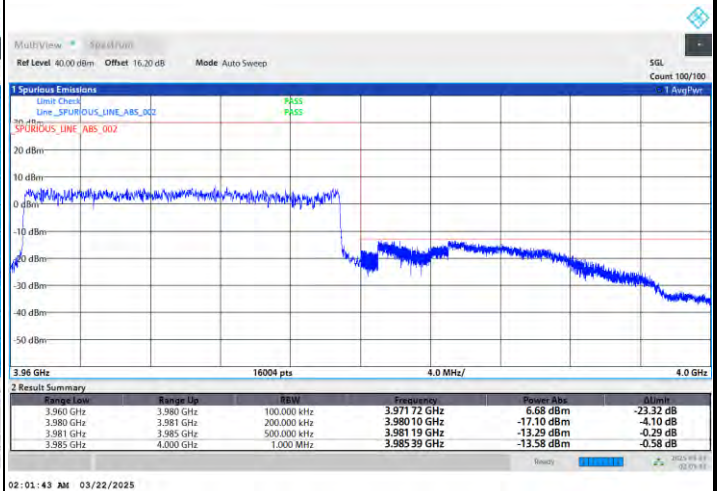


## FR1 n77 / 20MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



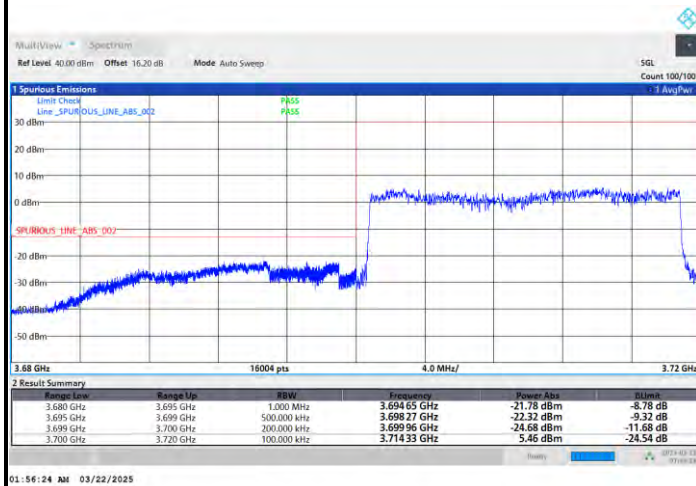
## Highest Band Edge / Full RB





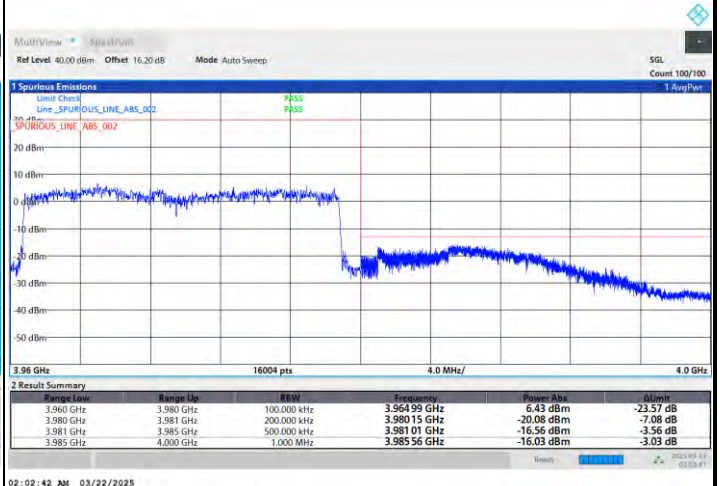
## FR1 n77 / 20MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB



01:56:24 AM 03/22/2025

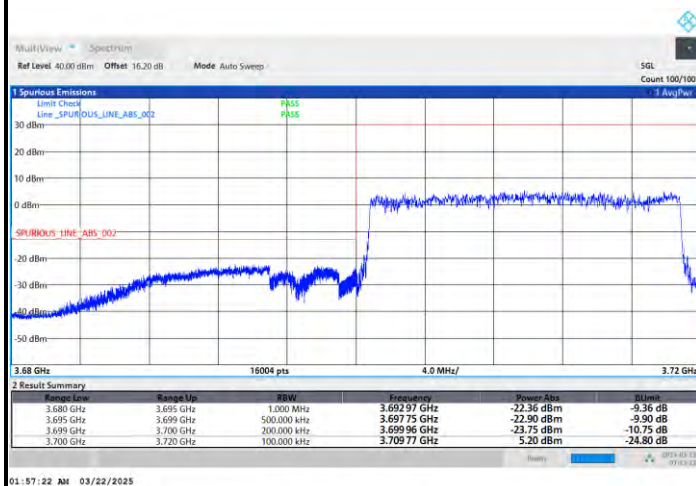
## Highest Band Edge / Full RB



02:02:42 AM 03/22/2025

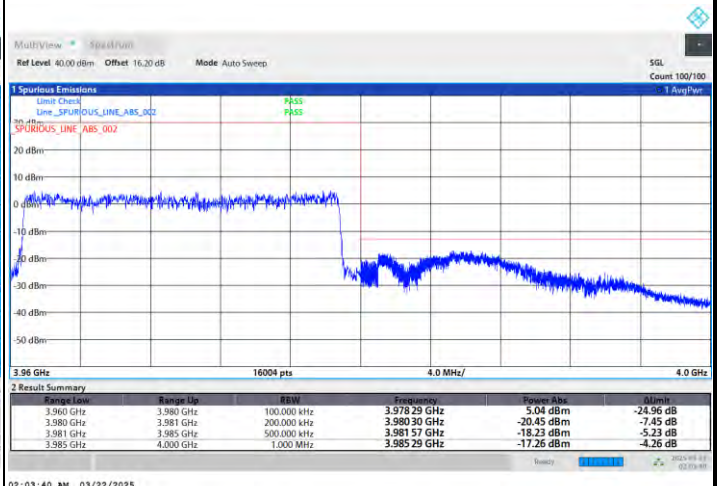
## FR1 n77 / 20MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB

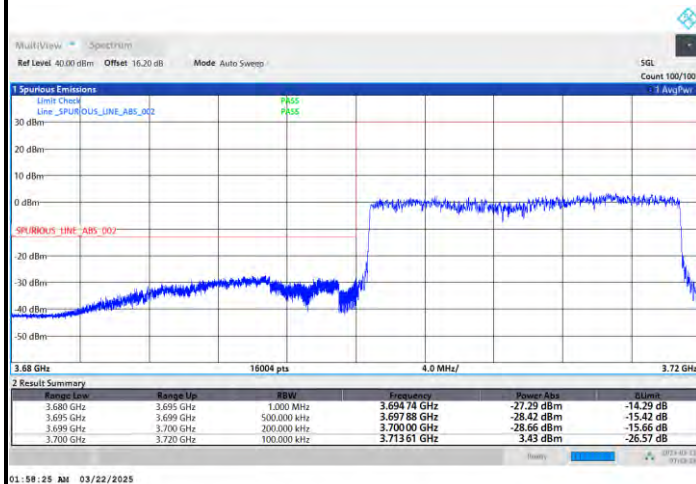
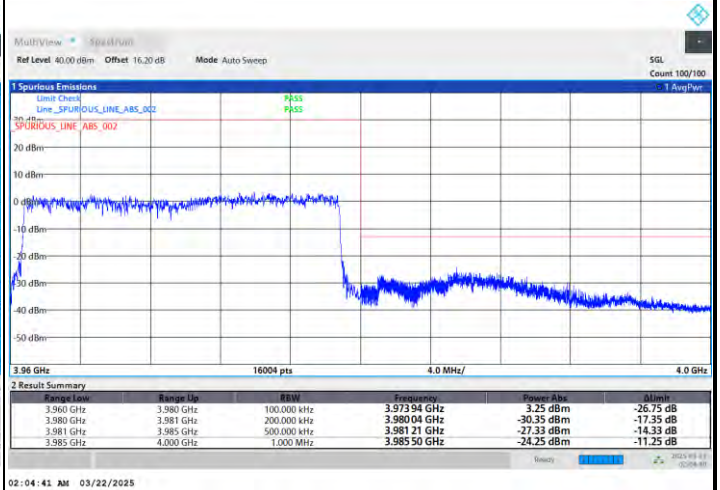
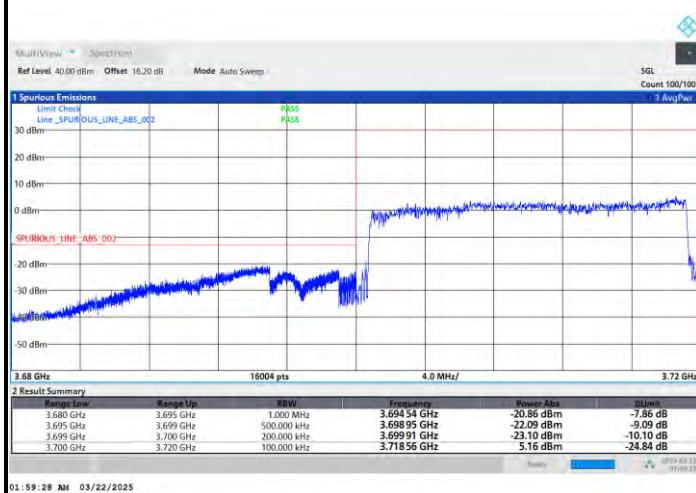
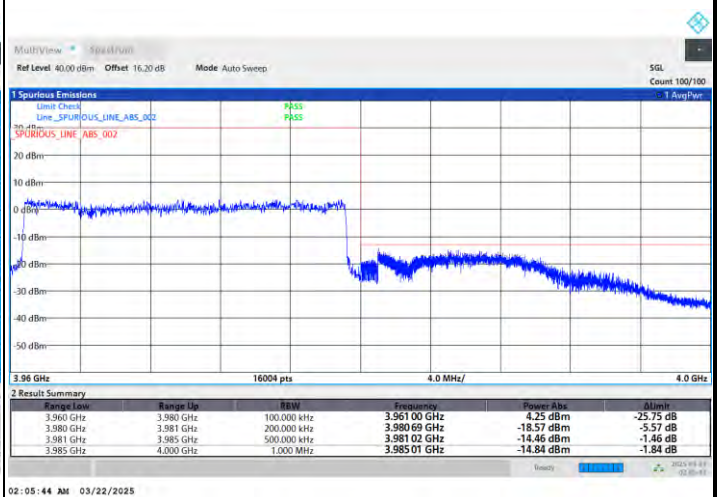


01:57:22 AM 03/22/2025

## Highest Band Edge / Full RB



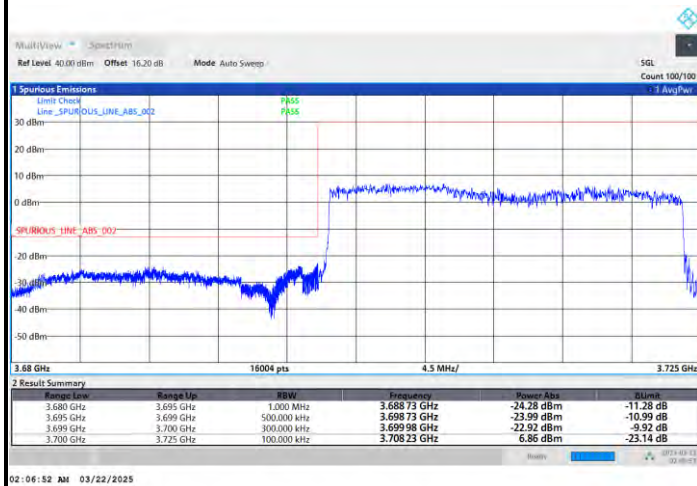
02:03:40 AM 03/22/2025

**FR1 n77 / 20MHz / DFT-S OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 20MHz / CP OFDM / QPSK / Full RB****Lowest Band Edge****Highest Band Edge**



## FR1 n77 / 25MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



02:06:52 AM 03/22/2025

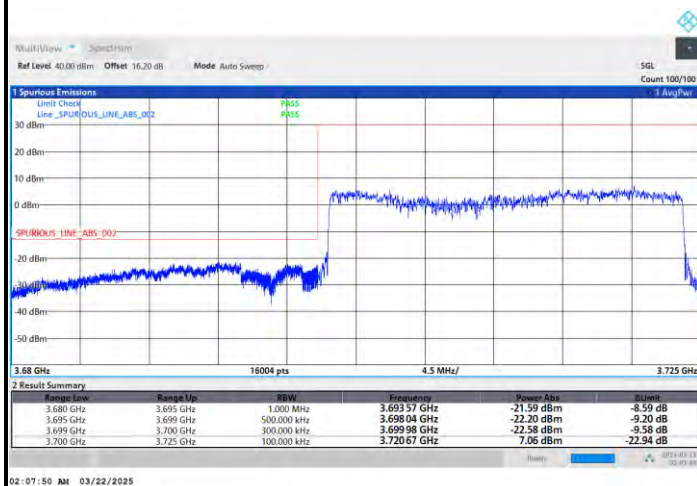
## Highest Band Edge / Full RB



02:12:59 AM 03/22/2025

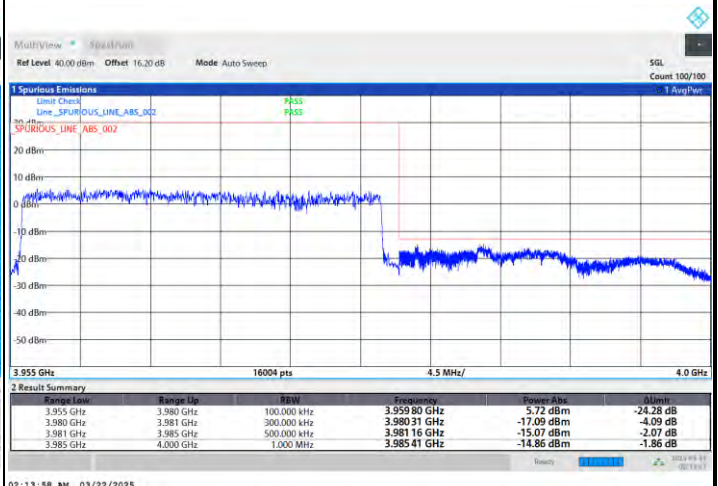
## FR1 n77 / 25MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



02:07:50 AM 03/22/2025

## Highest Band Edge / Full RB

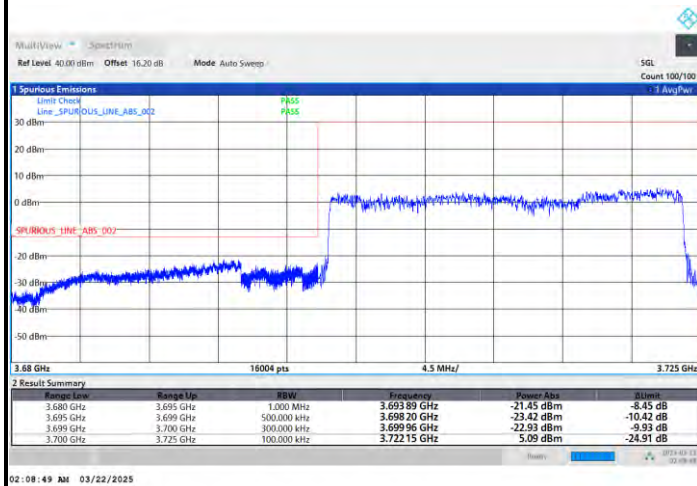


02:13:58 AM 03/22/2025



FR1 n77 / 25MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB



02:08:49 AM 03/22/2025

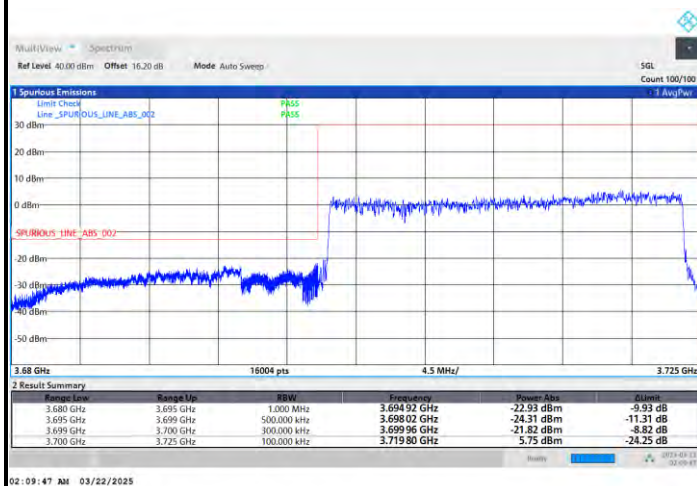
Highest Band Edge / Full RB



02:14:56 AM 03/22/2025

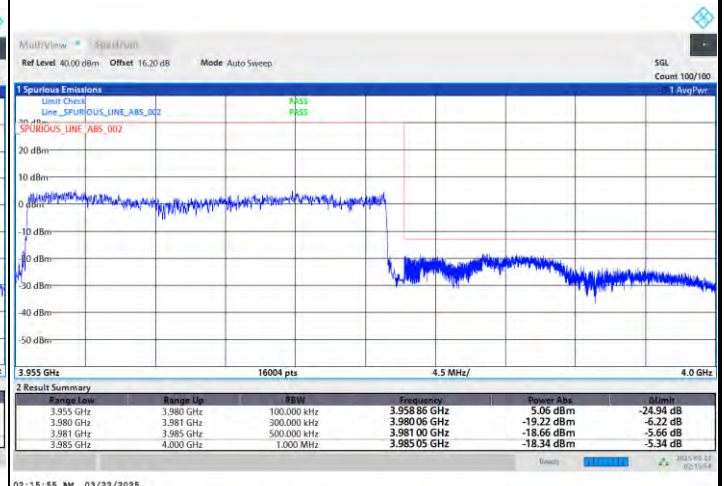
FR1 n77 / 25MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

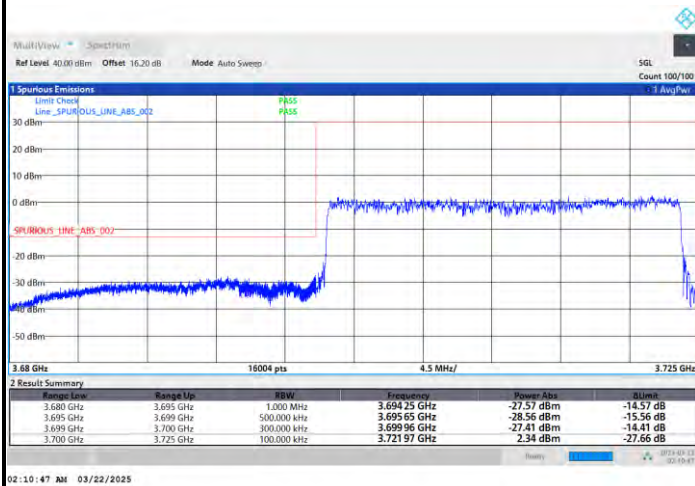
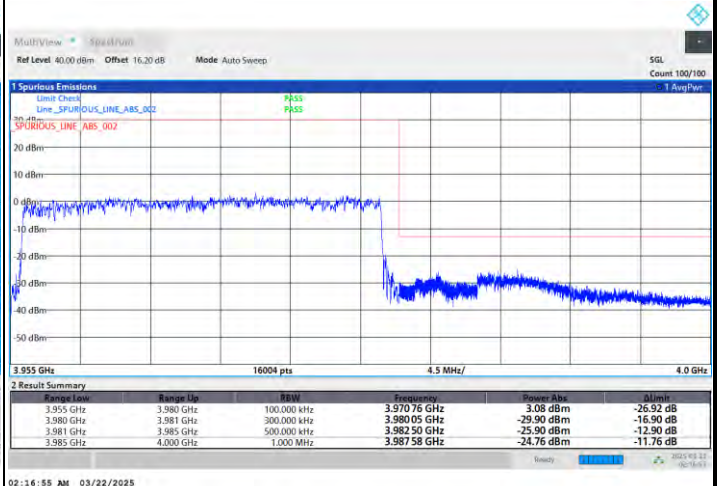
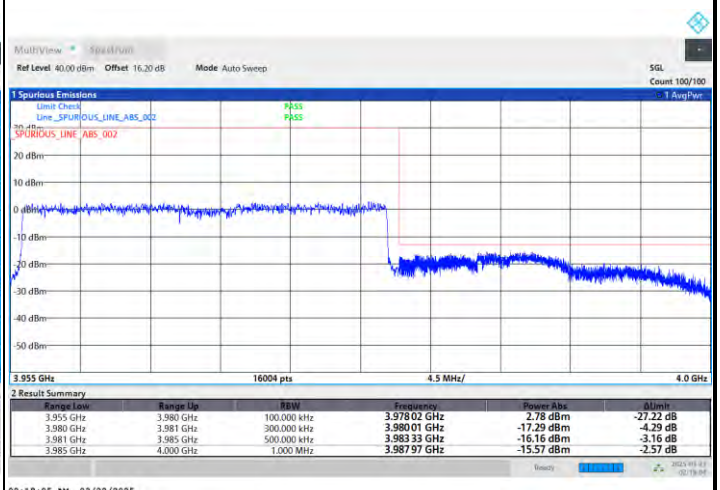


02:09:47 AM 03/22/2025

Highest Band Edge / Full RB



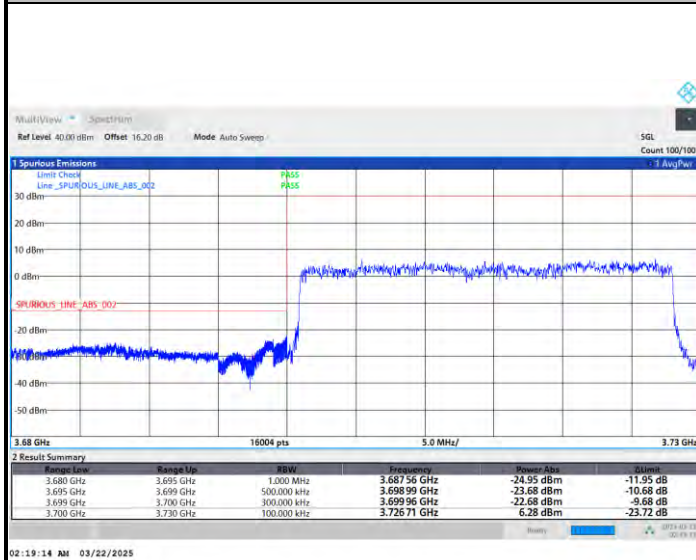
02:15:55 AM 03/22/2025

**FR1 n77 / 25MHz / DFT-S OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 25MHz / CP OFDM / QPSK / Full RB****Lowest Band Edge****Highest Band Edge**

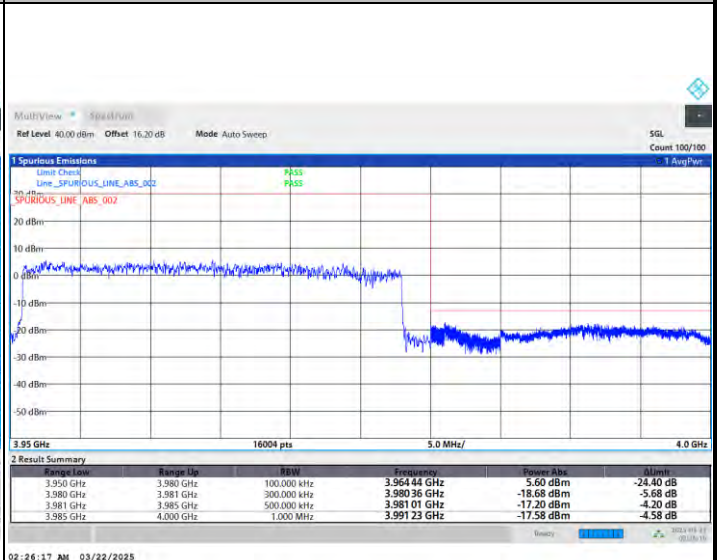


## FR1 n77 / 30MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

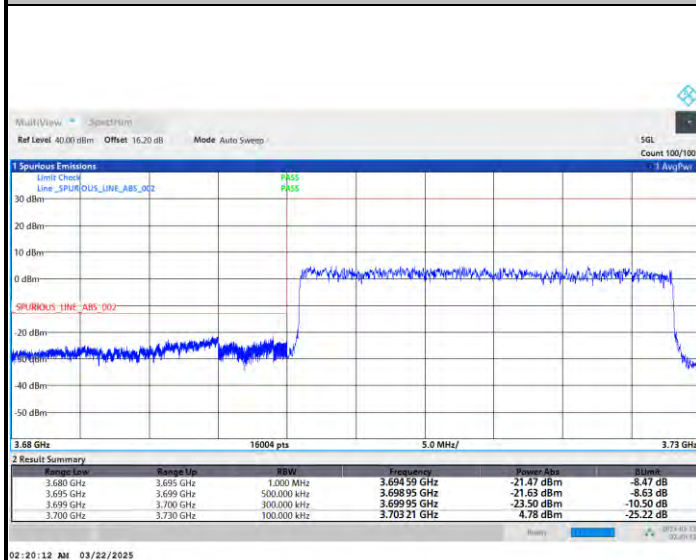


## Highest Band Edge / Full RB

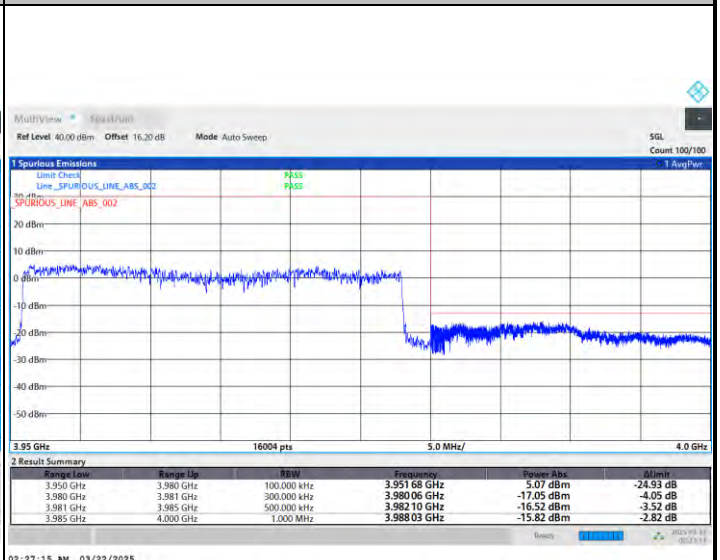


## FR1 n77 / 30MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



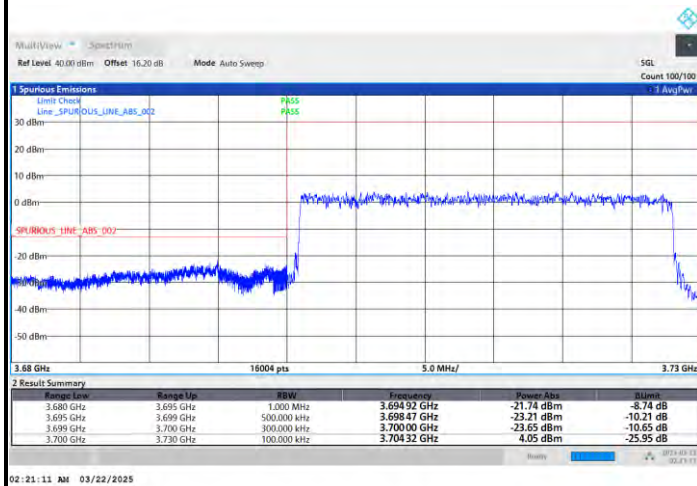
## Highest Band Edge / Full RB



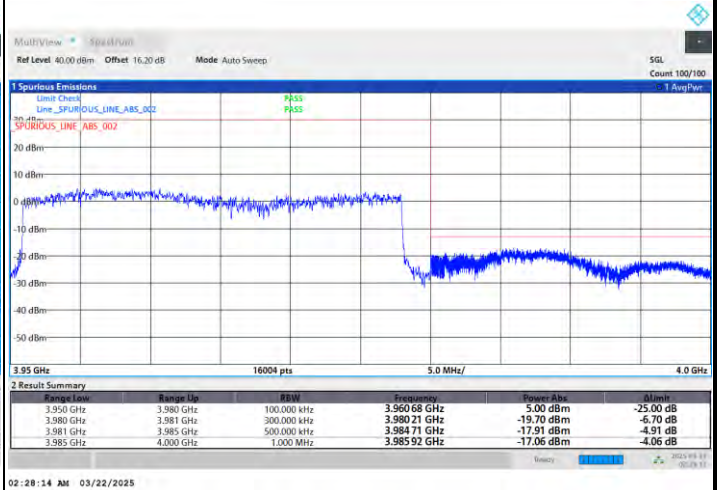


## FR1 n77 / 30MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB

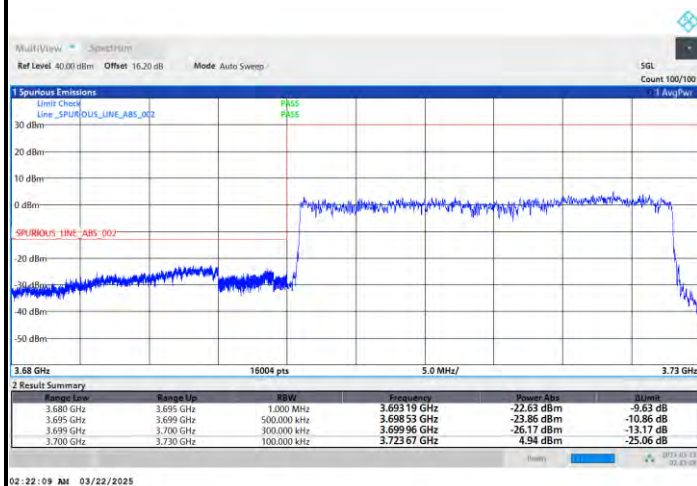


## Highest Band Edge / Full RB



## FR1 n77 / 30MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



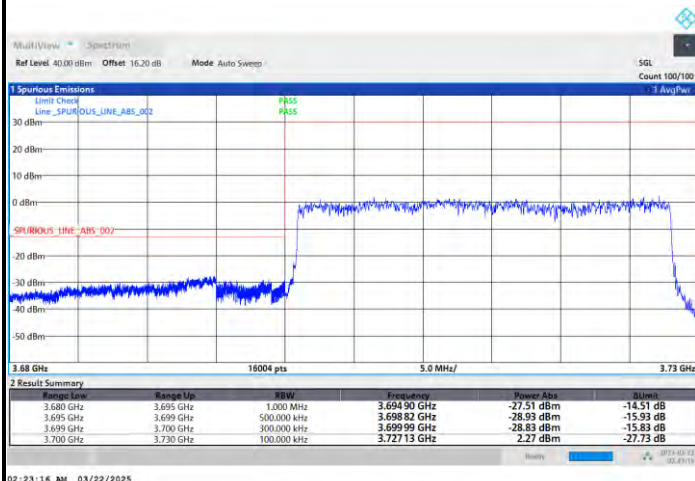
## Highest Band Edge / Full RB





## FR1 n77 / 30MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

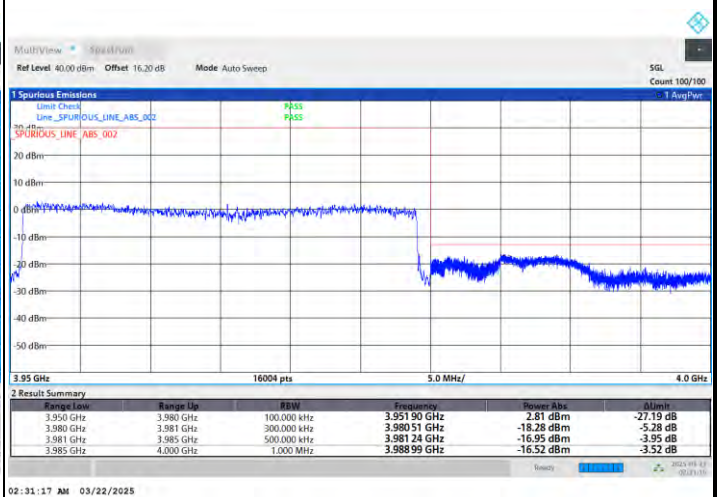


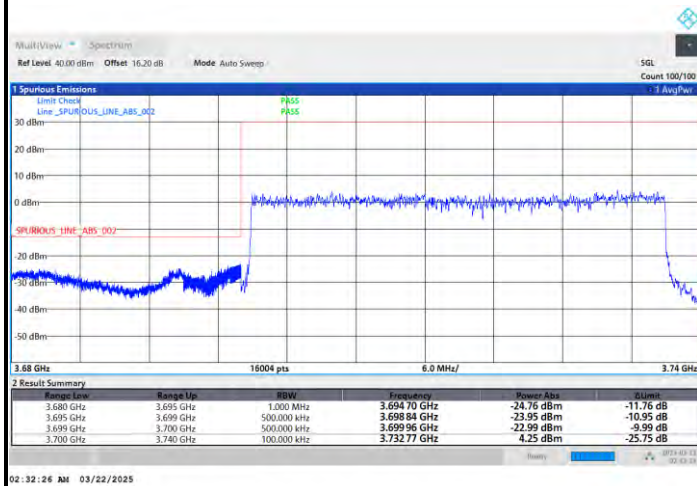
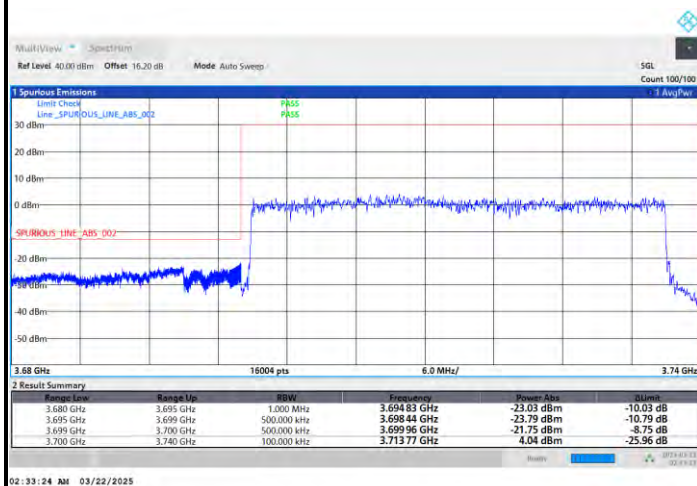
## FR1 n77 / 30MHz / CP OFDM / QPSK / Full RB

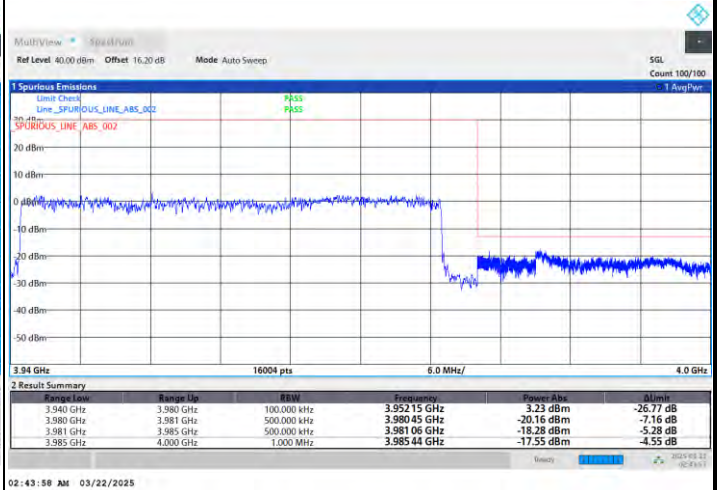
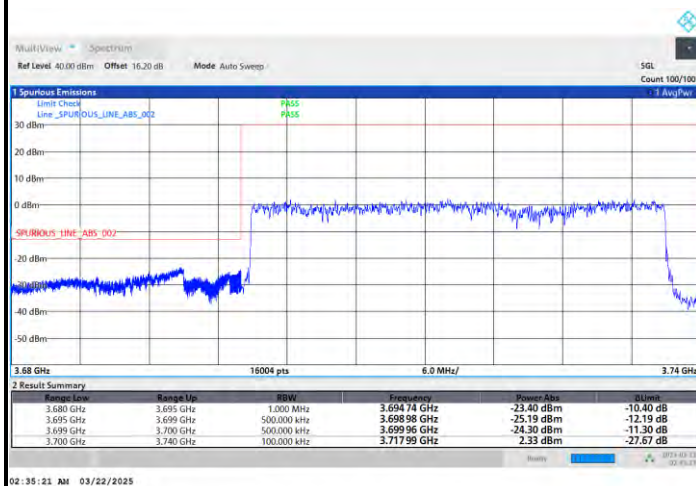
## Lowest Band Edge



## Highest Band Edge



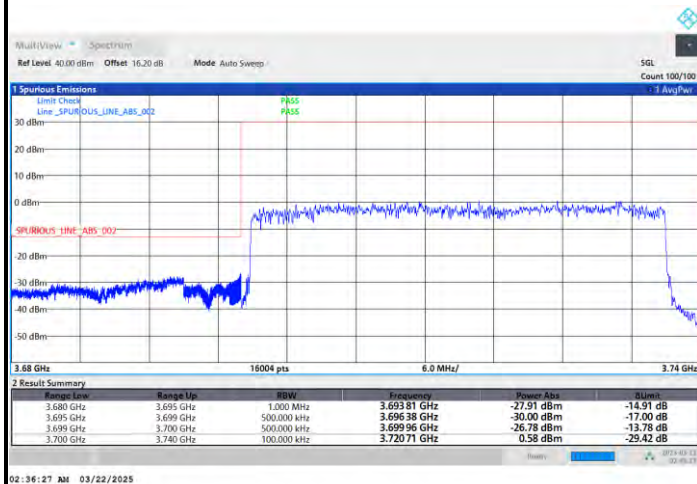
**FR1 n77 / 40MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 40MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

**FR1 n77 / 40MHz / DFT-S OFDM / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 40MHz / DFT-S OFDM / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



## FR1 n77 / 40MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

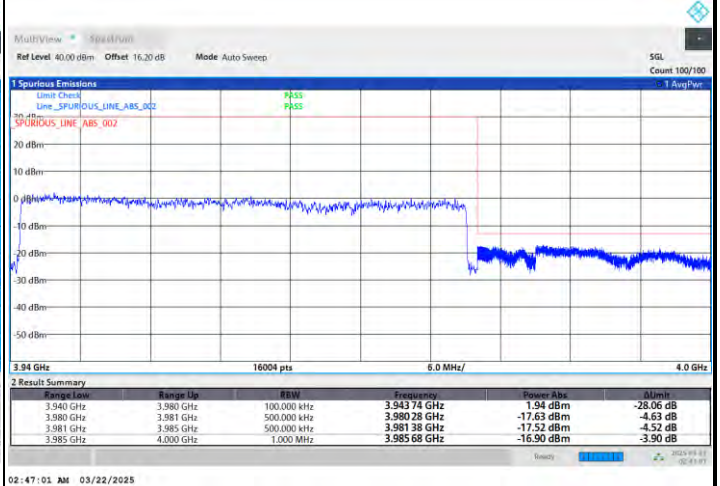


## FR1 n77 / 40MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



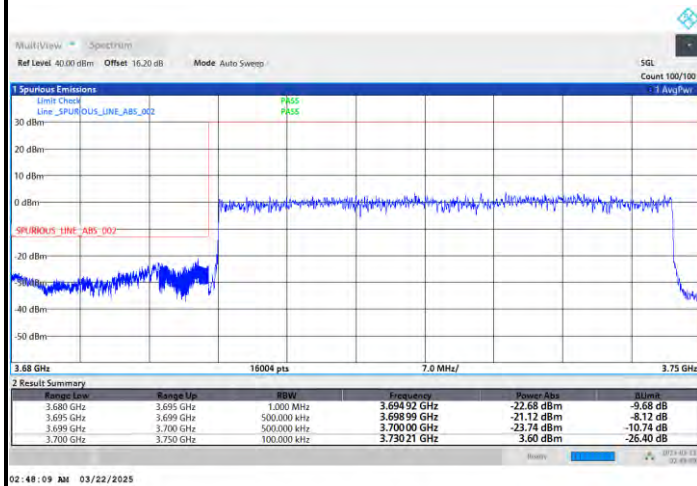
## Highest Band Edge





## FR1 n77 / 50MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



02:48:09 AM 03/22/2025

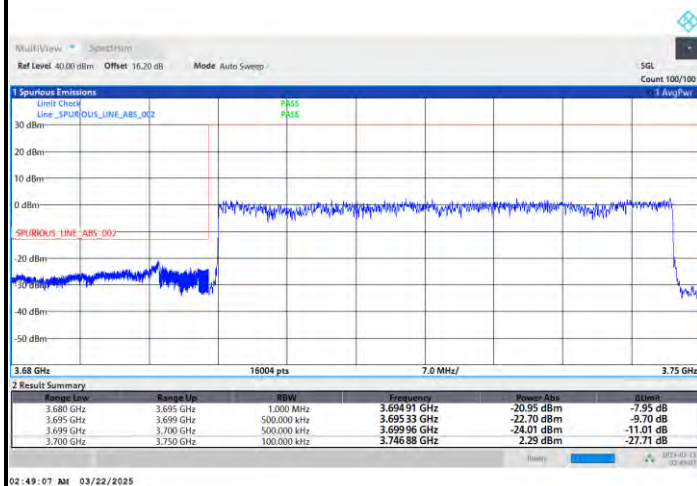
## Highest Band Edge / Full RB



02:27:51 AM 03/24/2025

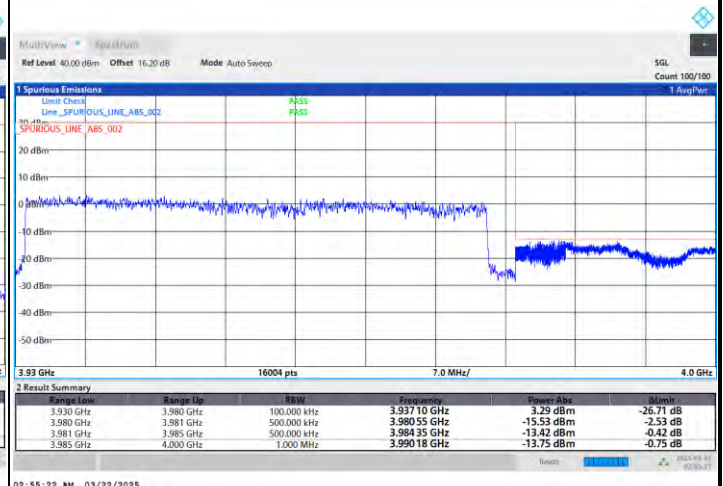
## FR1 n77 / 50MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



02:49:07 AM 03/22/2025

## Highest Band Edge / Full RB

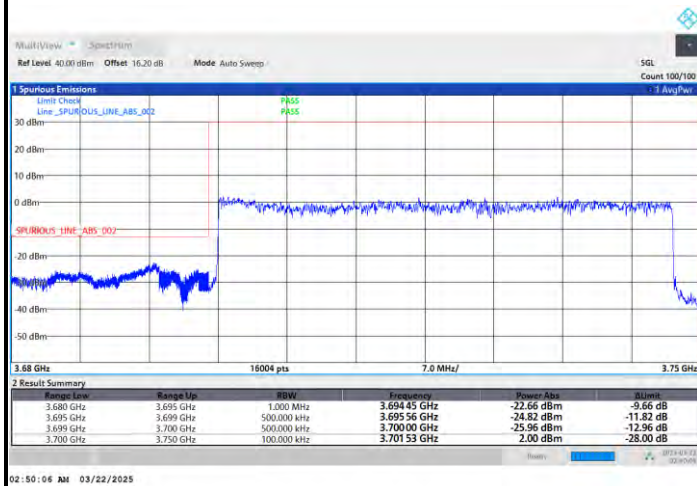


02:55:22 AM 03/22/2025

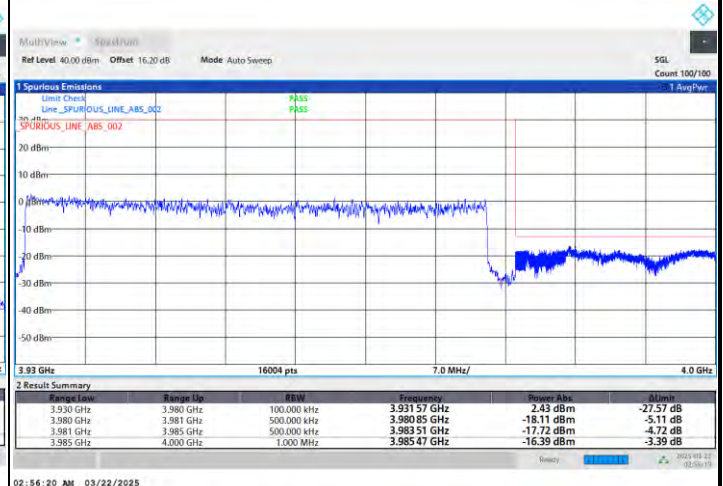


## FR1 n77 / 50MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB

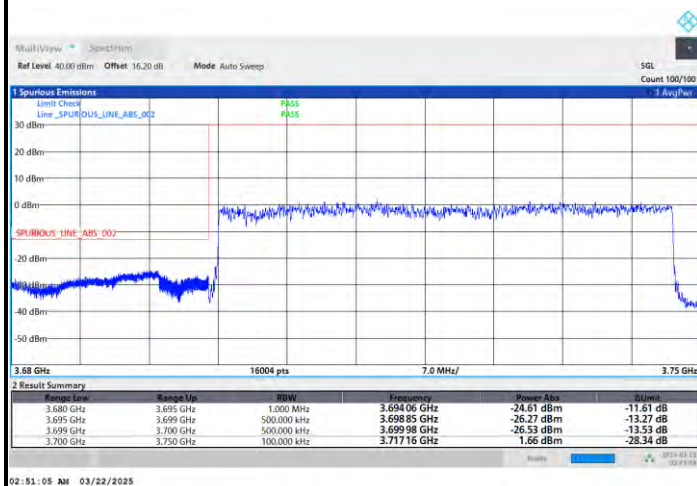


## Highest Band Edge / Full RB

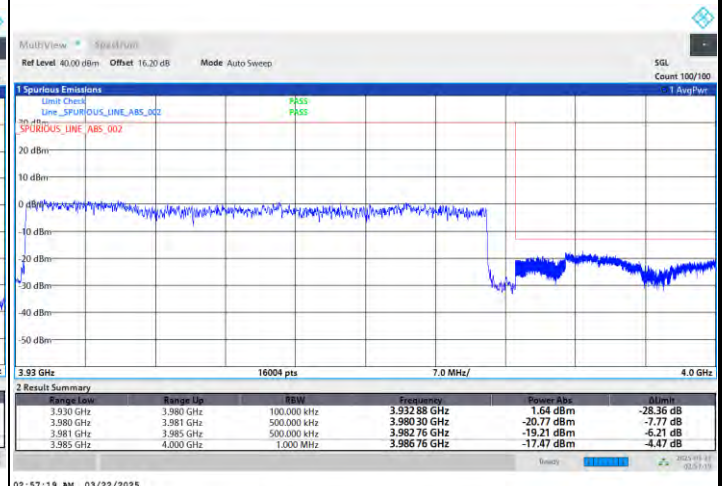


## FR1 n77 / 50MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



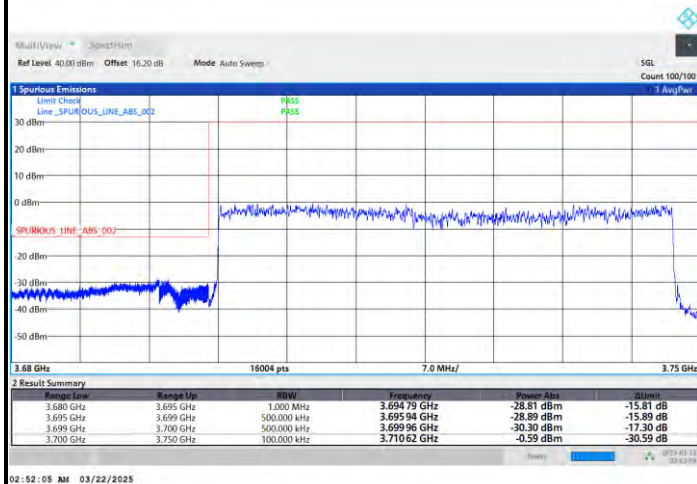
## Highest Band Edge / Full RB





## FR1 n77 / 50MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB

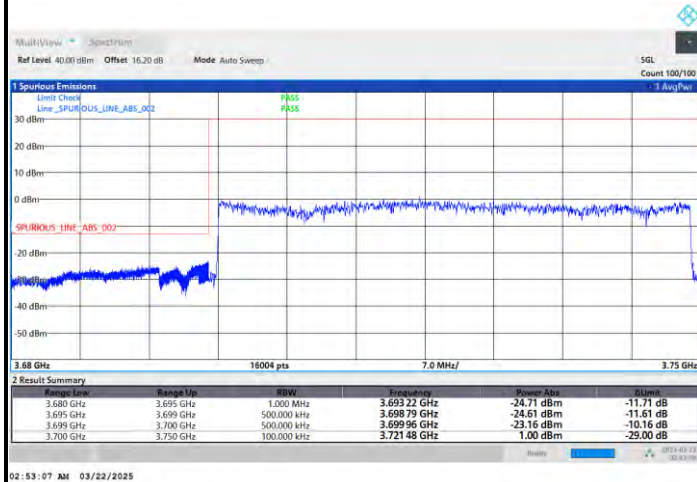


## Highest Band Edge / Full RB

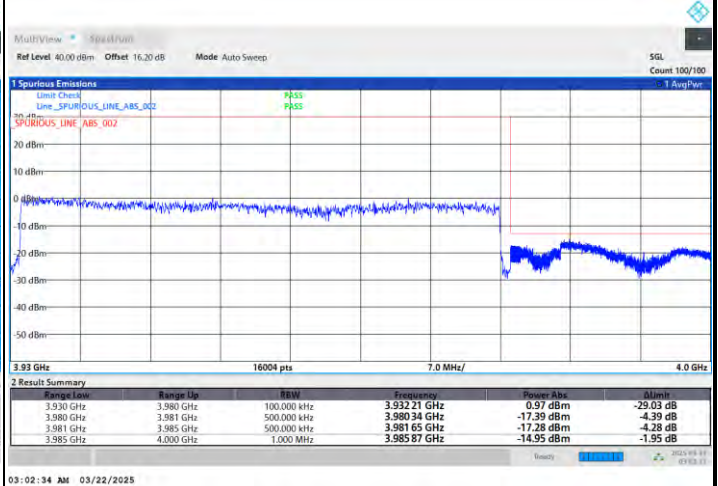


## FR1 n77 / 50MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



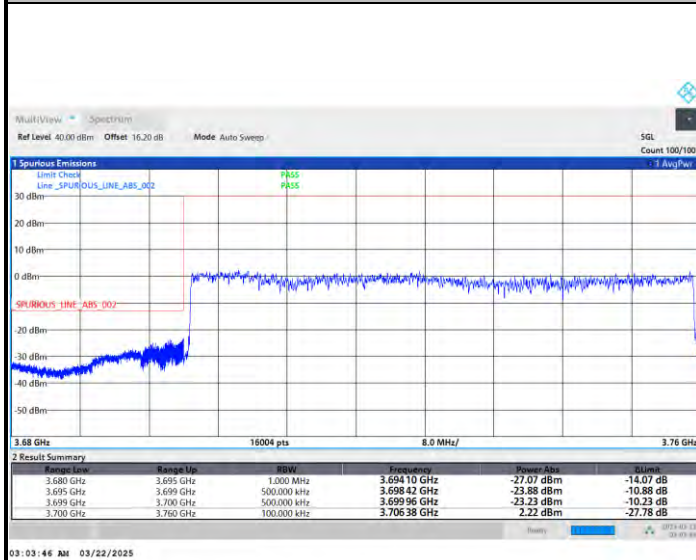
## Highest Band Edge



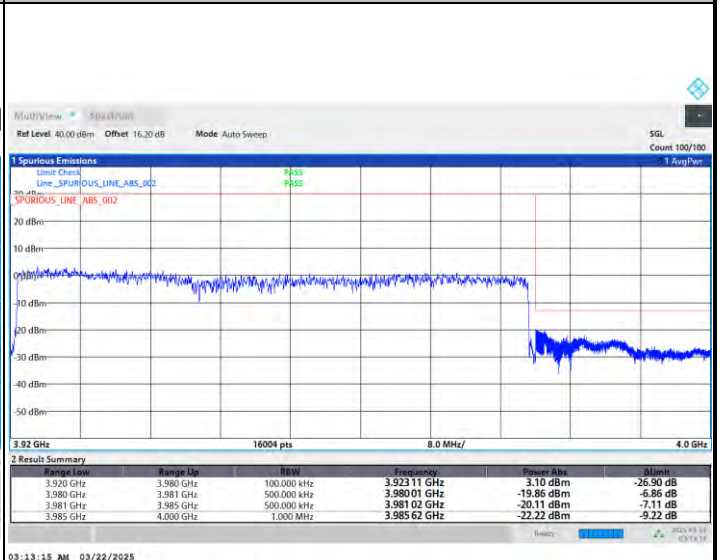


## FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

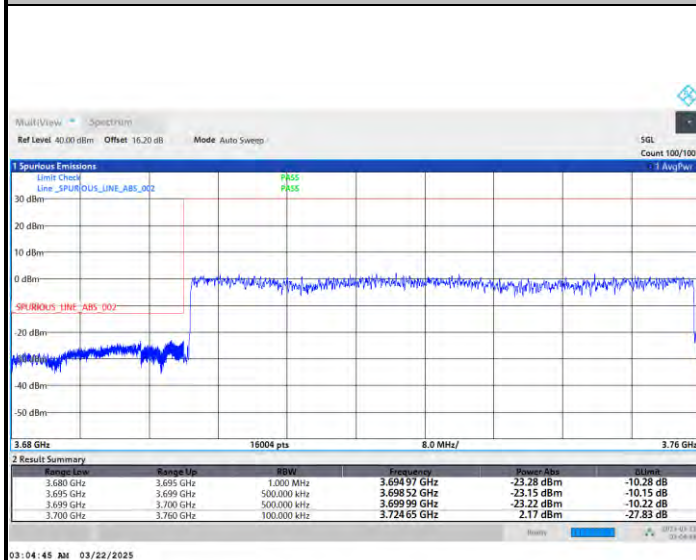


## Highest Band Edge / Full RB

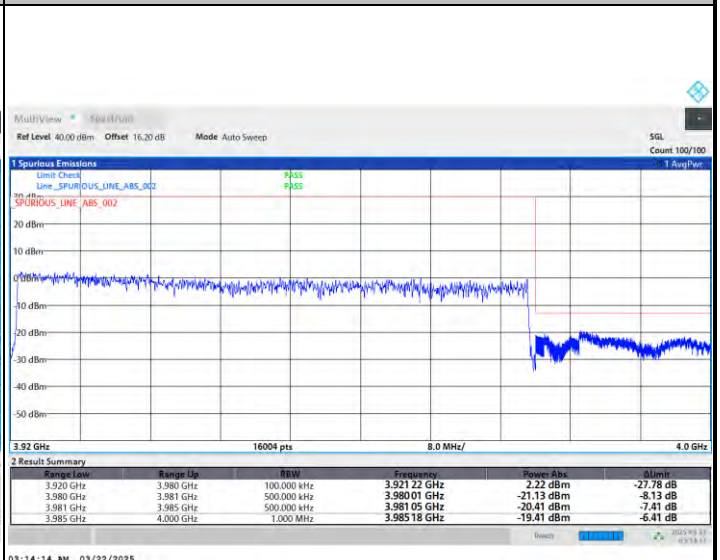


## FR1 n77 / 60MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



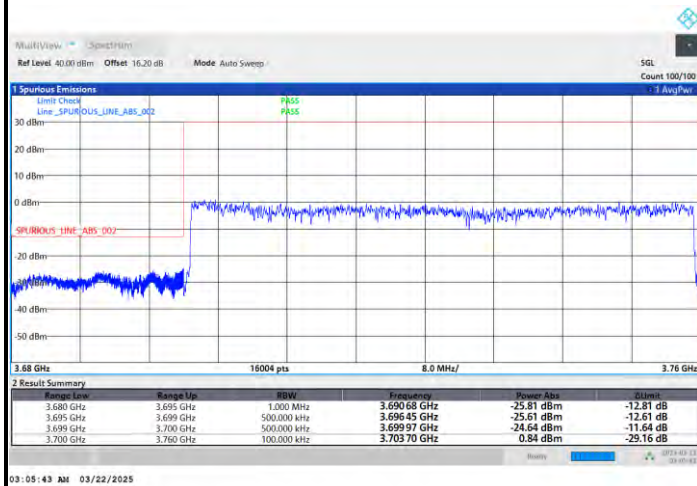
## Highest Band Edge / Full RB



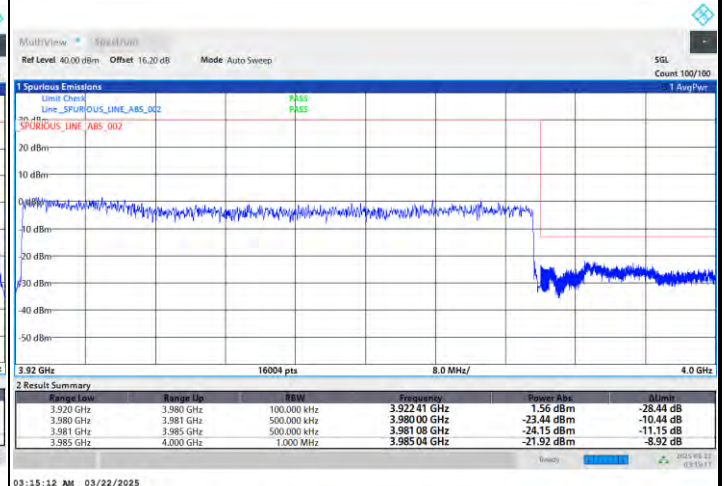


## FR1 n77 / 60MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB

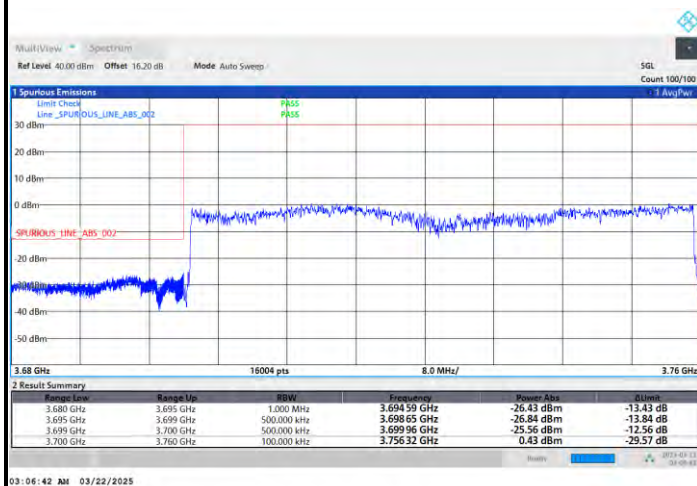


## Highest Band Edge / Full RB

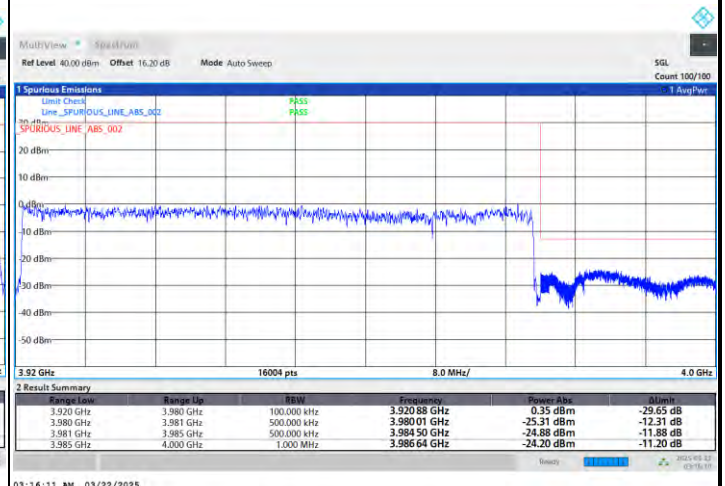


## FR1 n77 / 60MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



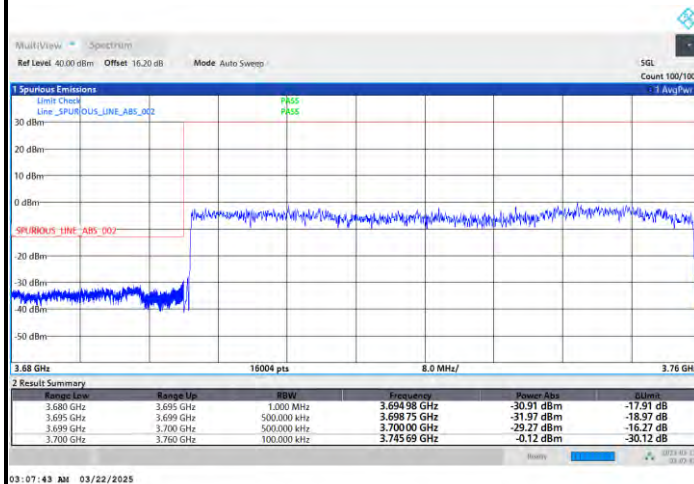
## Highest Band Edge / Full RB





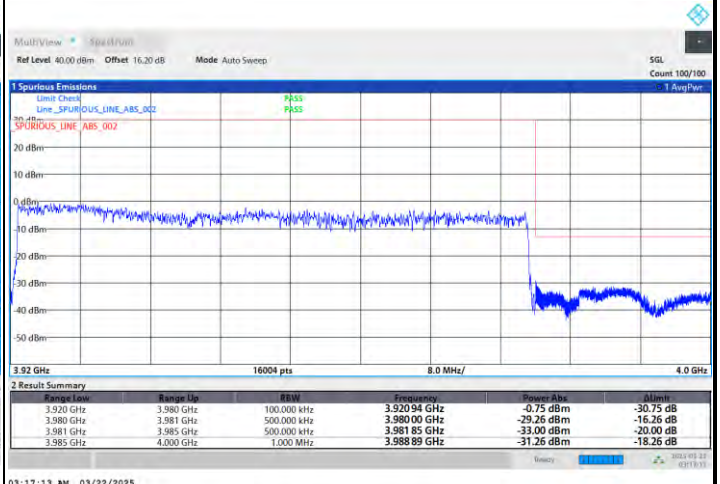
## FR1 n77 / 60MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB



03:07:43 AM 03/22/2025

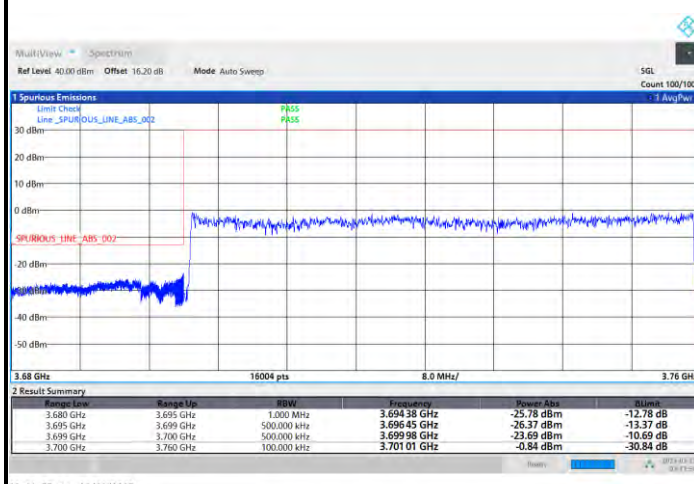
## Highest Band Edge / Full RB



03:17:13 AM 03/22/2025

## FR1 n77 / 60MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



03:11:57 AM 03/22/2025

## Highest Band Edge

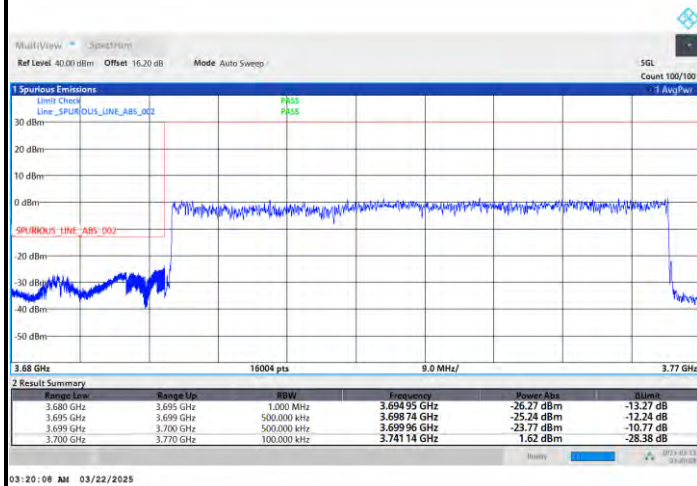


03:18:55 AM 03/22/2025



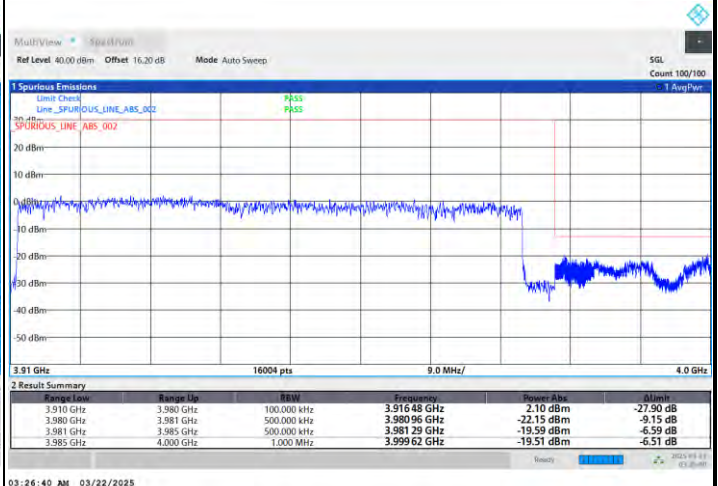
## FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



03:20:08 AM 03/22/2025

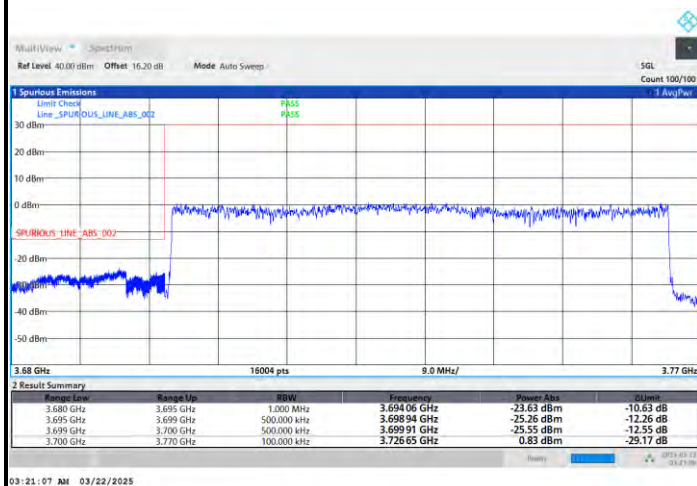
## Highest Band Edge / Full RB



03:26:40 AM 03/22/2025

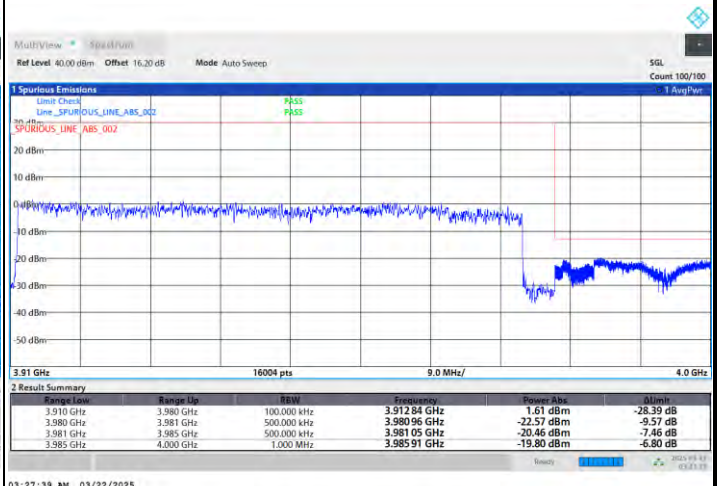
## FR1 n77 / 70MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



03:21:07 AM 03/22/2025

## Highest Band Edge / Full RB



03:27:39 AM 03/22/2025



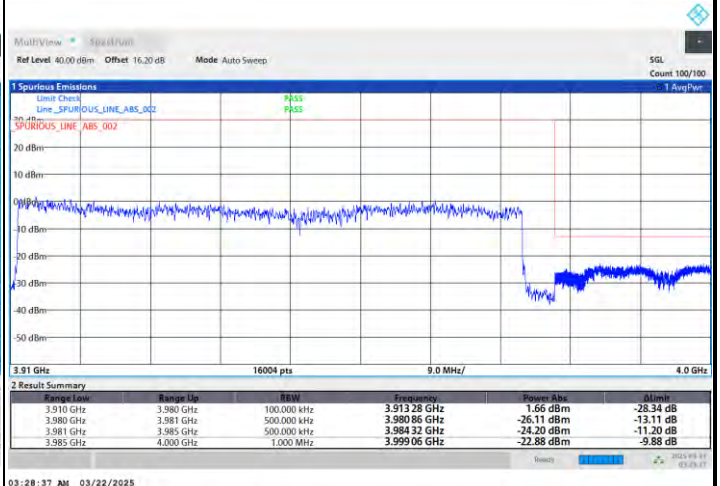
## FR1 n77 / 70MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB



03:22:05 AM 03/22/2025

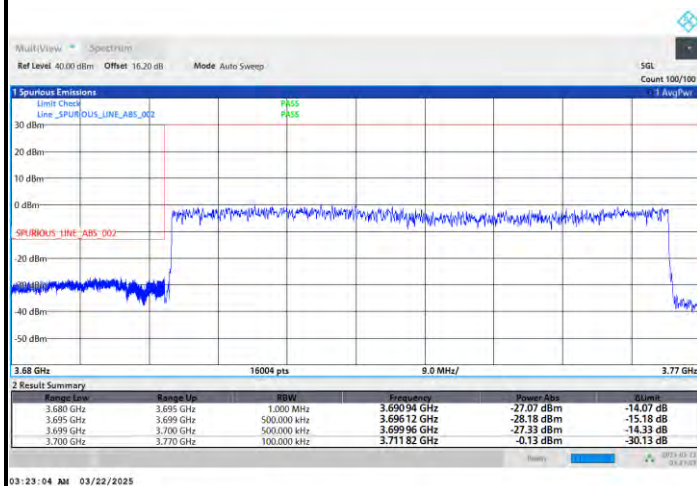
## Highest Band Edge / Full RB



03:28:37 AM 03/22/2025

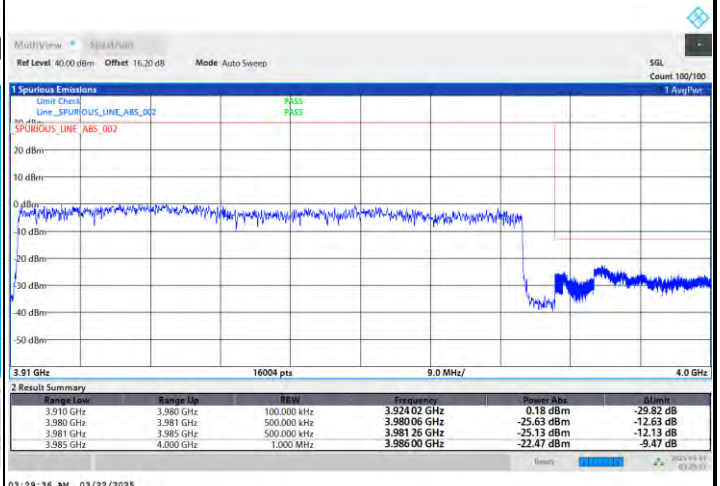
## FR1 n77 / 70MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB

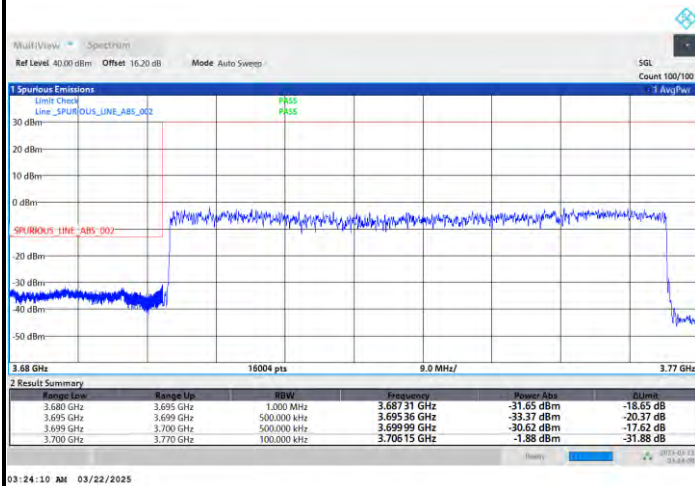
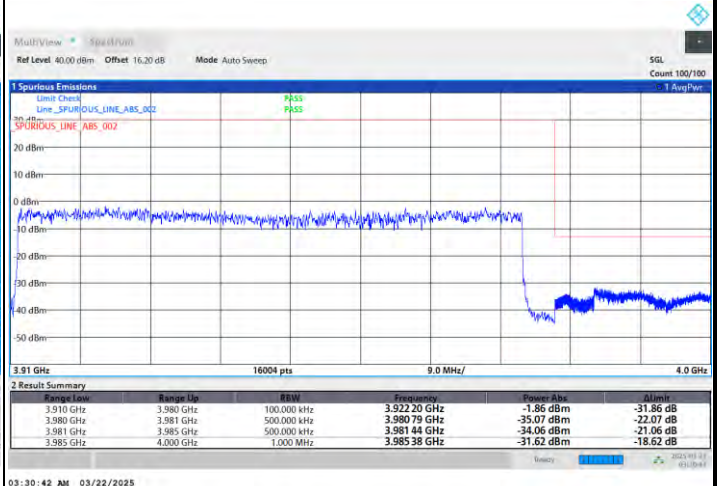
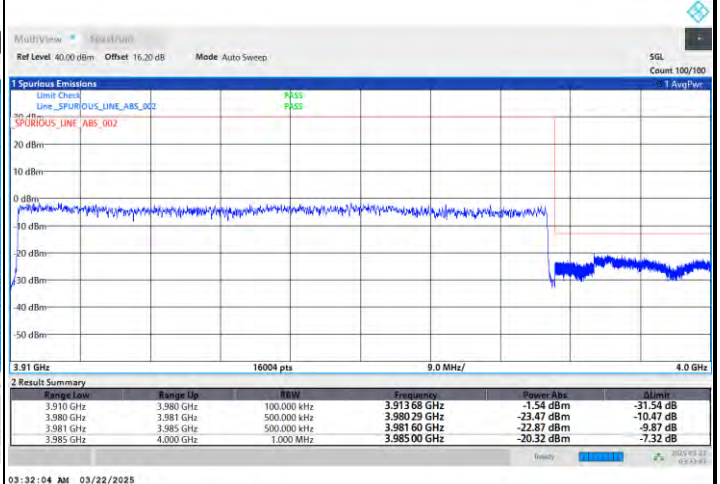


03:23:04 AM 03/22/2025

## Highest Band Edge / Full RB



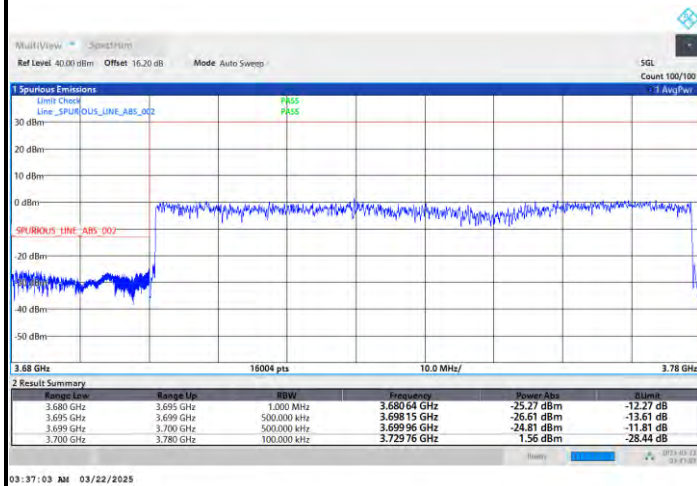
03:29:36 AM 03/22/2025

**FR1 n77 / 70MHz / DFT-S OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 70MHz / CP OFDM / QPSK / Full RB****Lowest Band Edge****Highest Band Edge**

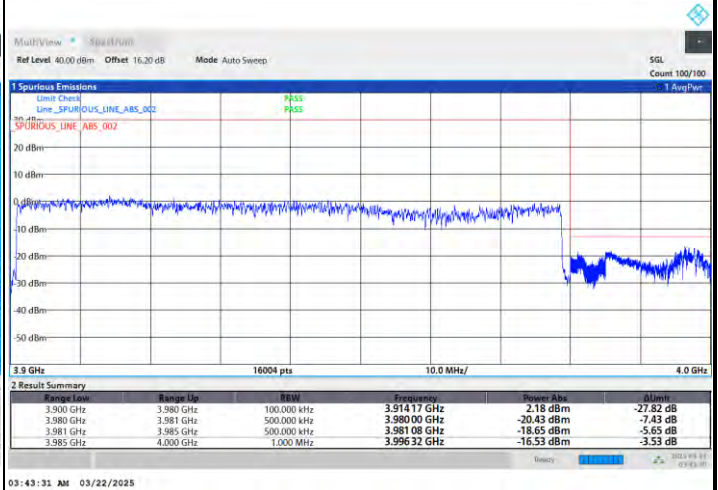


## FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

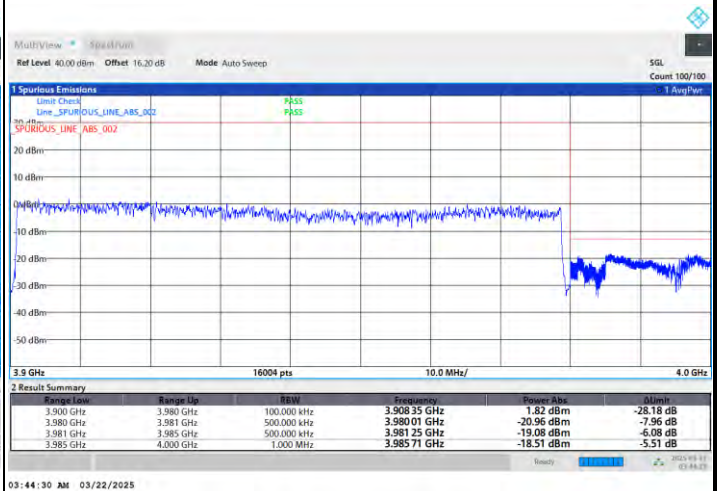


## FR1 n77 / 80MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



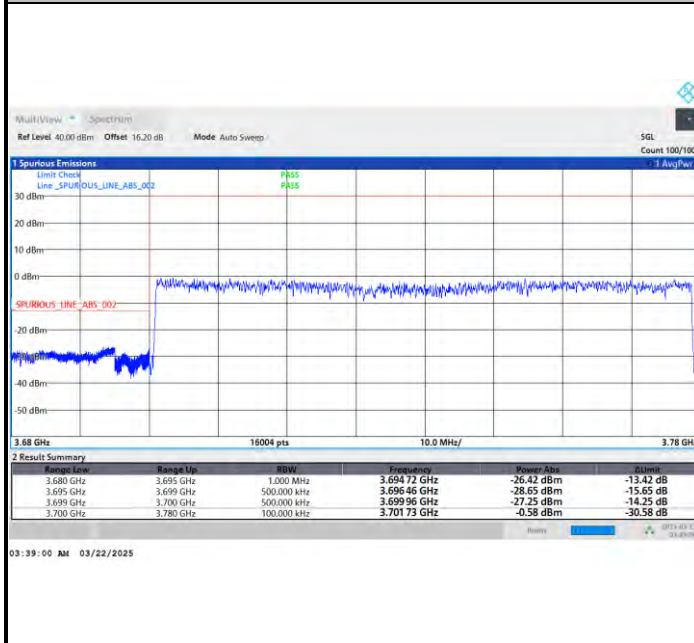
## Highest Band Edge / Full RB



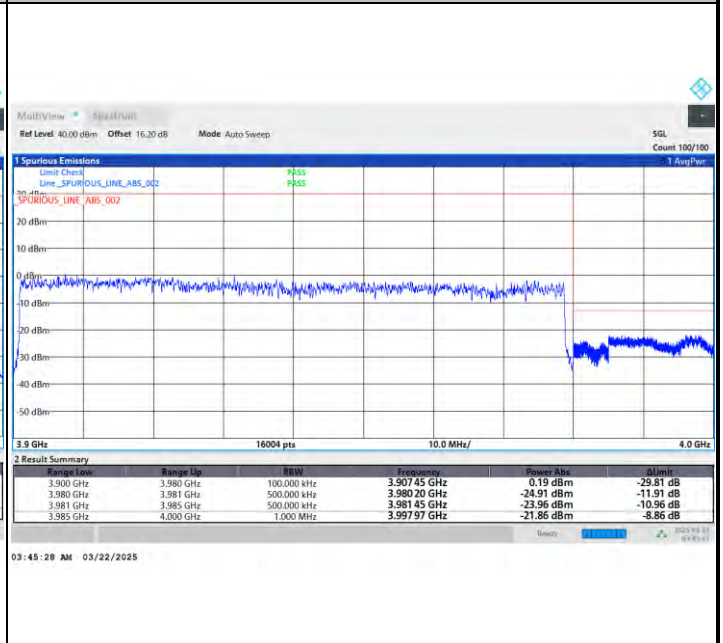


## FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB

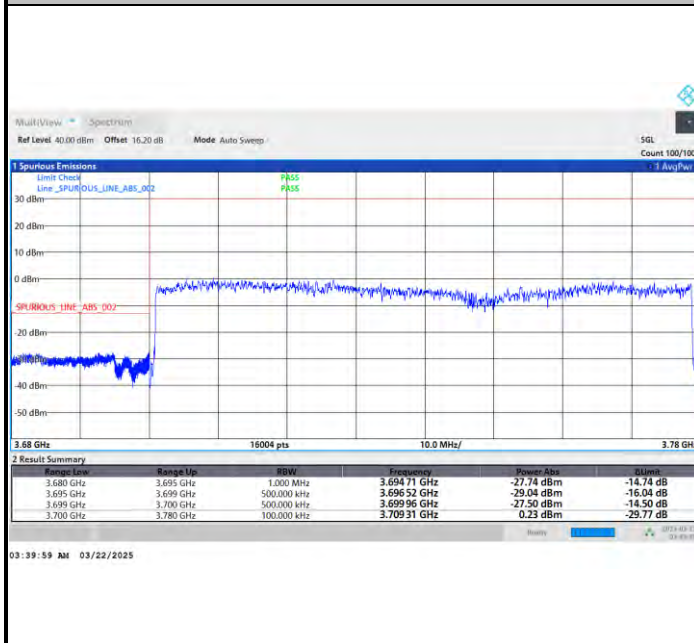


## Highest Band Edge / Full RB

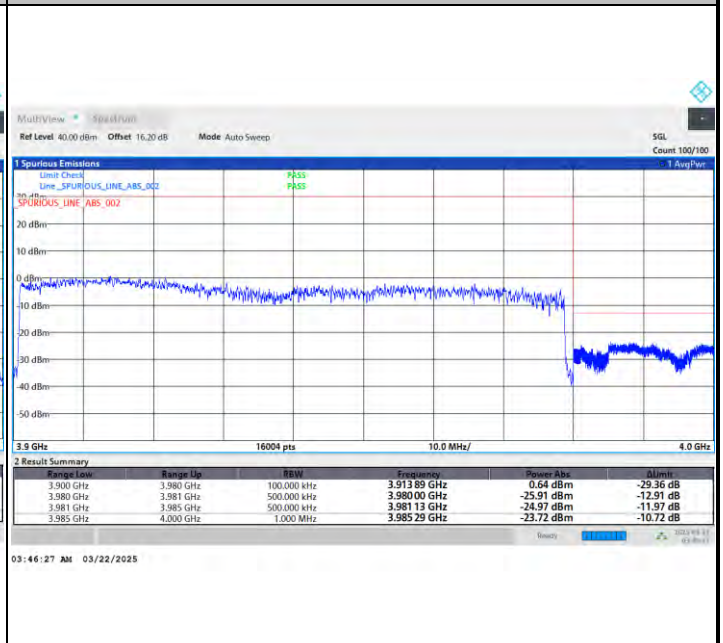


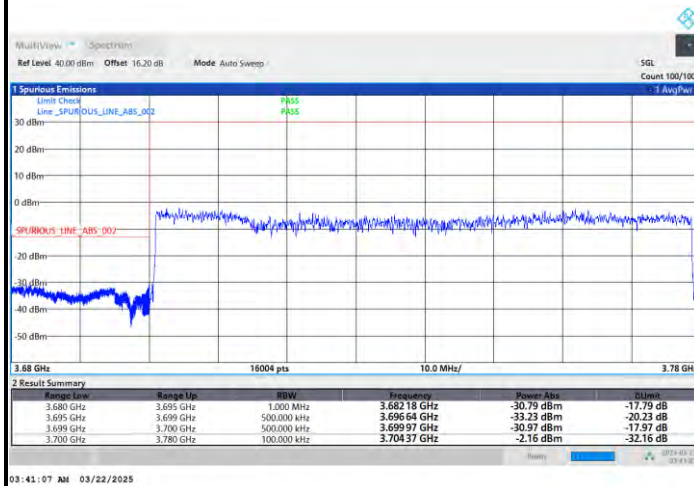
## FR1 n77 / 80MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB

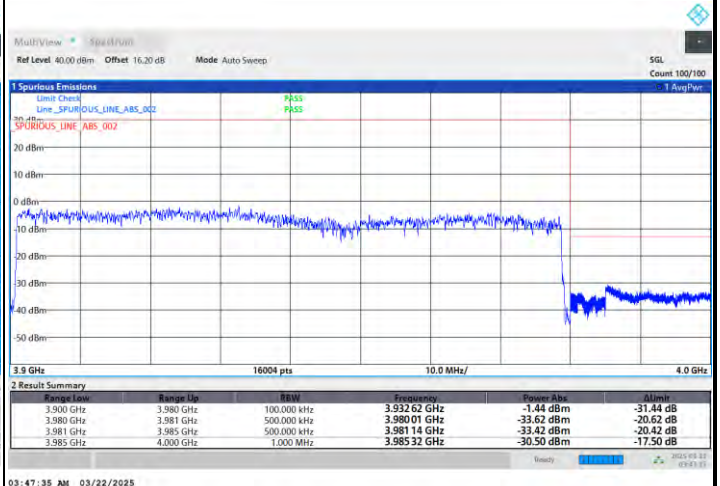


## Highest Band Edge / Full RB

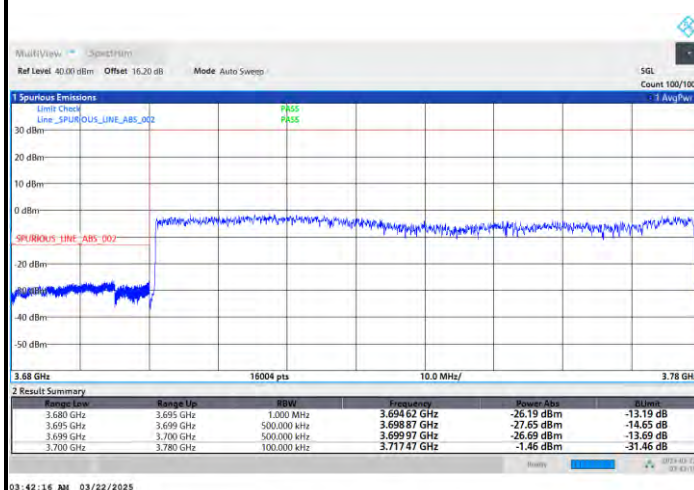


**FR1 n77 / 80MHz / DFT-S OFDM / 256QAM****Lowest Band Edge / Full RB**

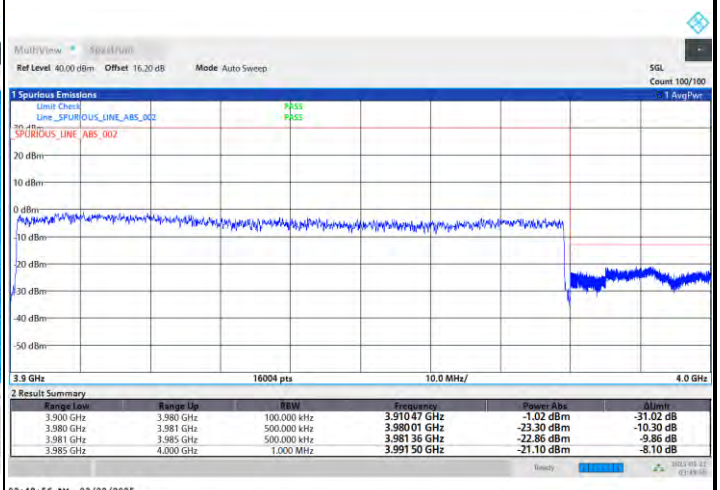
03:41:07 AM 03/22/2025

**Highest Band Edge / Full RB**

03:47:35 AM 03/22/2025

**FR1 n77 / 80MHz / CP OFDM / QPSK / Full RB****Lowest Band Edge**

03:42:16 AM 03/22/2025

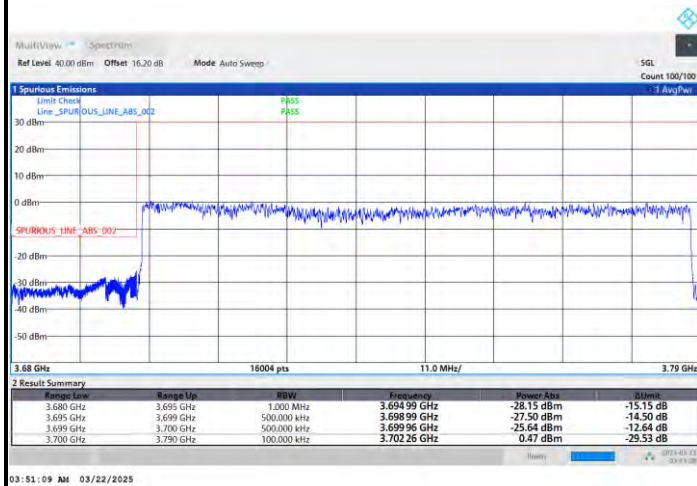
**Highest Band Edge**

03:48:56 AM 03/22/2025



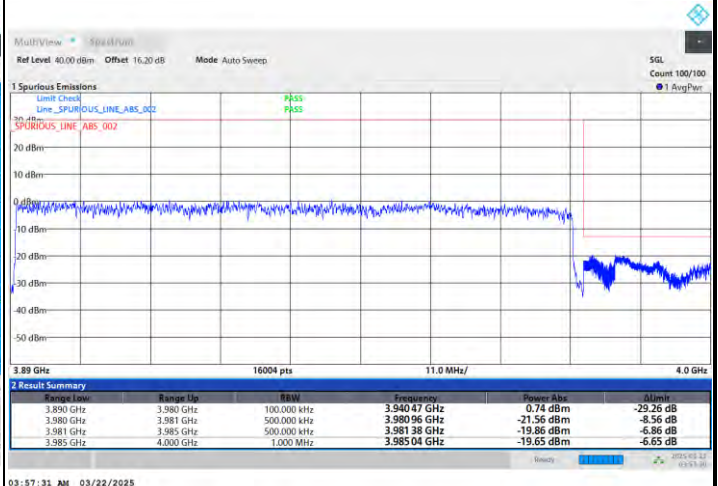
## FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



03:51:09 AM 03/22/2025

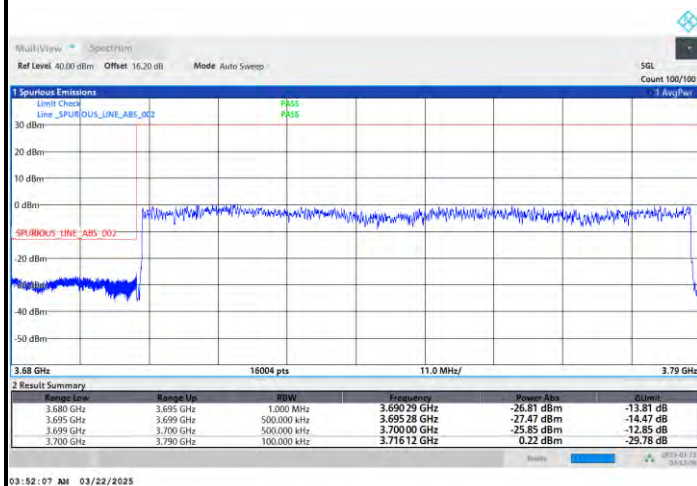
## Highest Band Edge / Full RB



03:57:31 AM 03/22/2025

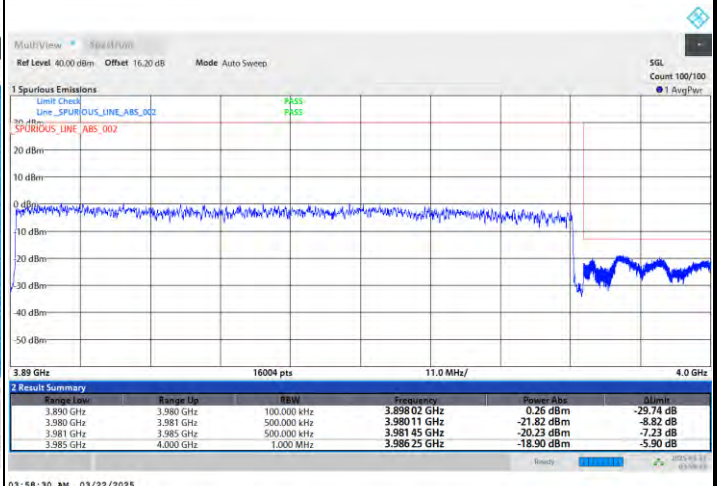
## FR1 n77 / 90MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



03:52:07 AM 03/22/2025

## Highest Band Edge / Full RB



03:58:30 AM 03/22/2025

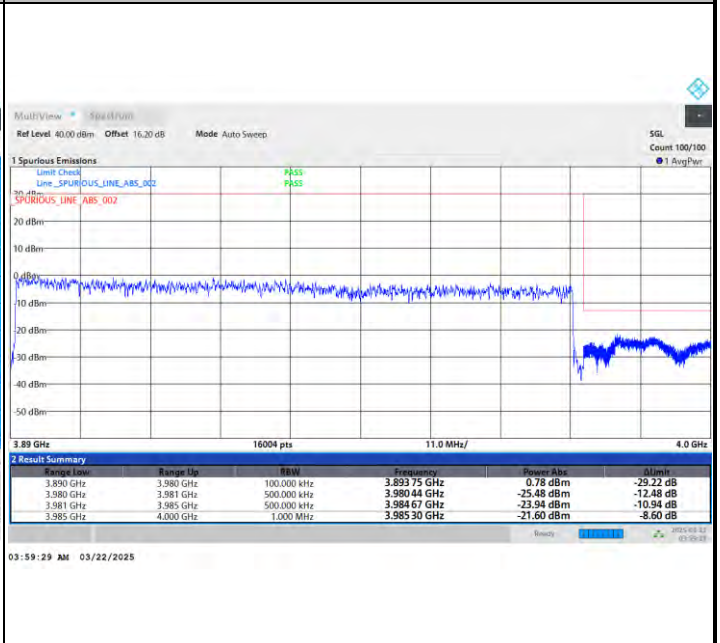


## FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB

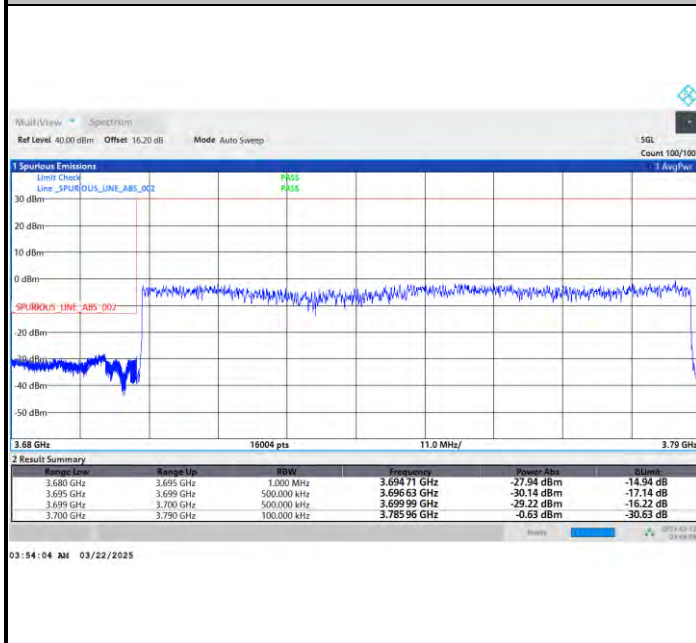


## Highest Band Edge / Full RB

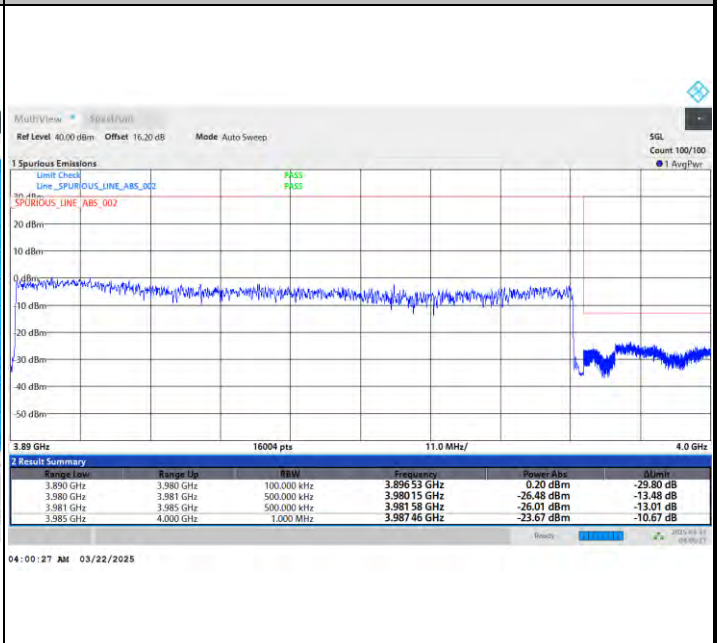


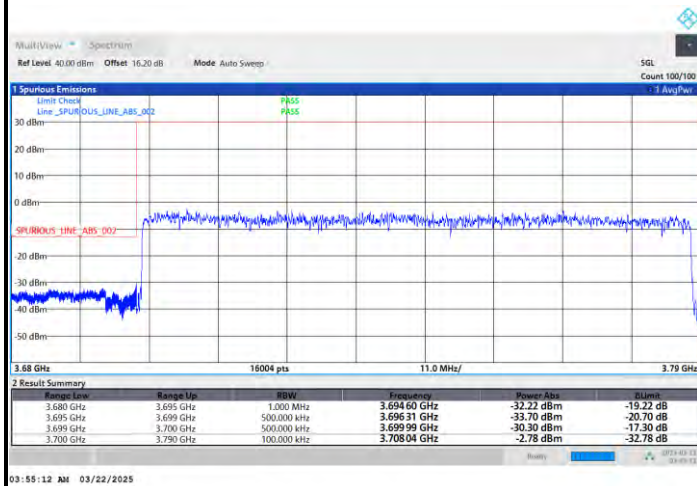
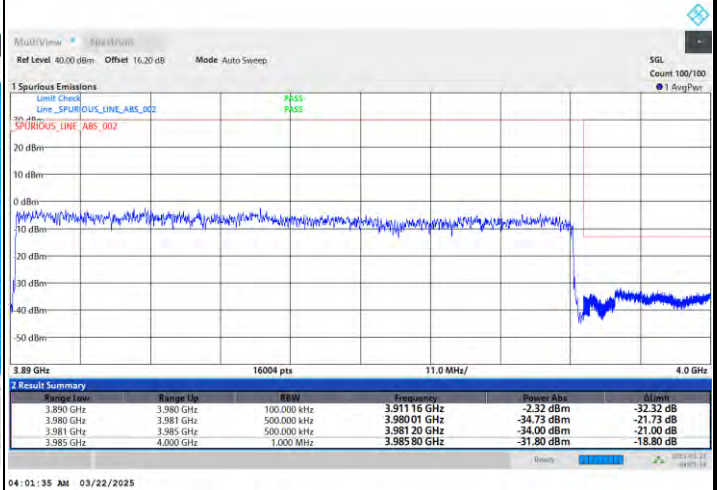
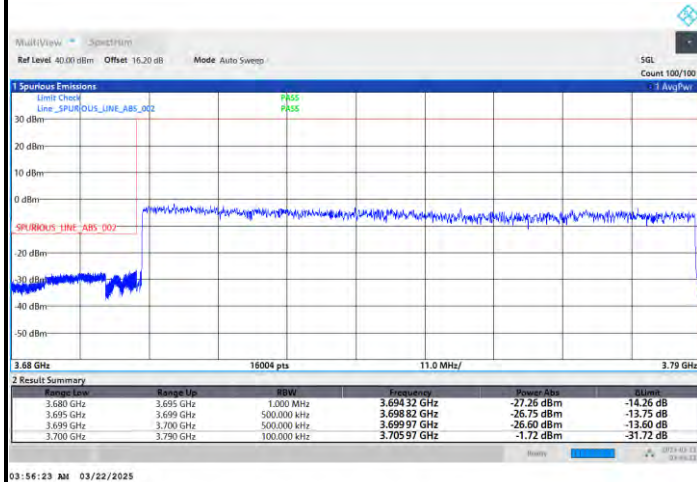
## FR1 n77 / 90MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

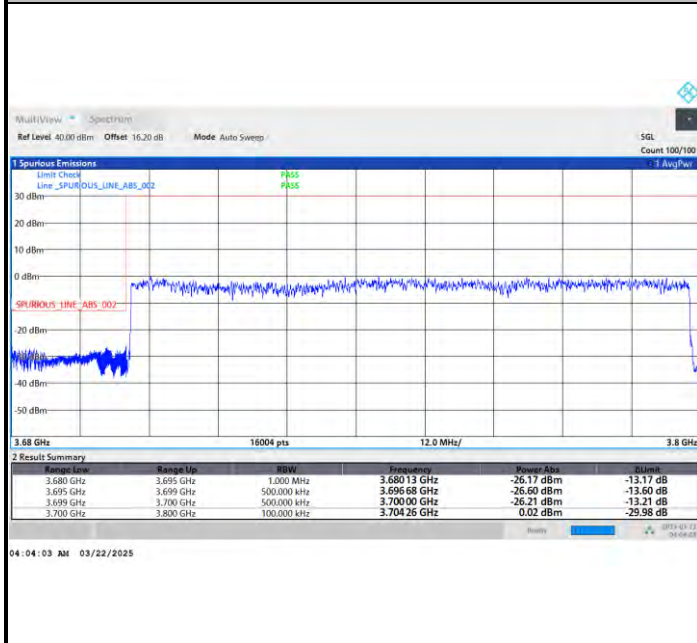


**FR1 n77 / 90MHz / DFT-S OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 90MHz / CP OFDM / QPSK / Full RB****Lowest Band Edge****Highest Band Edge**

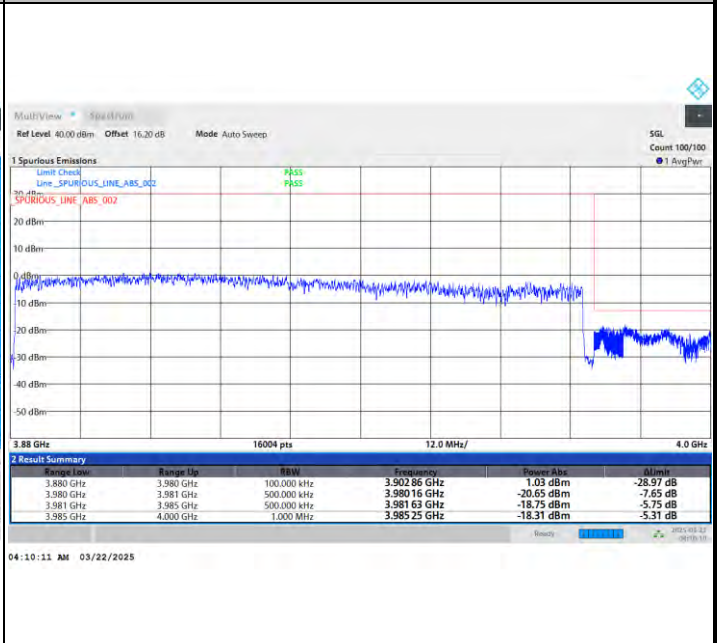


## FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

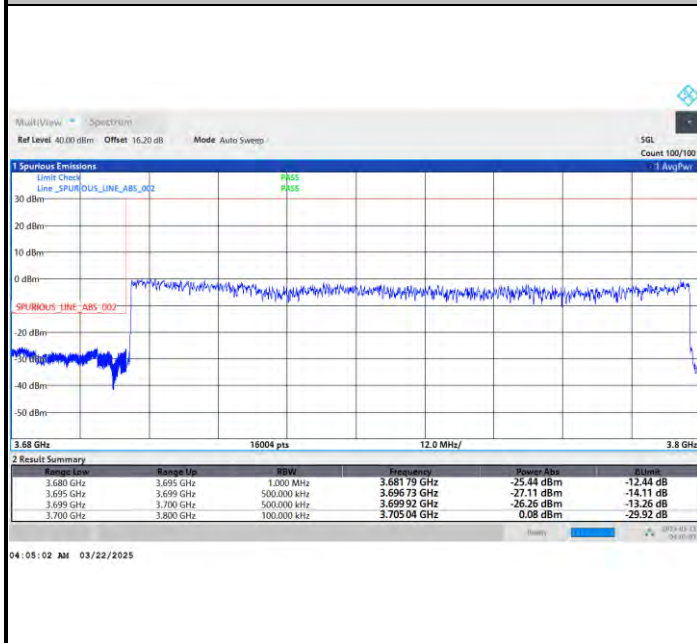


## Highest Band Edge / Full RB



## FR1 n77 / 100MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB





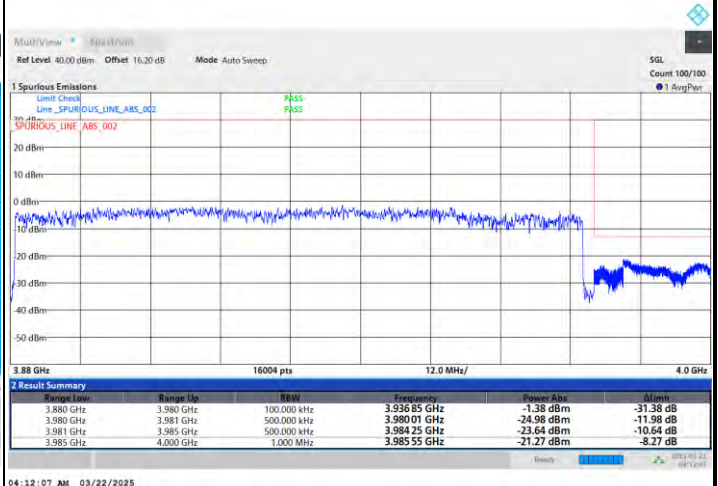
## FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB



04:06:00 AM 03/22/2025

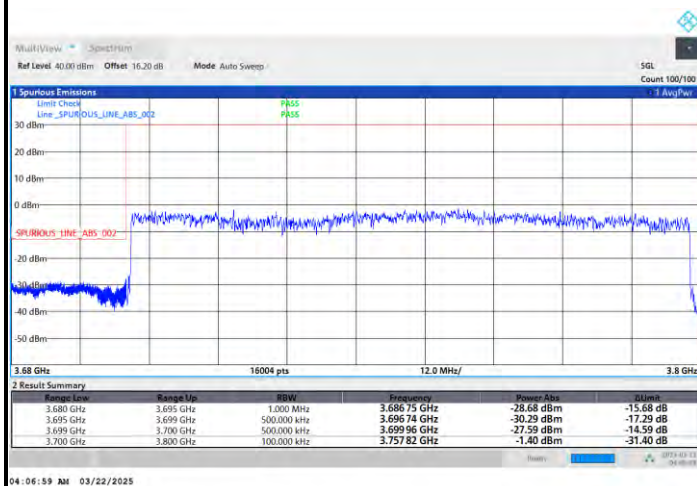
## Highest Band Edge / Full RB



04:12:07 AM 03/22/2025

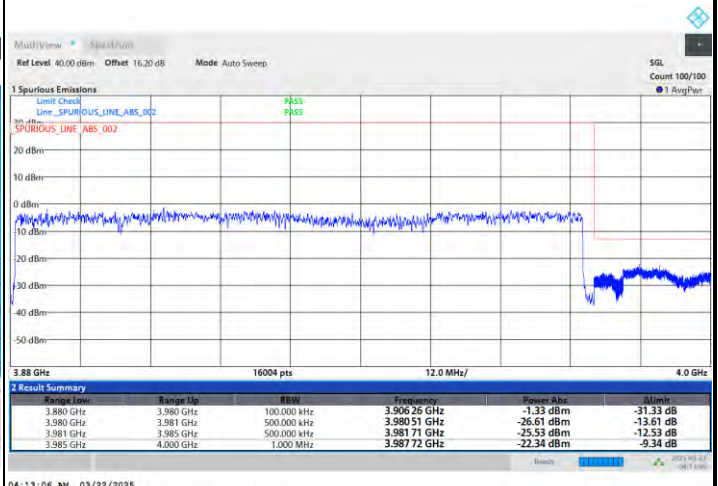
## FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



04:06:59 AM 03/22/2025

## Highest Band Edge / Full RB

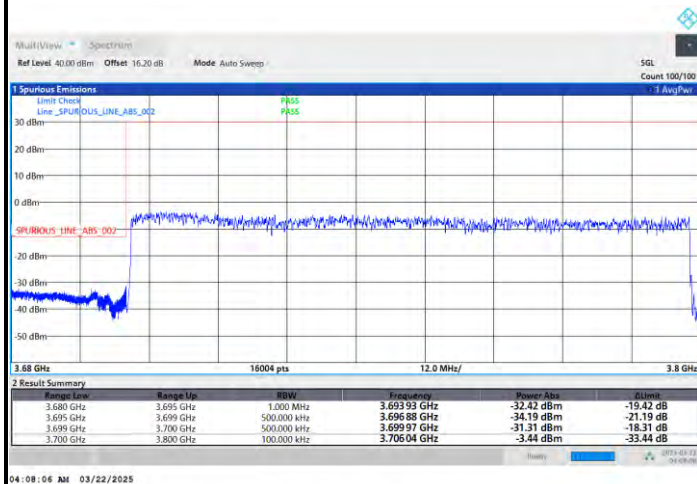


04:13:06 AM 03/22/2025



## FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB

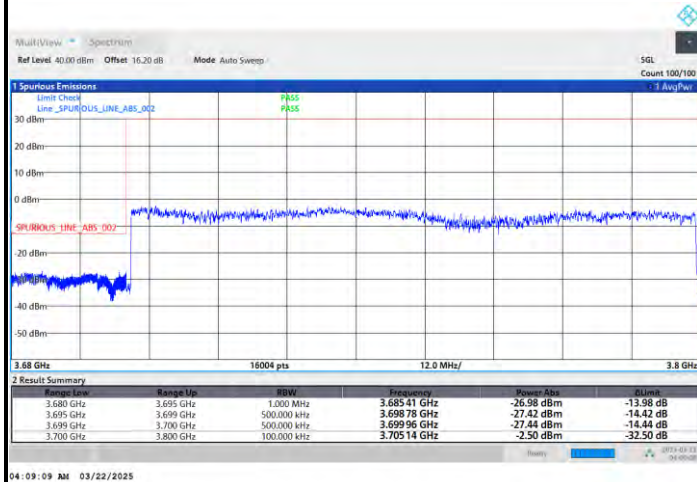


## Highest Band Edge / Full RB

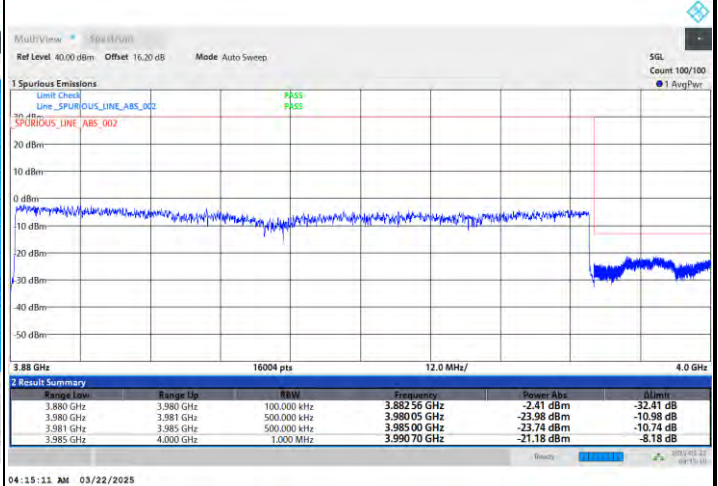


## FR1 n77 / 100MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



## Highest Band Edge

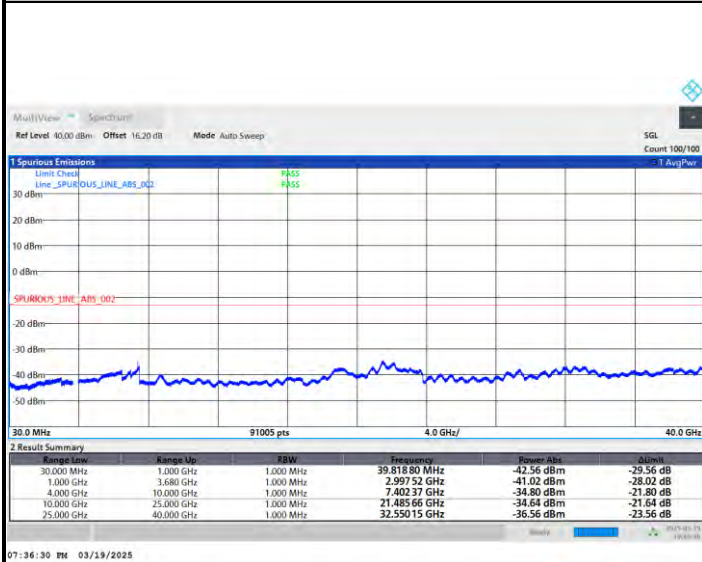




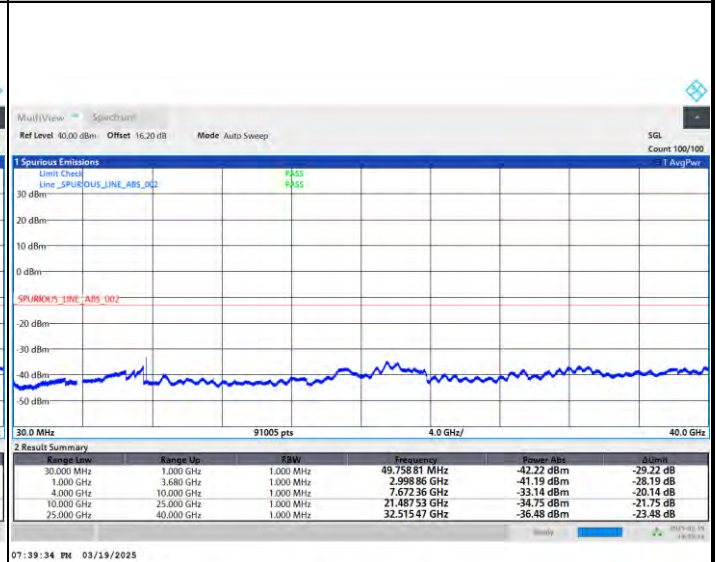
# Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

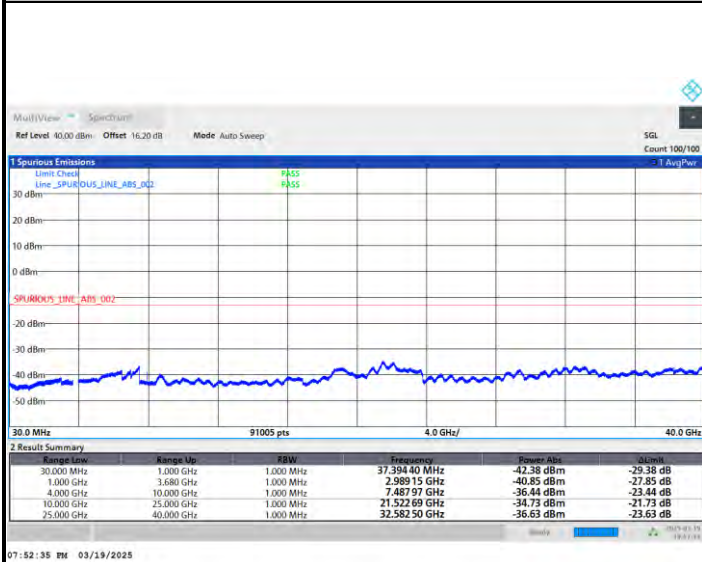
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n77 (BPSK) / Middle Channel | Limit   |
|---------------------|-------------------|---------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 20MHz                        | Note 2. |
|                     |                   | Deviation (ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0010                          | PASS    |
| 40                  | Normal Voltage    | 0.0000                          |         |
| 30                  | Normal Voltage    | 0.0010                          |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                          |         |
| 10                  | Normal Voltage    | 0.0012                          |         |
| 0                   | Normal Voltage    | 0.0007                          |         |
| -10                 | Normal Voltage    | 0.0030                          |         |
| -20                 | Normal Voltage    | 0.0012                          |         |
| -30                 | Normal Voltage    | 0.0022                          |         |
| 20                  | Maximum Voltage   | 0.0010                          |         |
| 20                  | Normal Voltage    | 0.0000                          |         |
| 20                  | Minimum Voltage   | 0.0013                          |         |

**Note:**

1. Normal Voltage = 3.85 V. ; Minimum Voltage = 3.30 V. ; Maximum Voltage = 4.40 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

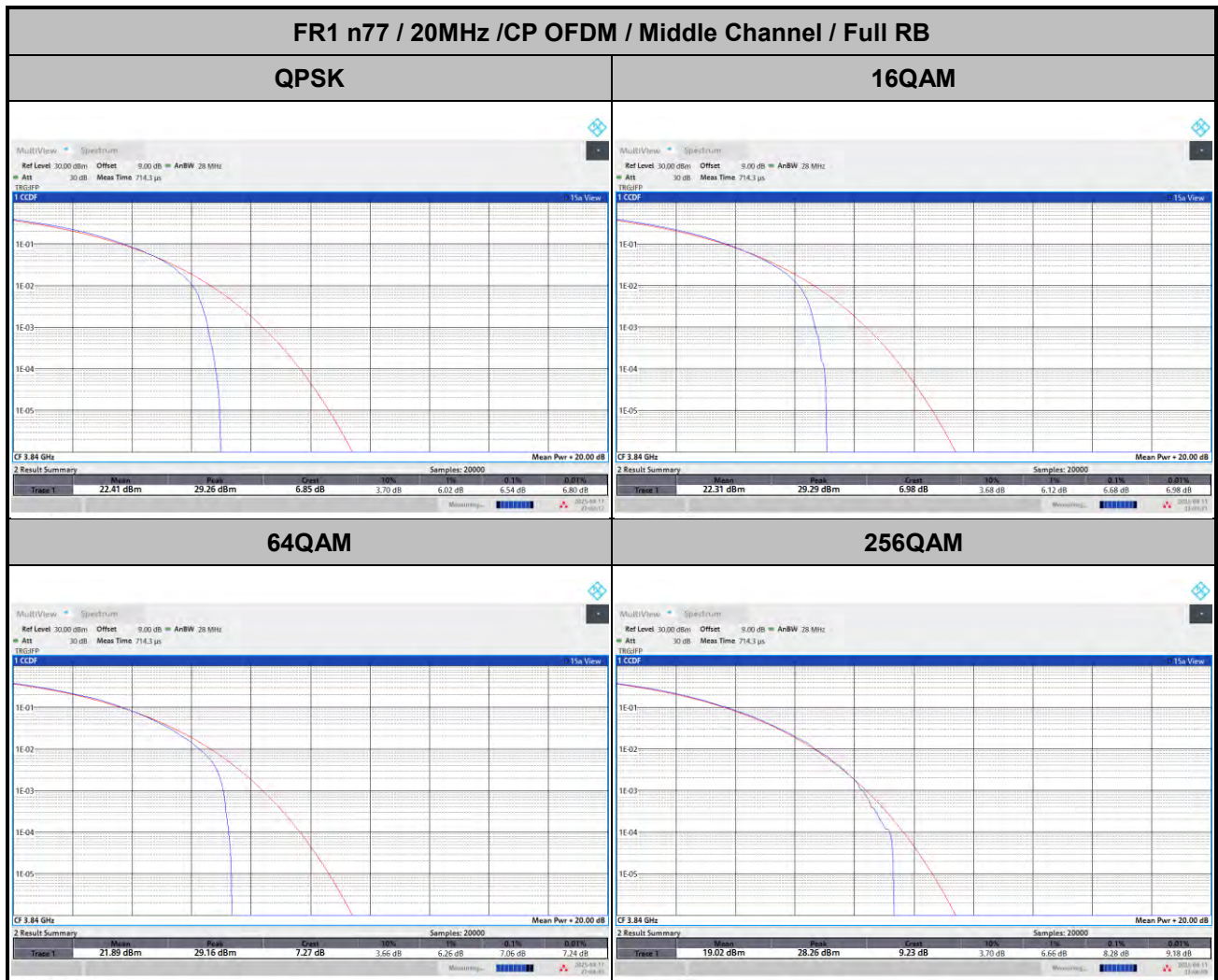


## &lt;MIMO Mode&gt;

## MIMO &lt;Ant. 5+7&gt; (Ant. 5)

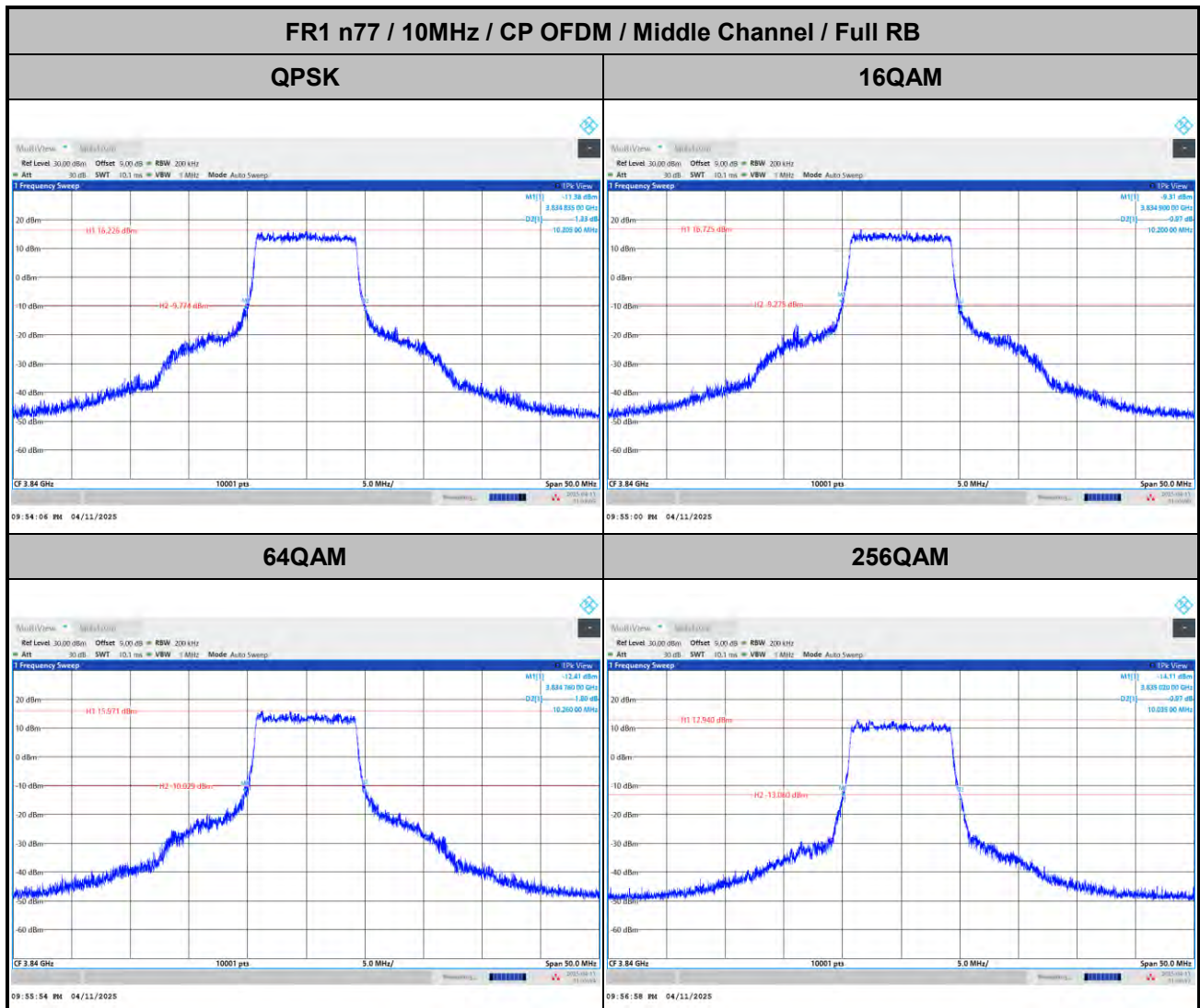
## Peak-to-Average Ratio

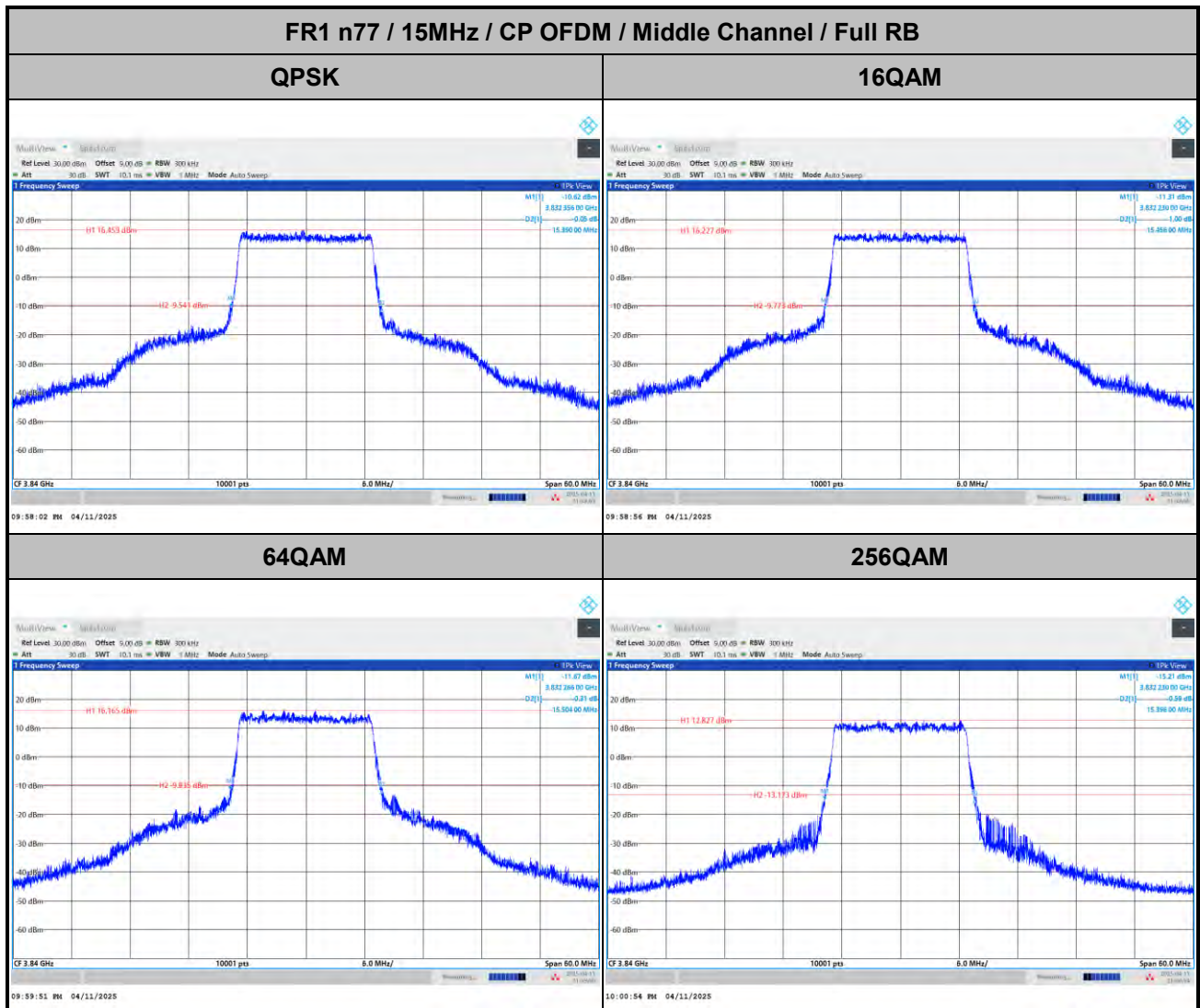
| Mode      | FR1 n77 / 20MHz / CP OFDM |         |         |         |             |
|-----------|---------------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                      | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB                   | Full RB | Full RB | Full RB | Result      |
| Middle CH | 6.54                      | 6.68    | 7.06    | 8.28    | PASS        |



**26dB Bandwidth**

| Mode      | FR1 n77 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |        |        |
|-----------|----------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                            |        | 15MHz |        | 20MHz |        | 25MHz  |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 10.20                            | 10.20  | 15.39 | 15.45  | 20.41 | 20.41  | 25.37  | 25.40  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 10.26                            | 10.03  | 15.50 | 15.39  | 20.25 | 20.22  | 25.21  | 25.39  |
| BW        | 30MHz                            |        | 40MHz |        | 50MHz |        | 60MHz  |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 30.78                            | 31.00  | 40.94 | 40.94  | 50.67 | 50.93  | 62.86  | 62.95  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 30.93                            | 30.83  | 40.90 | 41.05  | 50.86 | 50.70  | 64.30  | 62.65  |
| BW        | 70MHz                            |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 72.76                            | 72.74  | 80.95 | 80.82  | 92.71 | 92.69  | 103.01 | 102.74 |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 73.74                            | 72.31  | 80.88 | 80.71  | 92.92 | 92.77  | 102.87 | 102.51 |

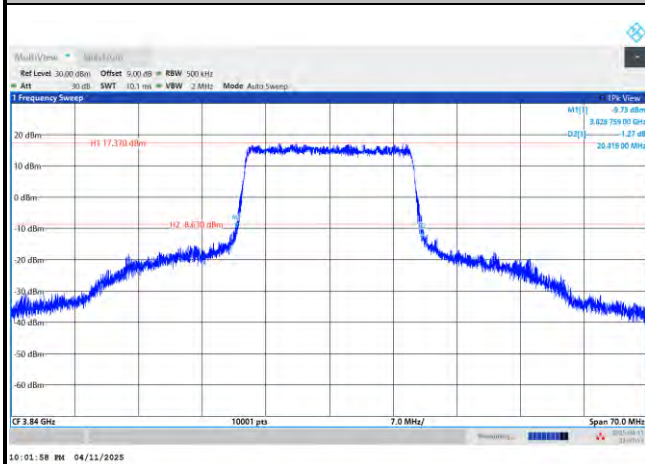




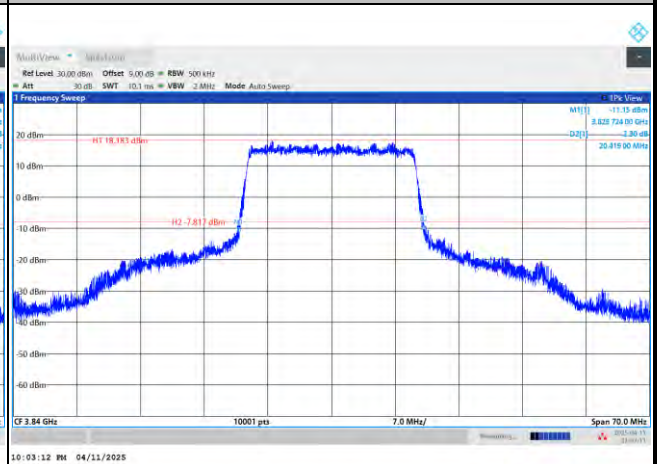


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

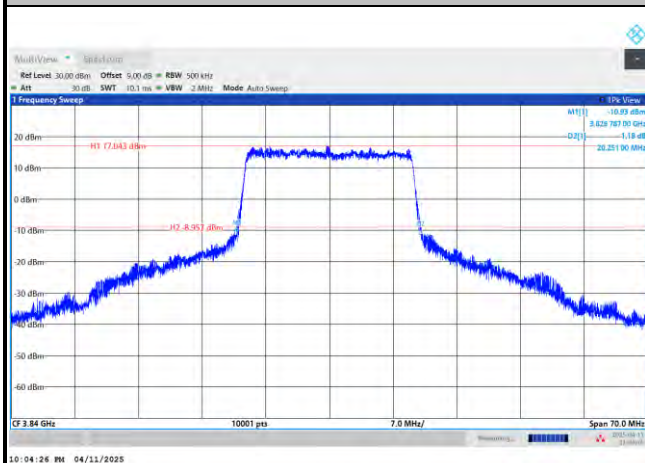
QPSK



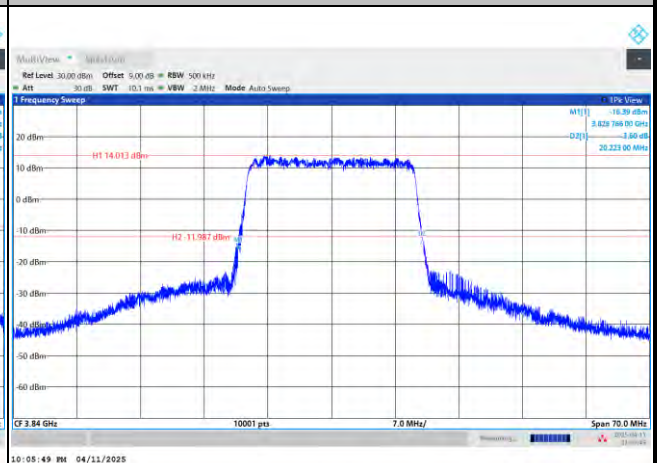
16QAM

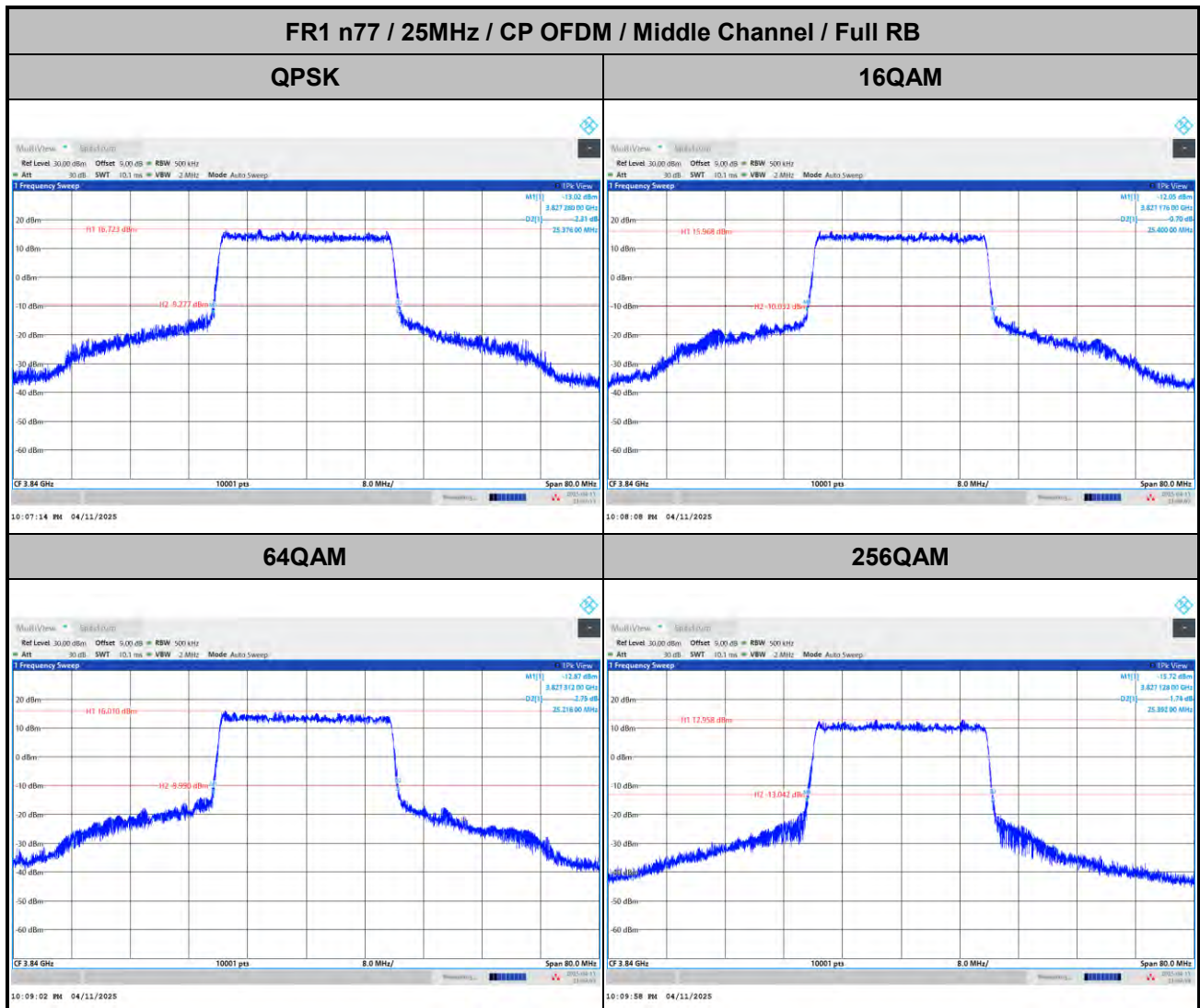


64QAM



256QAM

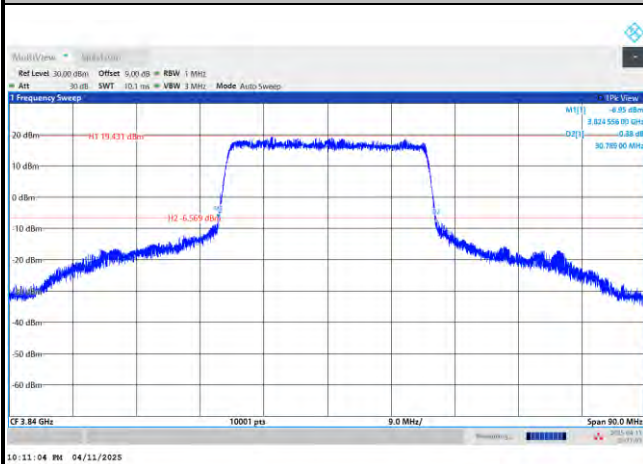




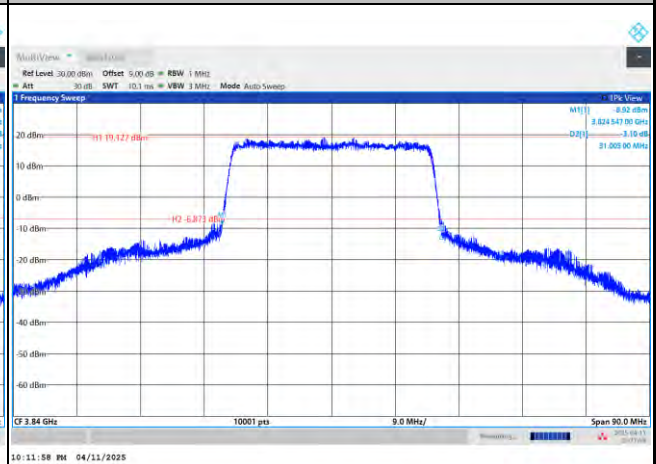


## FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

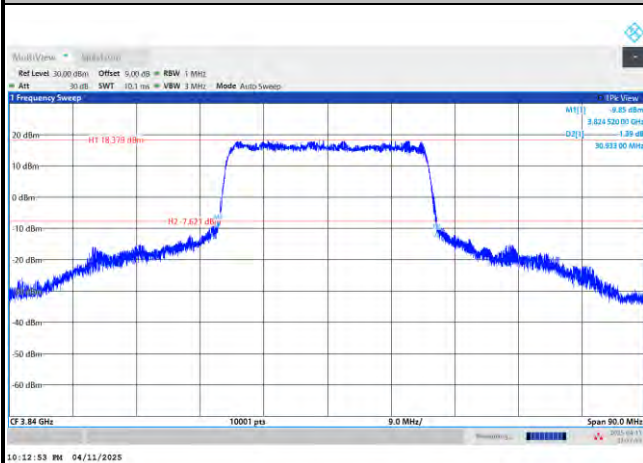
## QPSK



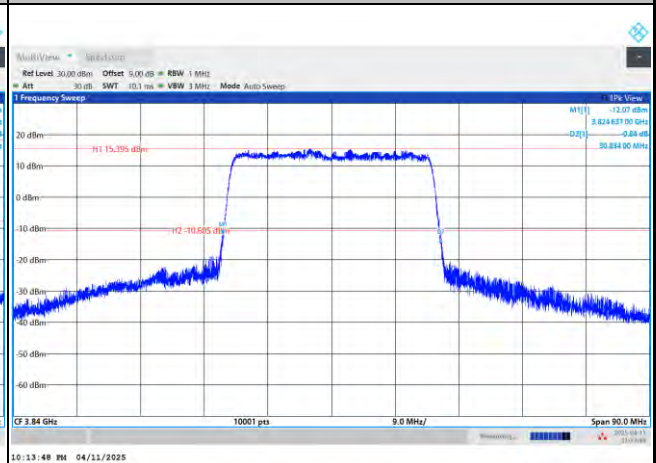
## 16QAM



## 64QAM



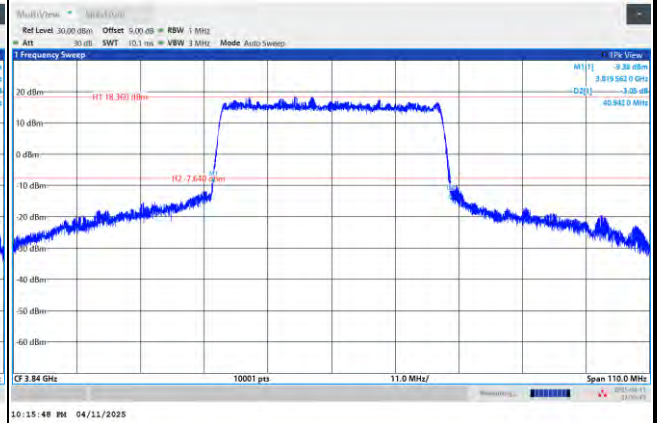
## 256QAM





FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

## 16QAM



## 256QAM

