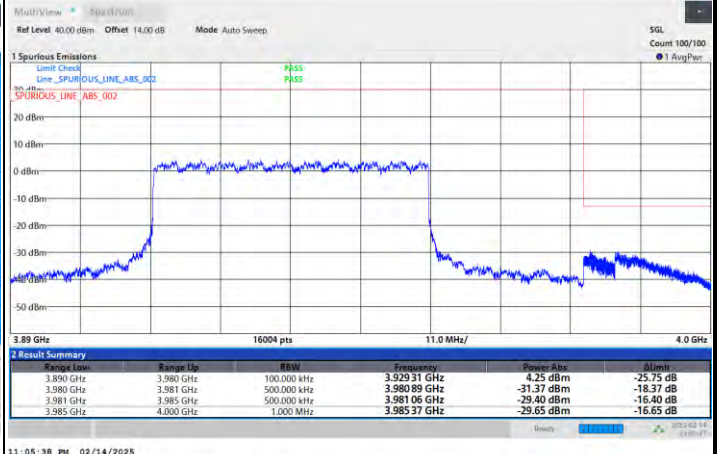
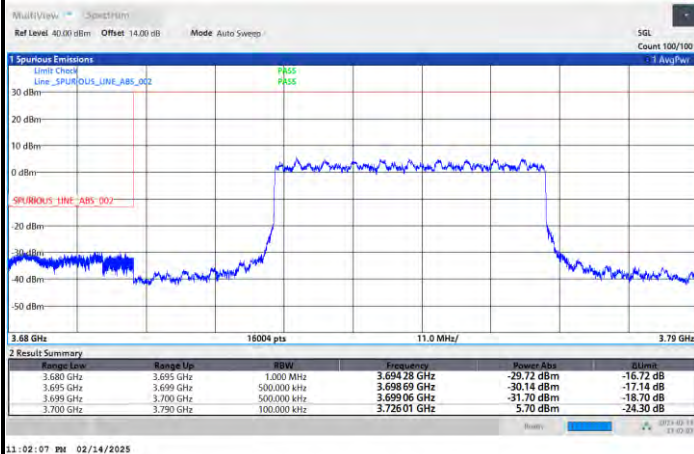




## FR1 n77 / 90MHz / DFT-S OFDM / QPSK

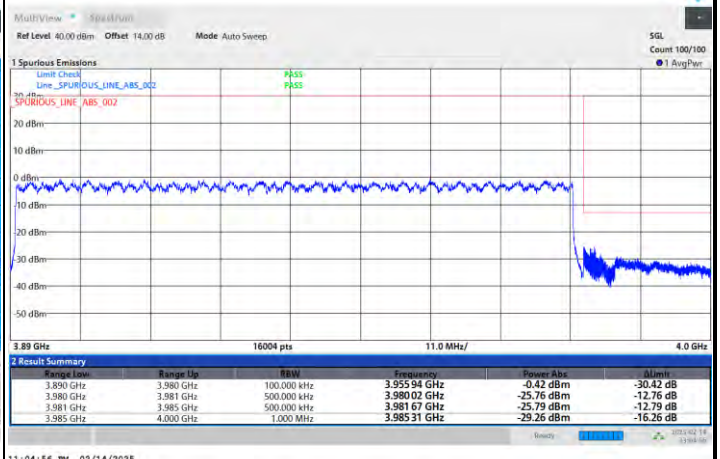
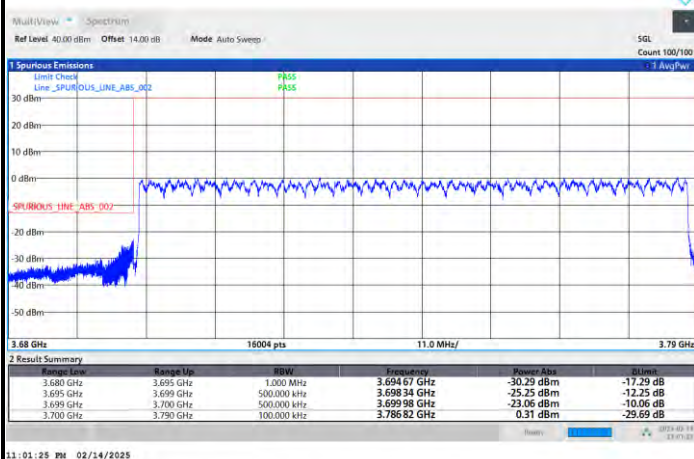
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

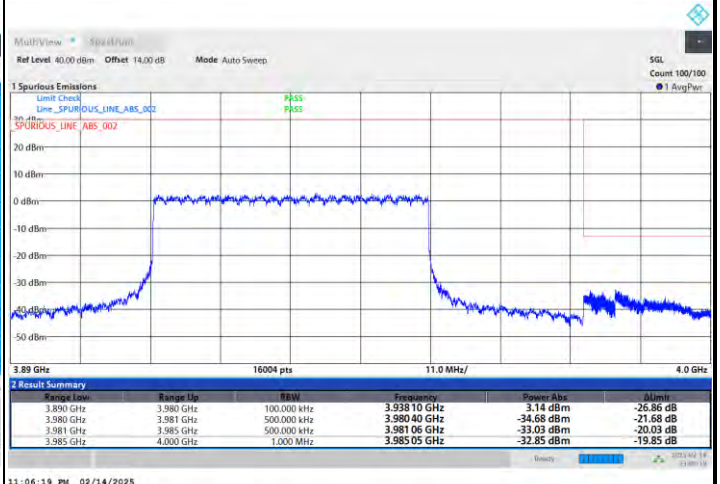
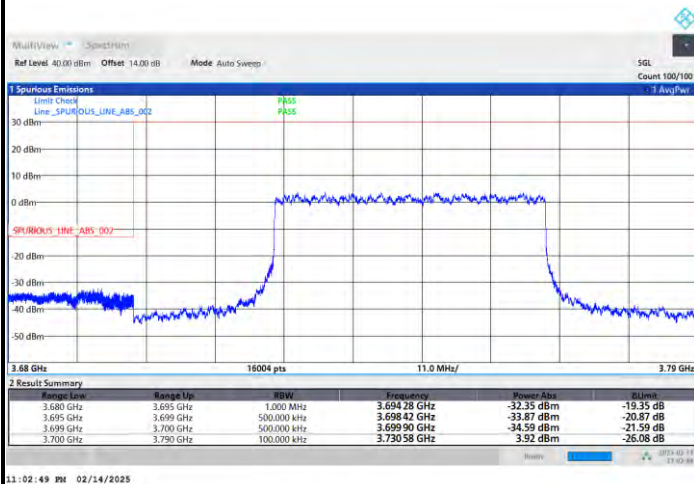




## FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

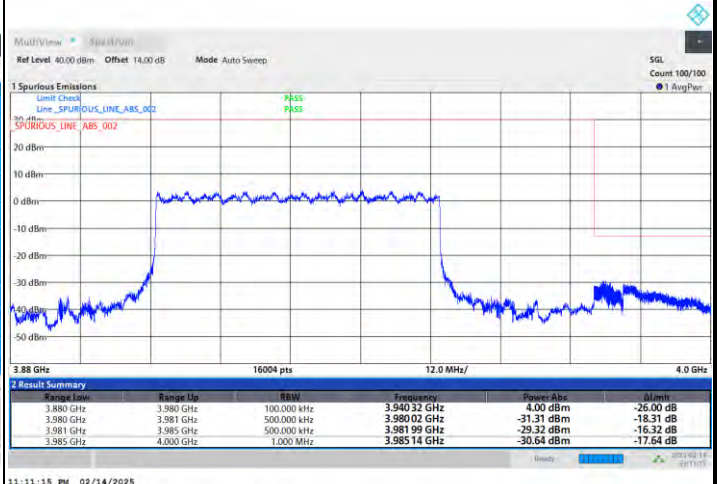
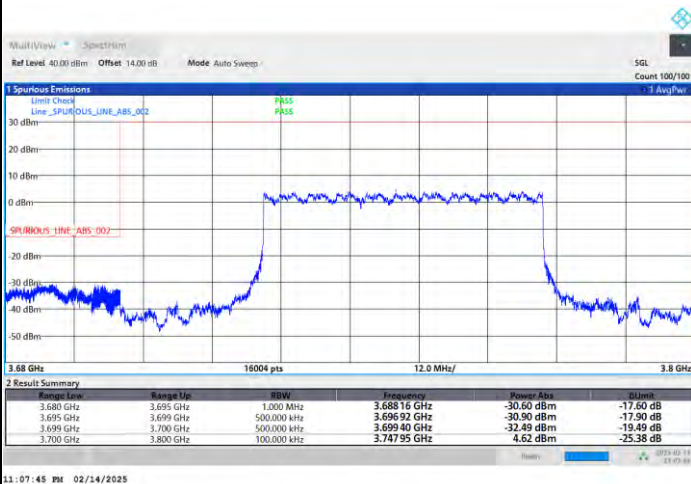




## FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Inner Full RB

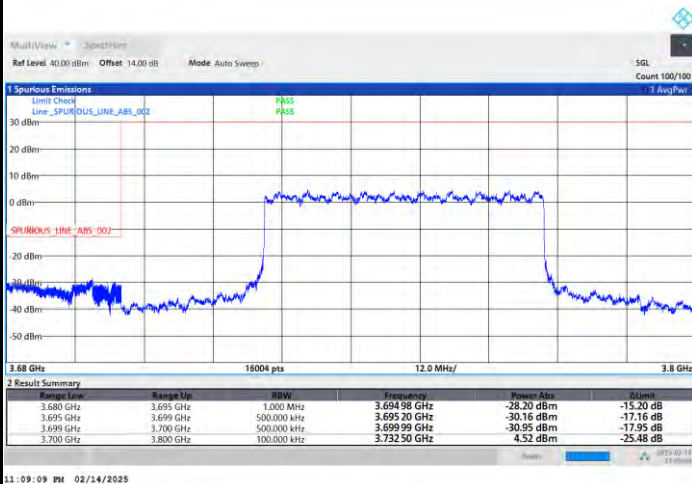
## Highest Band Edge / Inner Full RB



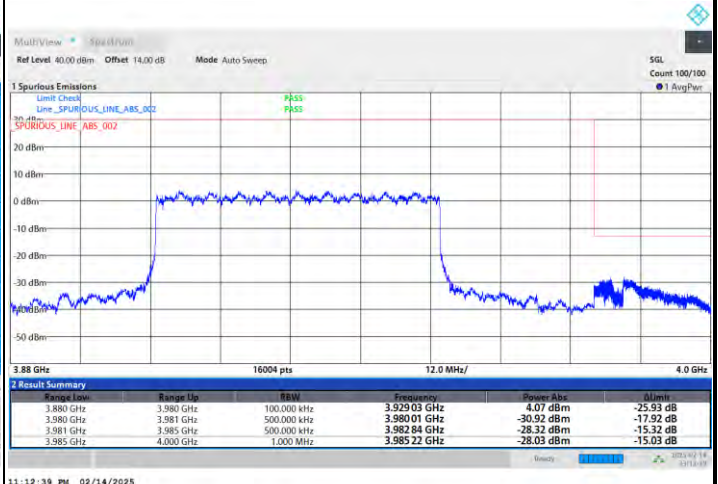
## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

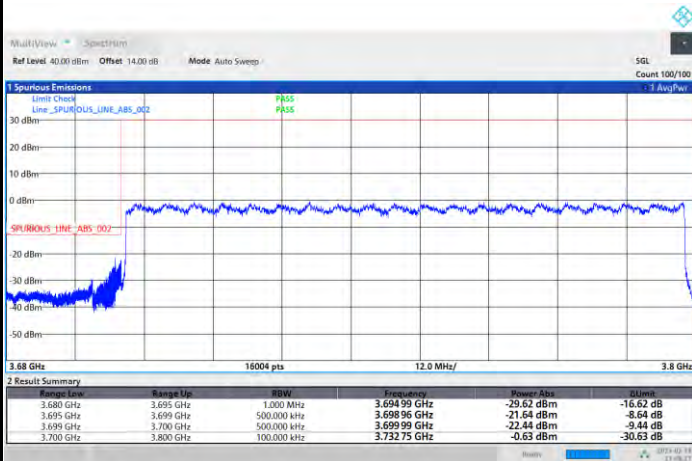


**FR1 n77 / 100MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Inner Full RB****Highest Band Edge / Inner Full RB**

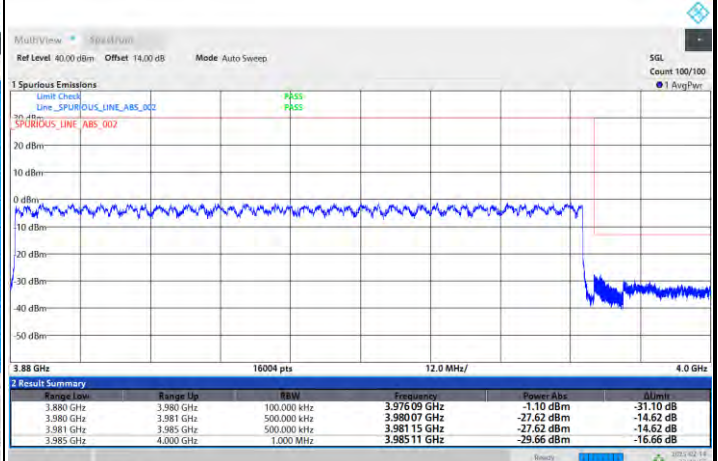
11:09:09 PM 02/14/2025



11:12:39 PM 02/14/2025

**Lowest Band Edge / Outer Full RB****Highest Band Edge / Outer Full RB**

11:08:27 PM 02/14/2025



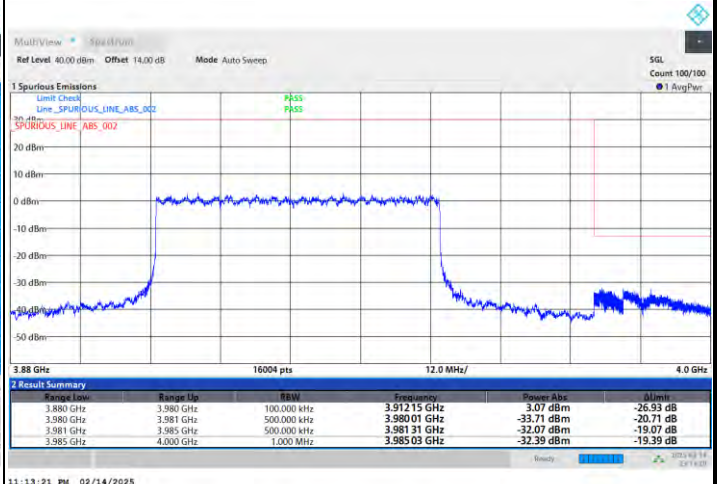
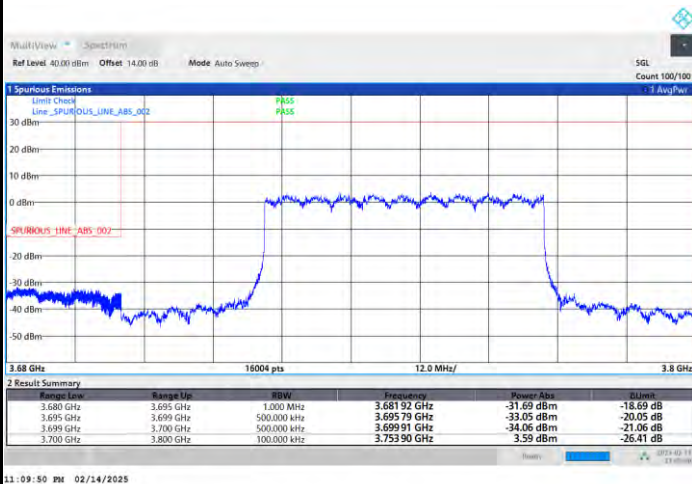
11:11:57 PM 02/14/2025



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

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB





# Conducted Spurious Emission

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

## Lowest Channel



## Middle Channel



## Highest Channel





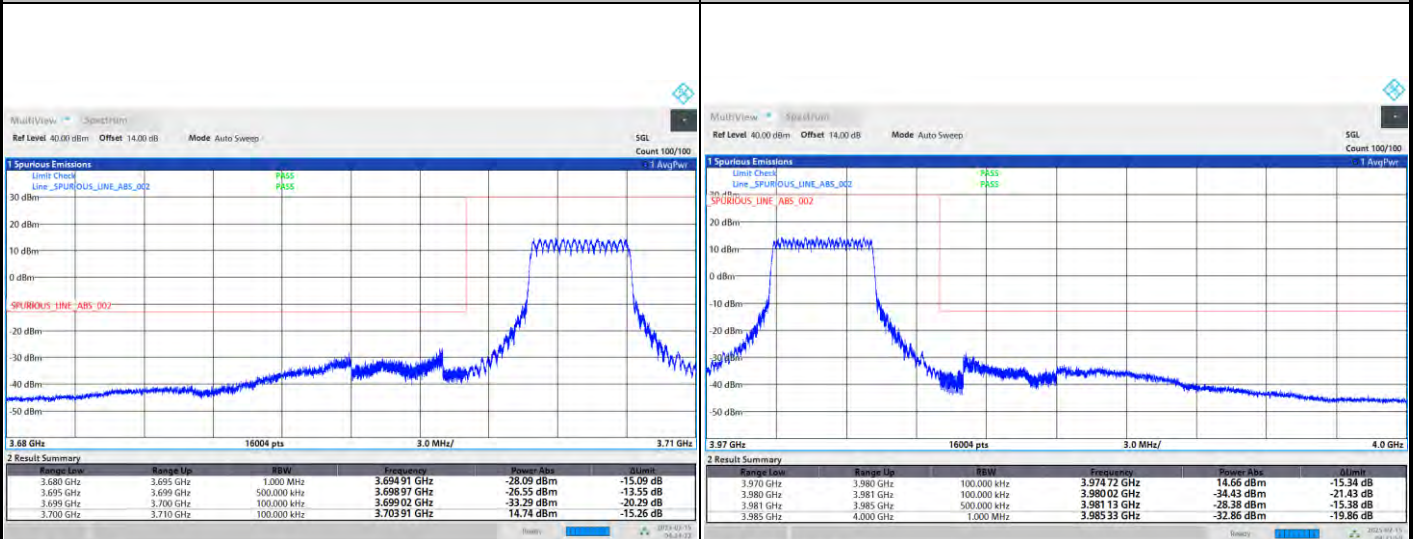
MIMO &lt;Ant. 6+1&gt; (Ant. 1)

## Conducted Band Edge

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

Lowest Band Edge / Inner Full RB

Highest Band Edge / Inner Full RB

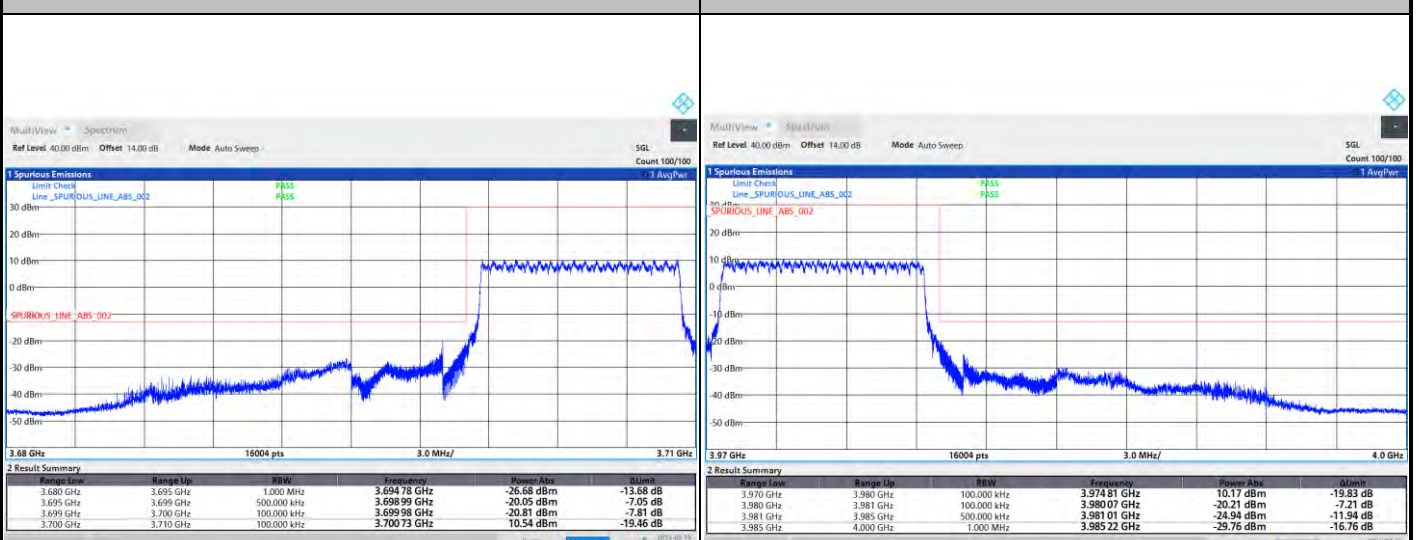


04:24:22 AM 02/15/2025

04:31:59 AM 02/15/2025

Lowest Band Edge / Outer Full RB

Highest Band Edge / Outer Full RB



04:23:40 AM 02/15/2025

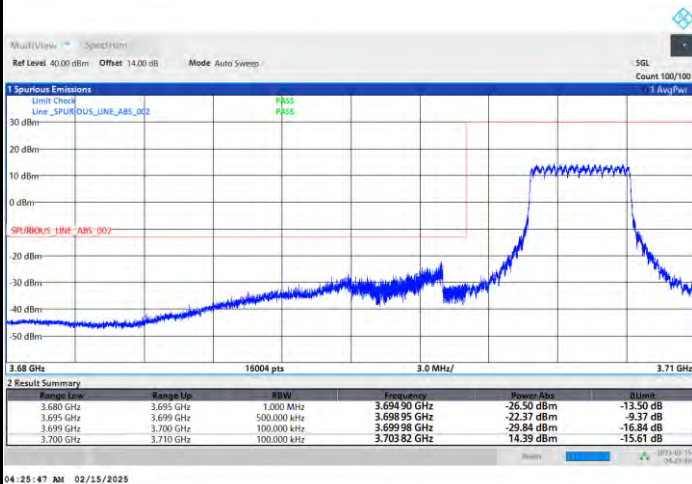
04:31:17 AM 02/15/2025



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

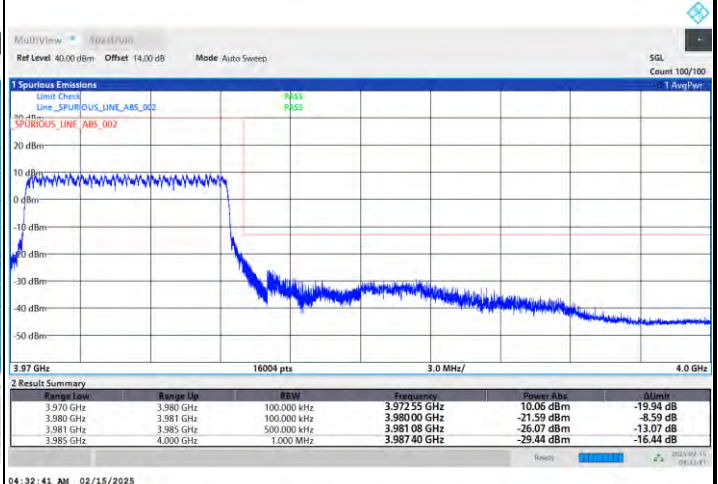
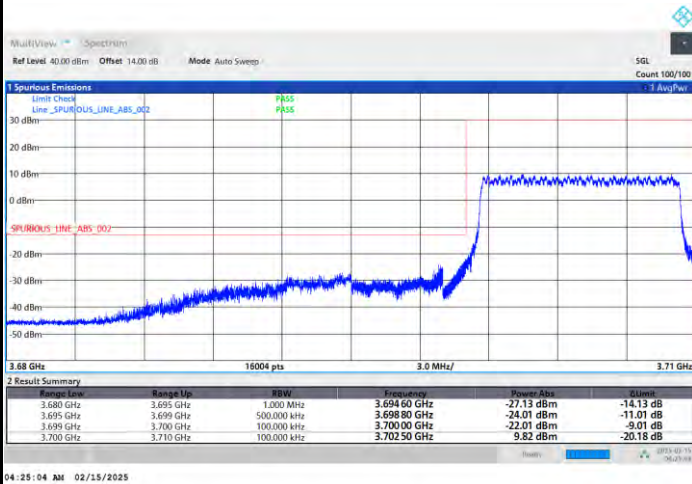
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

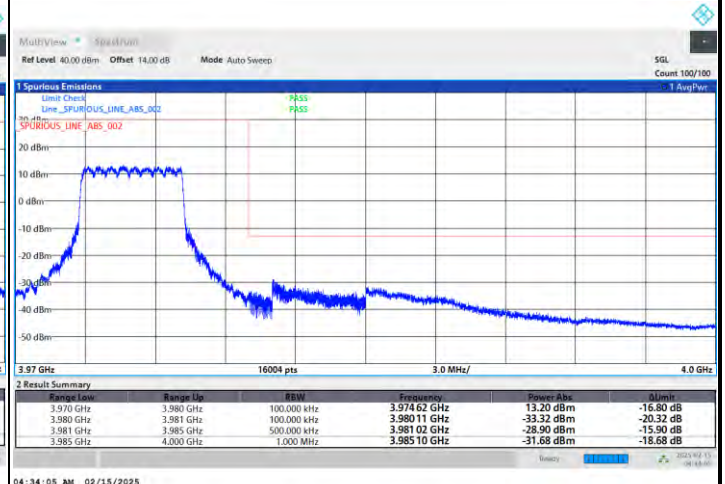
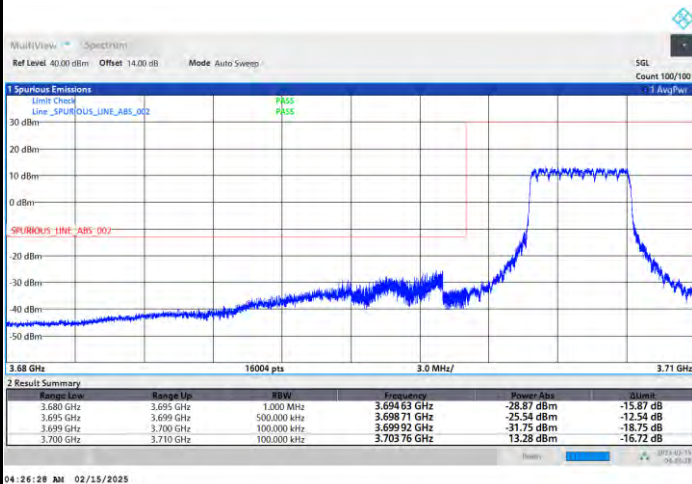




## FR1 n77 / 10MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

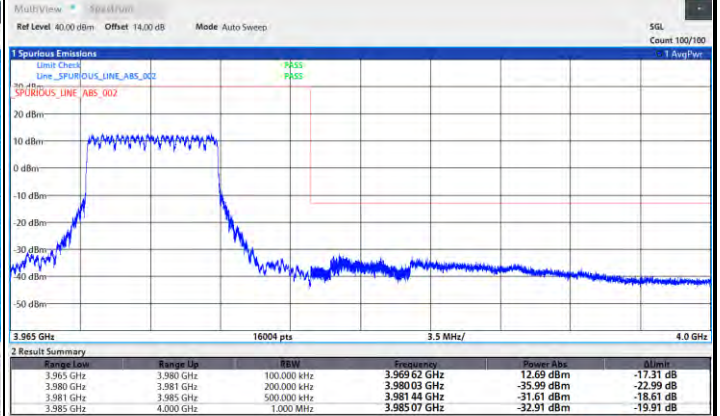
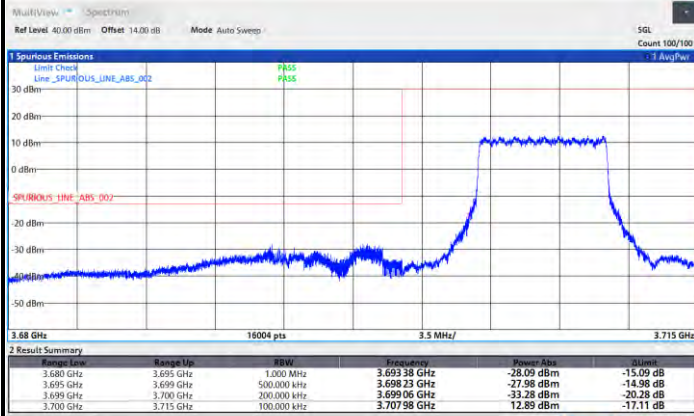




## FR1 n77 / 15MHz / DFT-S OFDM / PI/2 BPSK

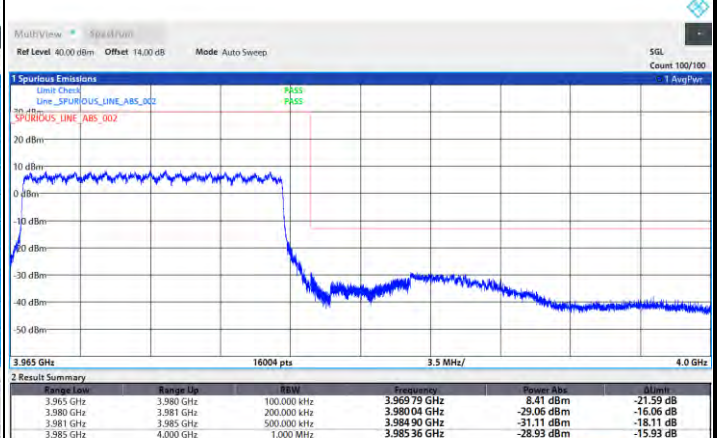
## Lowest Band Edge / Inner Full RB

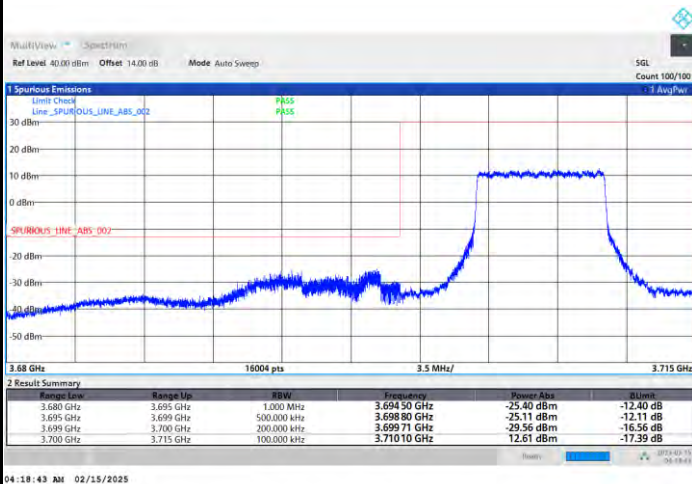
## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

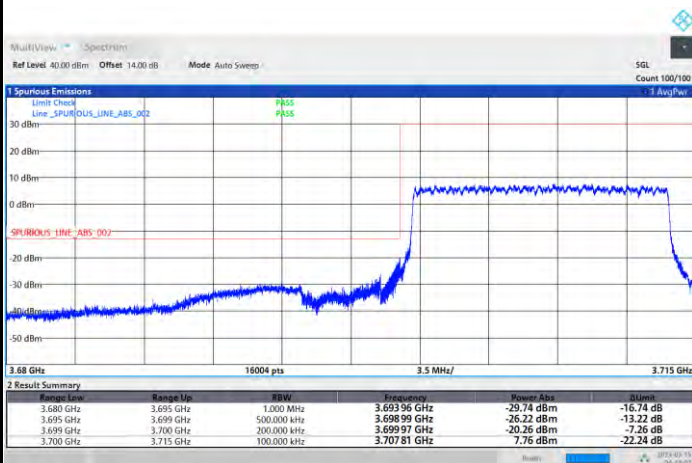


**FR1 n77 / 15MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Inner Full RB****Highest Band Edge / Inner Full RB**

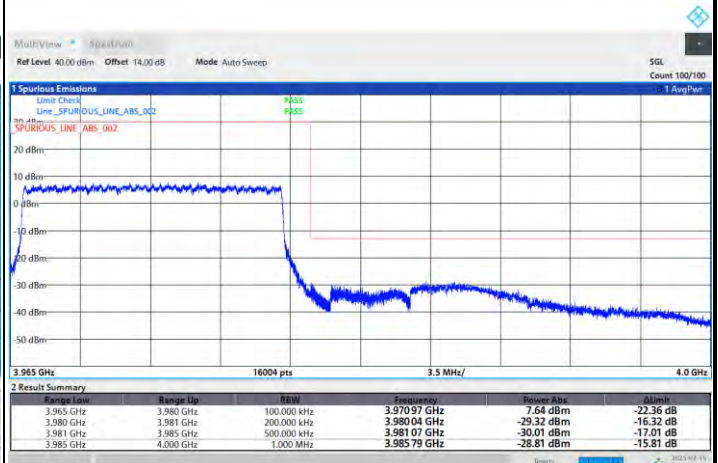
04:18:43 AM 02/15/2025



04:22:14 AM 02/15/2025

**Lowest Band Edge / Outer Full RB****Highest Band Edge / Outer Full RB**

04:18:01 AM 02/15/2025



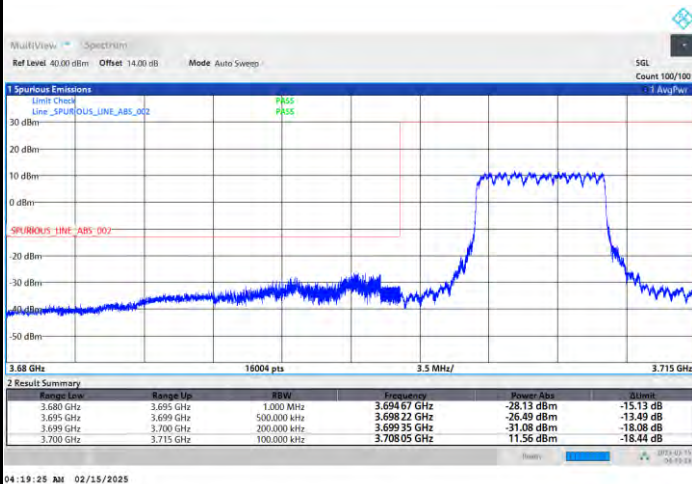
04:21:32 AM 02/15/2025



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

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

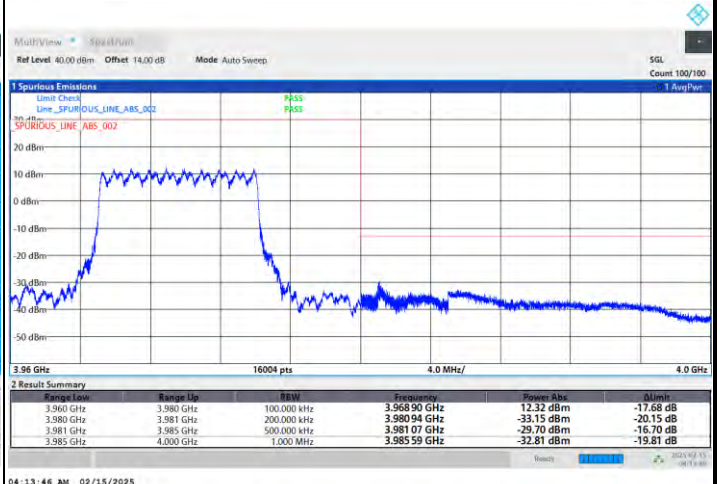
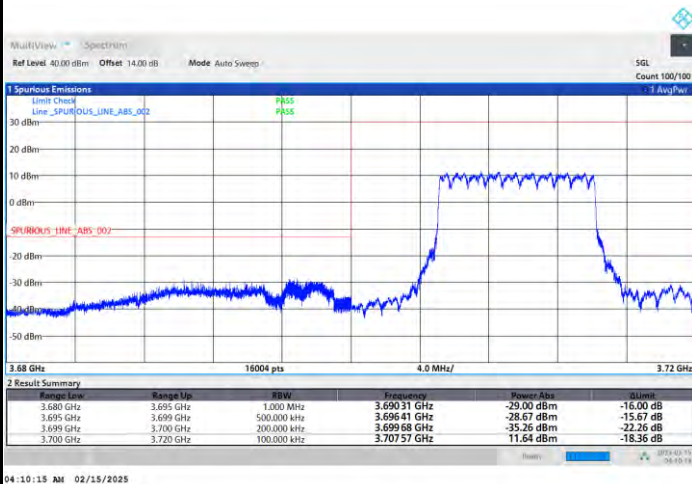




## FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK

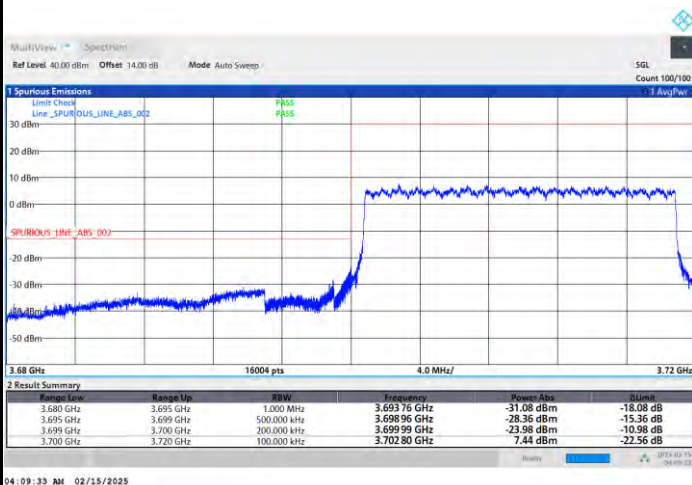
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

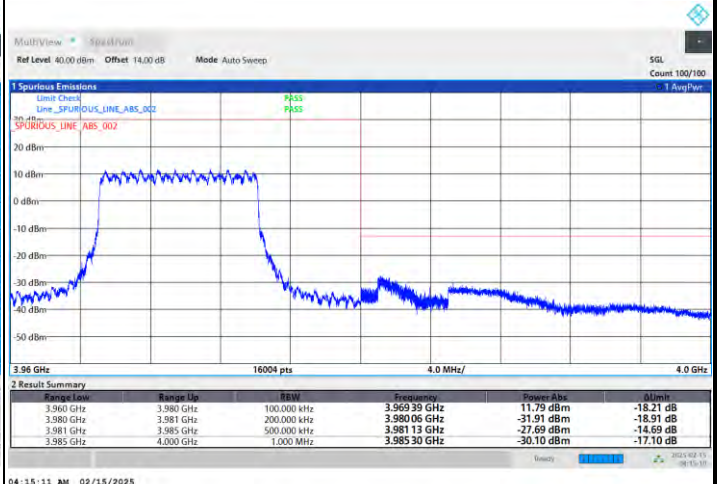
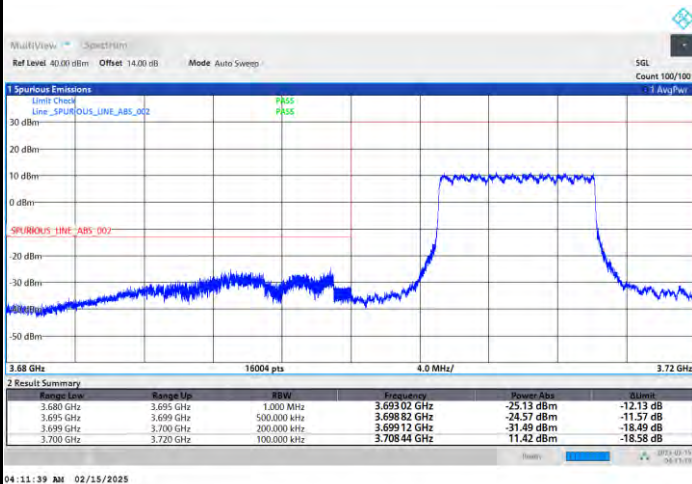




## FR1 n77 / 20MHz / DFT-S OFDM / QPSK

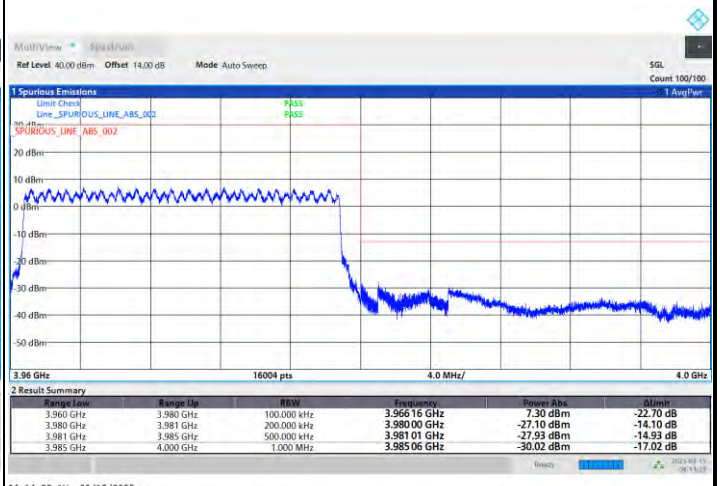
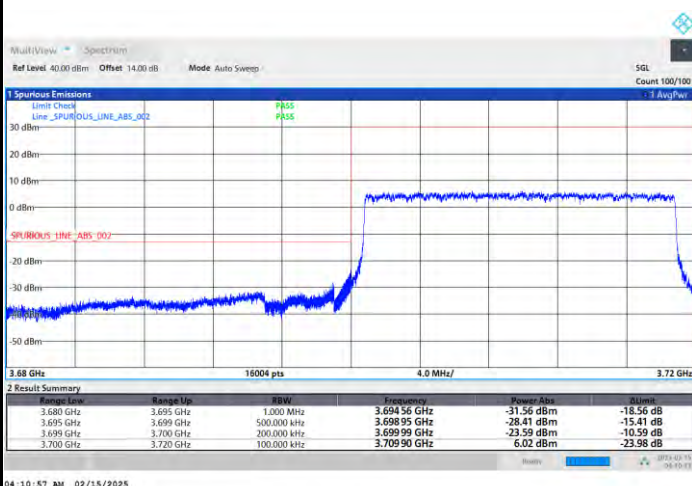
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

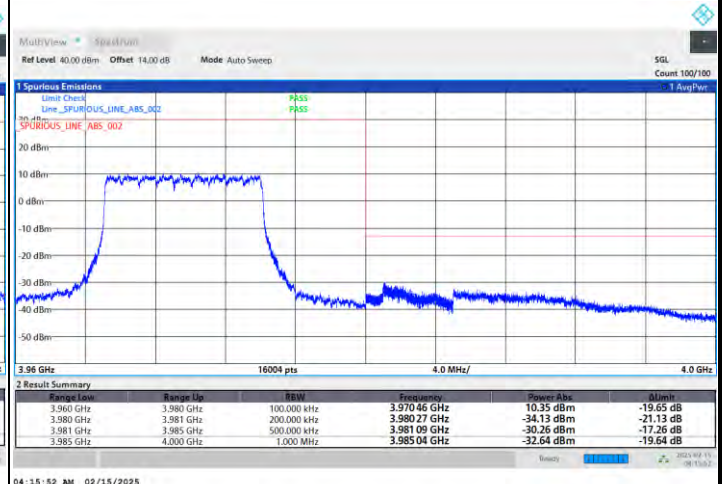
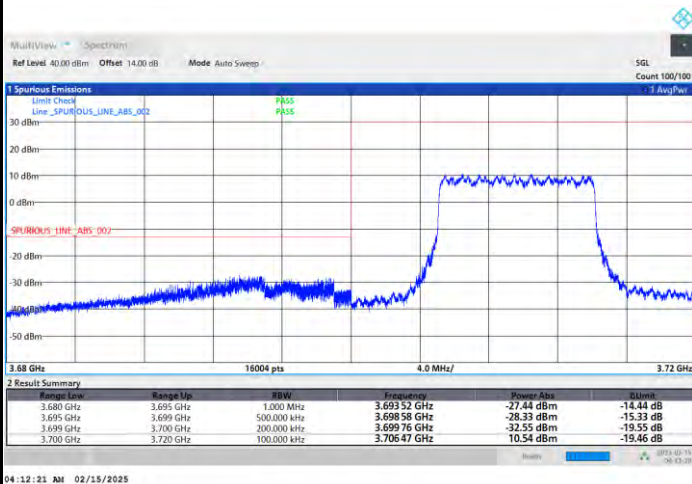




## FR1 n77 / 20MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

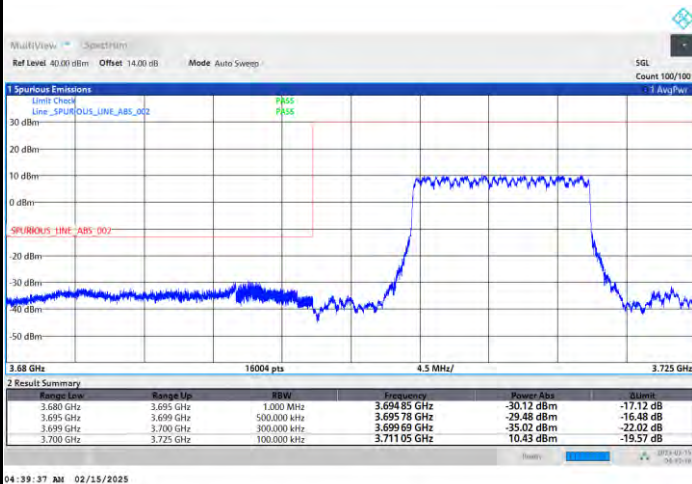




## FR1 n77 / 25MHz / DFT-S OFDM / PI/2 BPSK

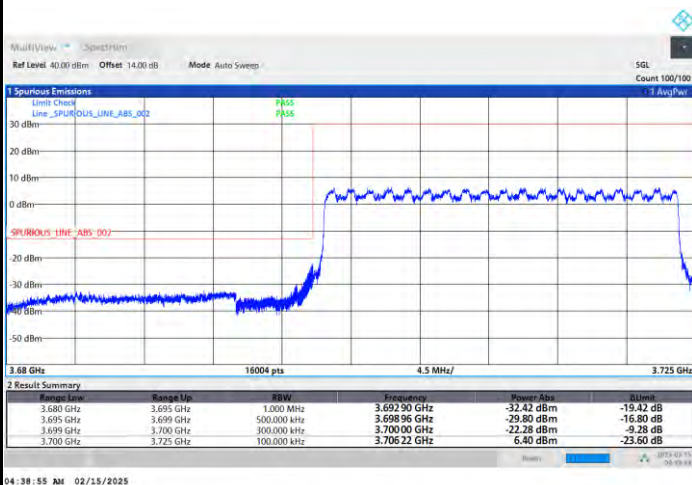
## Lowest Band Edge / Inner Full RB

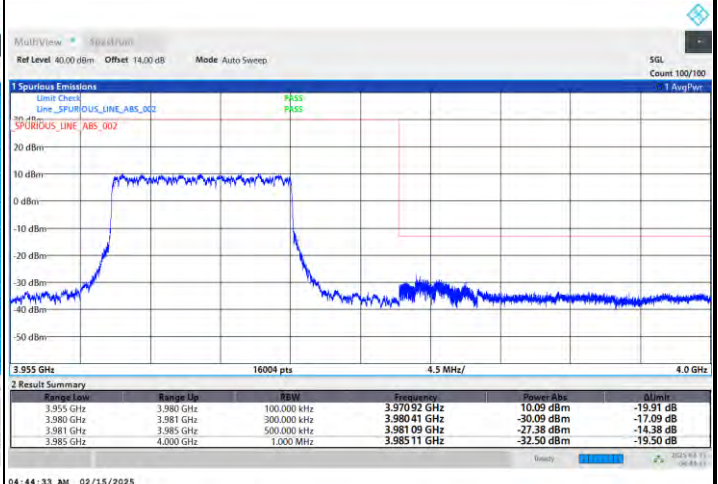
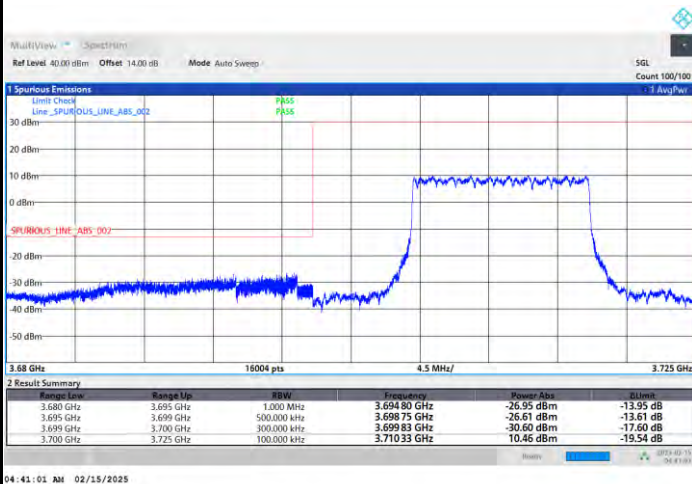
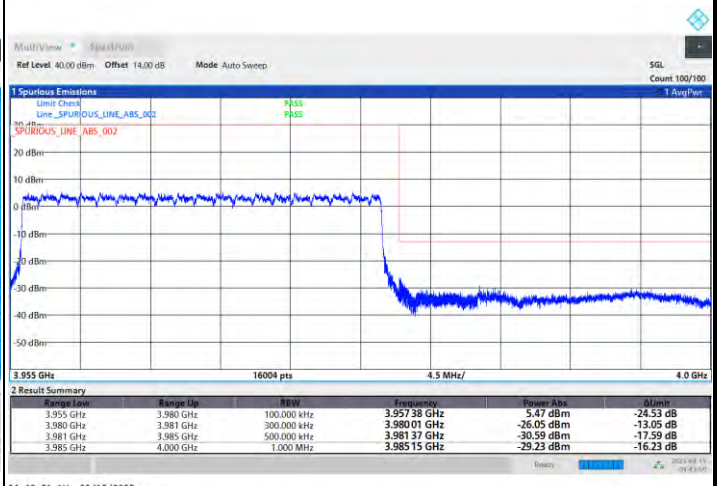
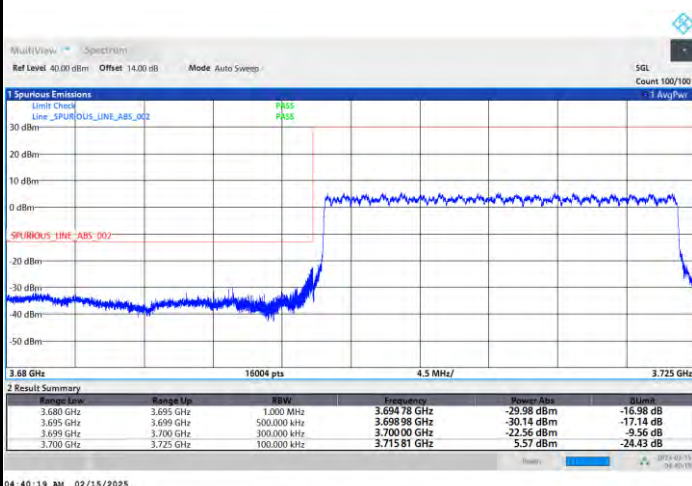
## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB



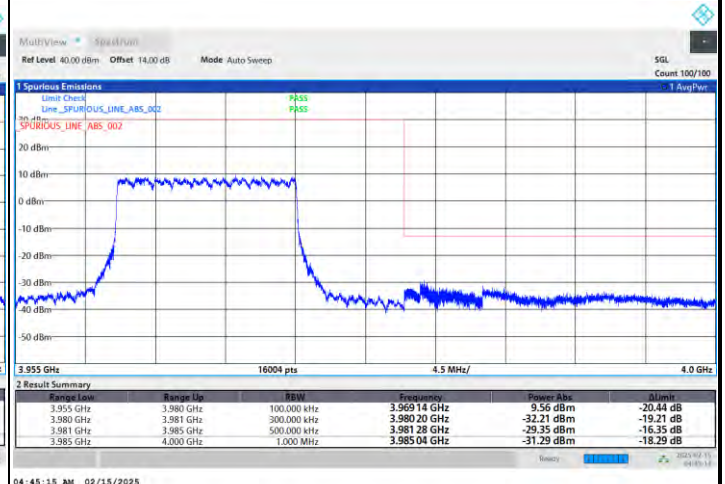
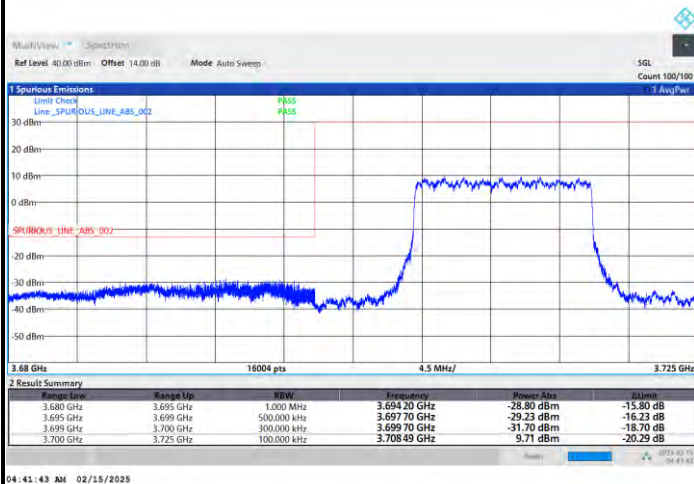
**FR1 n77 / 25MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Inner Full RB****Highest Band Edge / Inner Full RB****Lowest Band Edge / Outer Full RB****Highest Band Edge / Outer Full RB**



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

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

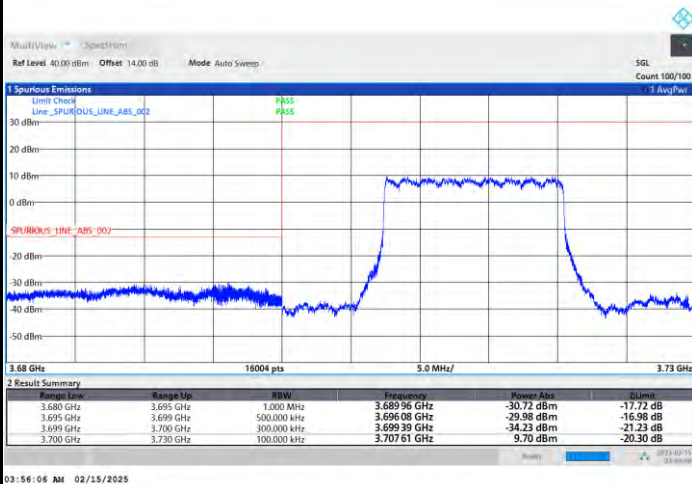




## FR1 n77 / 30MHz / DFT-S OFDM / PI/2 BPSK

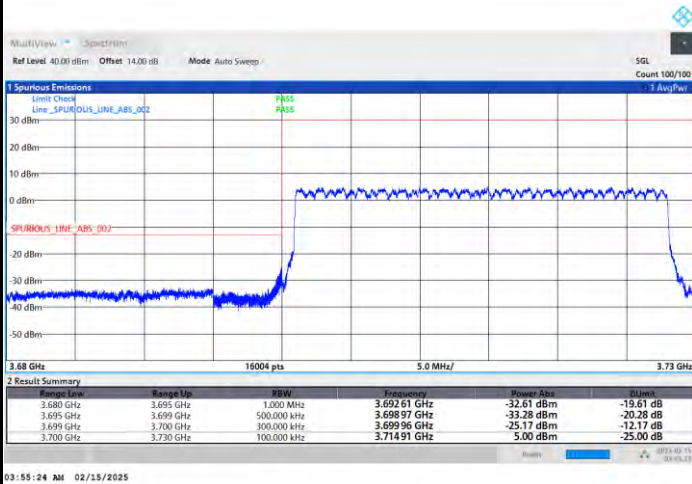
## Lowest Band Edge / Inner Full RB

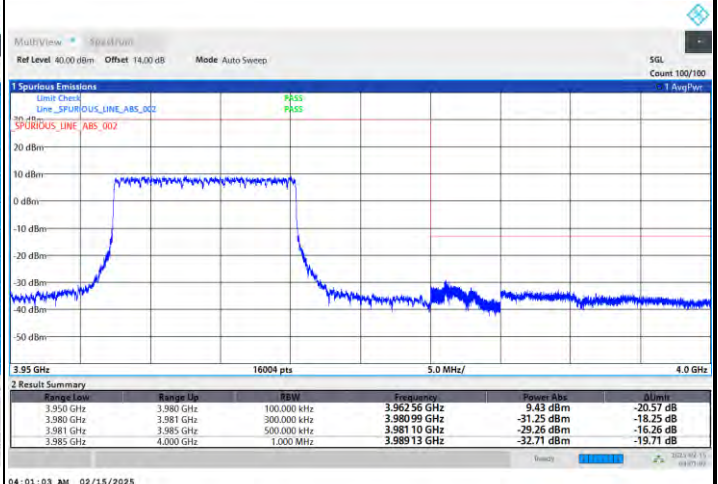
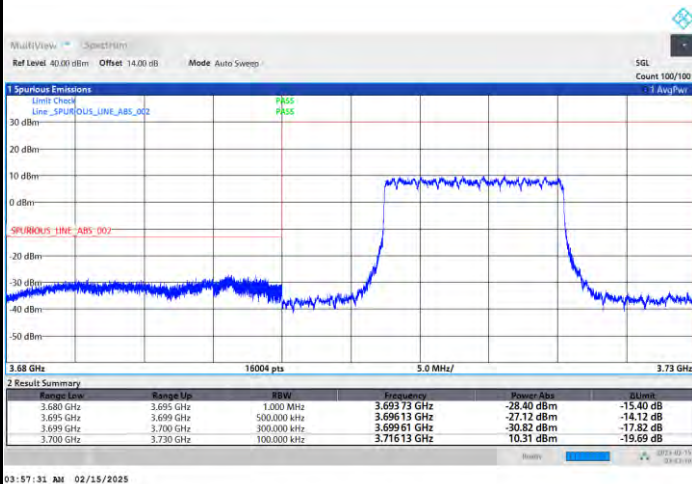
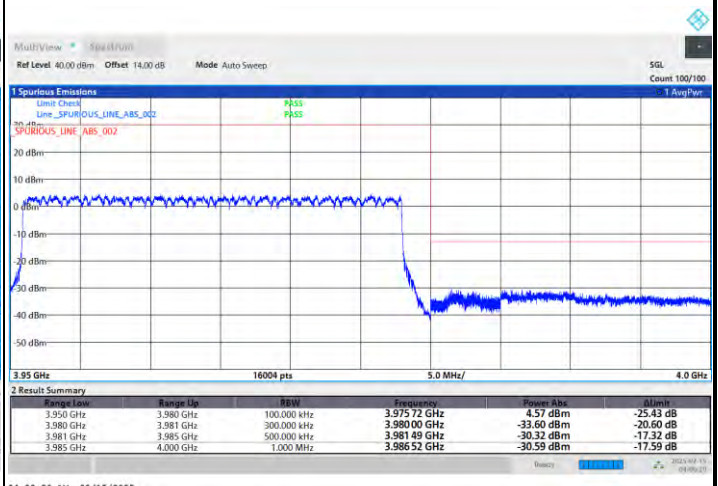
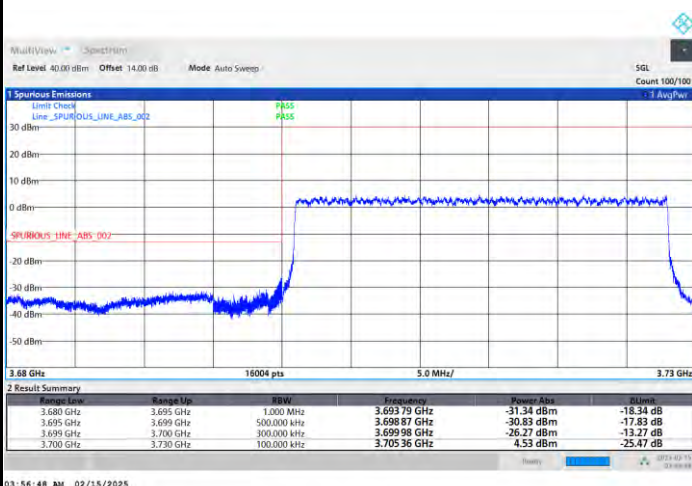
## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB



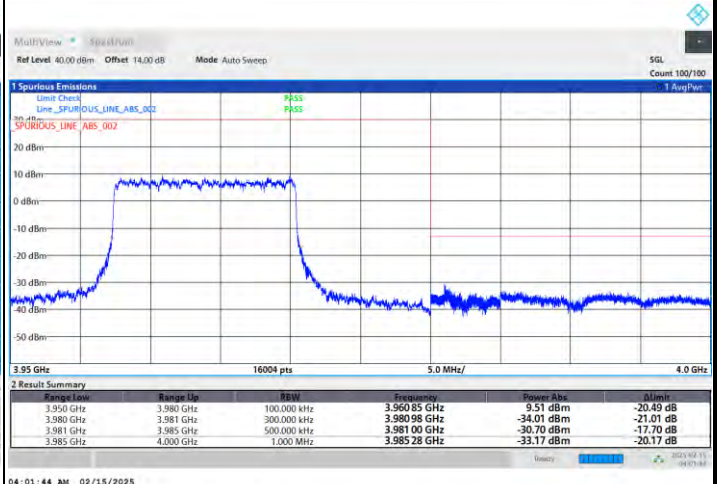
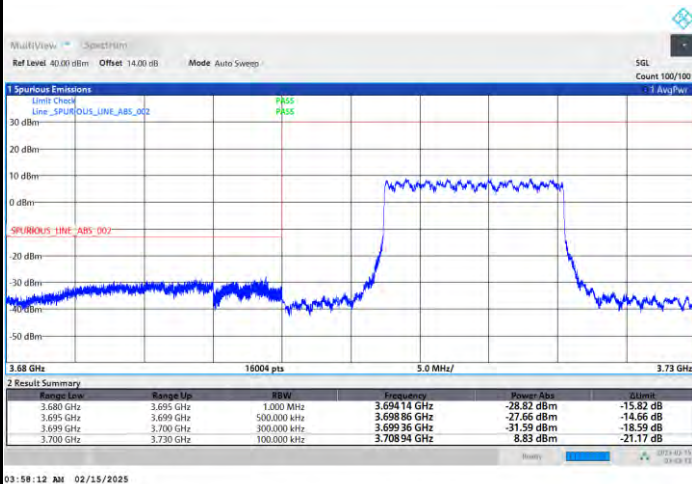
**FR1 n77 / 30MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Inner Full RB****Highest Band Edge / Inner Full RB****Lowest Band Edge / Outer Full RB****Highest Band Edge / Outer Full RB**



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

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

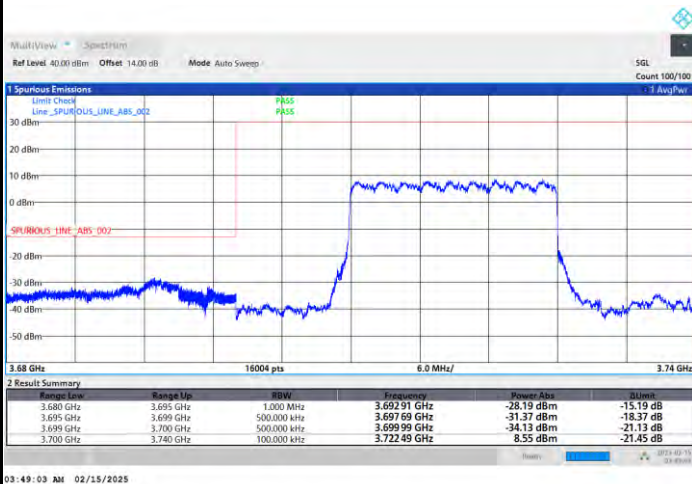




## FR1 n77 / 40MHz / DFT-S OFDM / PI/2 BPSK

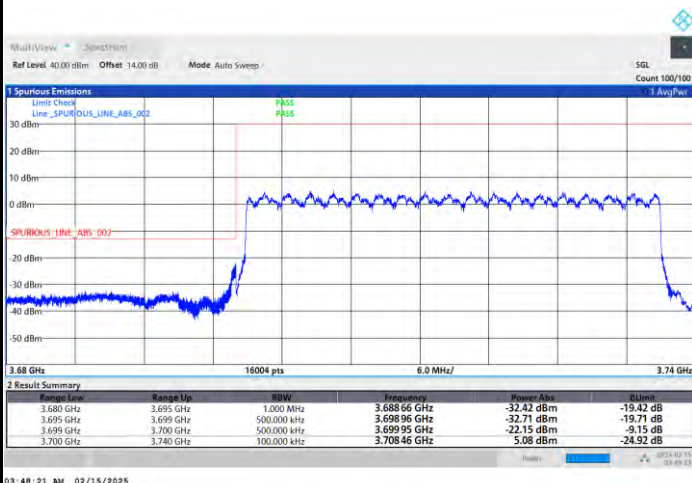
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

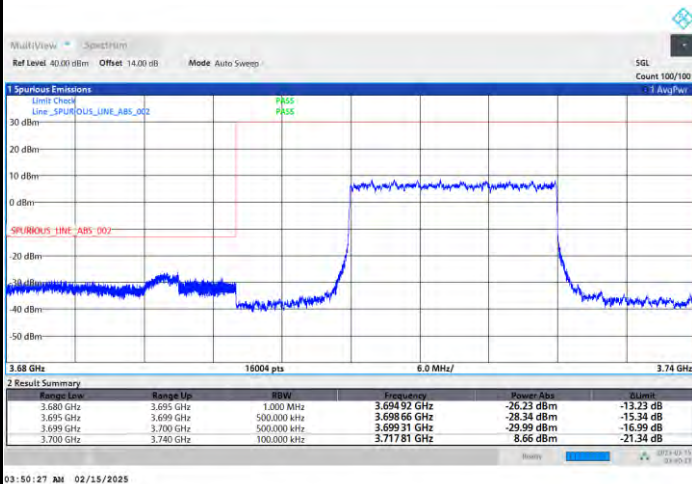




## FR1 n77 / 40MHz / DFT-S OFDM / QPSK

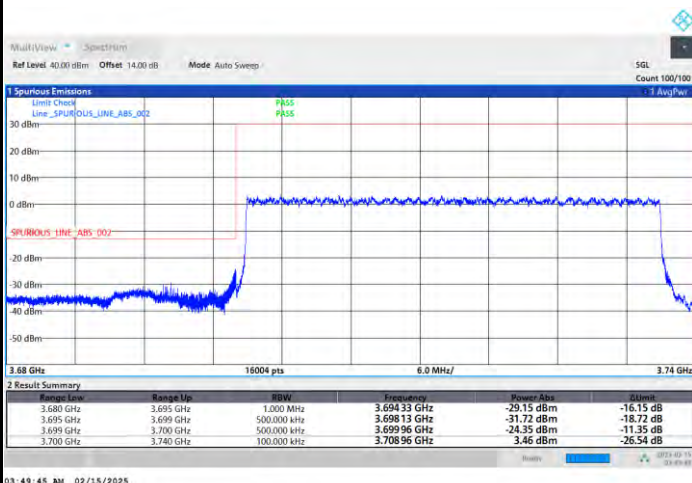
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

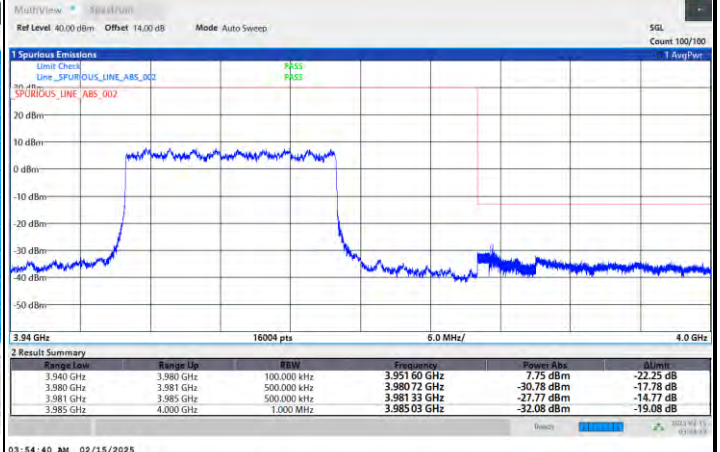
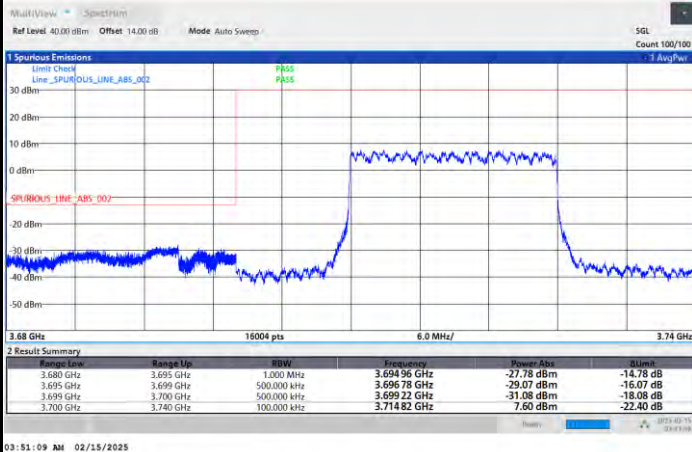




## FR1 n77 / 40MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

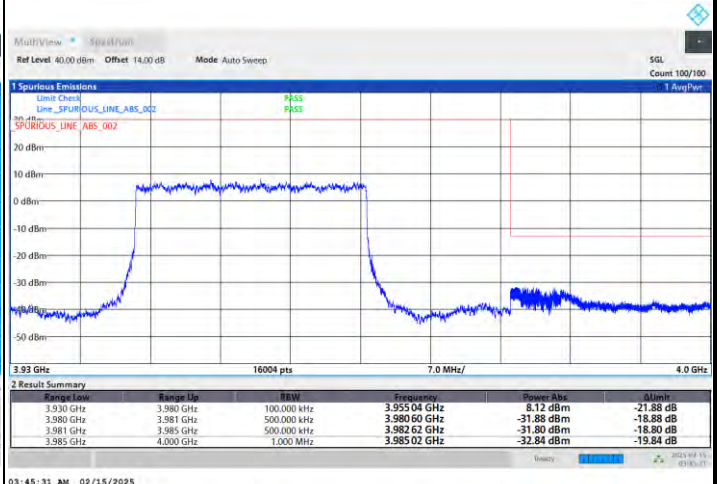
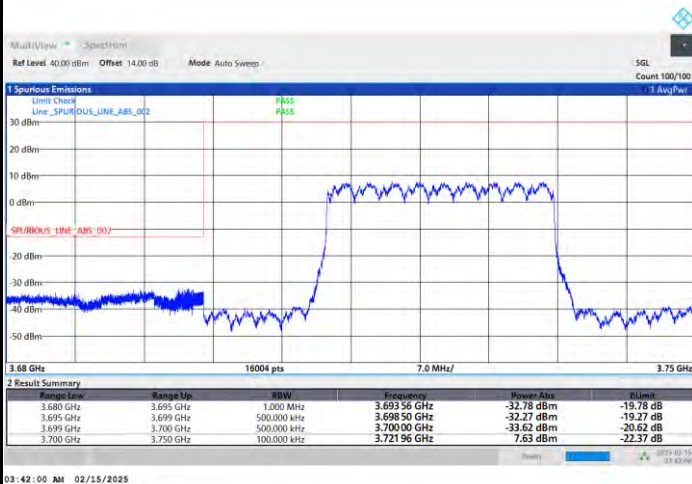




## FR1 n77 / 50MHz / DFT-S OFDM / PI/2 BPSK

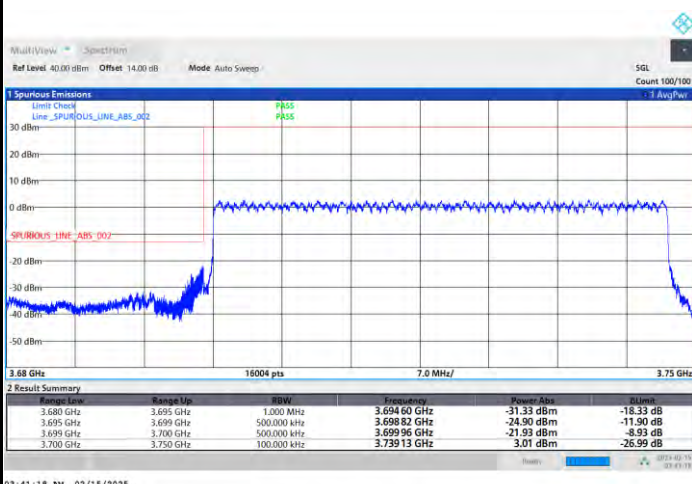
## Lowest Band Edge / Inner Full RB

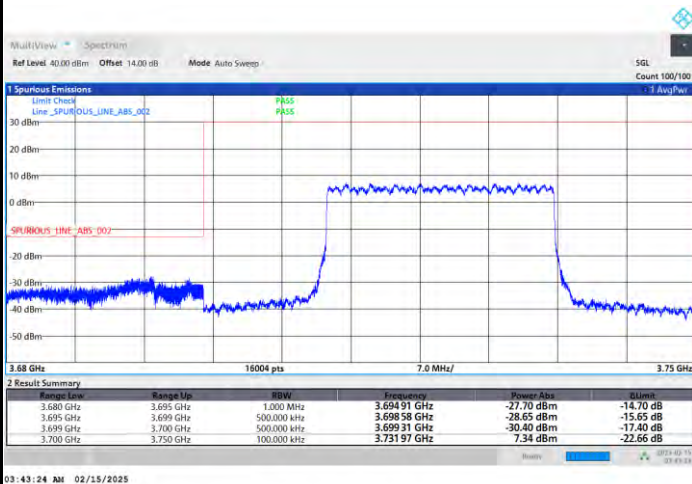
## Highest Band Edge / Inner Full RB



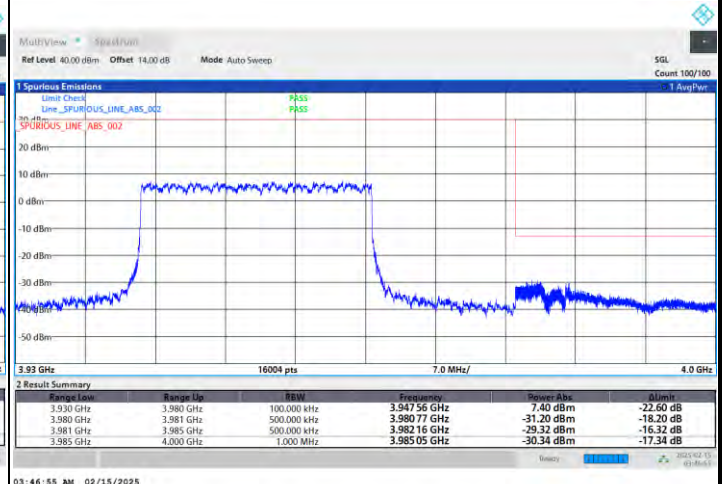
## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

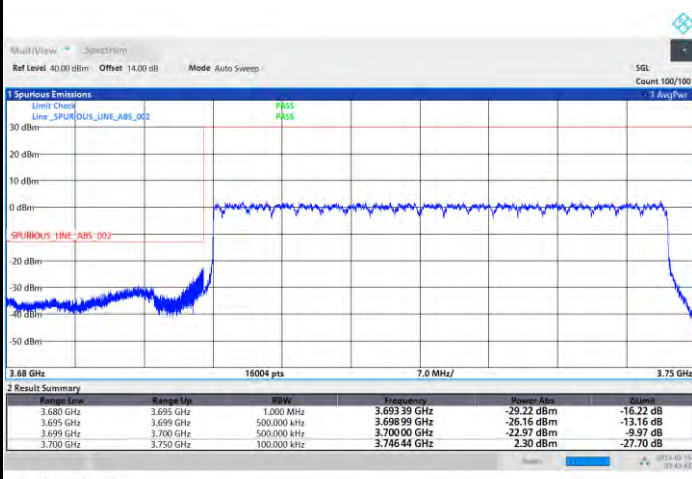


**FR1 n77 / 50MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Inner Full RB****Highest Band Edge / Inner Full RB**

03:43:24 AM 02/15/2025



03:46:55 AM 02/15/2025

**Lowest Band Edge / Outer Full RB****Highest Band Edge / Outer Full RB**

03:42:42 AM 02/15/2025



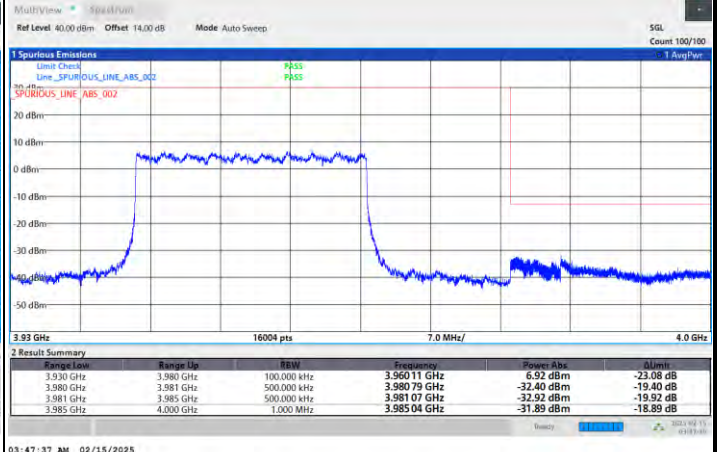
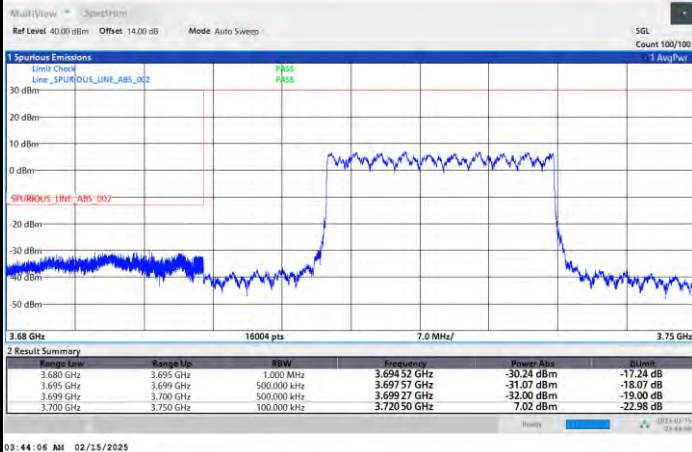
03:46:13 AM 02/15/2025



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

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

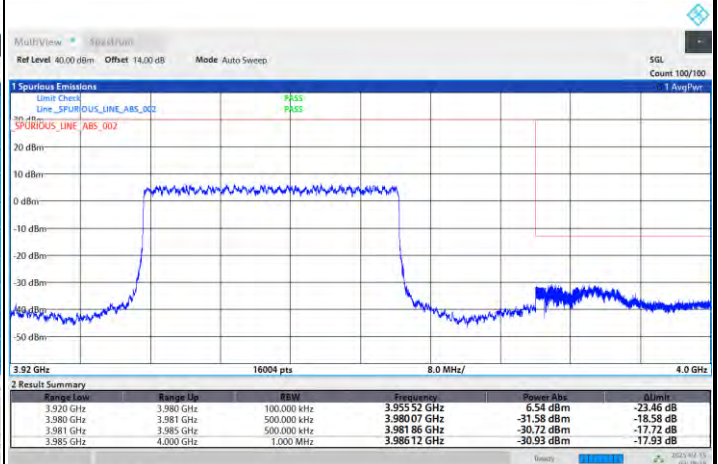
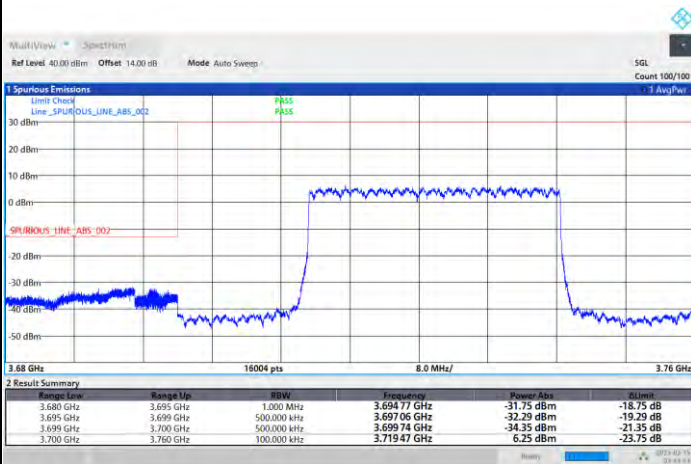




## FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

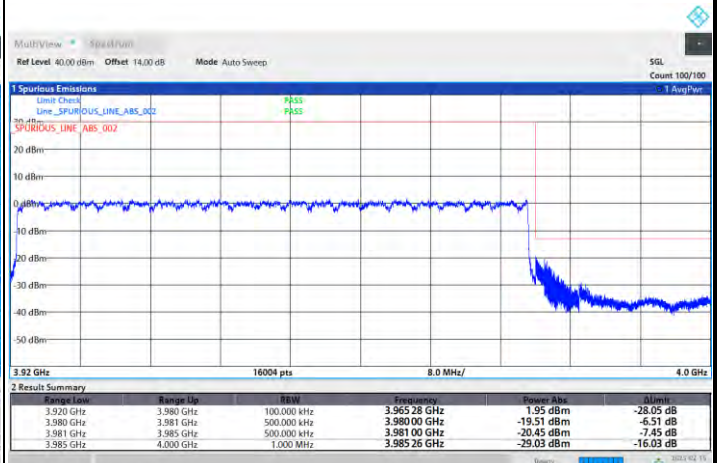
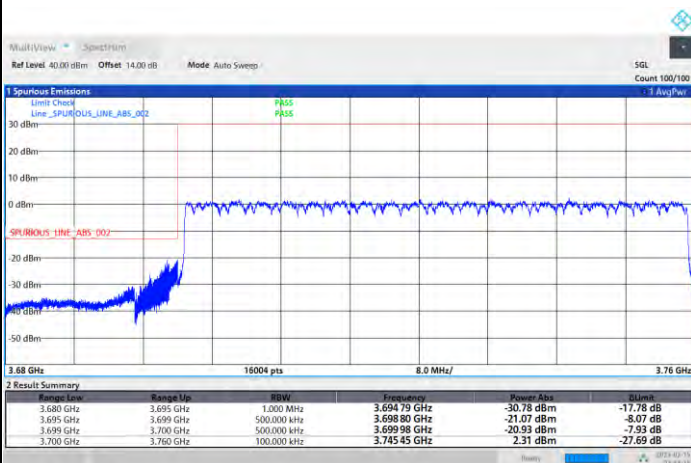
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

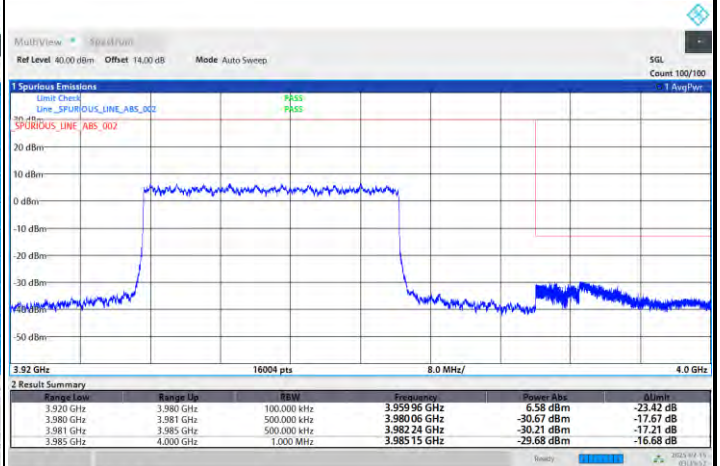
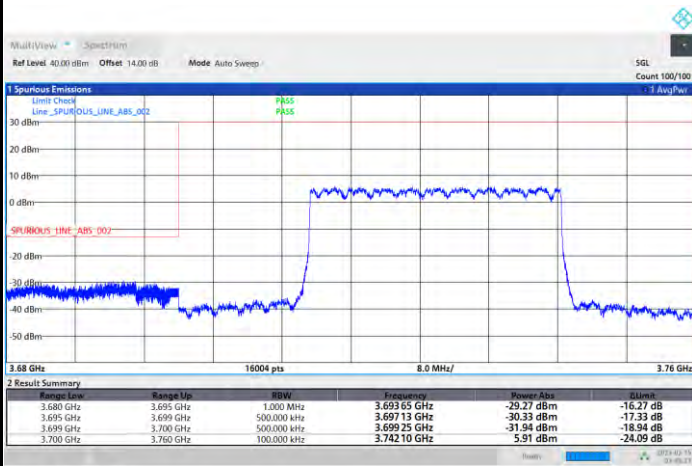




## FR1 n77 / 60MHz / DFT-S OFDM / QPSK

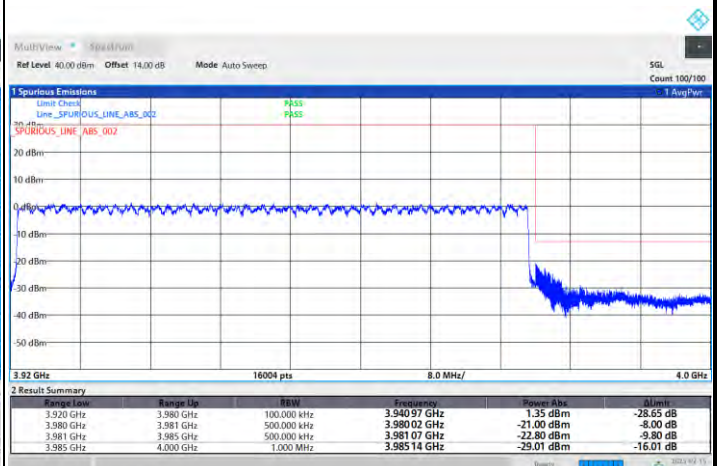
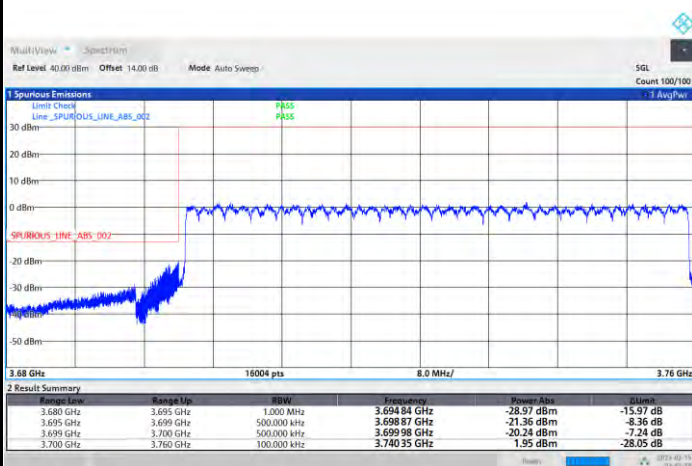
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

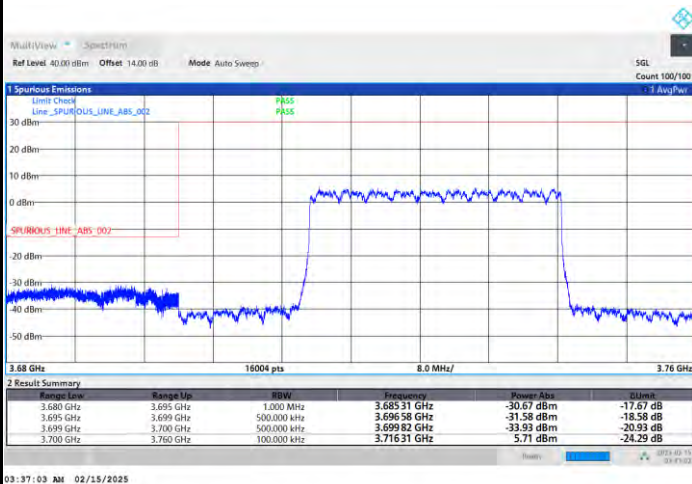




## FR1 n77 / 60MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

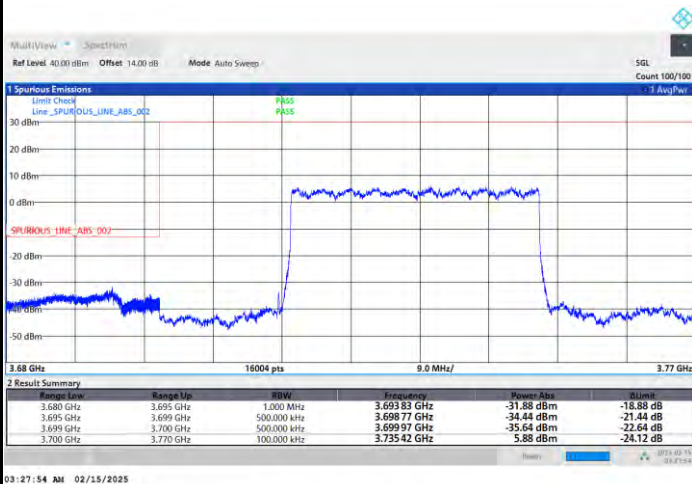




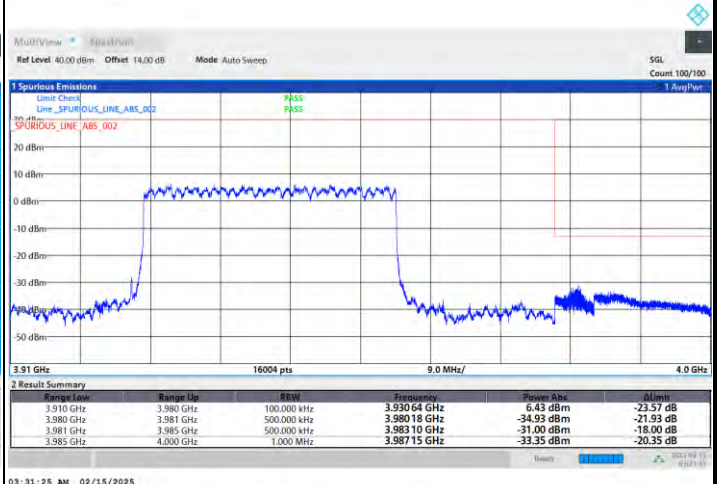
FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Inner Full RB

Highest Band Edge / Inner Full RB



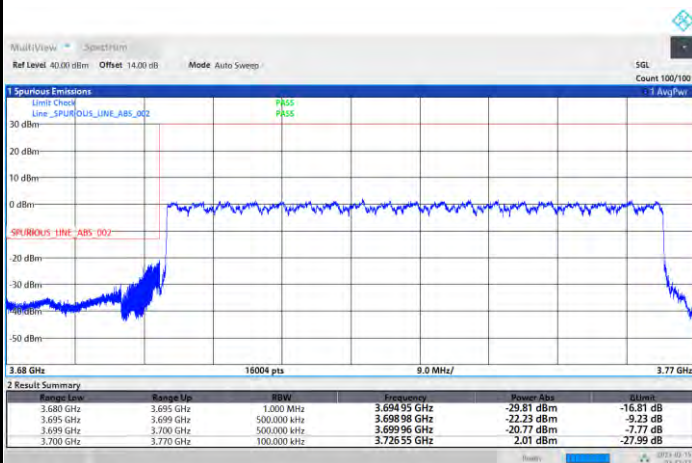
03:27:54 AM 02/15/2025



03:31:25 AM 02/15/2025

Lowest Band Edge / Outer Full RB

Highest Band Edge / Outer Full RB



03:27:12 AM 02/15/2025



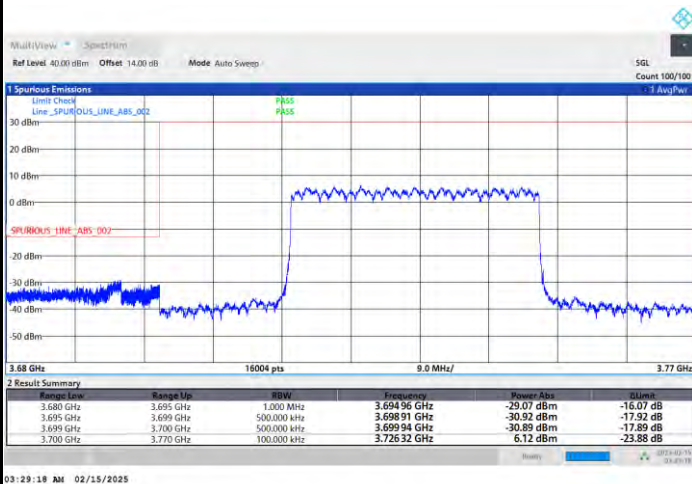
03:30:43 AM 02/15/2025



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

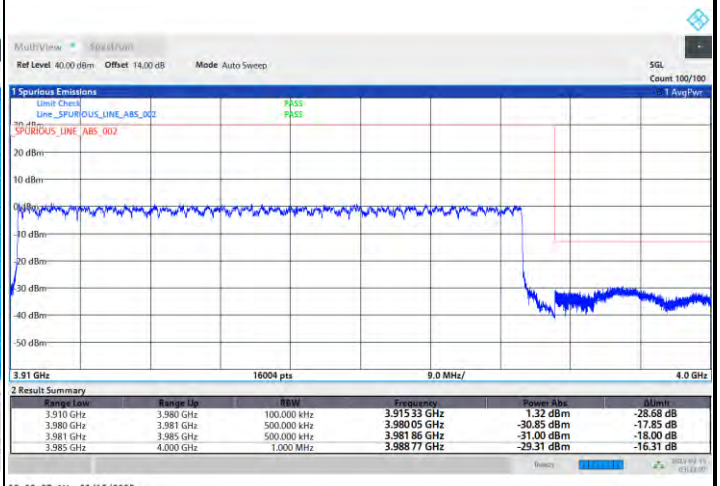
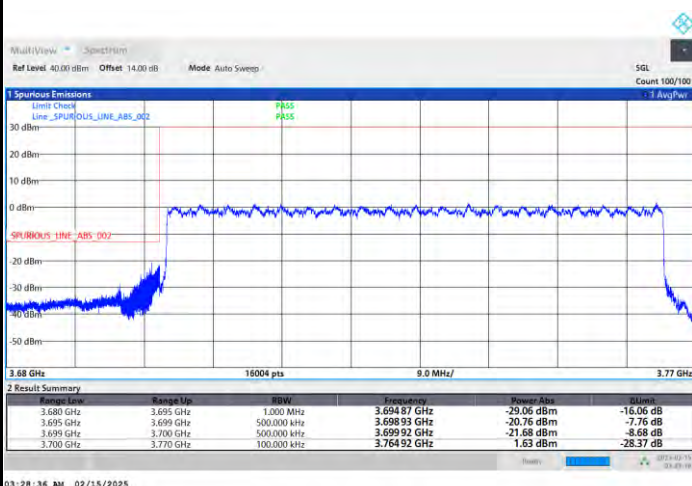
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

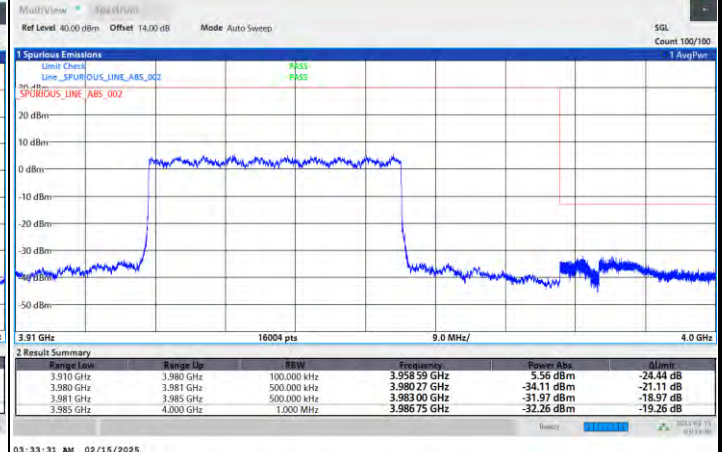
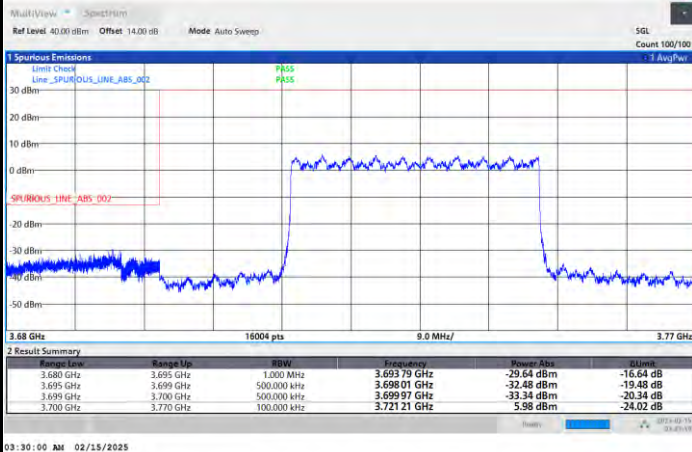




## FR1 n77 / 70MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB





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

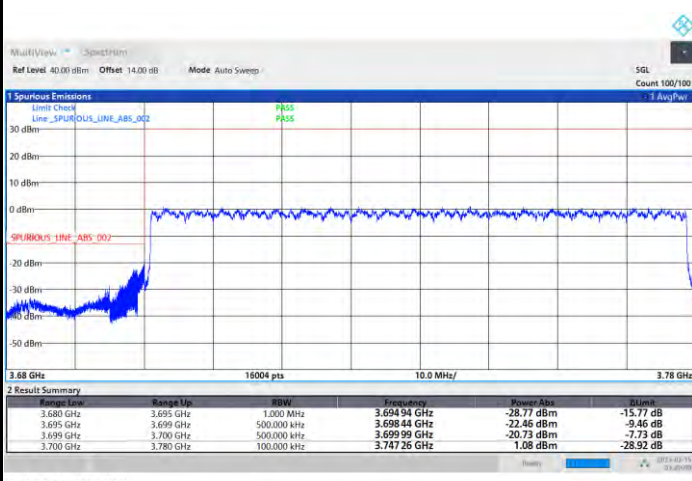
Lowest Band Edge / Inner Full RB

Highest Band Edge / Inner Full RB



Lowest Band Edge / Outer Full RB

Highest Band Edge / Outer Full RB

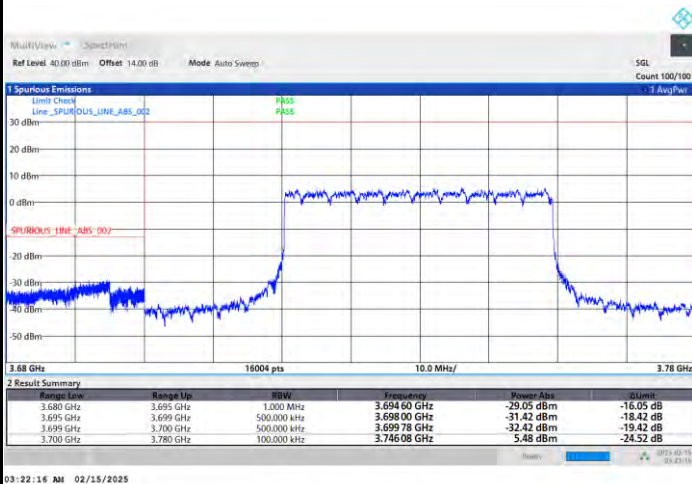




## FR1 n77 / 80MHz / DFT-S OFDM / QPSK

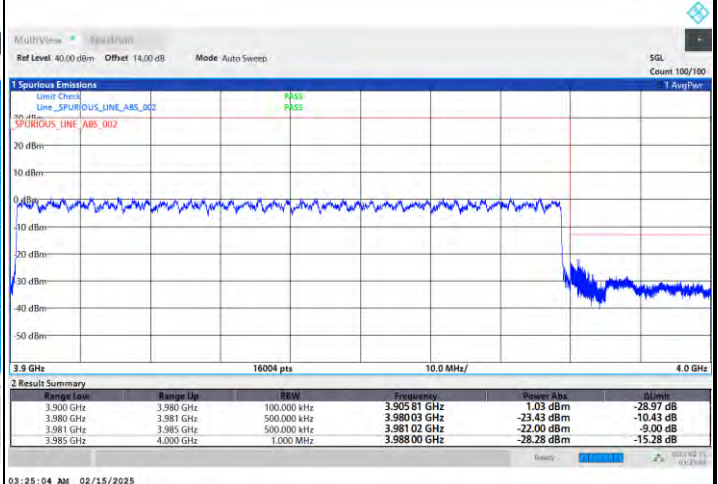
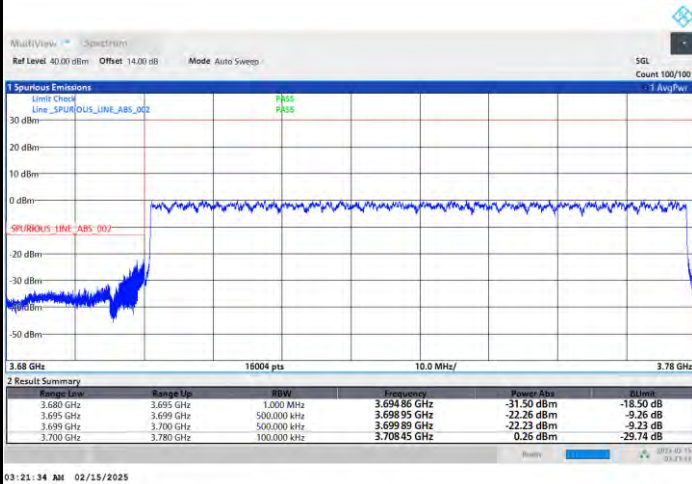
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

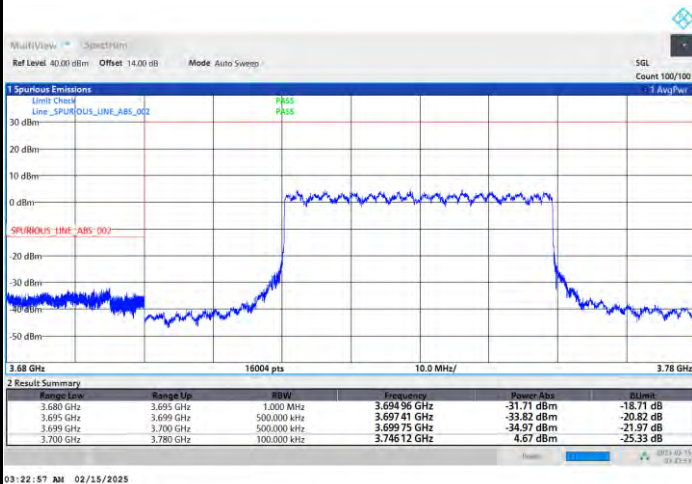




## FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

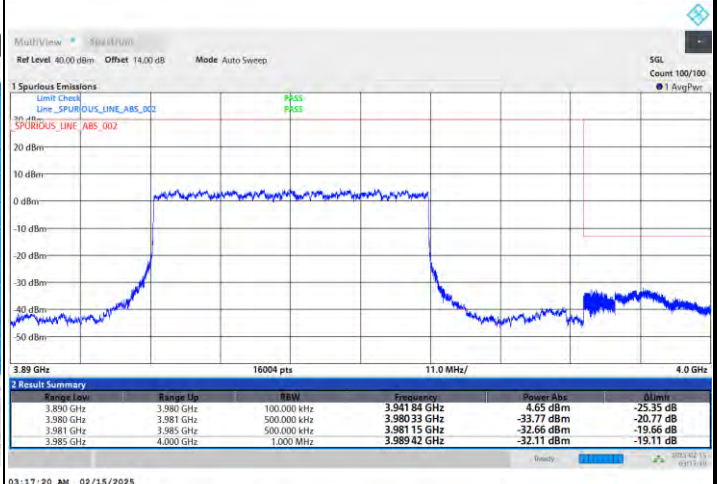
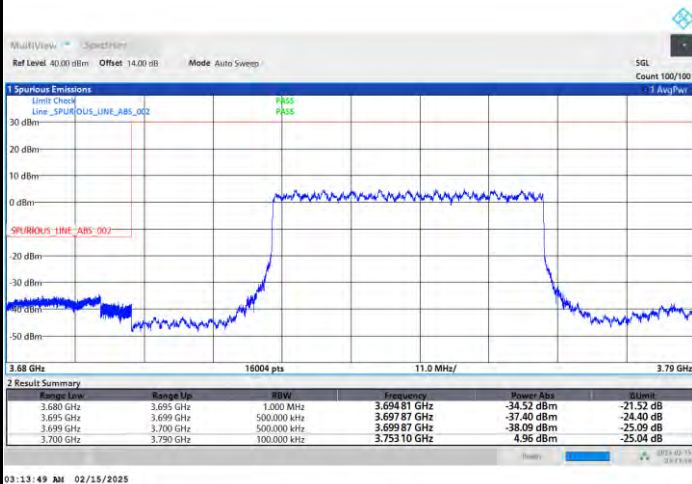




## FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

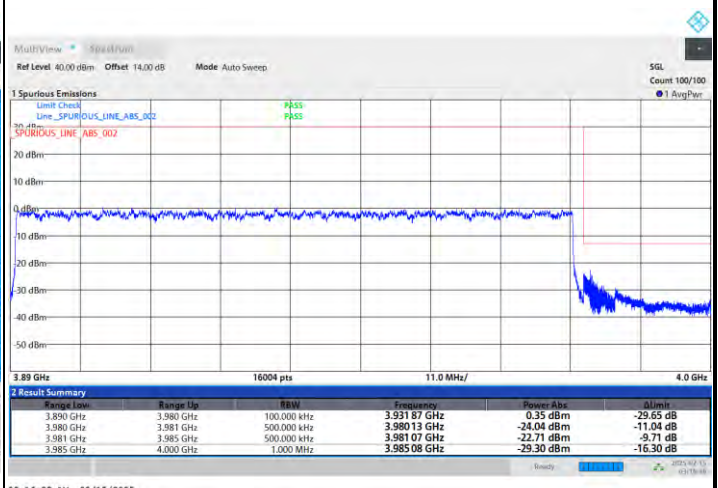
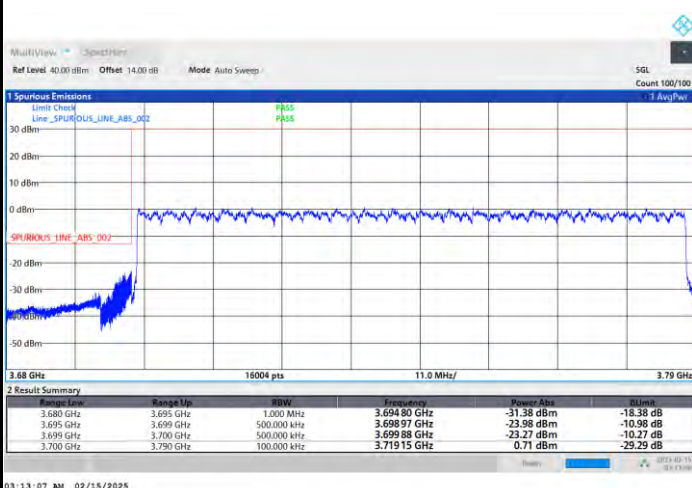
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

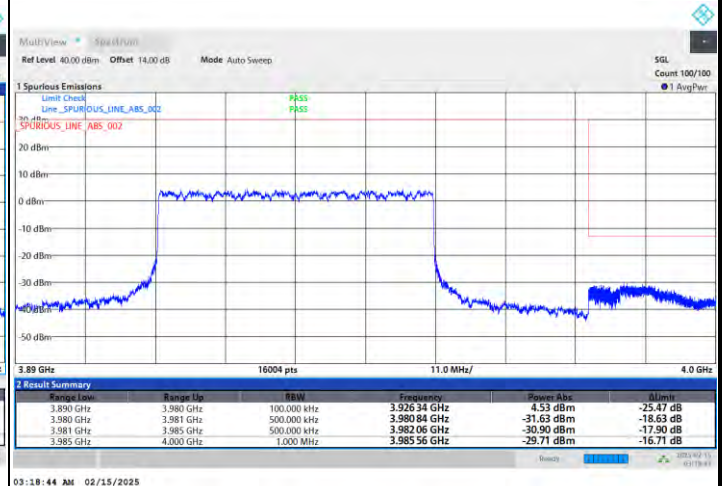
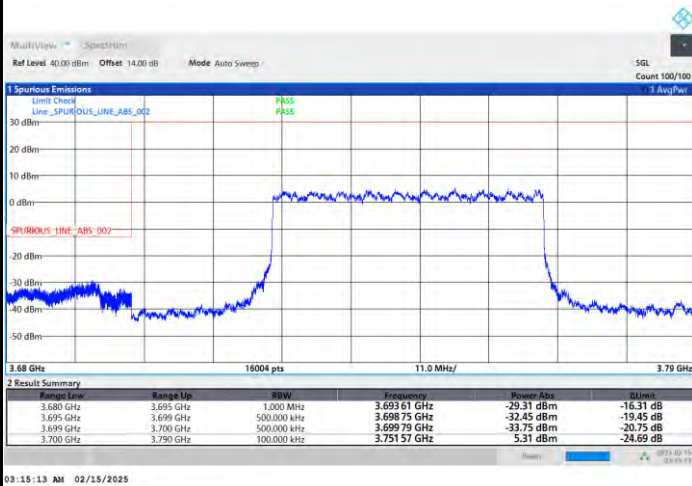




## FR1 n77 / 90MHz / DFT-S OFDM / QPSK

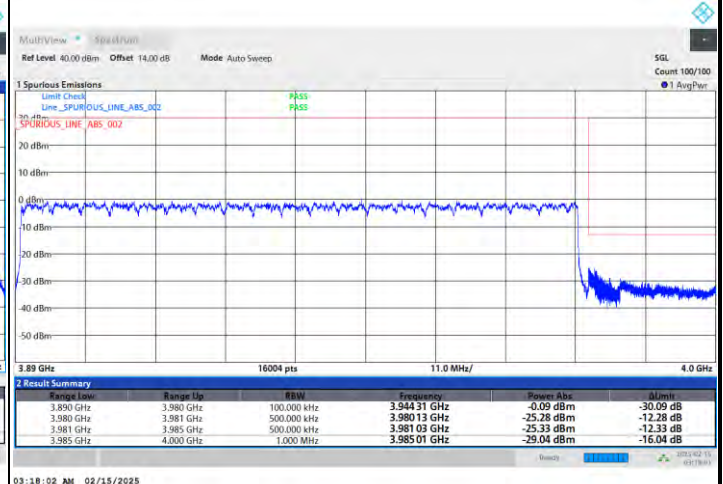
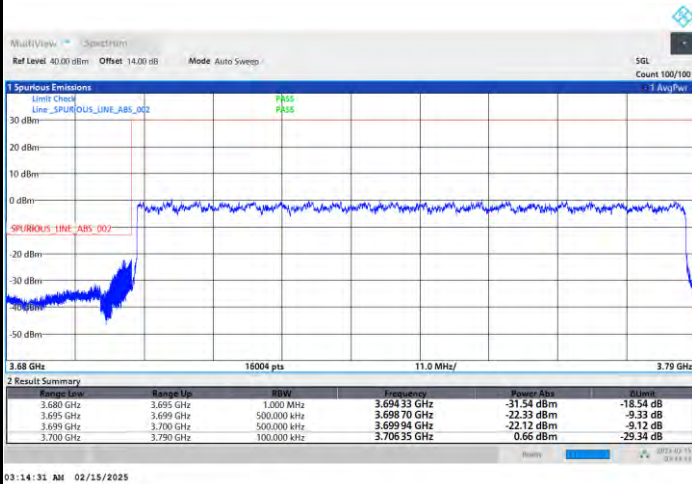
## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB



## Lowest Band Edge / Outer Full RB

## Highest Band Edge / Outer Full RB

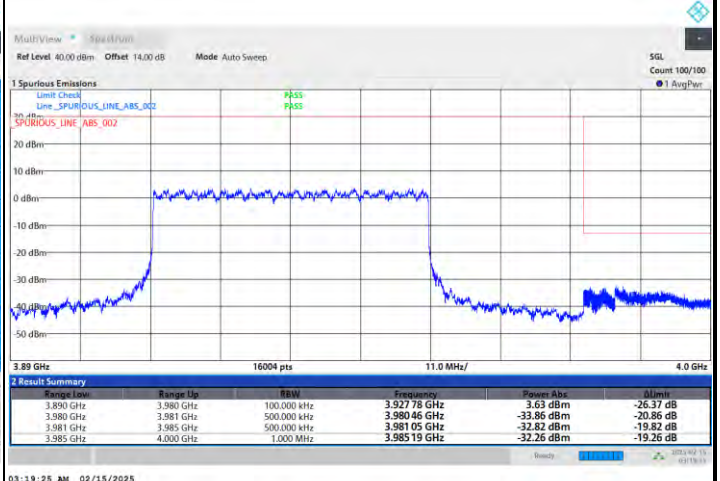
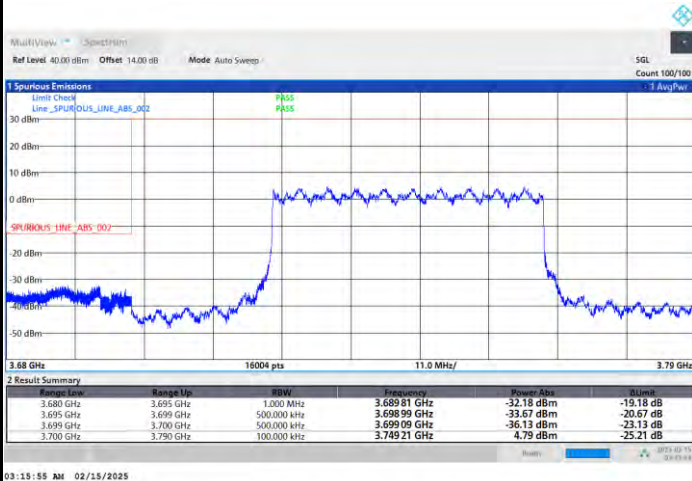




## FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB

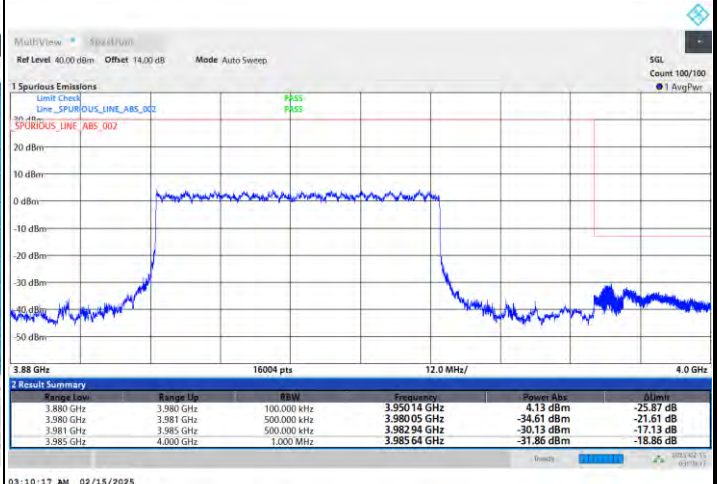
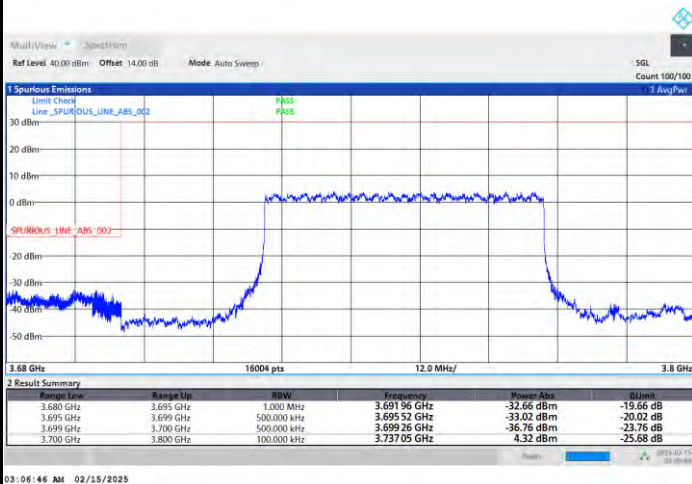




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

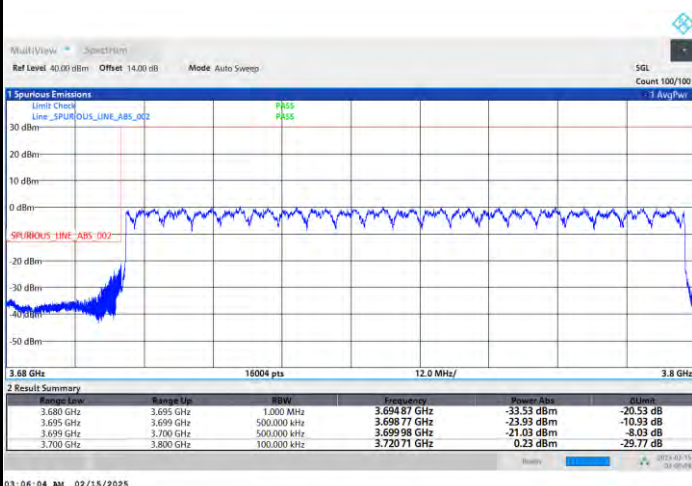
Lowest Band Edge / Inner Full RB

Highest Band Edge / Inner Full RB



Lowest Band Edge / Outer Full RB

Highest Band Edge / Outer Full RB





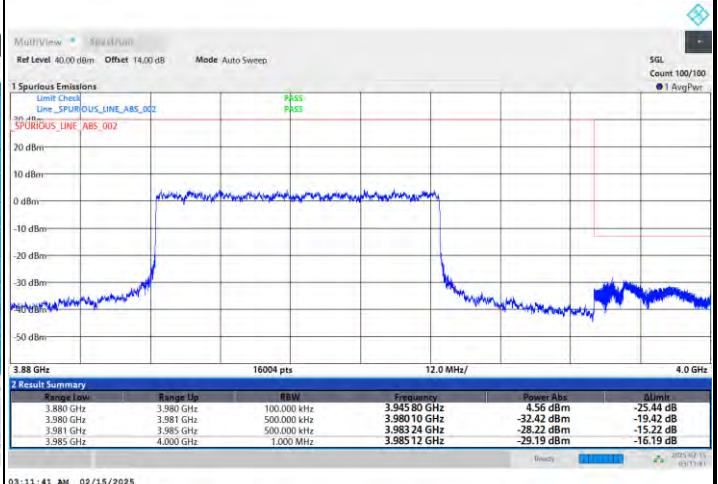
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Inner Full RB

Highest Band Edge / Inner Full RB



03:08:10 AM 02/15/2025



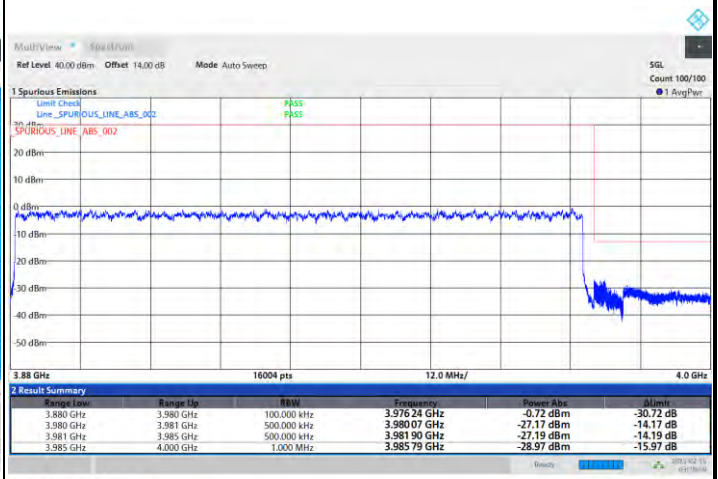
03:11:41 AM 02/15/2025

Lowest Band Edge / Outer Full RB

Highest Band Edge / Outer Full RB



03:07:28 AM 02/15/2025



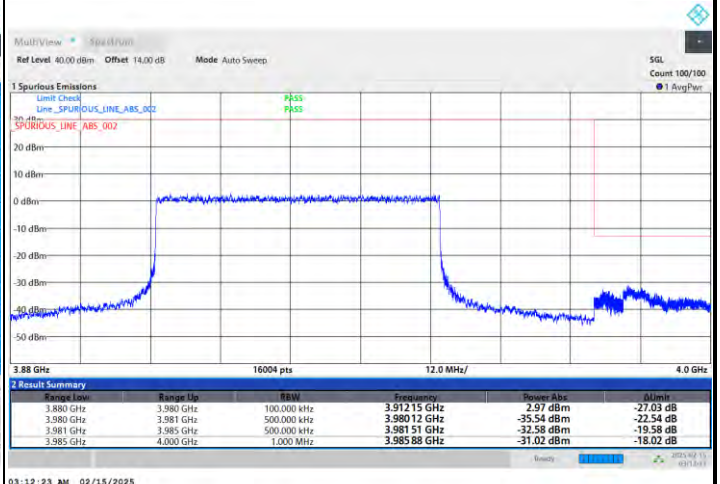
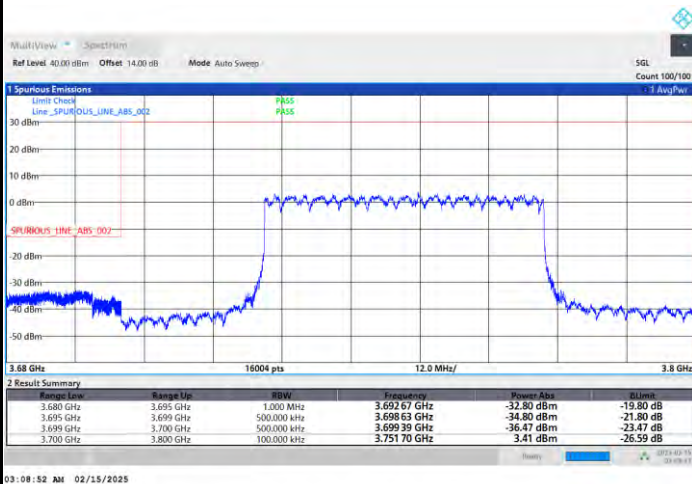
03:10:59 AM 02/15/2025



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

## Lowest Band Edge / Inner Full RB

## Highest Band Edge / Inner Full RB





# Conducted Spurious Emission

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

### Lowest Channel



### Middle Channel

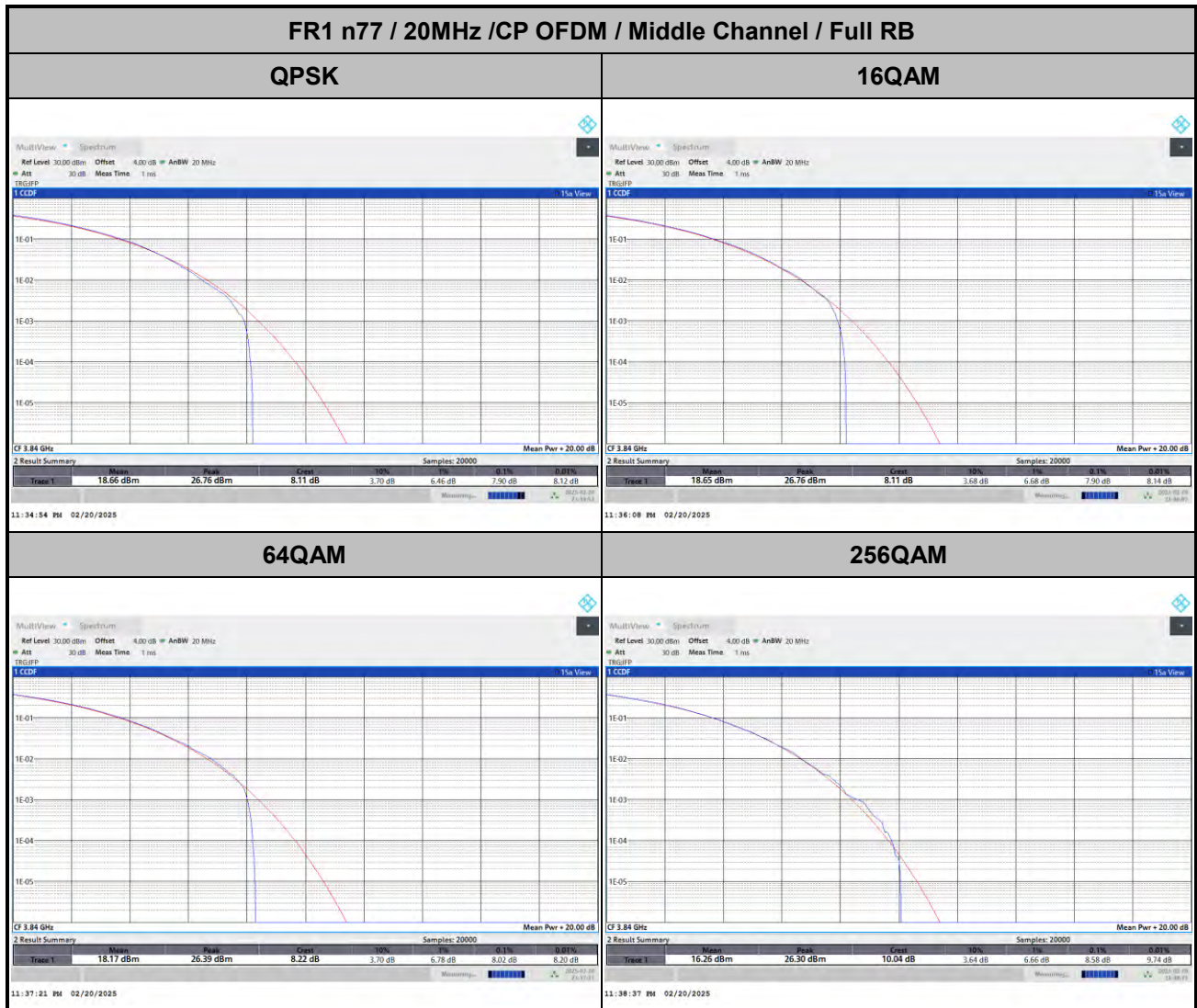


### Highest Channel



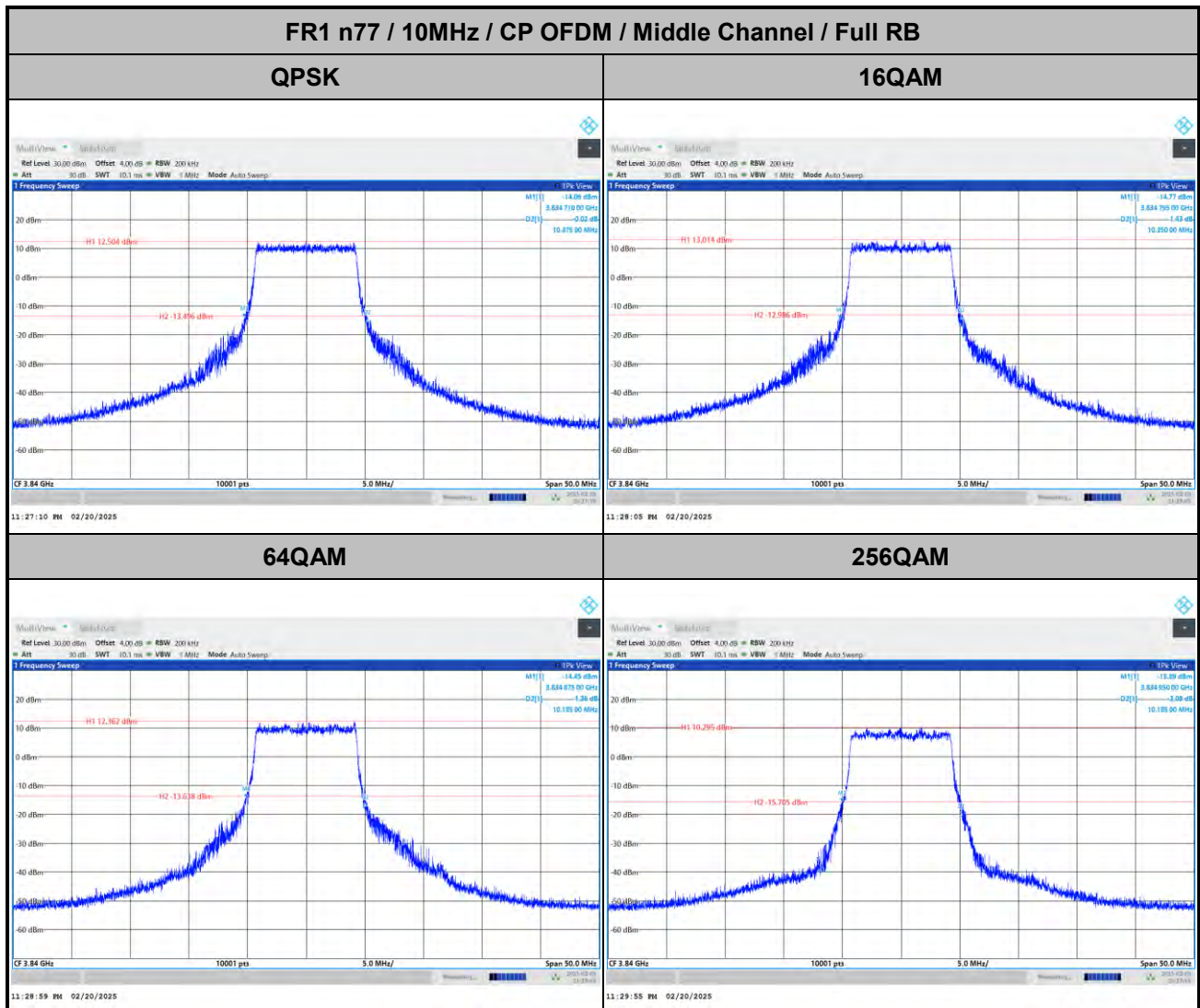
**<MIMO Mode>**
**MIMO <Ant. 6+1> (Ant. 6)**
**Peak-to-Average Ratio**

| 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 | 7.90                      | 7.90    | 8.02    | 8.58    | <b>PASS</b> |



**26dB Bandwidth**

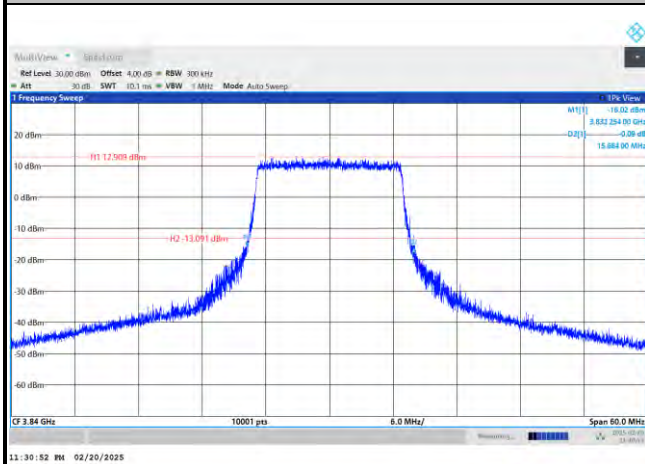
| Mode      | FR1 n77 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |        |        |
|-----------|----------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                            |        | 15MHz |        | 20MHz |        | 25MHz  |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 10.47                            | 10.35  | 15.68 | 15.73  | 20.57 | 20.78  | 25.69  | 25.61  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 10.18                            | 10.18  | 15.60 | 15.39  | 20.43 | 20.72  | 25.47  | 25.84  |
| BW        | 30MHz                            |        | 40MHz |        | 50MHz |        | 60MHz  |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 31.03                            | 31.09  | 42.64 | 42.50  | 52.26 | 51.94  | 66.91  | 66.43  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 31.06                            | 31.17  | 42.53 | 42.81  | 52.07 | 51.70  | 67.30  | 66.36  |
| BW        | 70MHz                            |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 76.41                            | 77.04  | 83.20 | 84.74  | 96.87 | 97.27  | 107.31 | 107.22 |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 77.23                            | 77.74  | 84.26 | 84.22  | 97.98 | 97.56  | 106.14 | 106.46 |



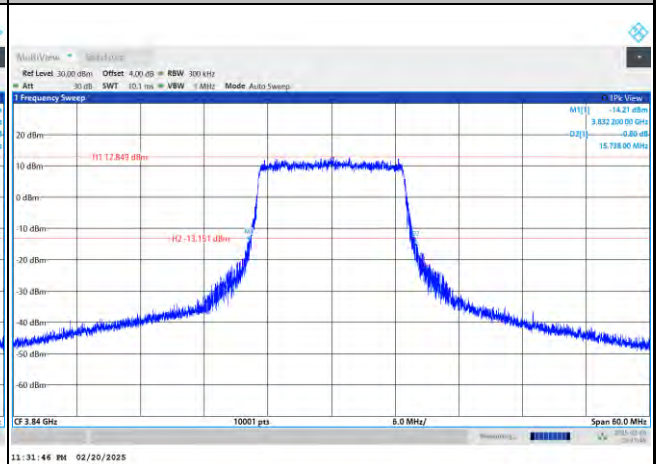


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

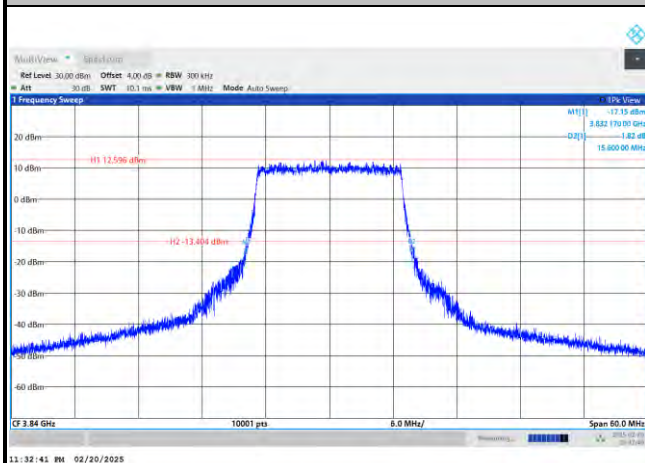
QPSK



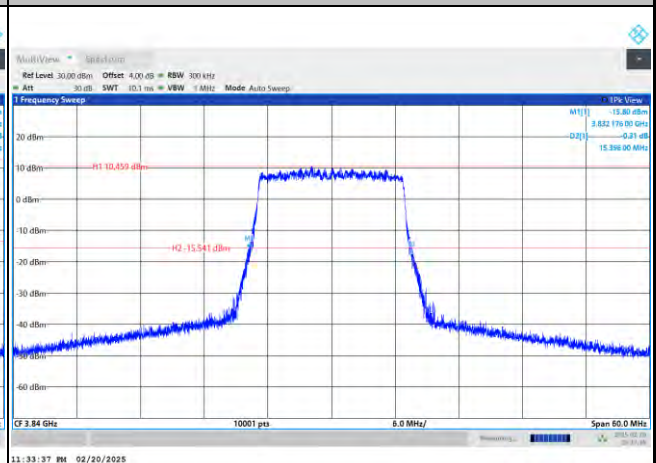
16QAM

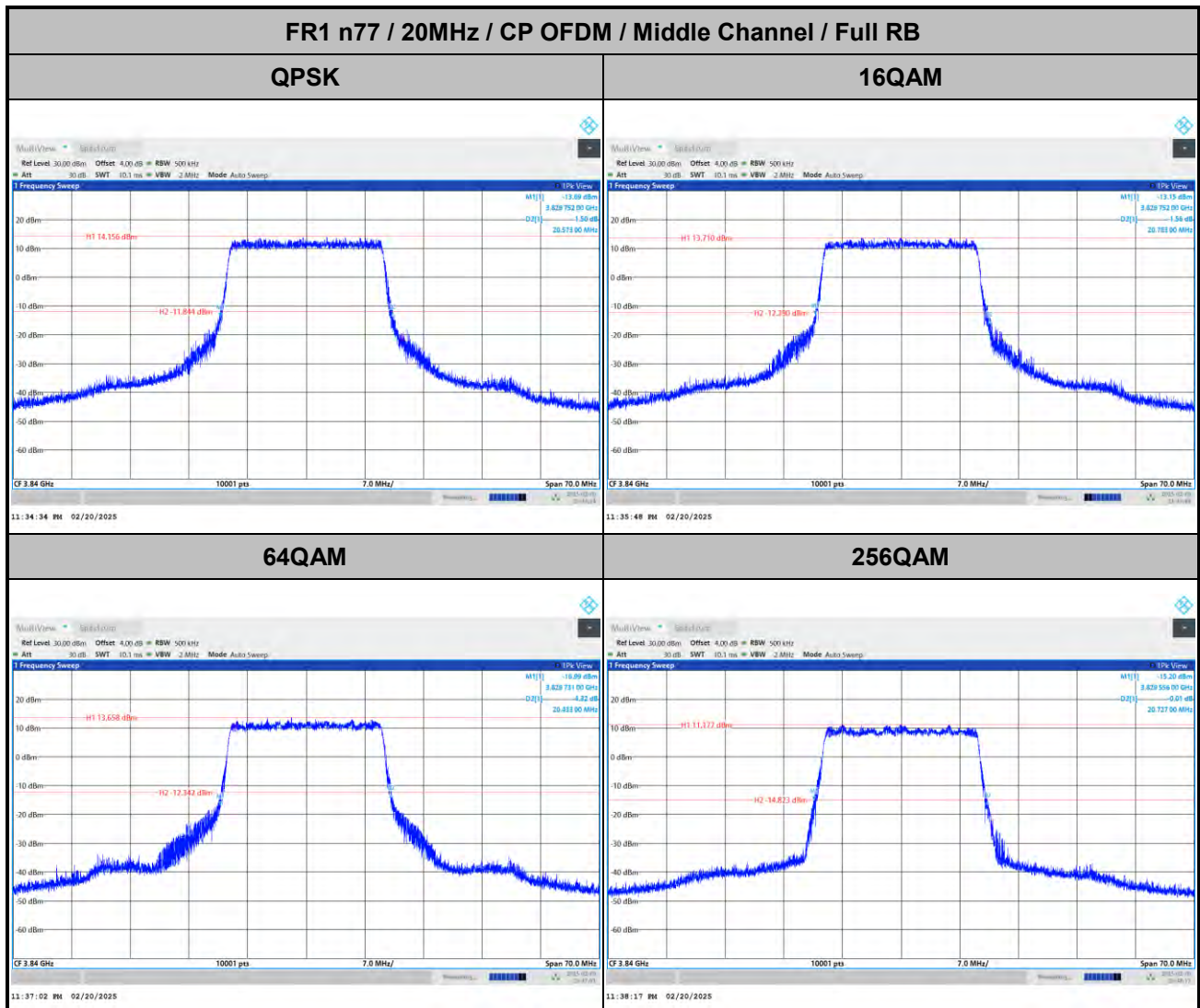


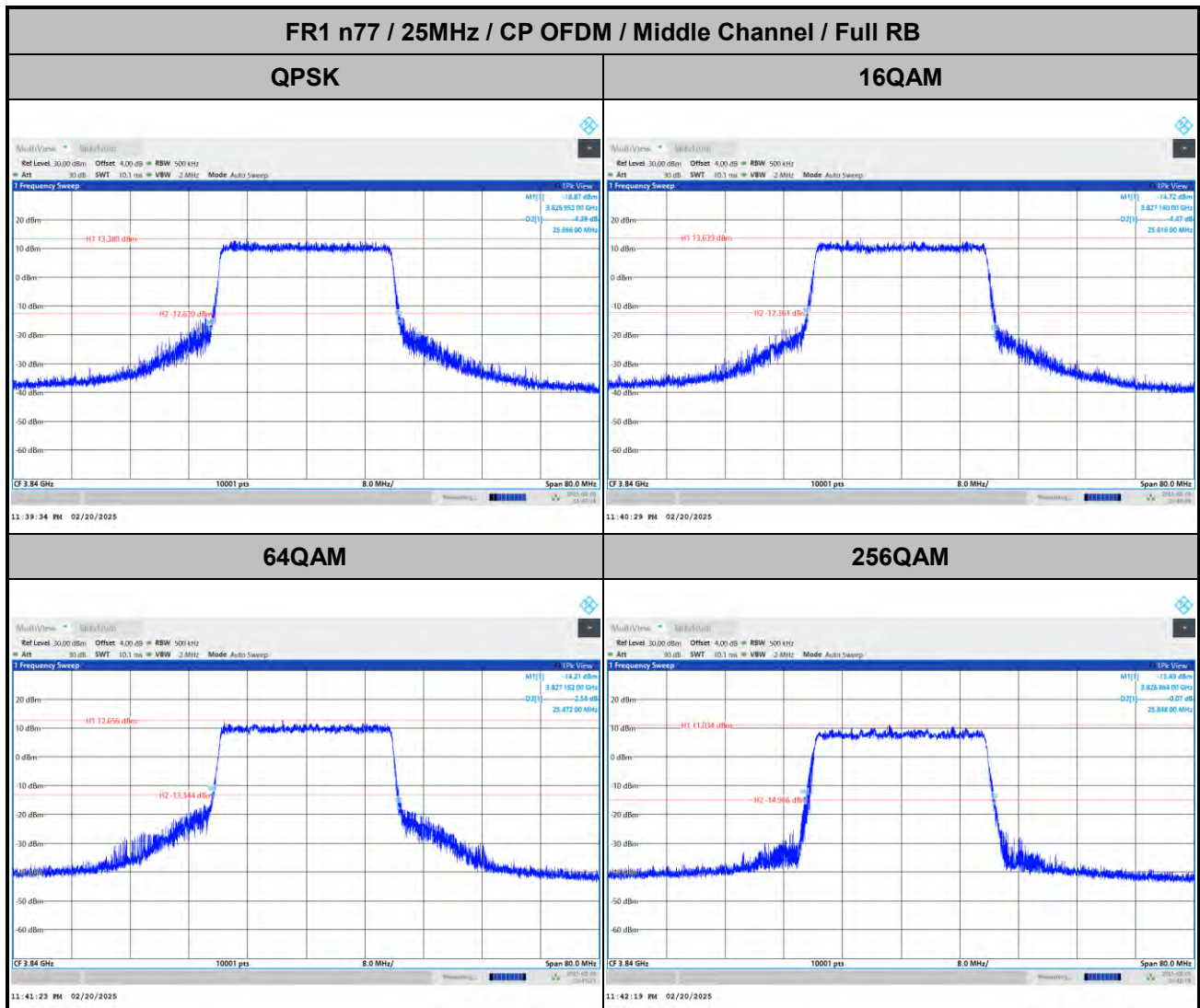
64QAM



256QAM



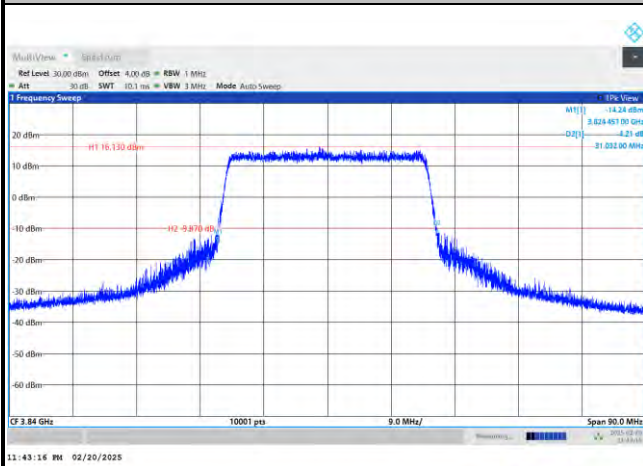




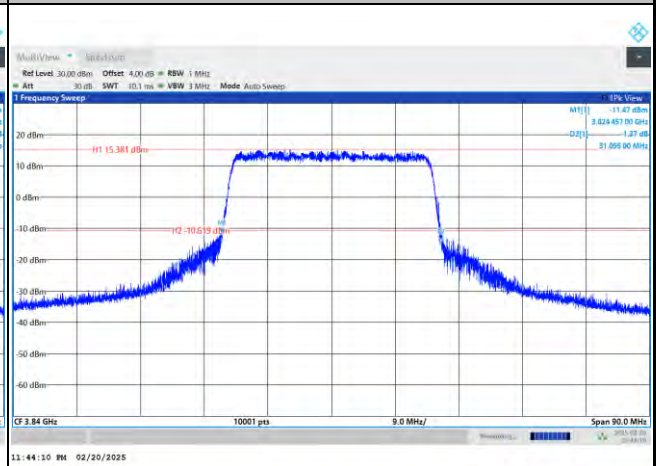


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

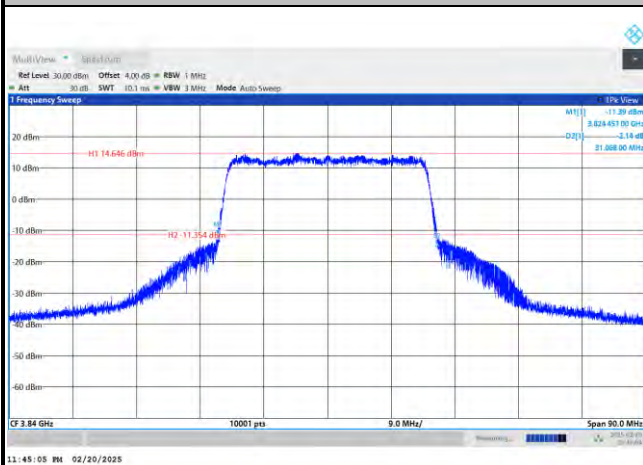
QPSK



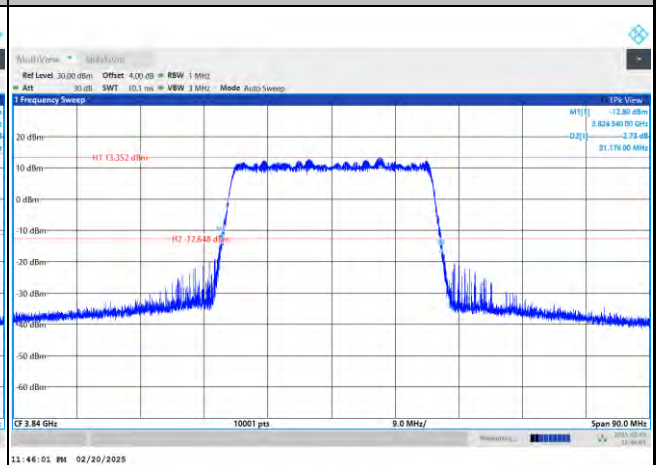
16QAM



64QAM



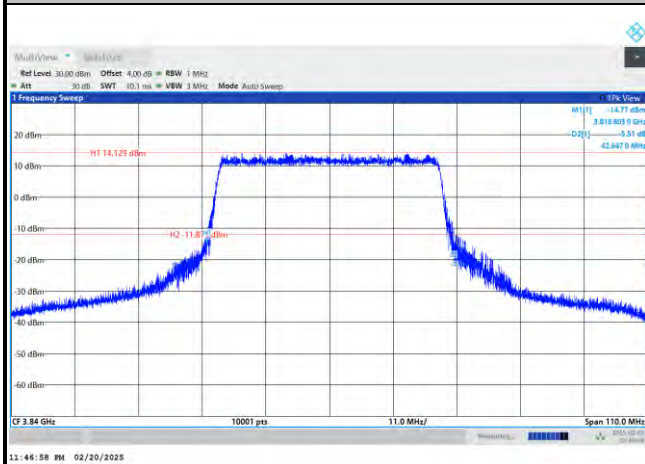
256QAM



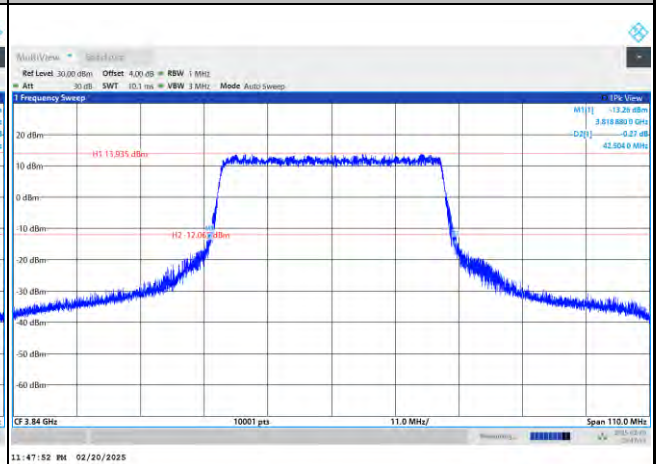


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

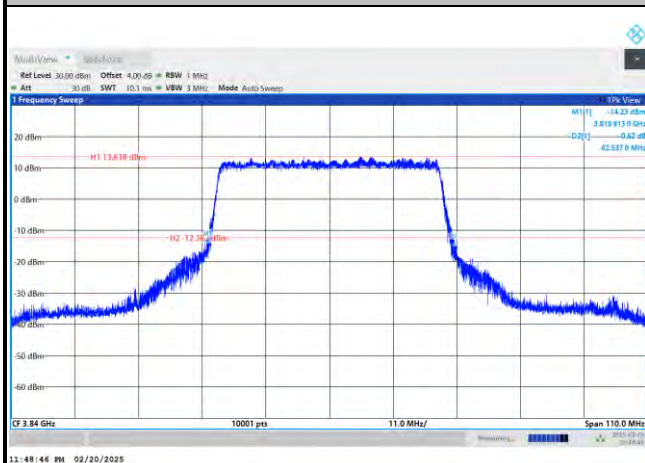
QPSK



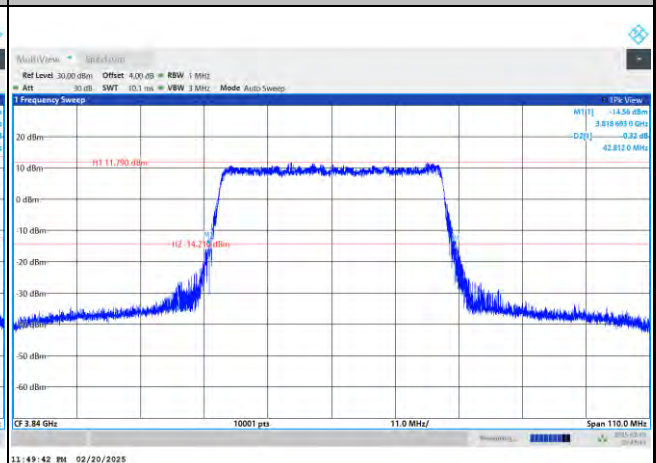
16QAM

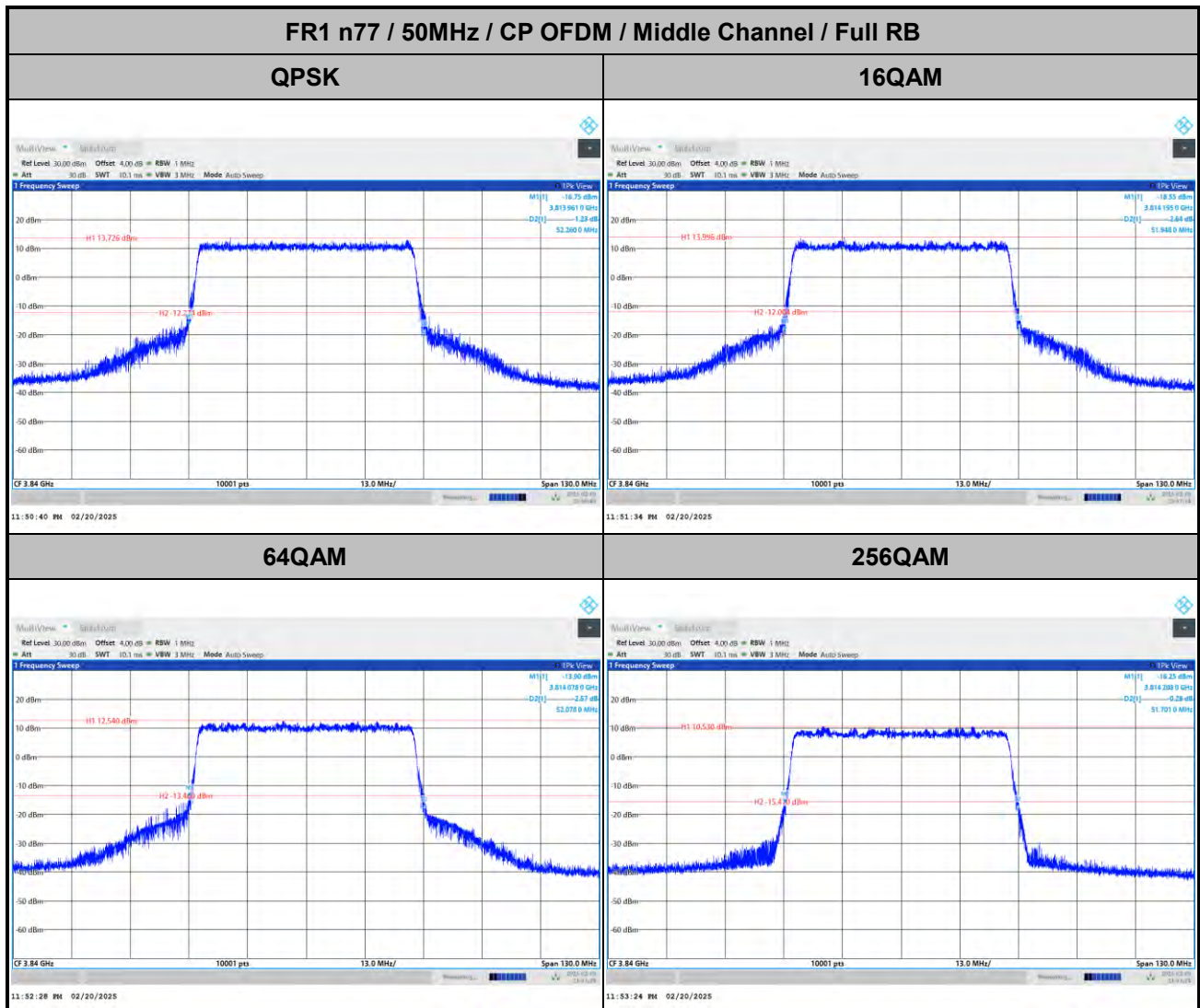


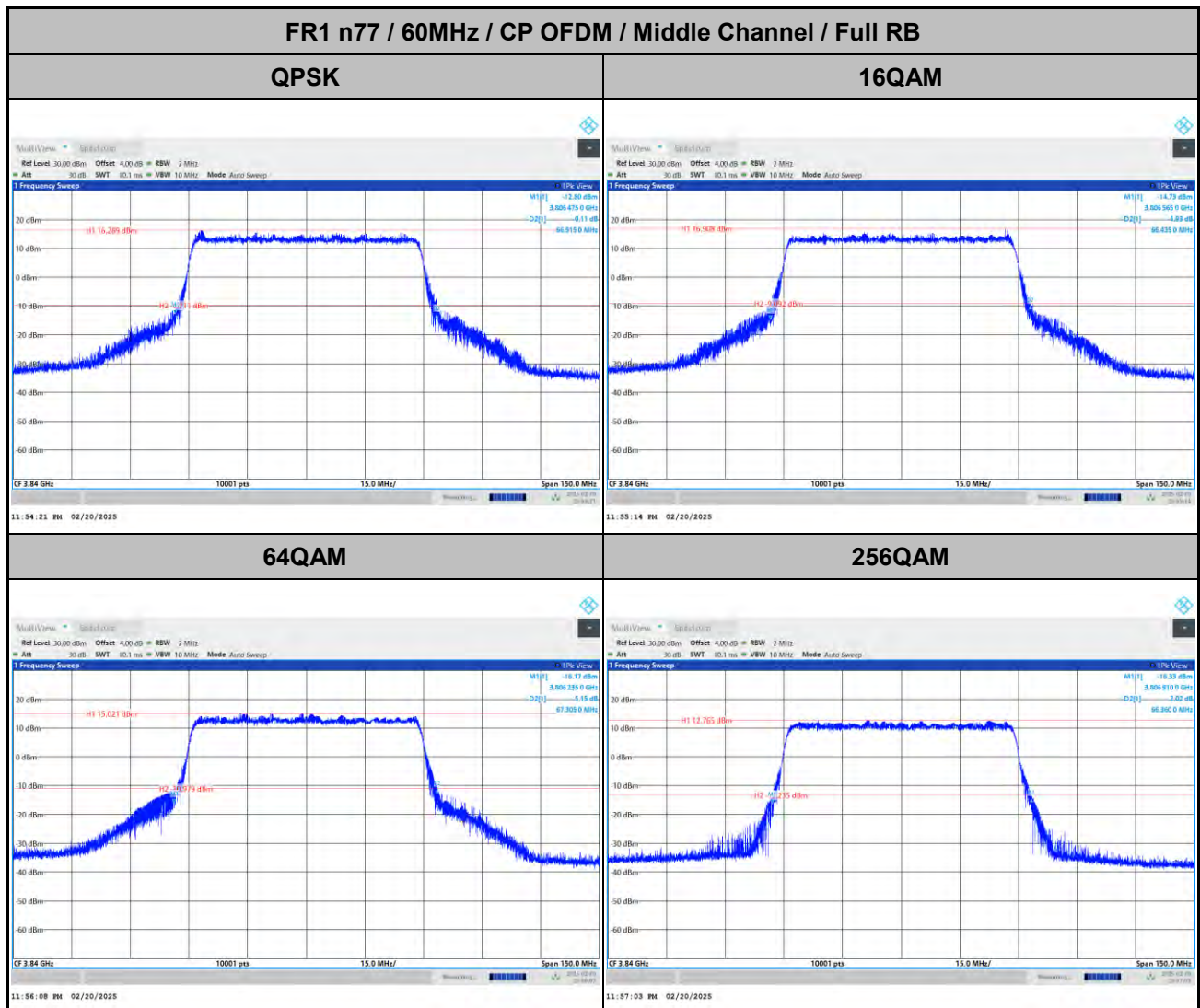
64QAM



256QAM



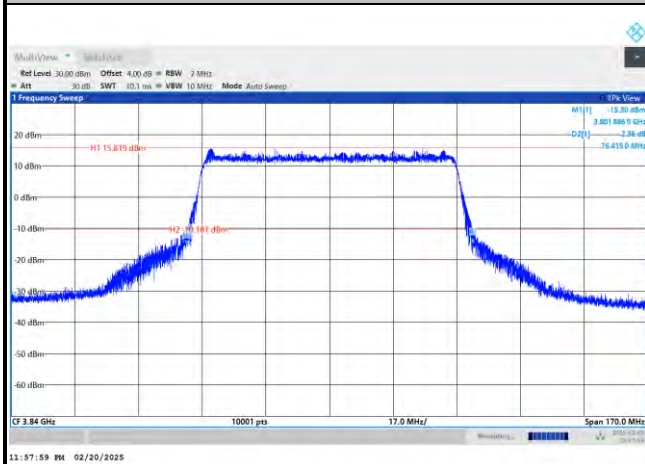




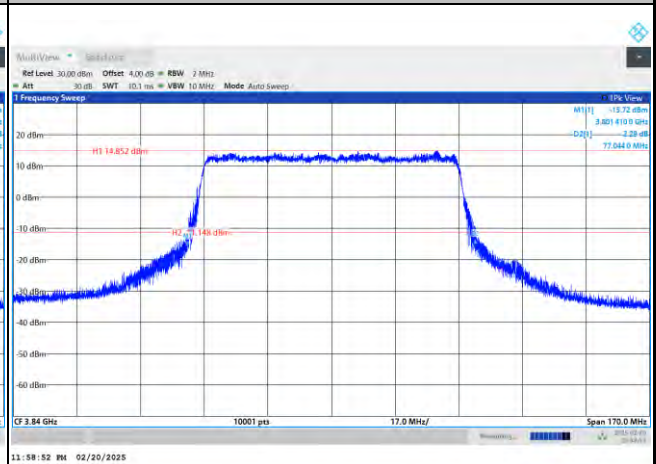


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

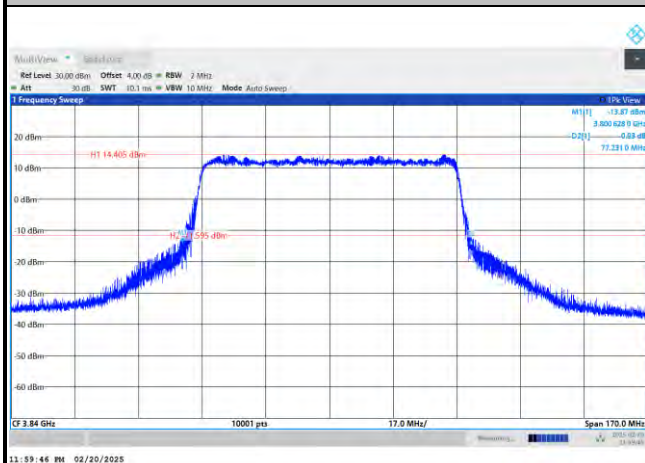
QPSK



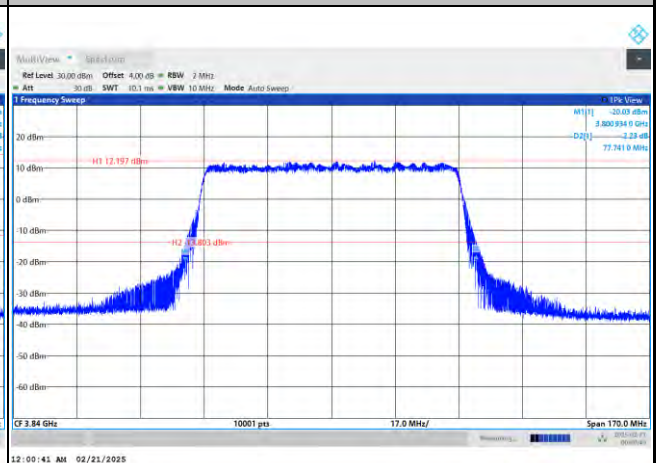
16QAM



64QAM



256QAM



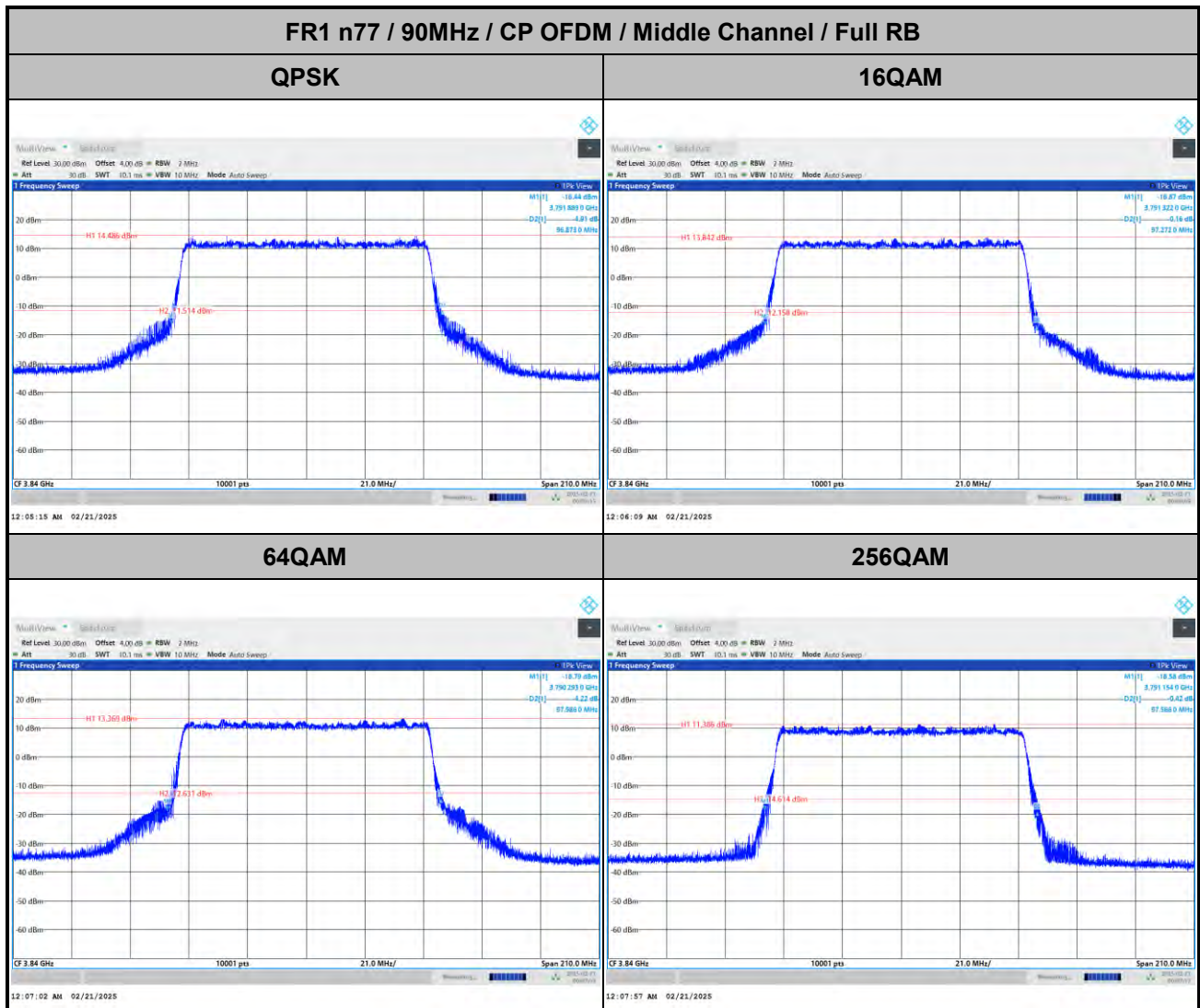


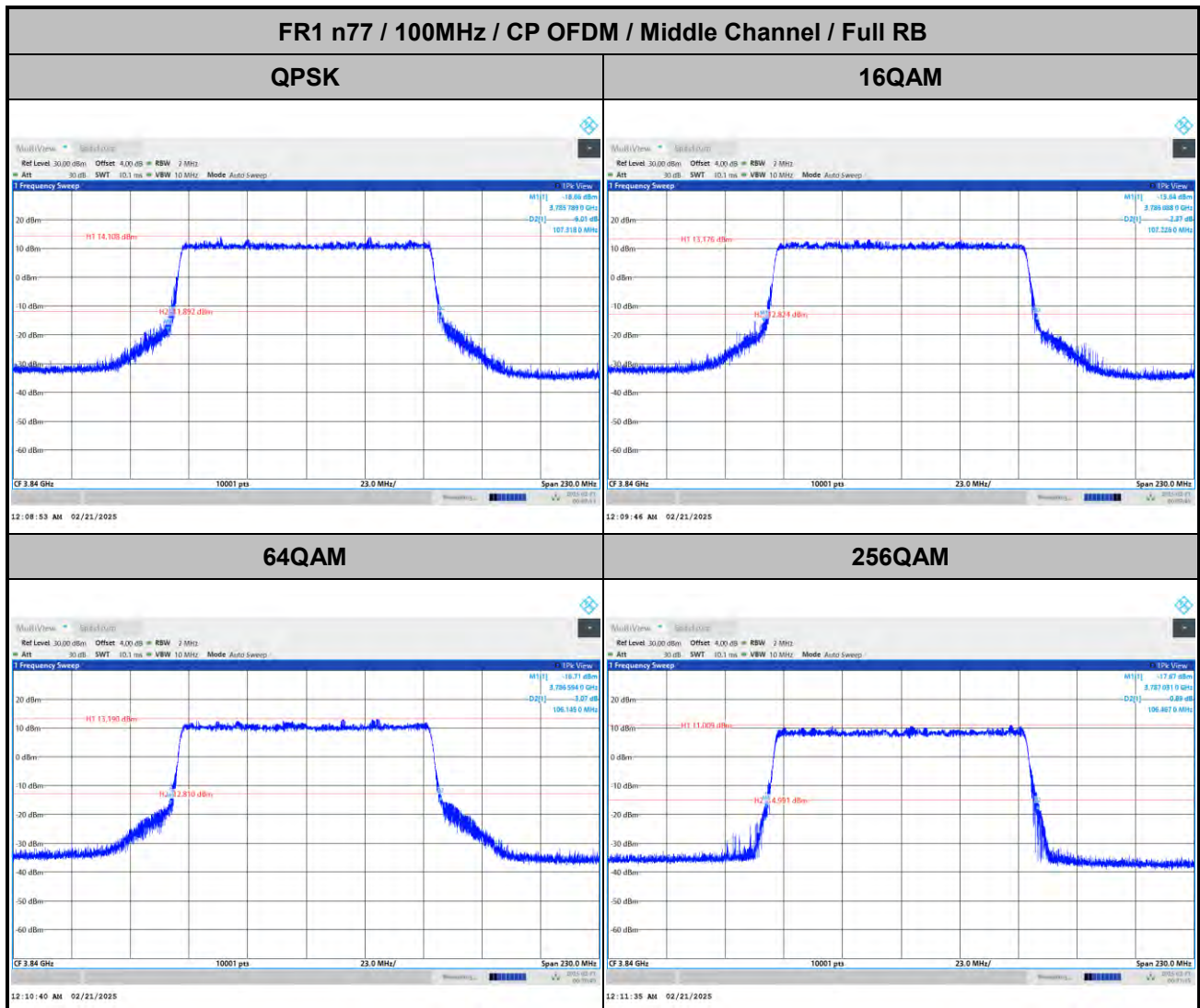
## 16QAM



## 256QAM







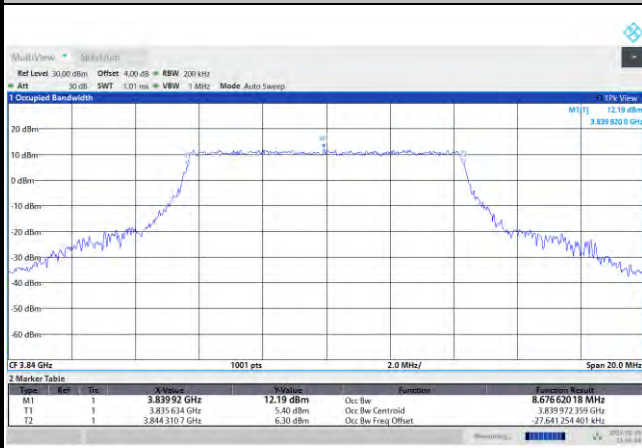
**Occupied Bandwidth**

| Mode      | FR1 n77 : OB BW(MHz) / CP OFDM |        |       |        |       |        |        |        |
|-----------|--------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                          |        | 15MHz |        | 20MHz |        | 25MHz  |        |
| Mod.      | QPSK                           | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 8.67                           | 8.66   | 13.63 | 13.72  | 18.42 | 18.39  | 23.31  | 23.35  |
| Mod.      | 64QAM                          | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 8.64                           | 8.64   | 13.67 | 13.59  | 18.33 | 18.37  | 23.33  | 23.44  |
| BW        | 30MHz                          |        | 40MHz |        | 50MHz |        | 60MHz  |        |
| Mod.      | QPSK                           | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 28.16                          | 28.16  | 38.24 | 38.21  | 47.72 | 47.70  | 58.62  | 58.65  |
| Mod.      | 64QAM                          | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 28.20                          | 28.23  | 38.23 | 38.21  | 47.65 | 47.58  | 58.73  | 58.44  |
| BW        | 70MHz                          |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                           | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 68.13                          | 68.23  | 78.05 | 78.07  | 87.98 | 87.93  | 98.01  | 97.77  |
| Mod.      | 64QAM                          | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 68.31                          | 68.33  | 77.99 | 78.03  | 88.32 | 88.09  | 97.81  | 97.93  |



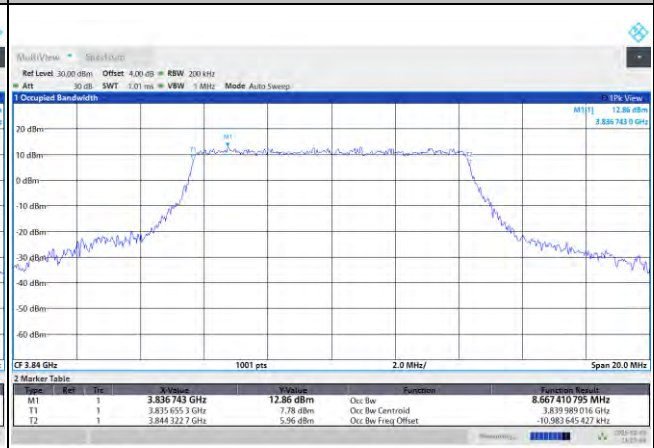
## FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

## QPSK



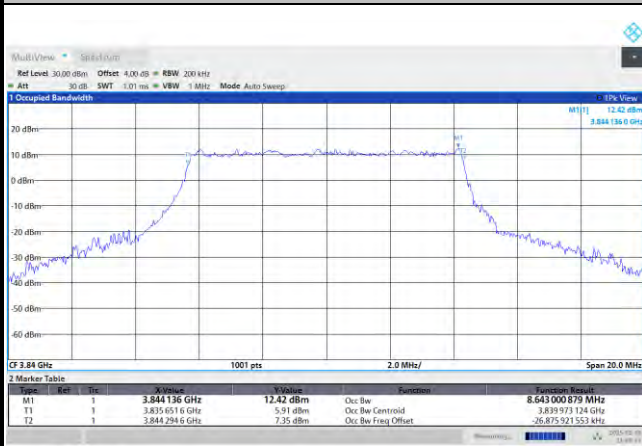
11:26:44 PM 02/20/2025

## 16QAM



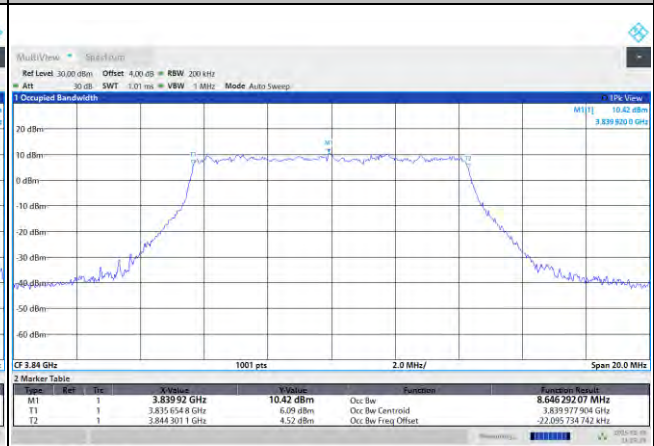
11:27:38 PM 02/20/2025

## 64QAM



11:28:32 PM 02/20/2025

## 256QAM

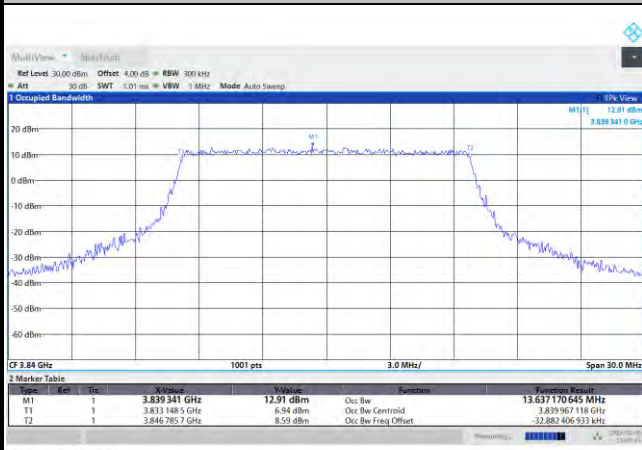


11:29:28 PM 02/20/2025

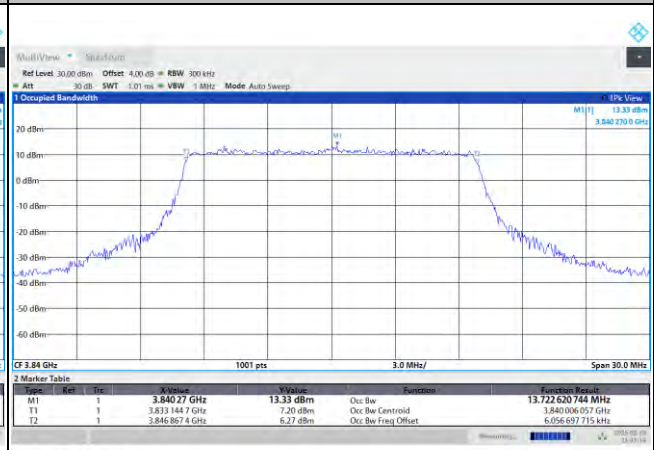


## FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

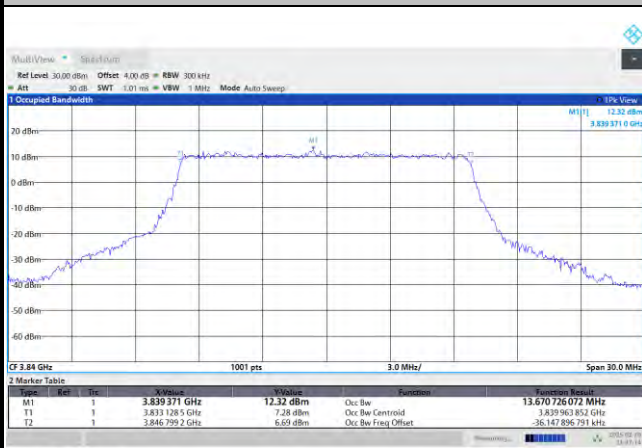
## QPSK



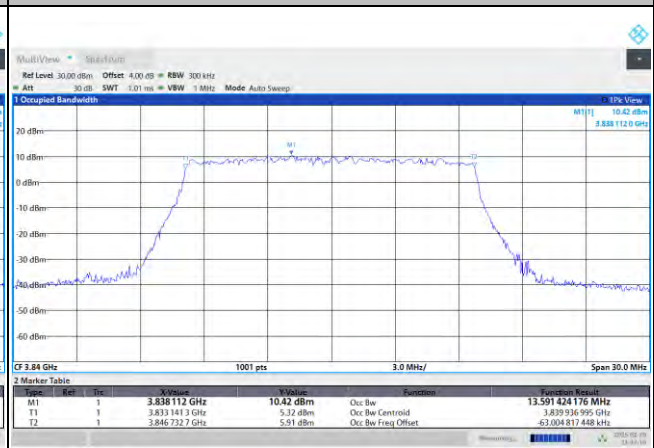
## 16QAM



## 64QAM



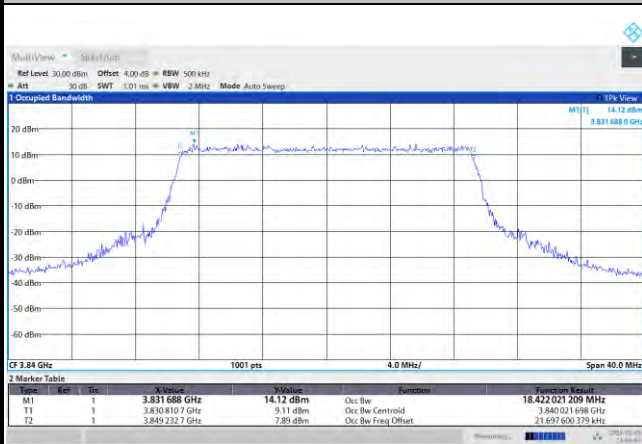
## 256QAM



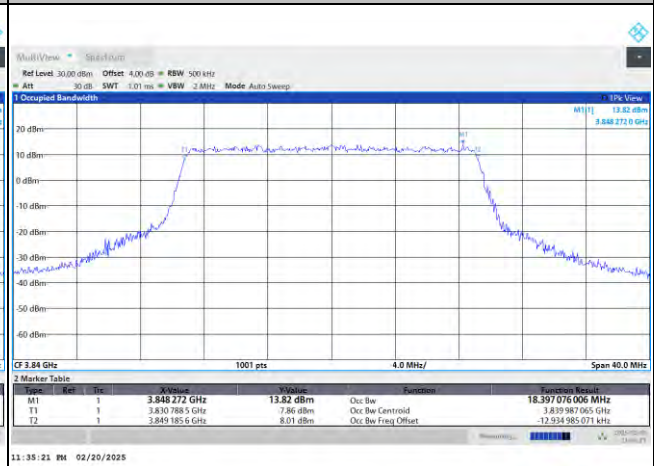


## FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

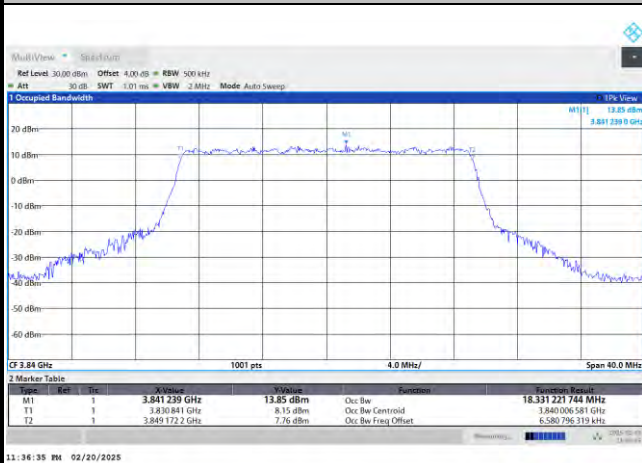
## QPSK



## 16QAM



## 64QAM



## 256QAM

