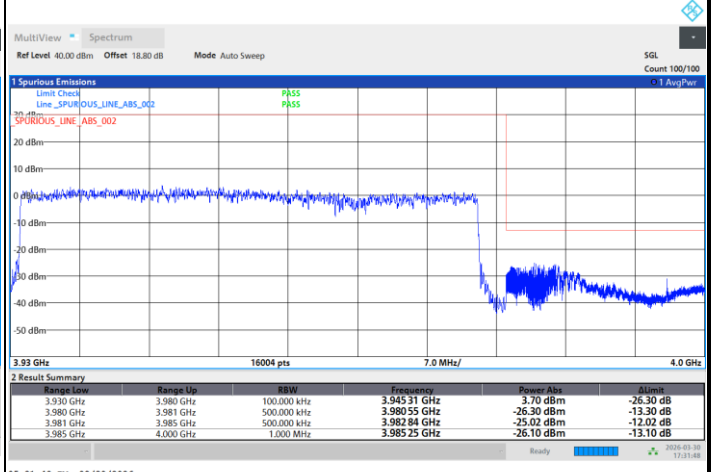
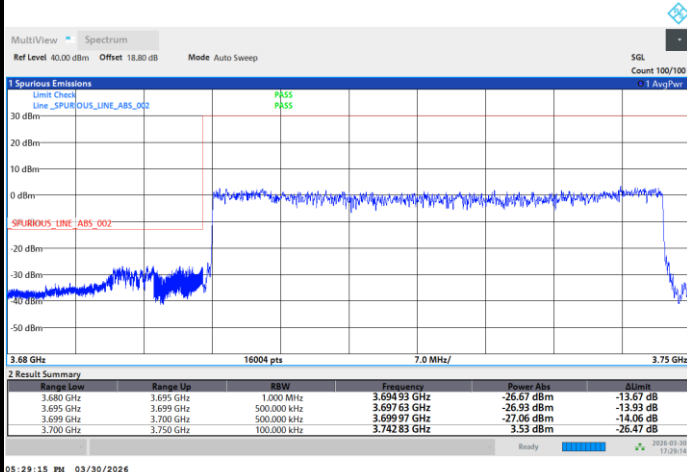




## FR1 n77 / 50MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

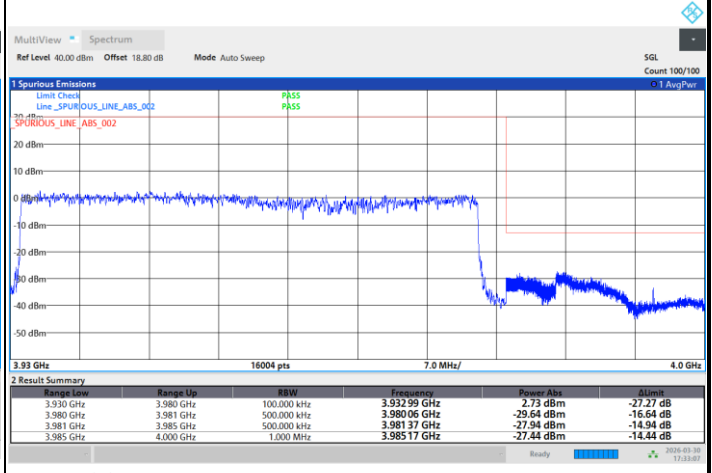
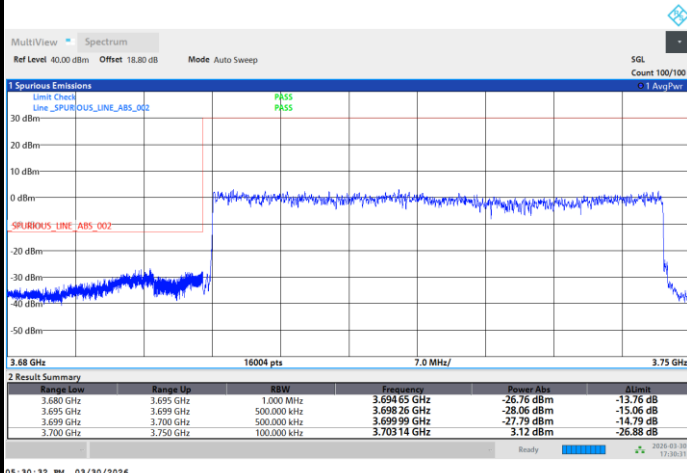
## Highest Band Edge / Full RB



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

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

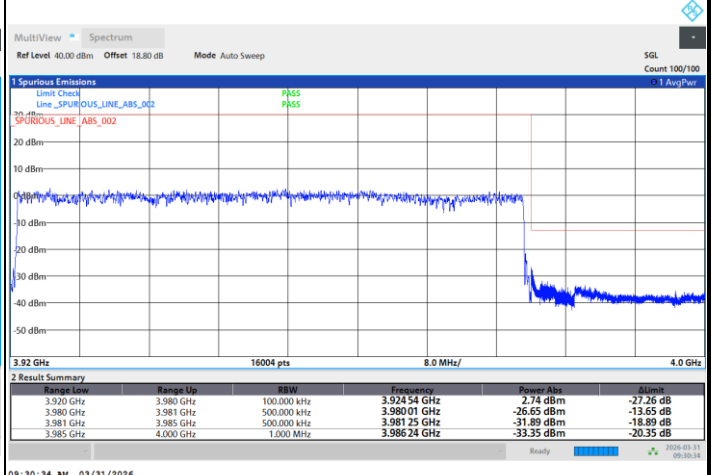
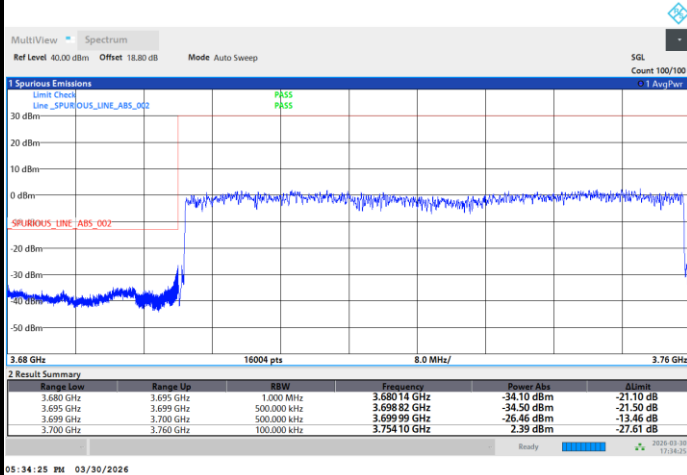




## FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

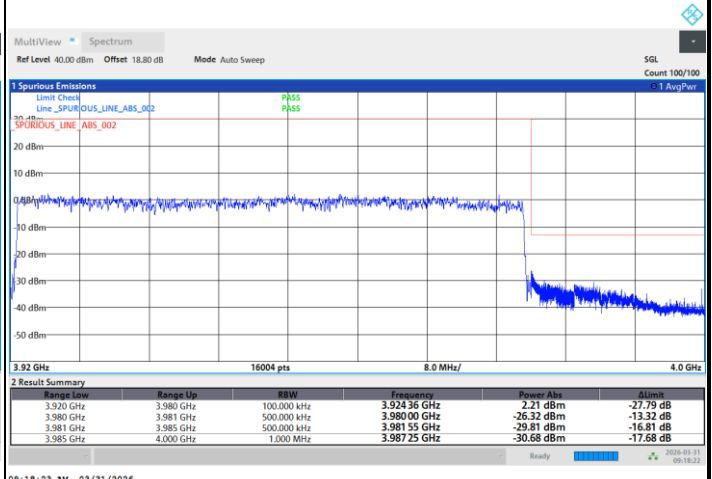
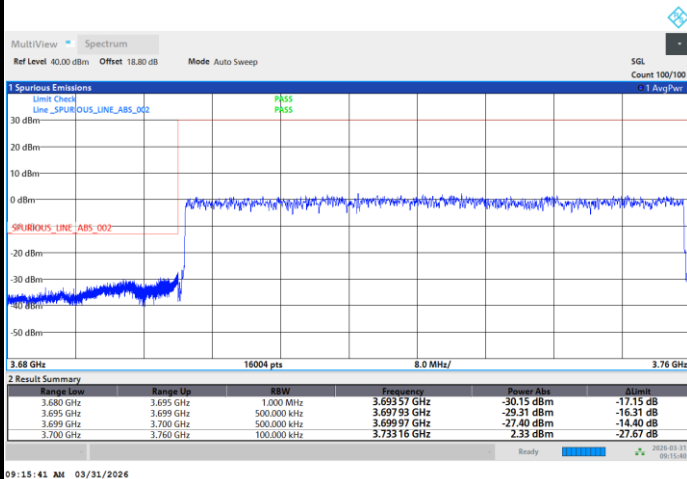
## Highest Band Edge / Full RB



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

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

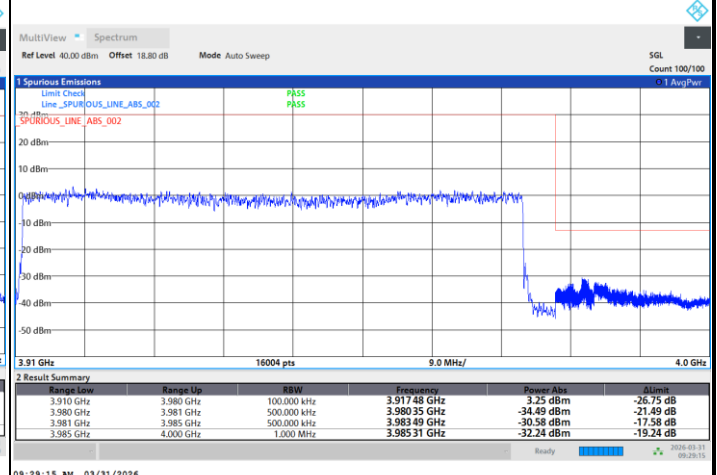
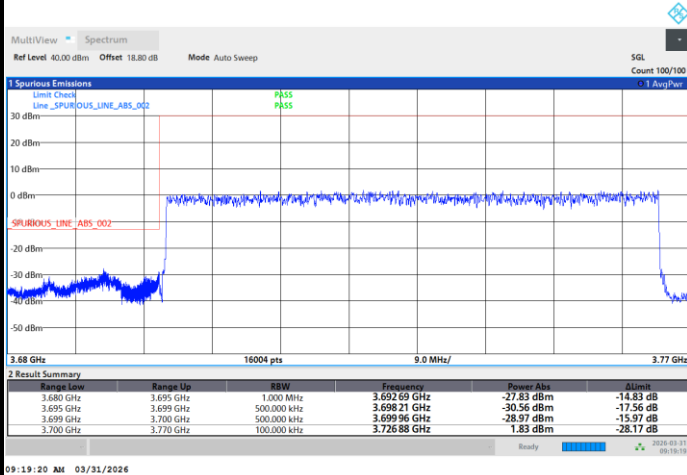




## FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

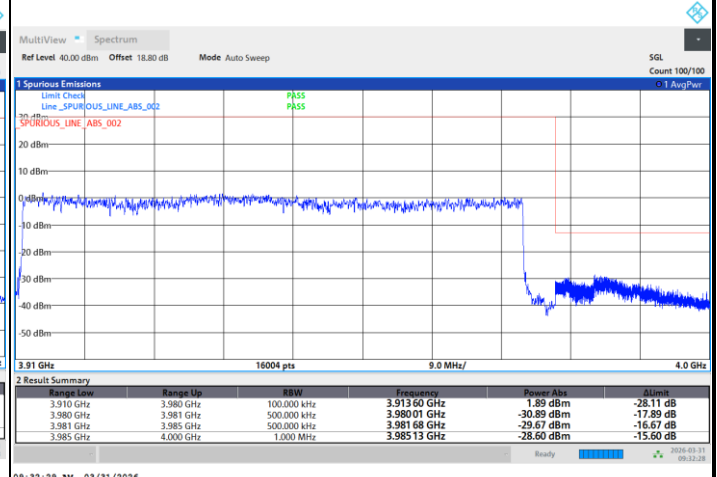
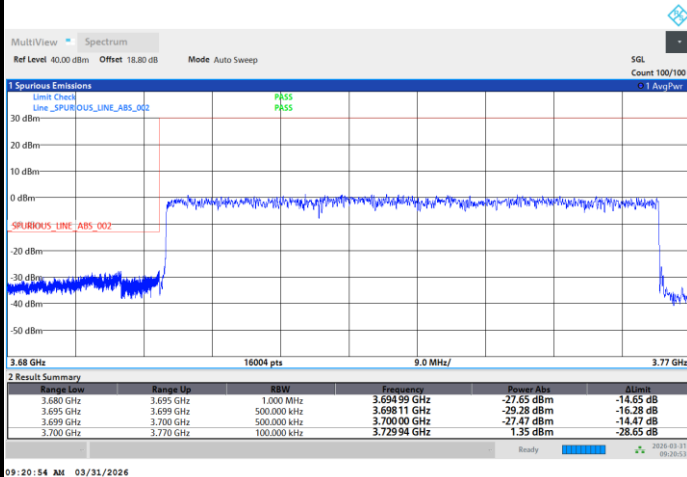
## Highest Band Edge / Full RB



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

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

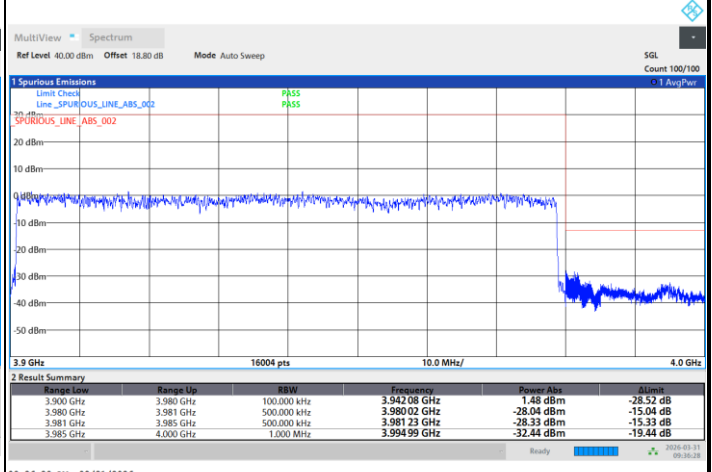
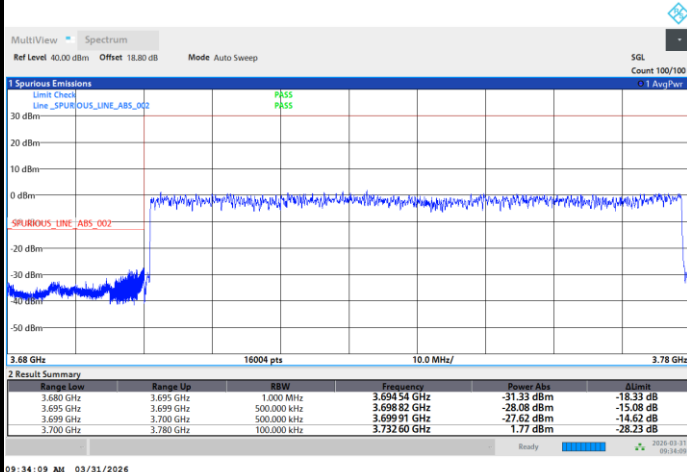




## FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

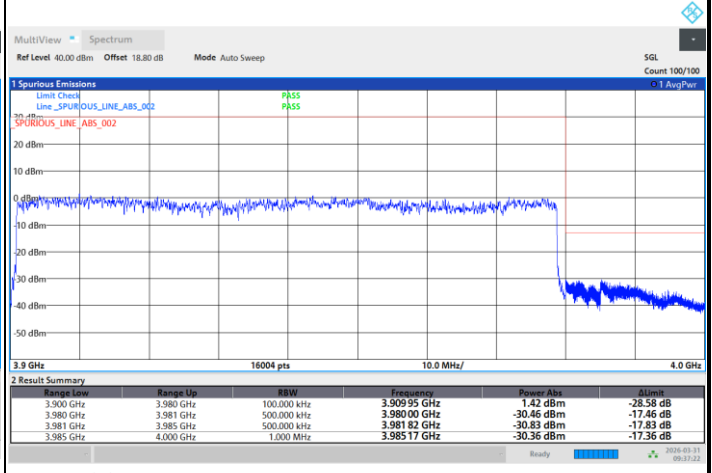
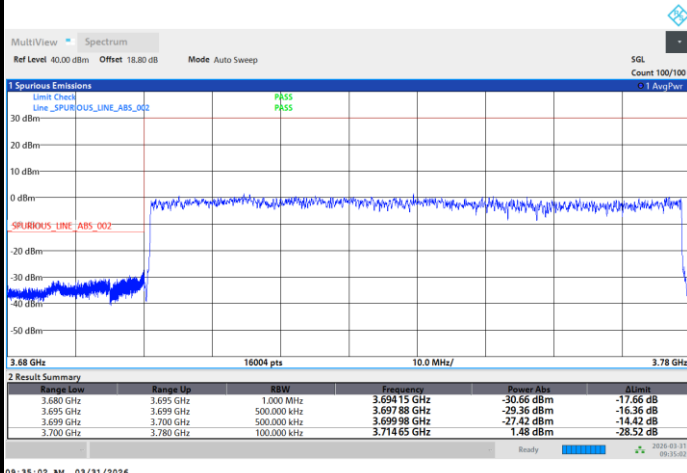
## Highest Band Edge / Full RB



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

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

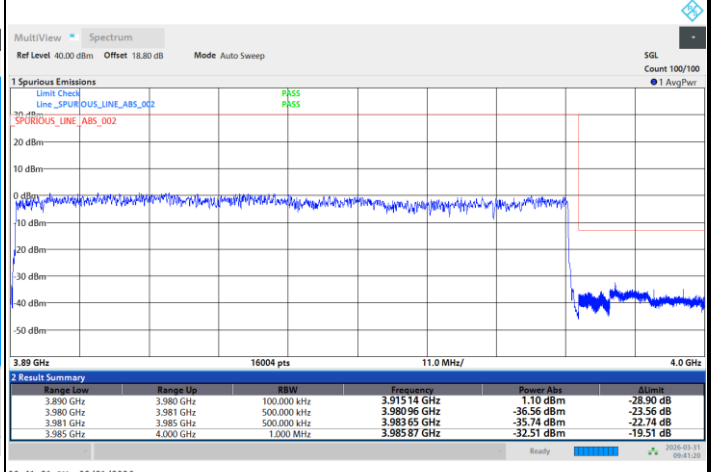
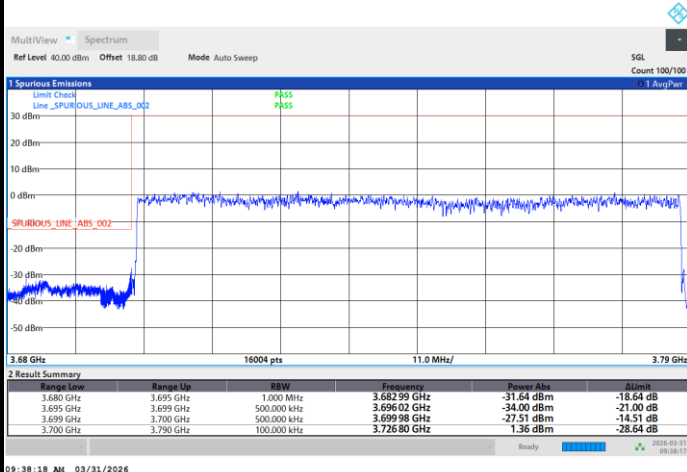




## FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

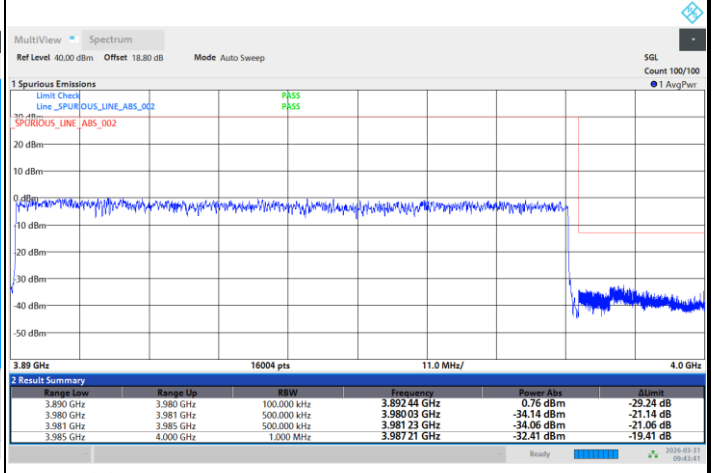
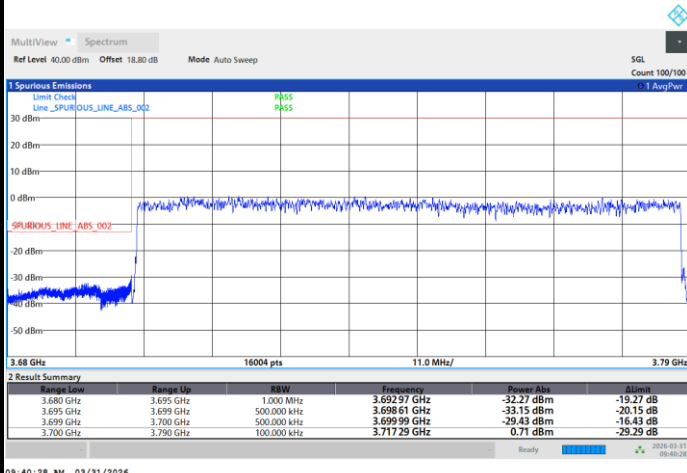
## Highest Band Edge / Full RB



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

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

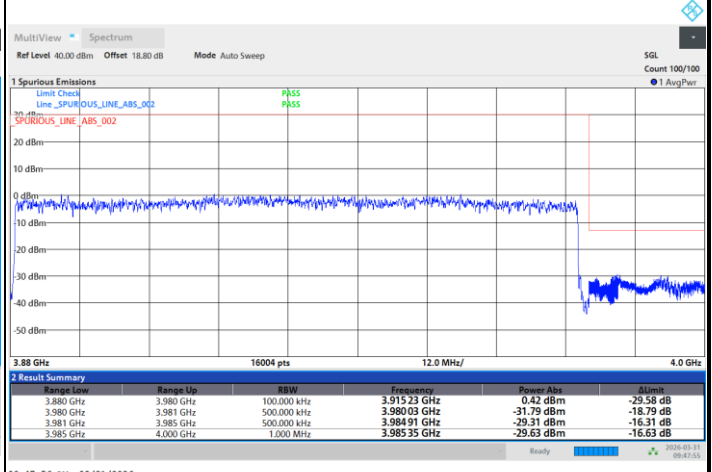
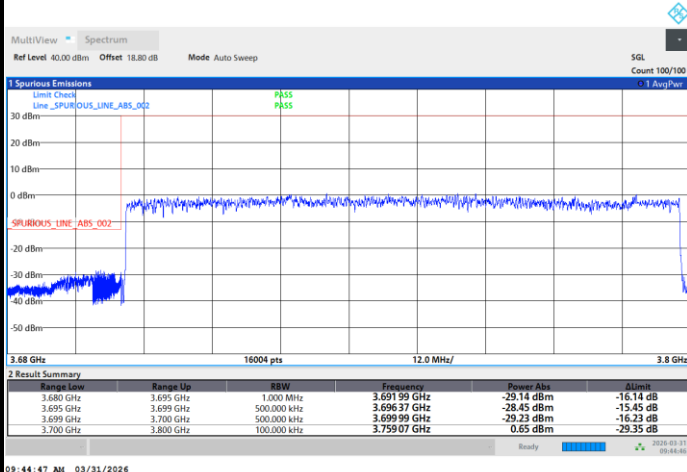




## FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

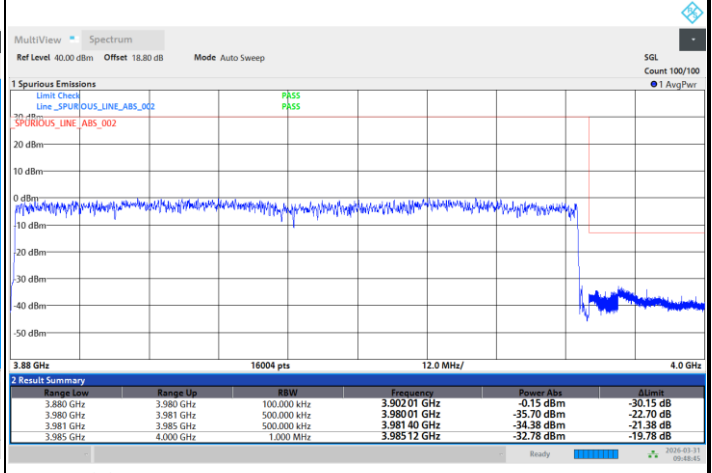
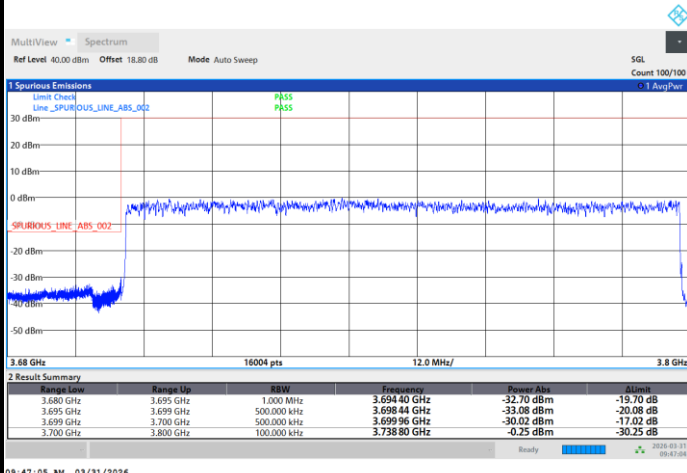
## Highest Band Edge / Full RB



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

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

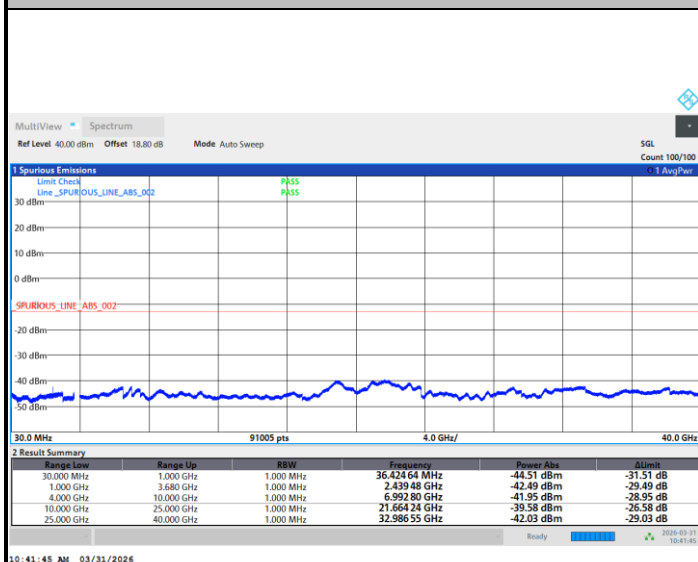




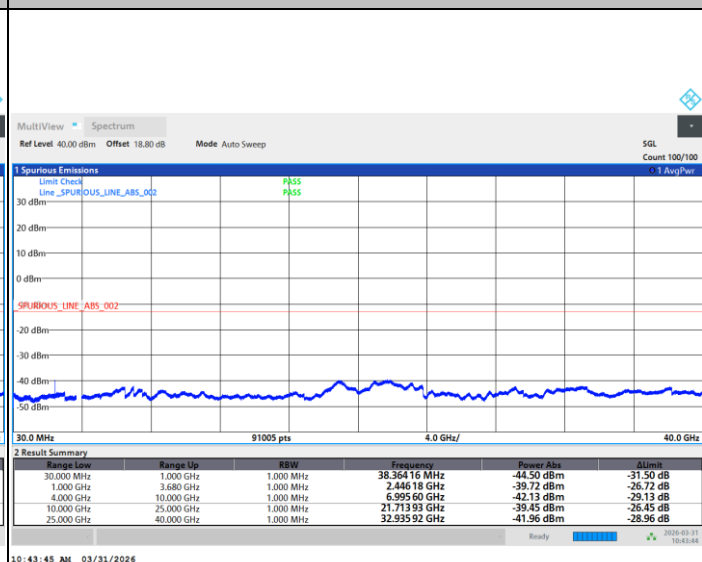
# Conducted Spurious Emission

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

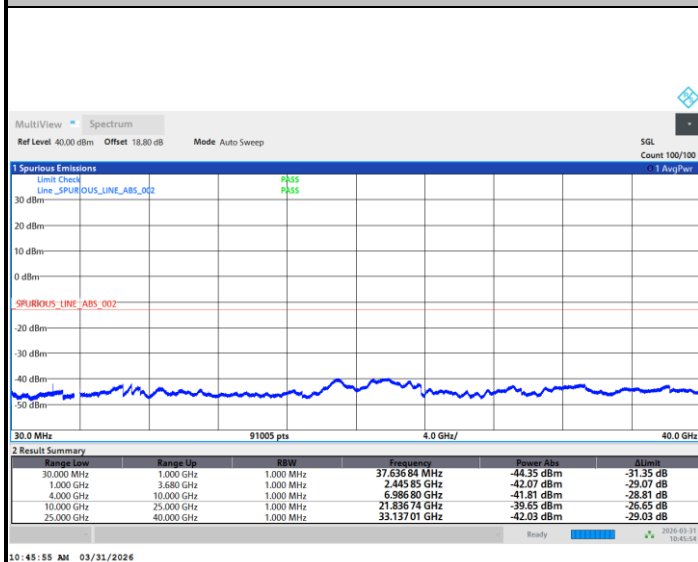
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n77 (BPSK) / Middle Channel 10M |                                         |                                             |        |
|---------------------|-------------------|-------------------------------------|-----------------------------------------|---------------------------------------------|--------|
| Temperature<br>(°C) | Voltage<br>(Volt) | Deviation (ppm)                     | Frequency Offset ( $\Delta f$ )<br>(Hz) | Within Authorized<br>Frequency<br>Block(Hz) | Result |
| 50                  | Normal Voltage    | 0.0026                              | -9.9                                    | Yes                                         | PASS   |
| 40                  | Normal Voltage    | 0.0008                              | -2.9                                    | Yes                                         |        |
| 30                  | Normal Voltage    | 0.0001                              | -0.2                                    | Yes                                         |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                              | 0                                       | Yes                                         |        |
| 10                  | Normal Voltage    | 0.0012                              | -4.7                                    | Yes                                         |        |
| 0                   | Normal Voltage    | 0.0010                              | -3.9                                    | Yes                                         |        |
| -10                 | Normal Voltage    | 0.0033                              | -12.6                                   | Yes                                         |        |
| -20                 | Normal Voltage    | 0.0004                              | 1.4                                     | Yes                                         |        |
| -30                 | Normal Voltage    | 0.0002                              | 0.9                                     | Yes                                         |        |
| 20                  | Maximum Voltage   | 0.0042                              | -16                                     | Yes                                         |        |
| 20                  | Normal Voltage    | 0.0000                              | 0                                       | Yes                                         |        |
| 20                  | Minimum Voltage   | 0.0001                              | -0.3                                    | Yes                                         |        |

**Note:**

1. Normal Voltage = 3.91 V. ; Minimum Voltage = 3.5 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

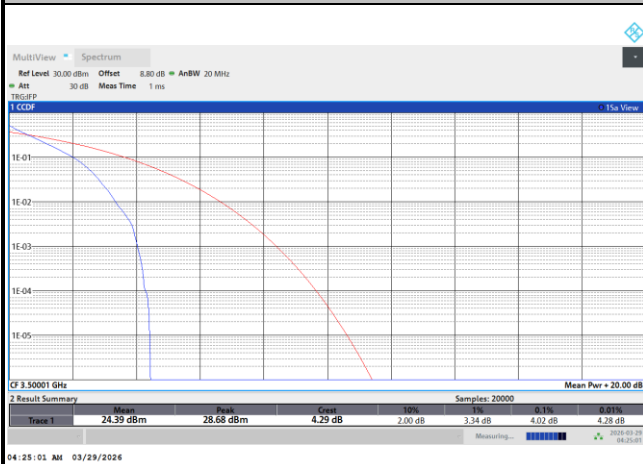
**FR1 n77\_Part27O****<TxD Mode>****MIMO <Ant. 8+9> (Ant. 8)****Peak-to-Average Ratio**

| Mode      | FR1 n77 / 20MHz / DFT-S OFDM |         |         |         |             |
|-----------|------------------------------|---------|---------|---------|-------------|
| Mod.      | PI/2 BPSK                    | QPSK    | 16QAM   | 64QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.02                         | 4.78    | 5.62    | 6.16    | <b>PASS</b> |
| Mode      | FR1 n77 / 20MHz / DFT-S OFDM |         |         |         |             |
| Mod.      | 256QAM                       |         |         |         | Limit: 13dB |
| RB Size   | Full RB                      |         |         |         | Result      |
| Middle CH | 6.50                         |         |         |         | <b>PASS</b> |

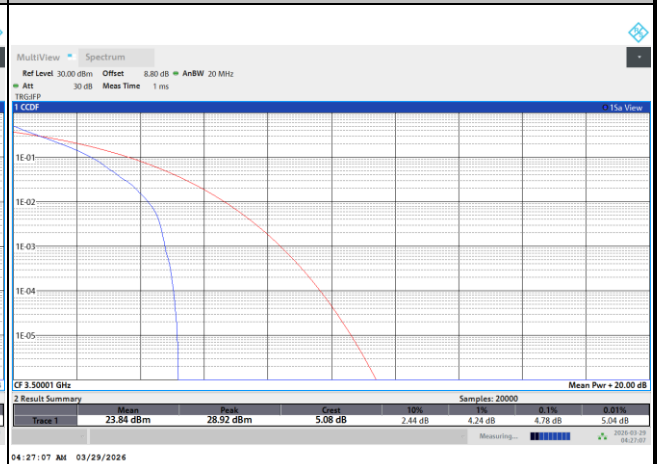


## FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

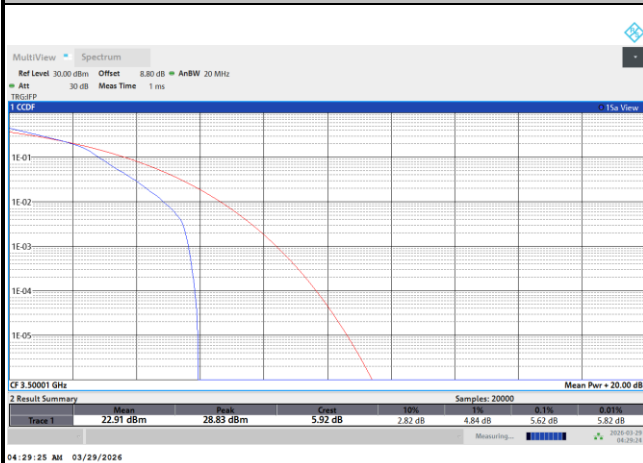
## PI/2 BPSK



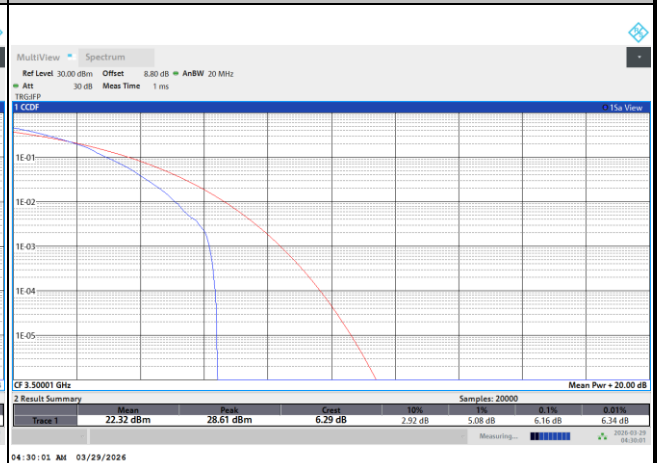
## QPSK



## 16QAM



## 64QAM



## 256QAM



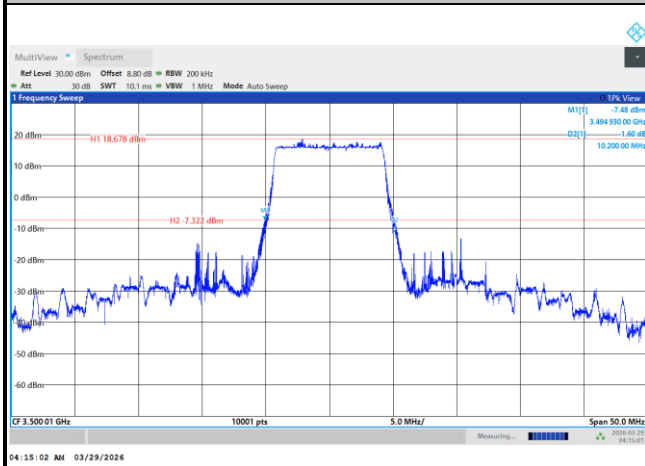
**26dB Bandwidth**

| Mode      | FR1 n77 : 26dB BW(MHz) / DFT-S OFDM |       |           |       |           |       |           |        |
|-----------|-------------------------------------|-------|-----------|-------|-----------|-------|-----------|--------|
| BW        | 10MHz                               |       | 15MHz     |       | 20MHz     |       | 25MHz     |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 10.20                               | 9.96  | 14.60     | 14.55 | 19.77     | 19.96 | 25.05     | 25.04  |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 10.14                               |       | 14.82     |       | 19.86     |       | 25.03     |        |
| BW        | 30MHz                               |       | 40MHz     |       | 50MHz     |       | 60MHz     |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 29.66                               | 29.61 | 38.58     | 38.73 | 48.73     | 48.72 | 62.80     | 63.00  |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 29.93                               |       | 38.74     |       | 48.39     |       | 62.79     |        |
| BW        | 70MHz                               |       | 80MHz     |       | 90MHz     |       | 100MHz    |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 69.24                               | 69.42 | 82.00     | 82.46 | 91.62     | 92.12 | 101.56    | 101.72 |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 69.20                               |       | 82.25     |       | 92.00     |       | 101.89    |        |

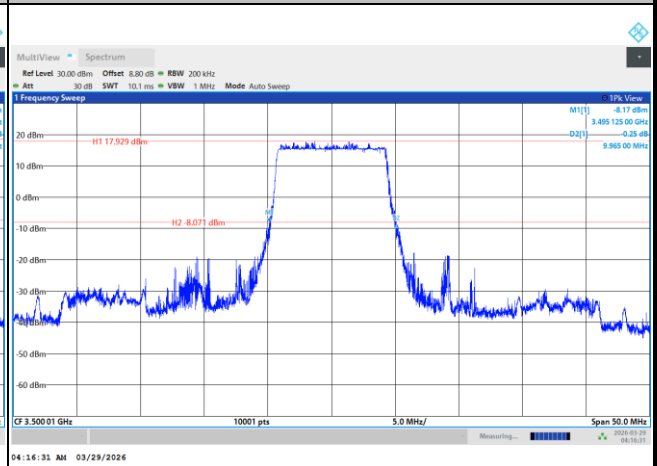


FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

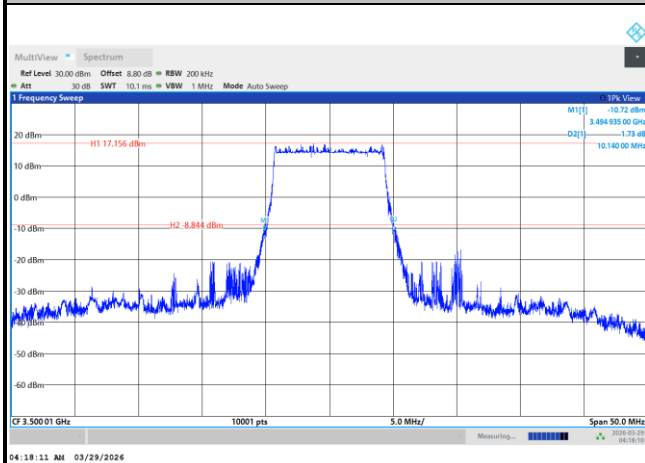
PI/2 BPSK



QPSK



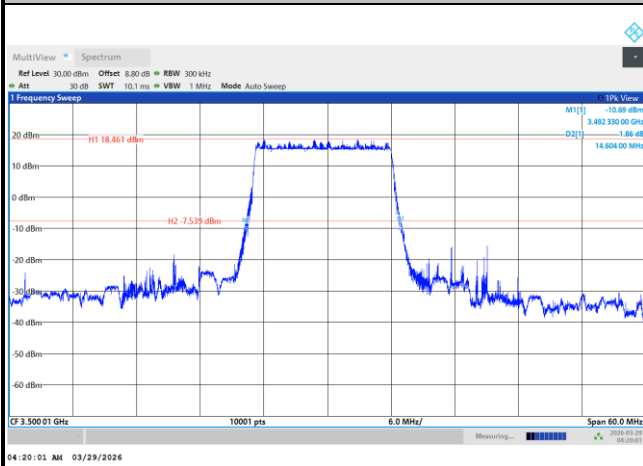
16QAM



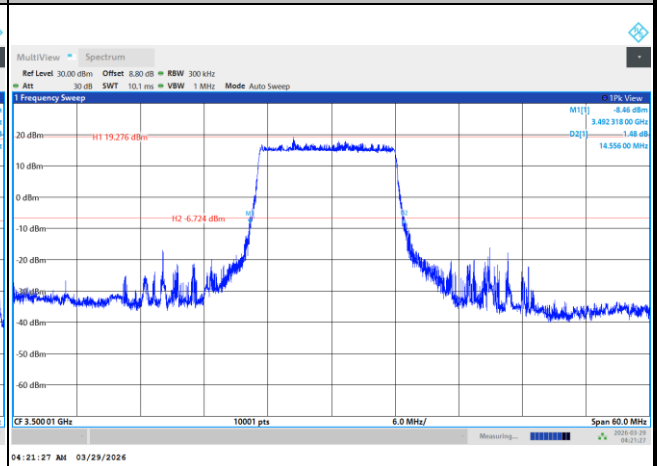


FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

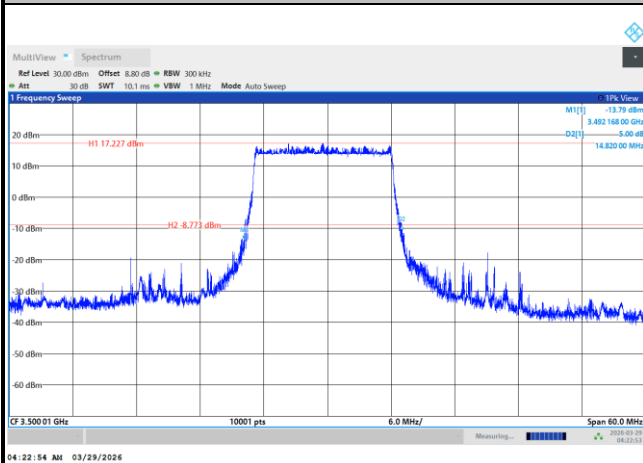
PI/2 BPSK



QPSK



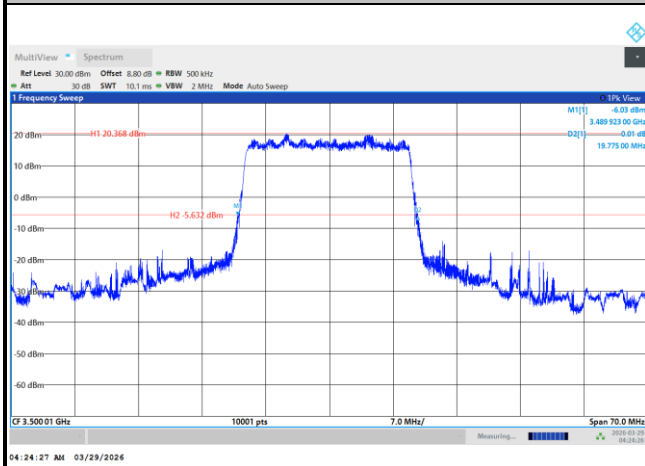
16QAM





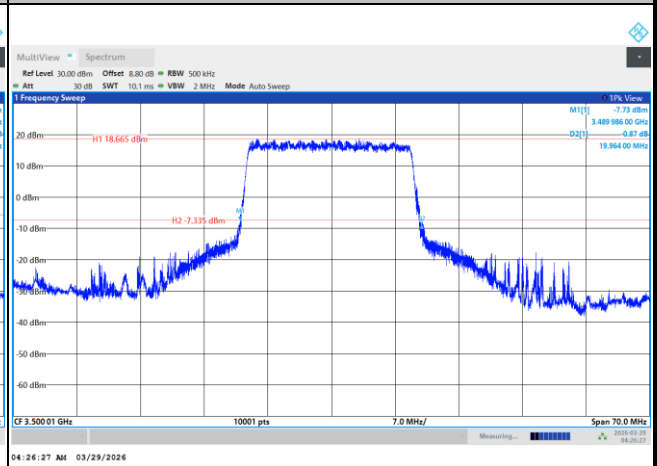
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



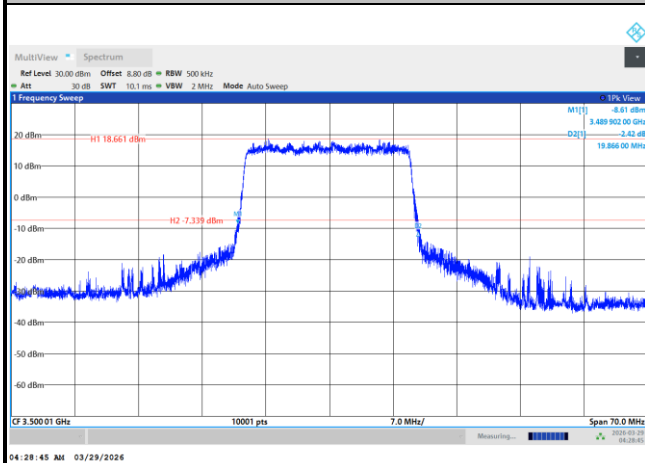
04:24:27 AM 03/29/2026

QPSK



04:26:27 AM 03/29/2026

16QAM

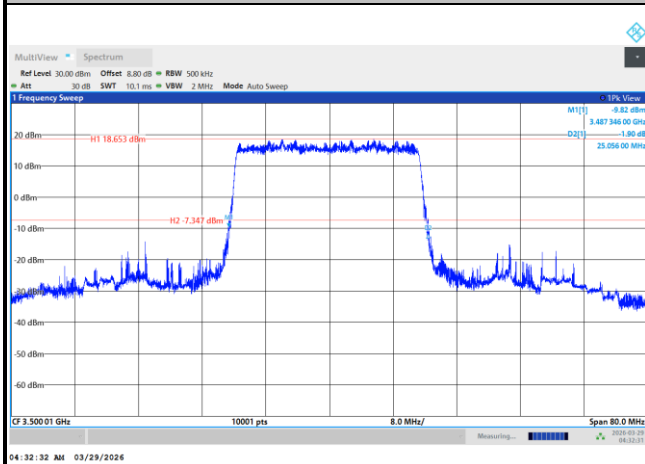


04:28:45 AM 03/29/2026

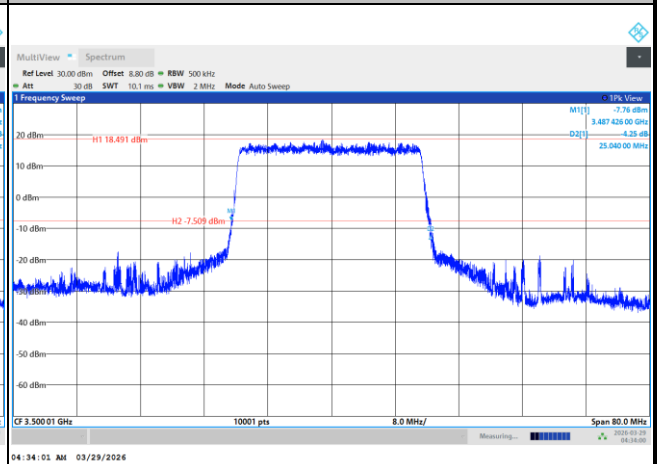


FR1 n77 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

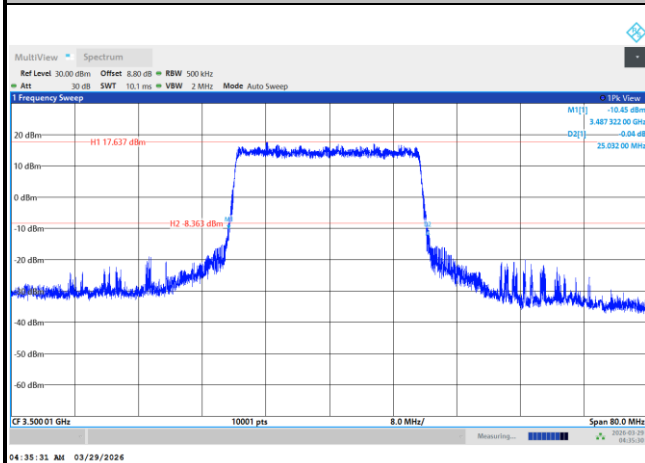
PI/2 BPSK



QPSK



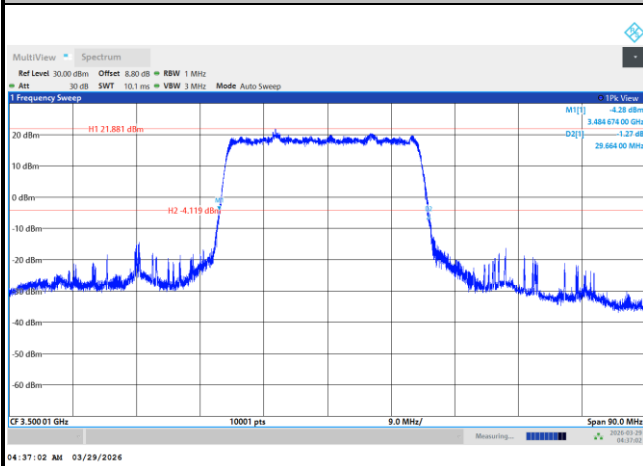
16QAM





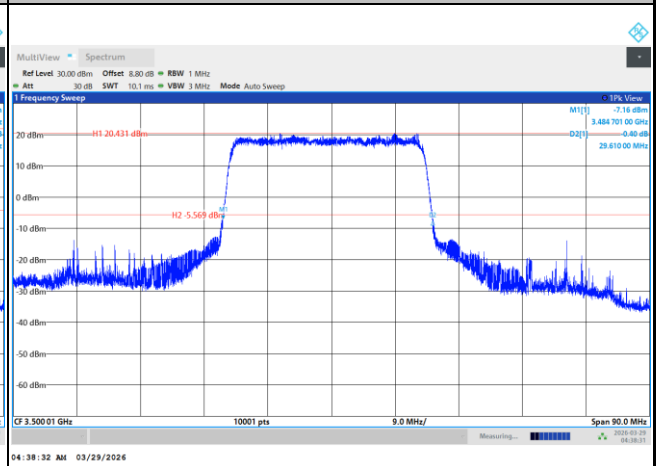
FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



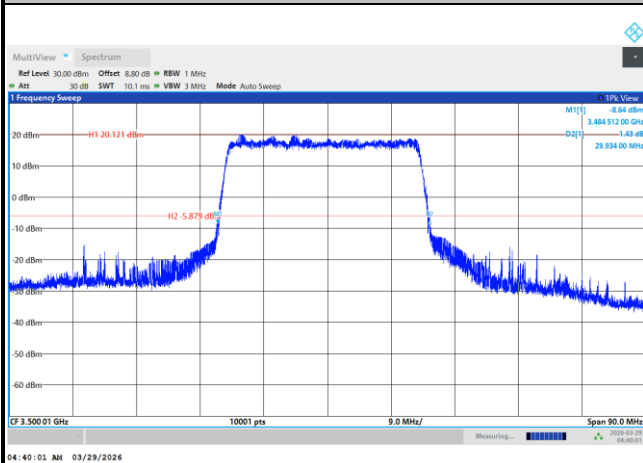
04:37:02 AM 03/29/2026

QPSK



04:38:32 AM 03/29/2026

16QAM



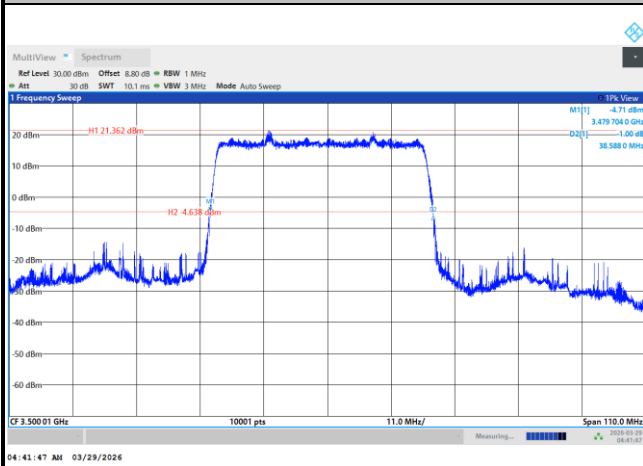
04:40:01 AM 03/29/2026



**Report No. : FG5N0611-01C**

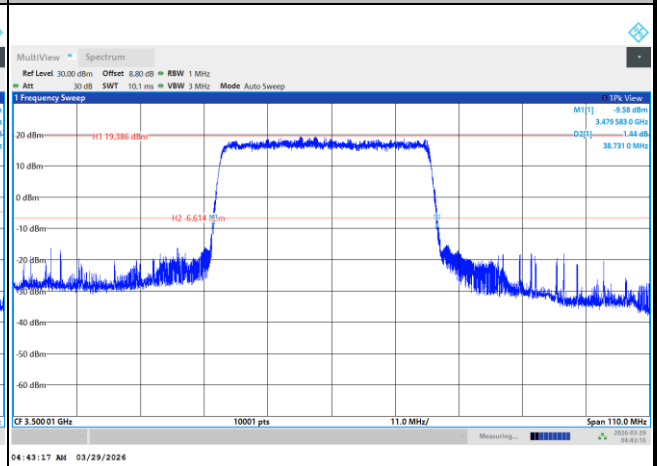
## FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



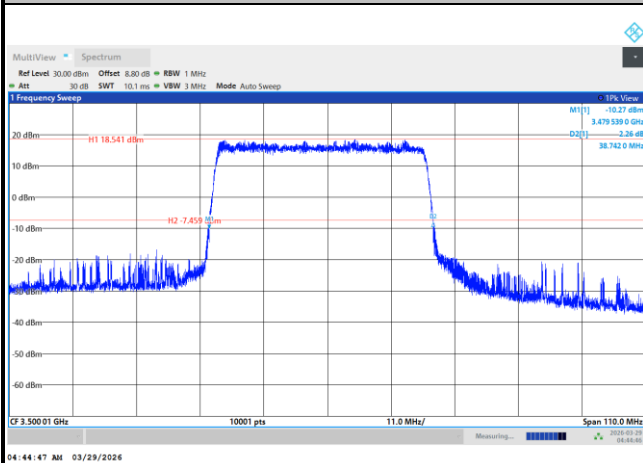
04:41:47 AM 03/29/2026

## QPSK



04:43:17 AM 03/29/2026

## 16QAM

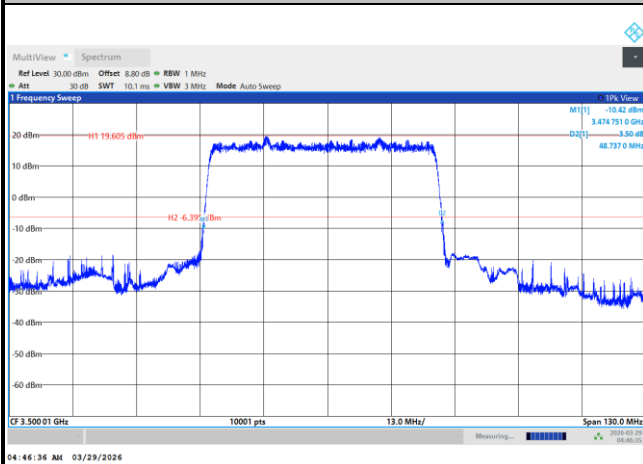


04:44:47 AM 03/29/2026



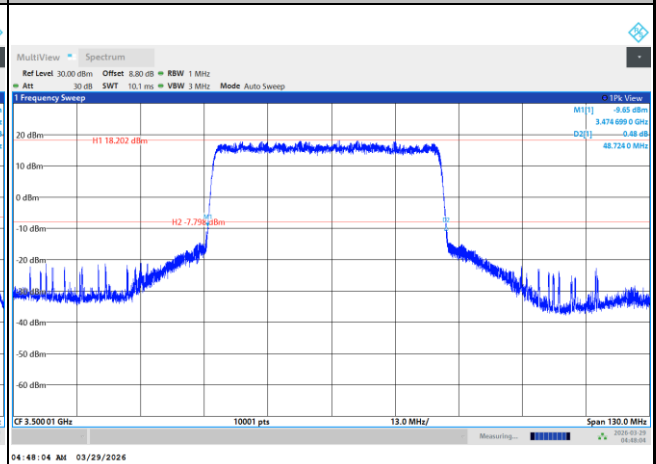
## FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



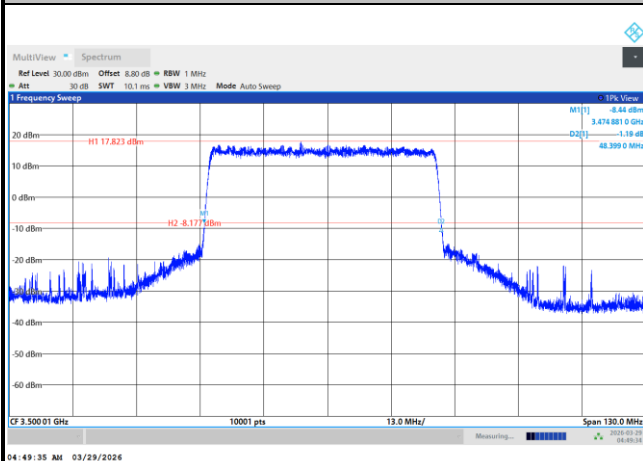
04:46:36 AM 03/29/2026

## QPSK



04:48:04 AM 03/29/2026

## 16QAM

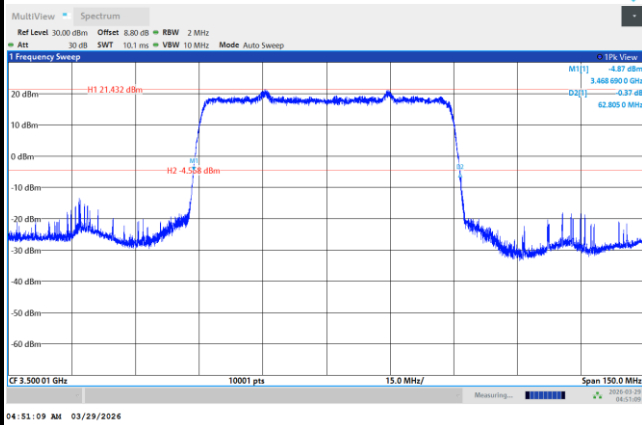


04:49:35 AM 03/29/2026



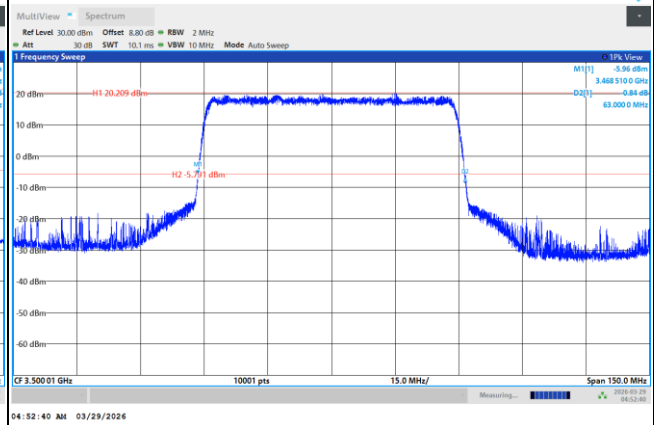
## FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



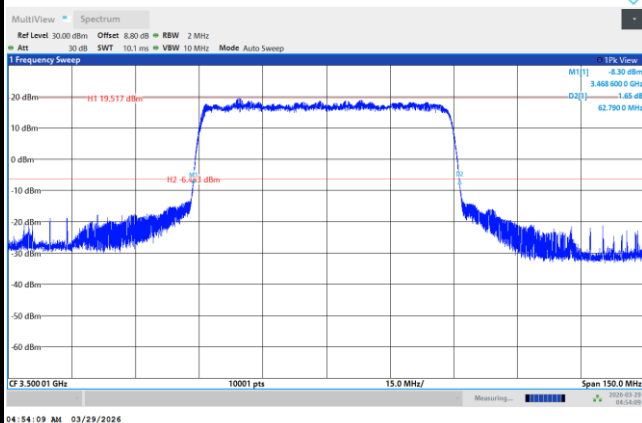
04:51:09 AM 03/29/2026

## QPSK



04:52:40 AM 03/29/2026

## 16QAM

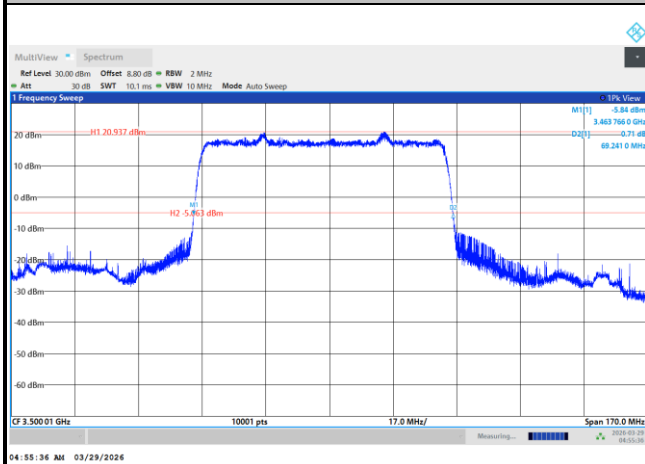


04:54:09 AM 03/29/2026

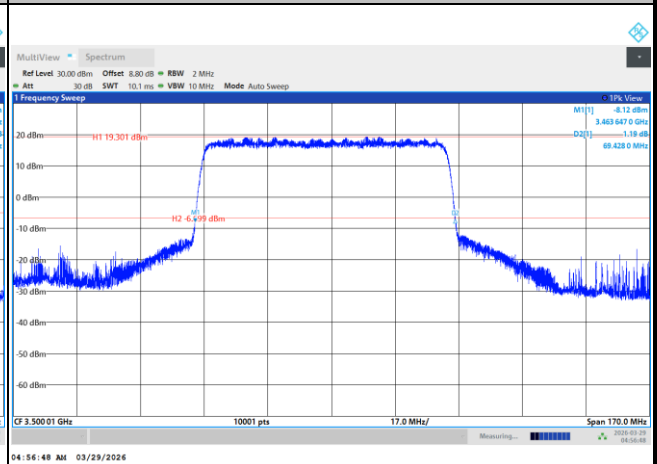


## FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

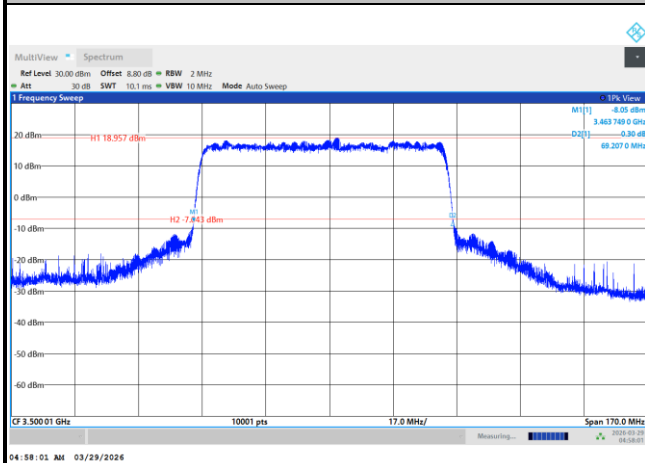
## PI/2 BPSK



## QPSK



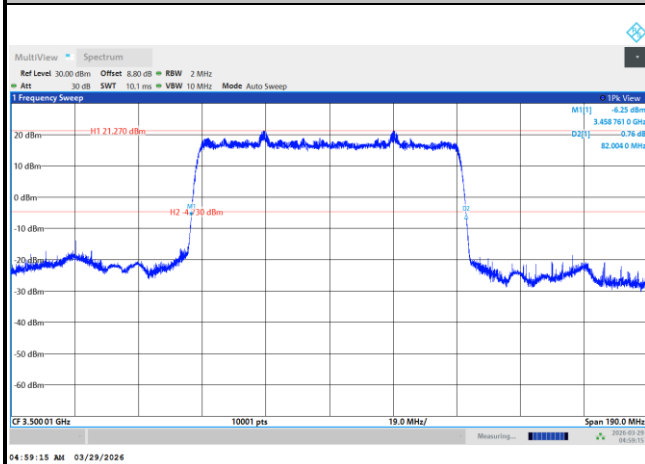
## 16QAM



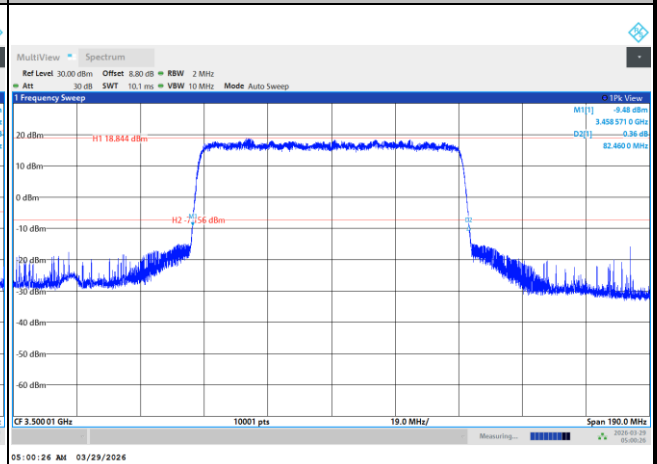


FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

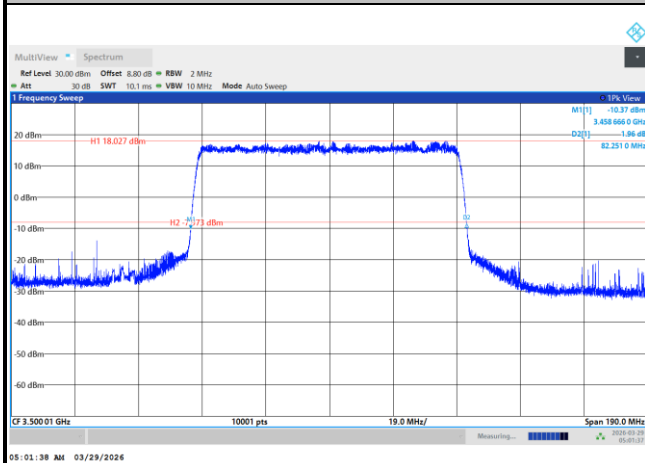
PI/2 BPSK



QPSK



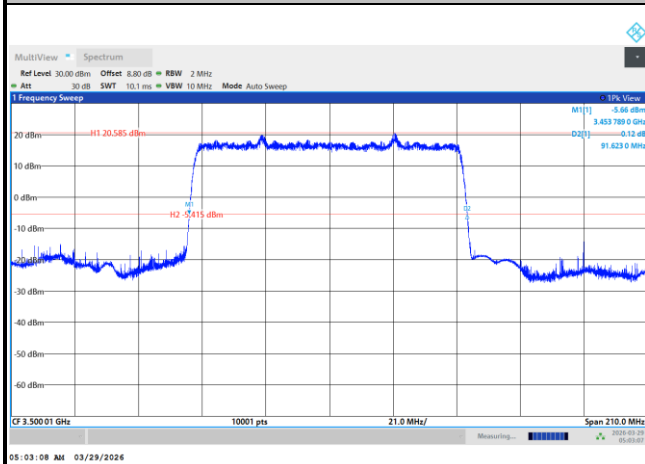
16QAM



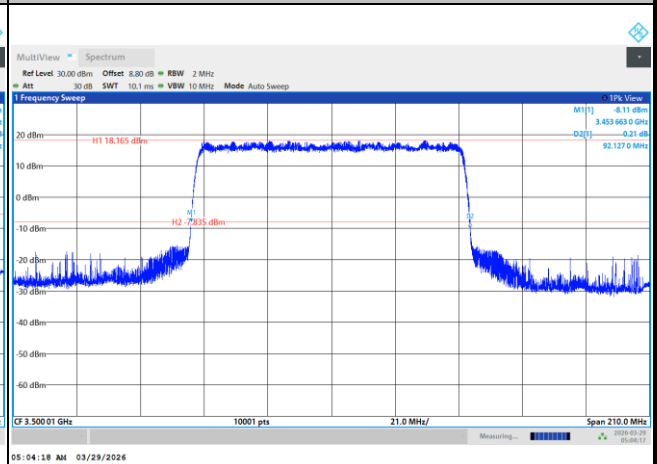


FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

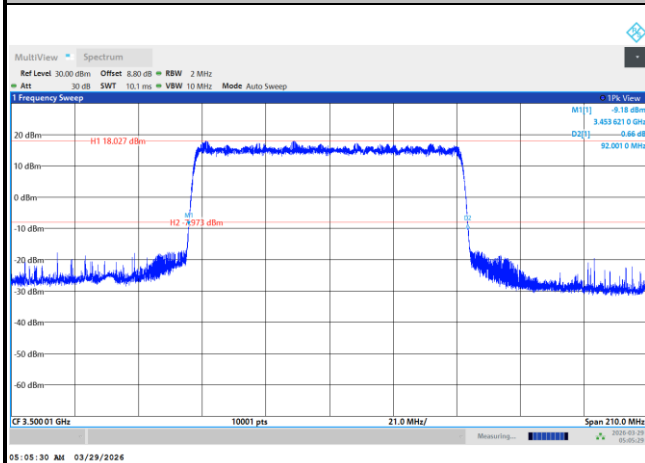
PI/2 BPSK



QPSK



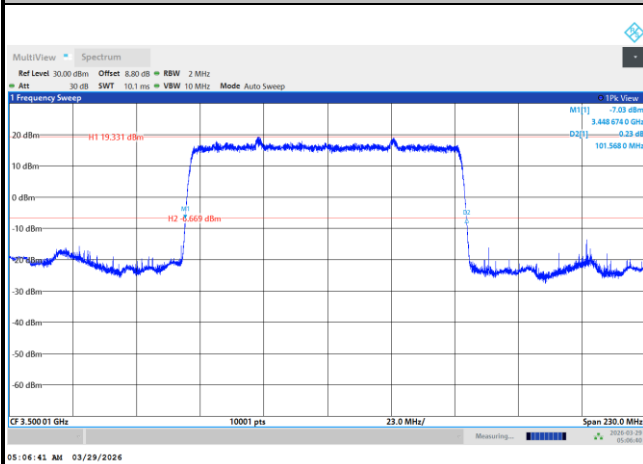
16QAM





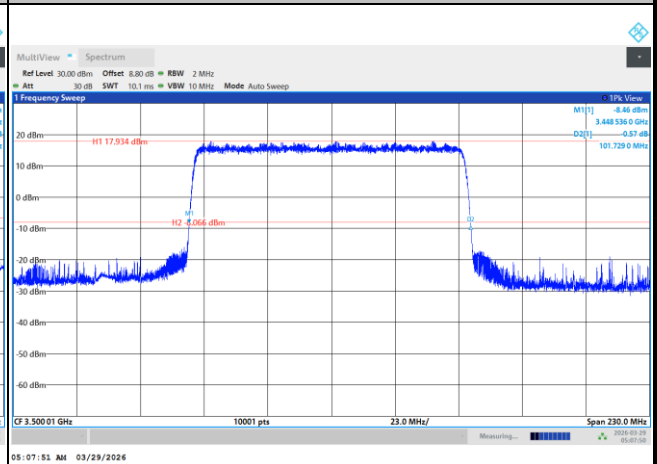
**Report No. : FG5N0611-01C**

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

**PI/2 BPSK**

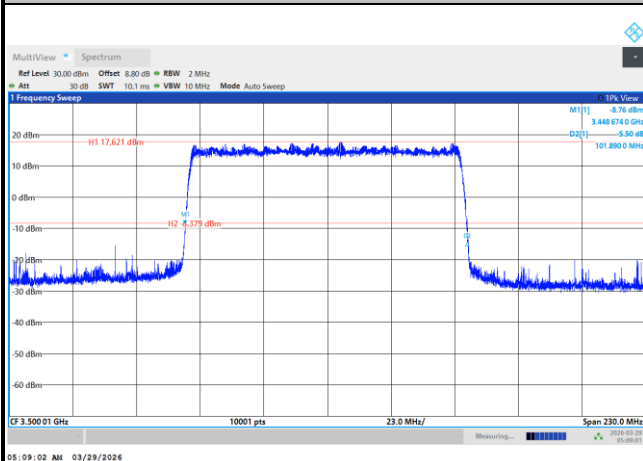
05:06:41 AM 03/29/2026

## QPSK



05:07:51 AM 03/29/2026

## 16QAM



05:09:02 AM 03/29/2026

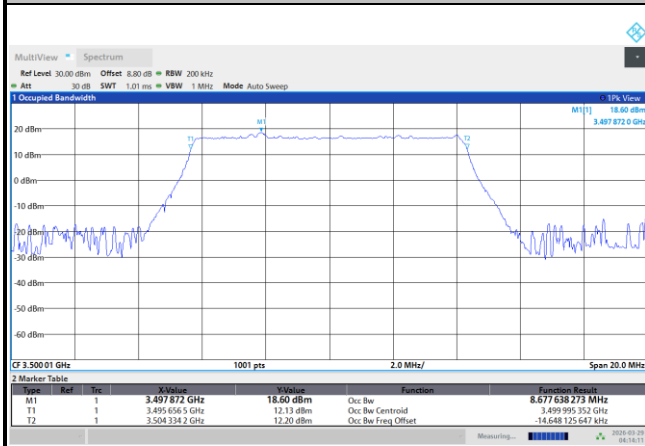
**Occupied Bandwidth**

| Mode      | FR1 n77 : 99%OBW(MHz) / DFT-S OFDM |       |           |       |           |       |           |       |
|-----------|------------------------------------|-------|-----------|-------|-----------|-------|-----------|-------|
| BW        | 10MHz                              |       | 15MHz     |       | 20MHz     |       | 25MHz     |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 8.67                               | 8.67  | 12.95     | 12.93 | 17.99     | 18.05 | 22.95     | 22.94 |
| Mod.      | 16QAM                              |       | 16QAM     |       | 16QAM     |       | 16QAM     |       |
| Middle CH | 8.71                               |       | 12.97     |       | 18.09     |       | 23.04     |       |
| BW        | 30MHz                              |       | 40MHz     |       | 50MHz     |       | 60MHz     |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 27.14                              | 27.21 | 35.88     | 35.88 | 45.80     | 45.93 | 58.60     | 58.77 |
| Mod.      | 16QAM                              |       | 16QAM     |       | 16QAM     |       | 16QAM     |       |
| Middle CH | 27.24                              |       | 36.06     |       | 45.98     |       | 58.60     |       |
| BW        | 70MHz                              |       | 80MHz     |       | 90MHz     |       | 100MHz    |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 64.91                              | 64.78 | 77.43     | 77.55 | 87.06     | 87.06 | 96.65     | 96.54 |
| Mod.      | 16QAM                              |       | 16QAM     |       | 16QAM     |       | 16QAM     |       |
| Middle CH | 64.92                              |       | 77.61     |       | 87.52     |       | 96.74     |       |

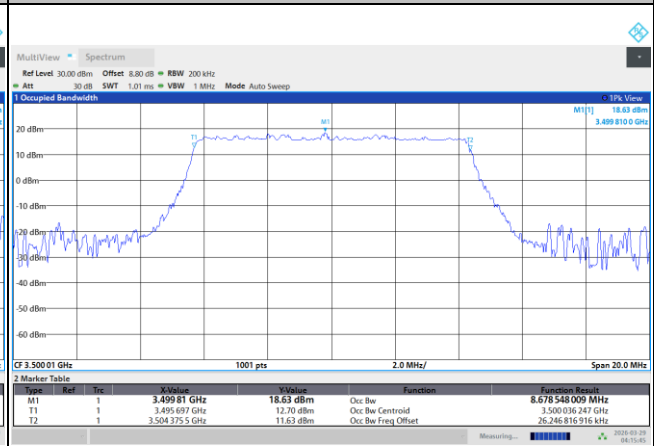


## FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

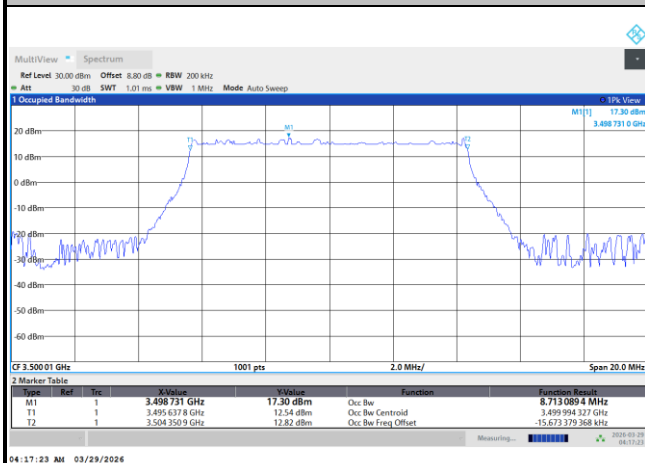
## PI/2 BPSK



## QPSK



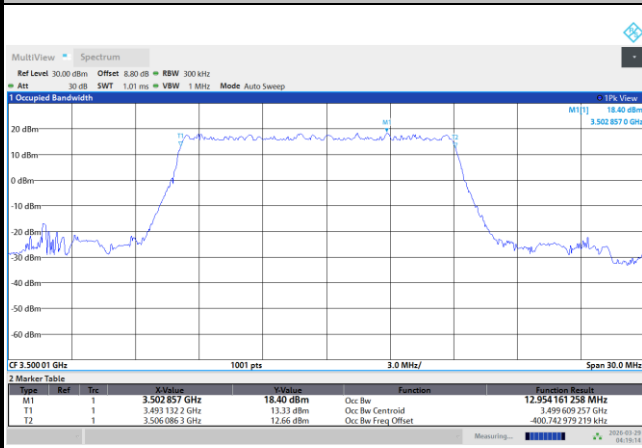
## 16QAM





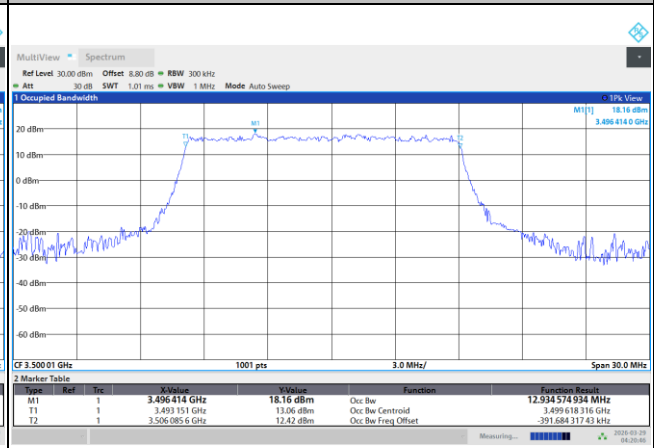
## FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



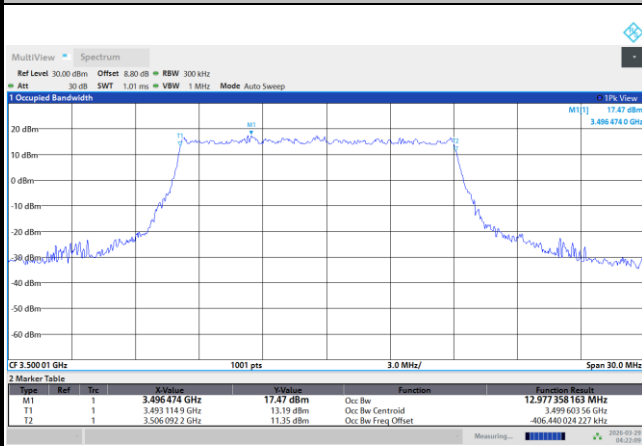
04:19:14 AM 03/29/2026

## QPSK



04:20:46 AM 03/29/2026

## 16QAM

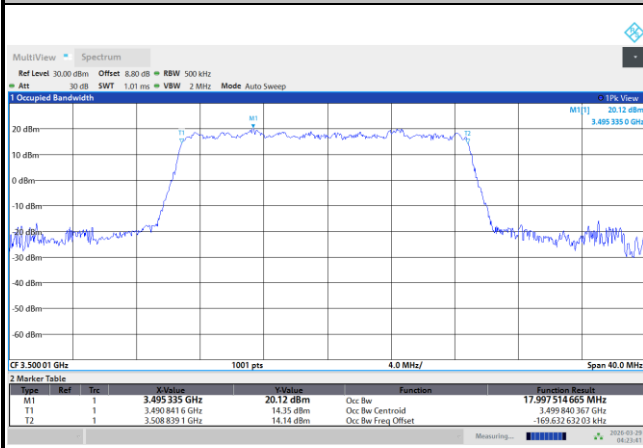


04:22:10 AM 03/29/2026

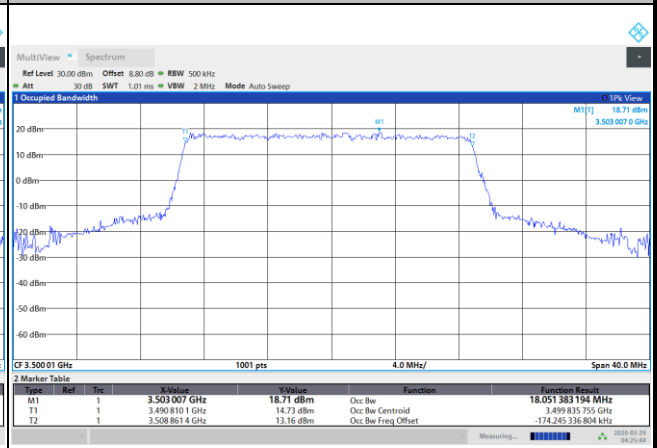


## FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

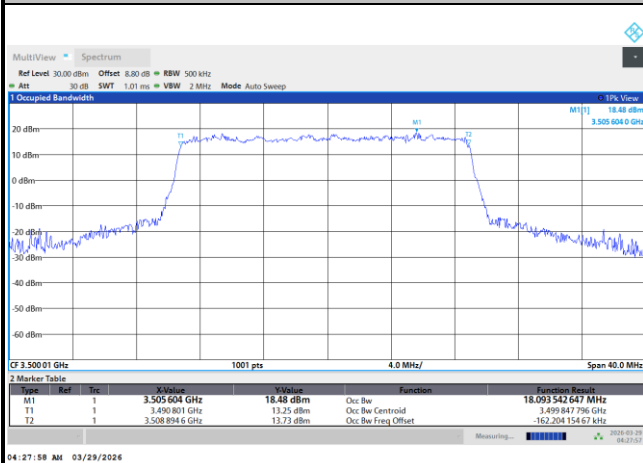
## PI/2 BPSK



## QPSK



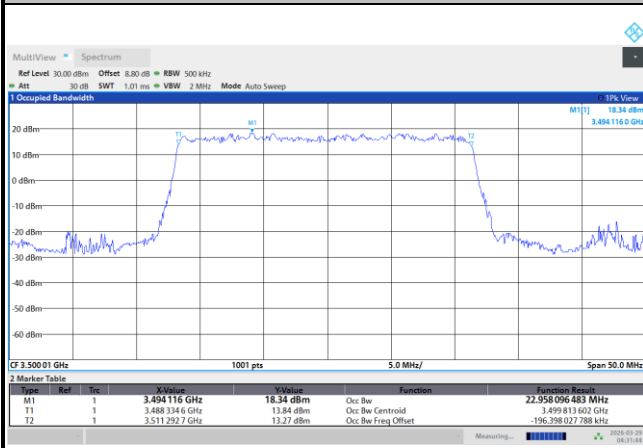
## 16QAM



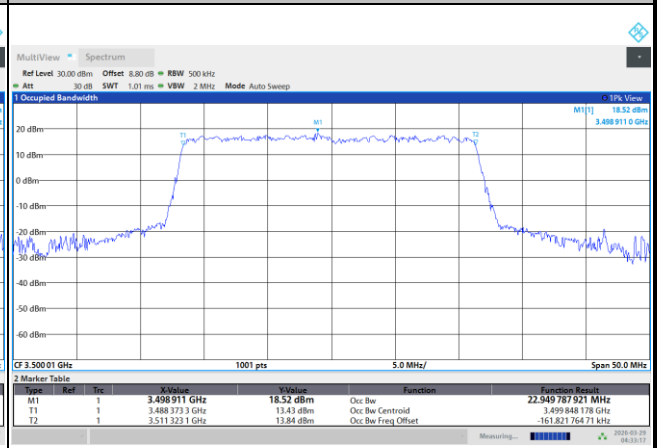


## FR1 n77 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

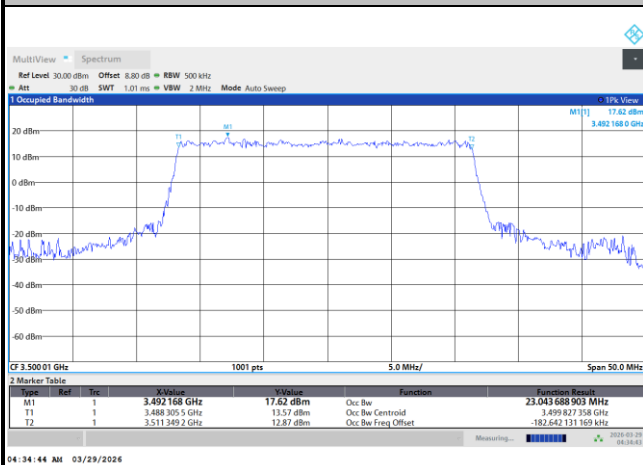
## PI/2 BPSK



## QPSK



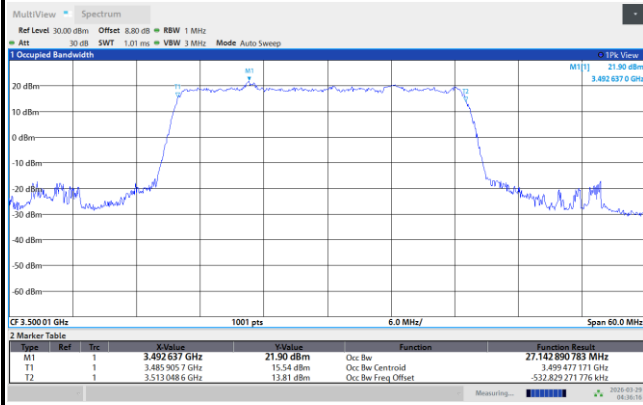
## 16QAM



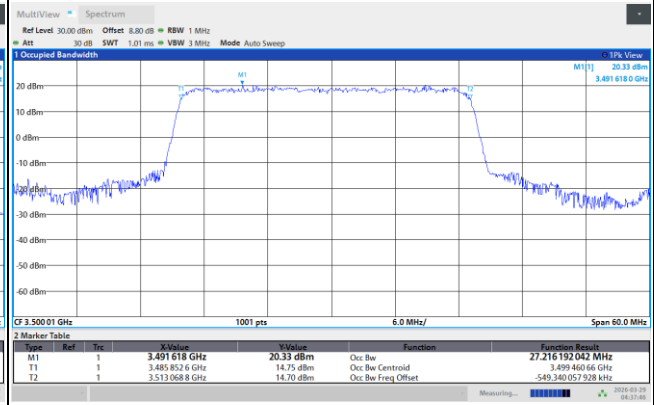


## FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

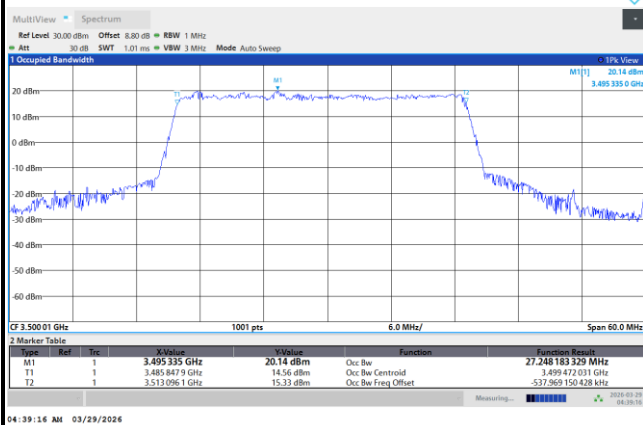
## PI/2 BPSK



## QPSK



## 16QAM

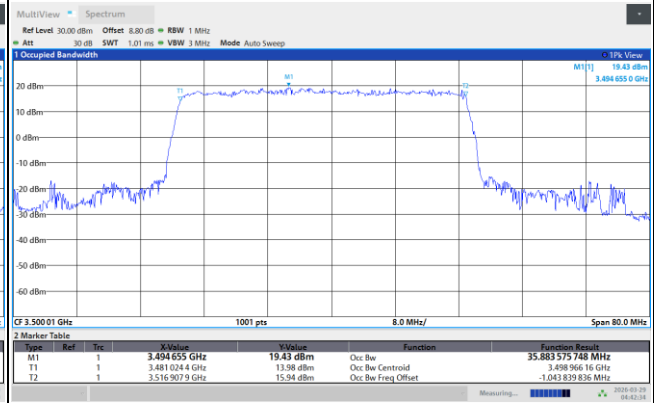
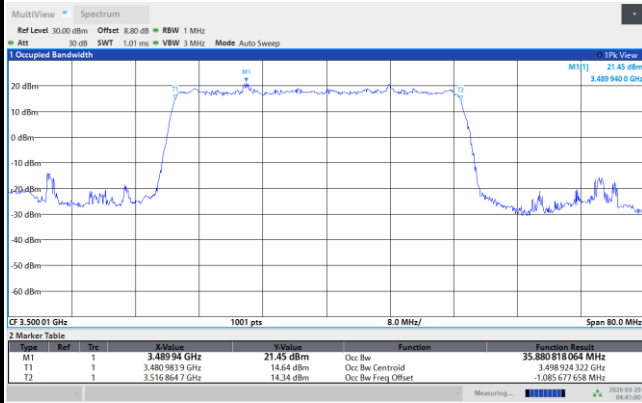




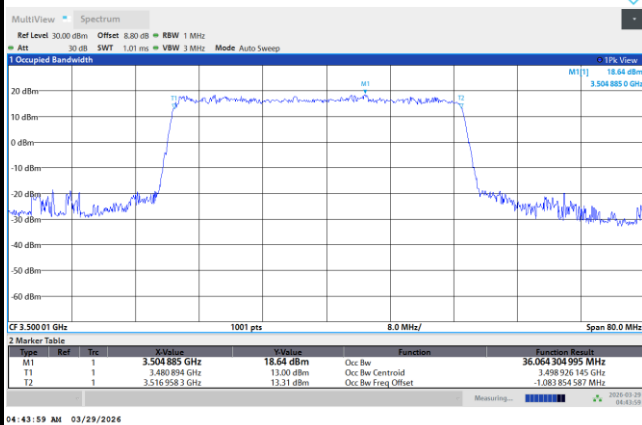
## FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

## QPSK



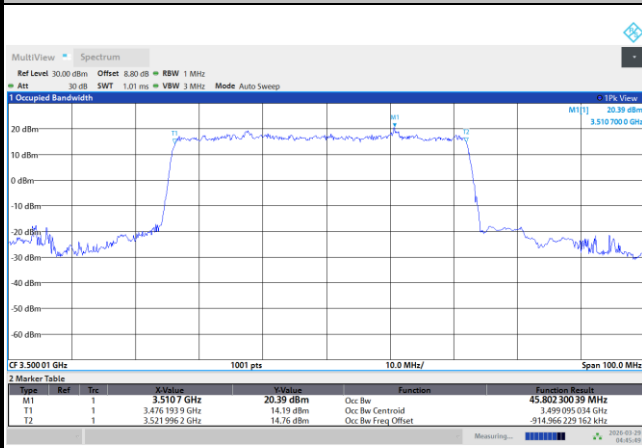
## 16QAM



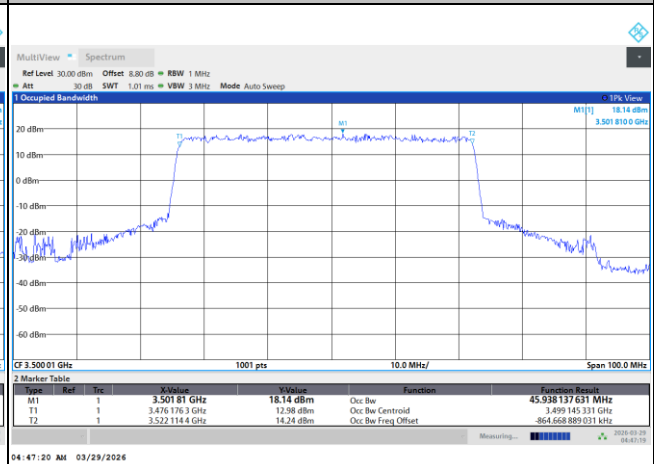


## FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

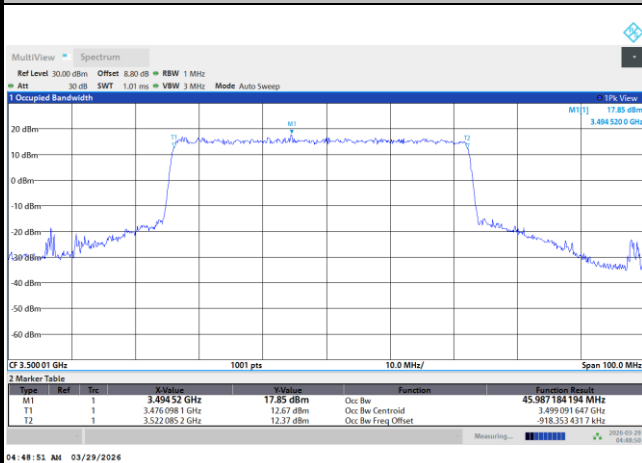
## PI/2 BPSK



## QPSK



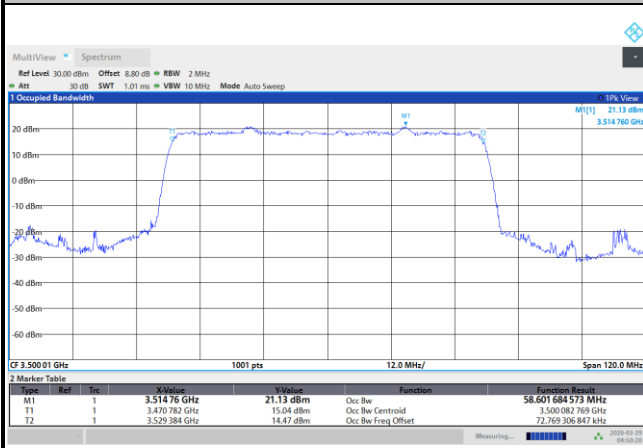
## 16QAM



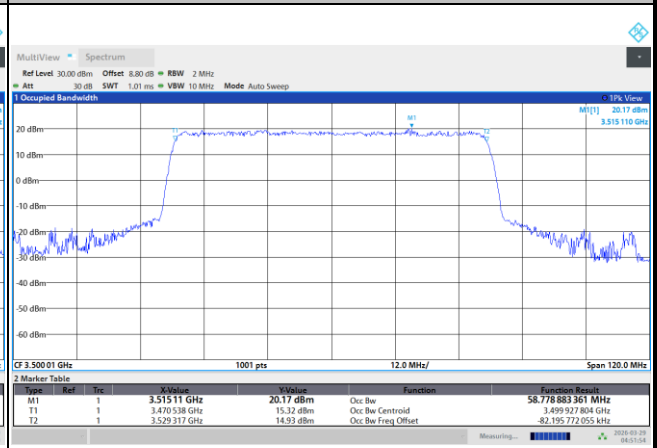


## FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



## QPSK



## 16QAM

