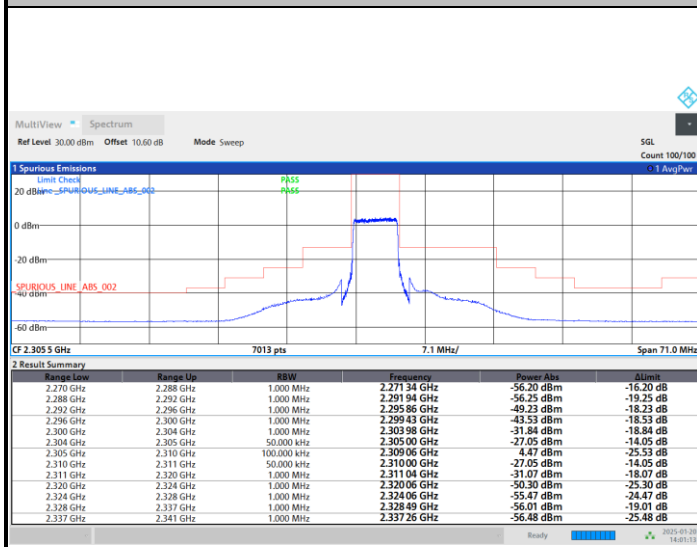
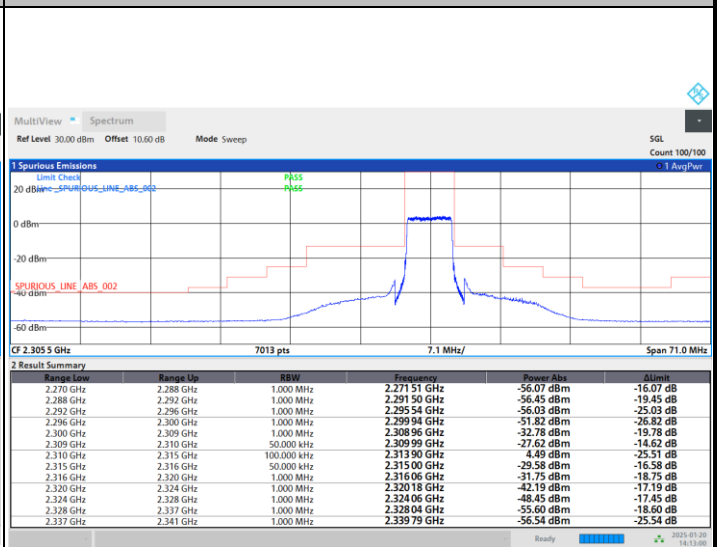




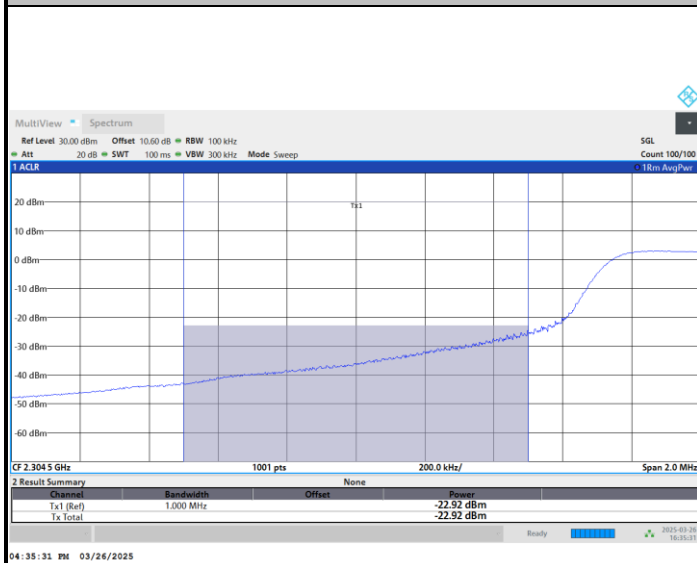
## Lowest Band Edge / Full RB



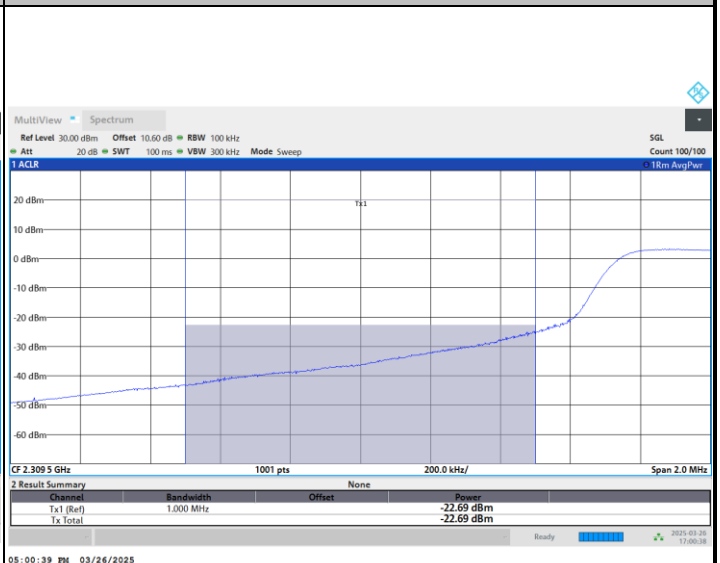
## Highest Band Edge / Full RB



## Lowest Band Edge / Full RB / Lower zoom in



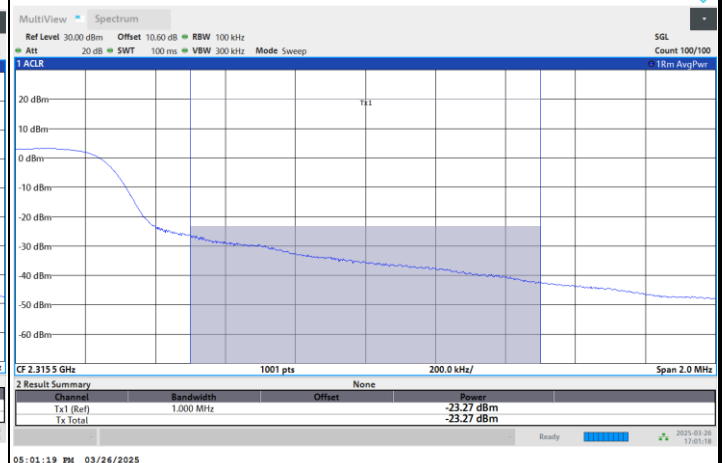
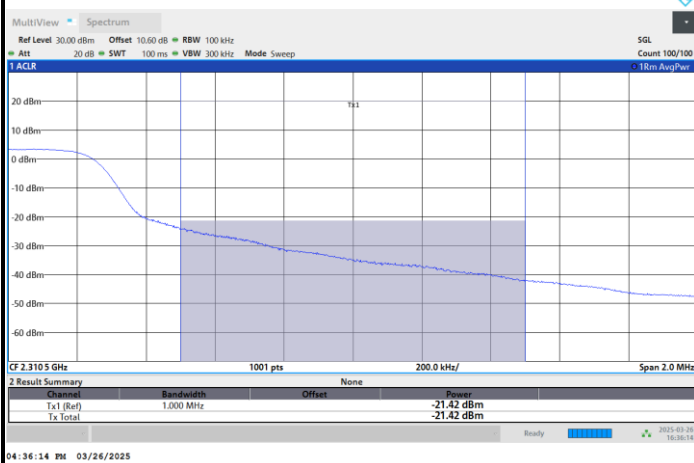
## Highest Band Edge / Full RB / Lower zoom in





Lowest Band Edge / Full RB / Upper zoom in

Highest Band Edge / Full RB / Upper zoom in

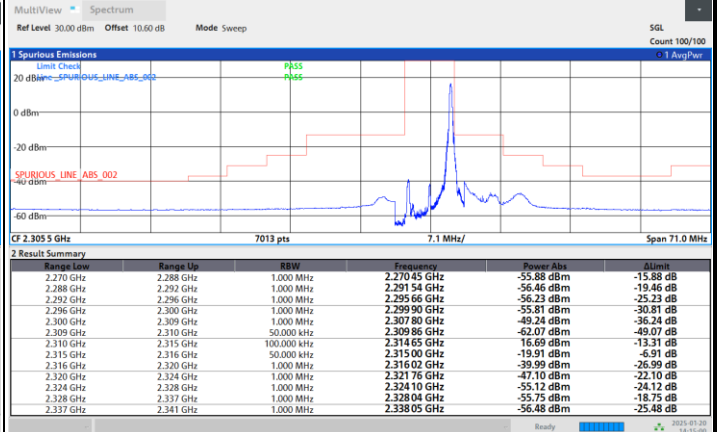
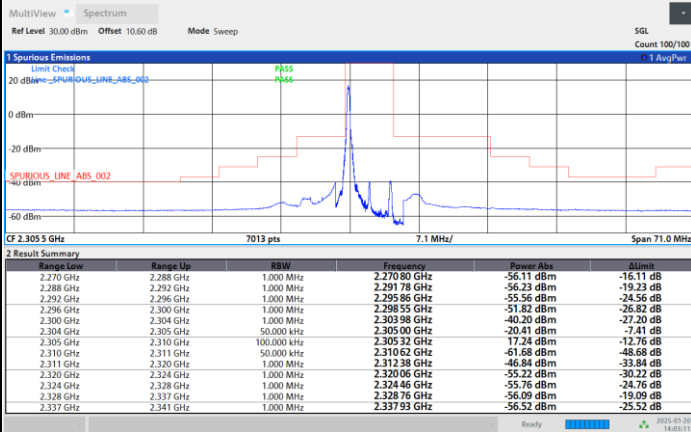




## FR1 n30 / 5MHz / CP OFDM / 64QAM

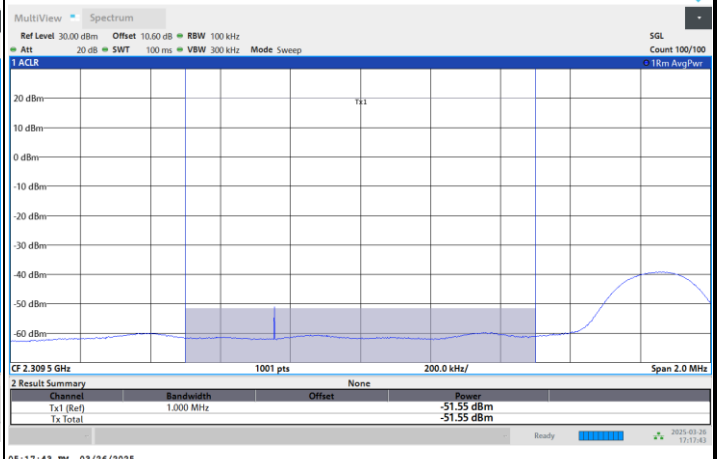
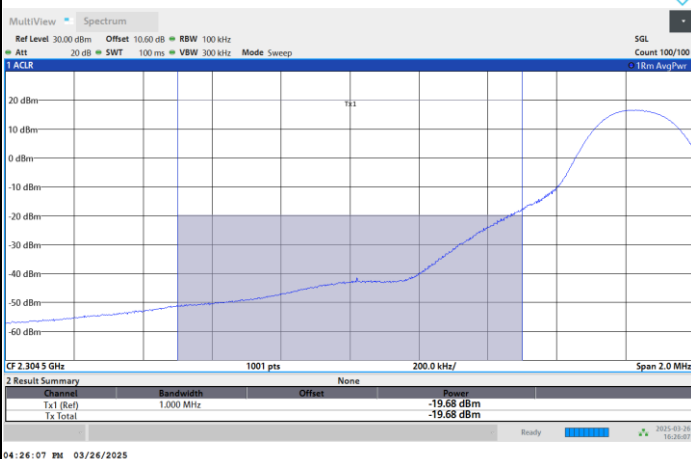
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / 1 RB / Lower zoom in

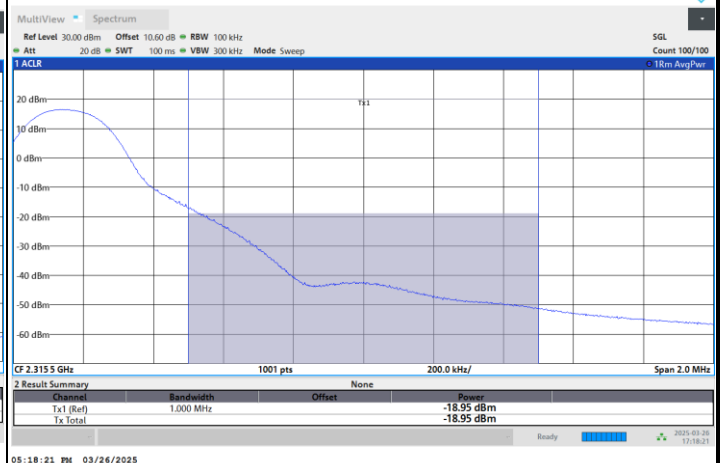
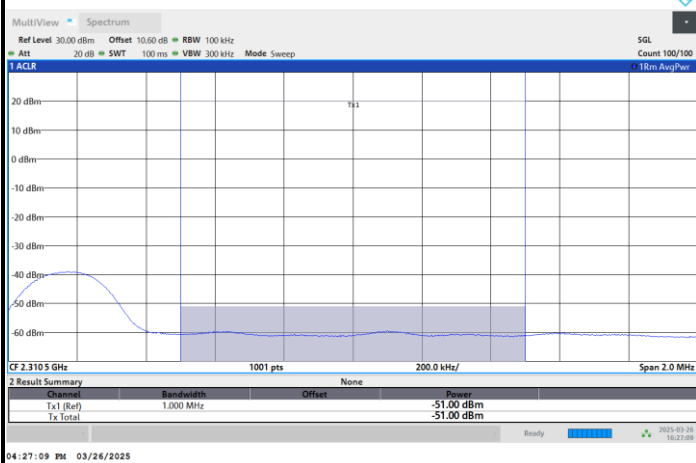
## Highest Band Edge / 1 RB / Lower zoom in





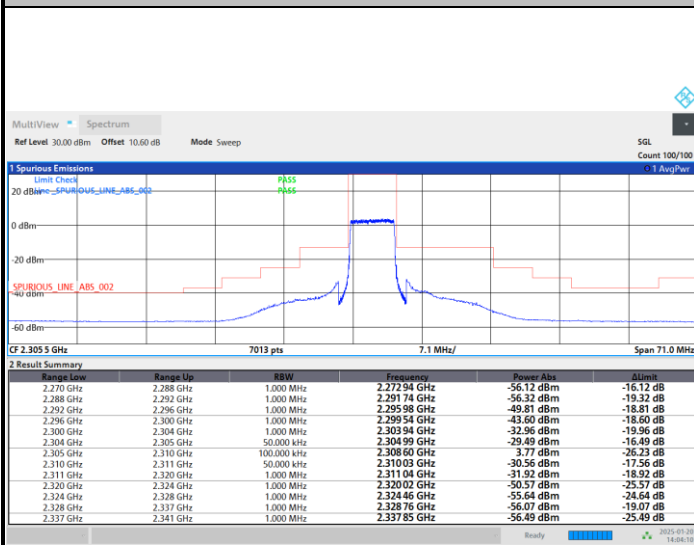
Lowest Band Edge / 1 RB / Upper zoom in

Highest Band Edge / 1 RB / Upper zoom in

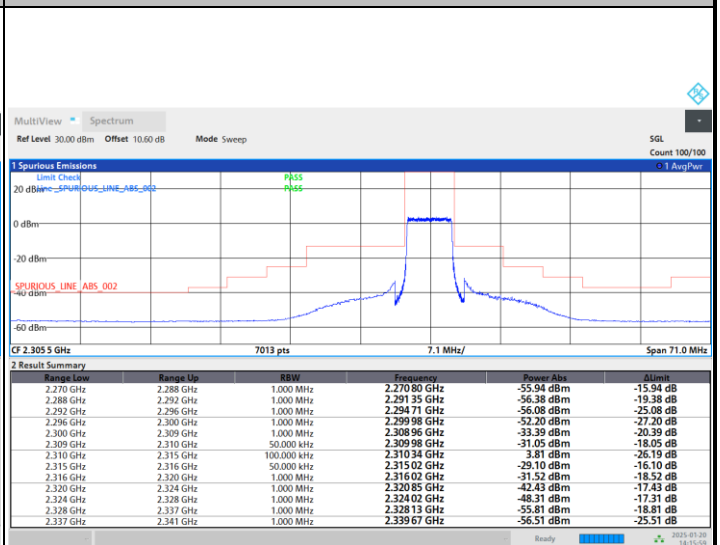




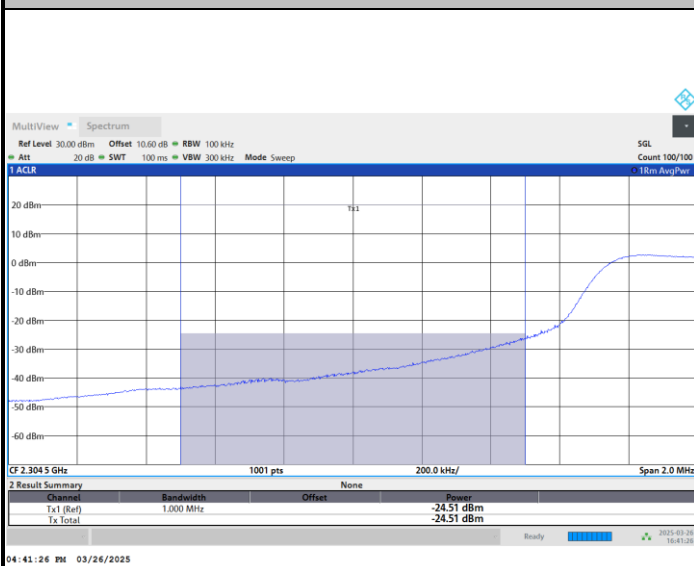
## Lowest Band Edge / Full RB



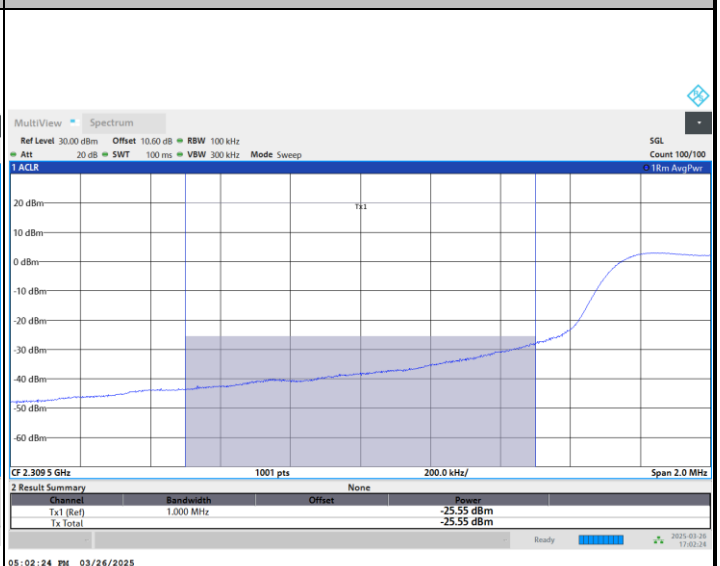
## Highest Band Edge / Full RB



## Lowest Band Edge / Full RB / Lower zoom in



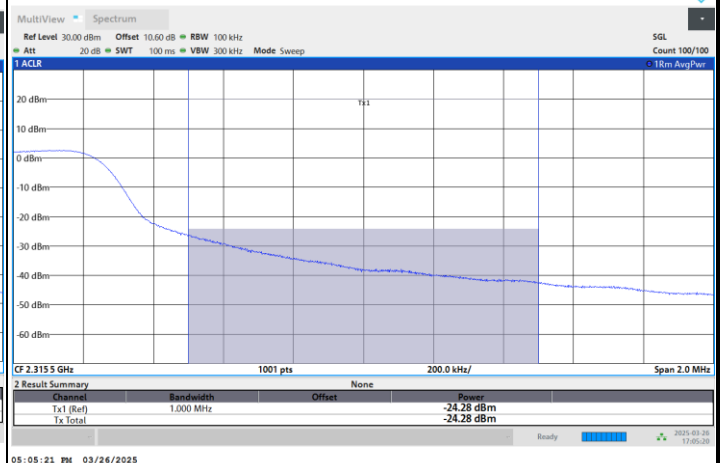
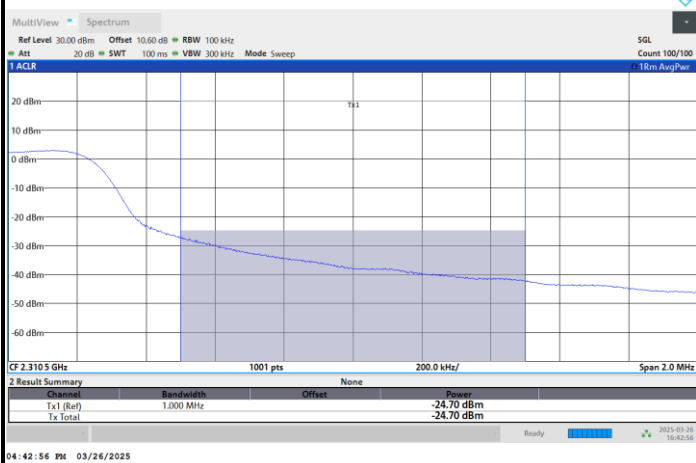
## Highest Band Edge / Full RB / Lower zoom in





Lowest Band Edge / Full RB / Upper zoom in

Highest Band Edge / Full RB / Upper zoom in

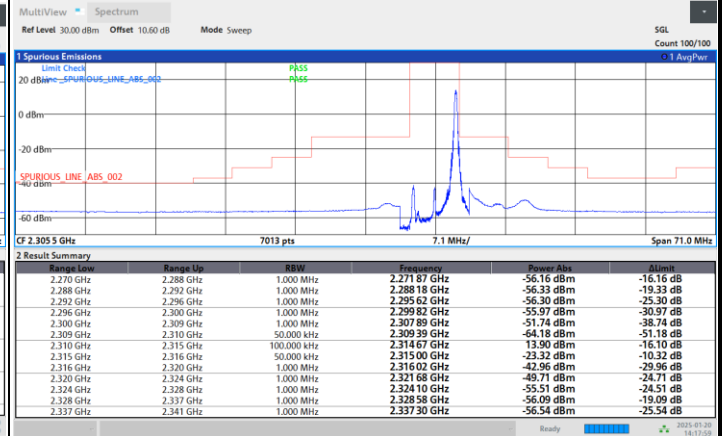
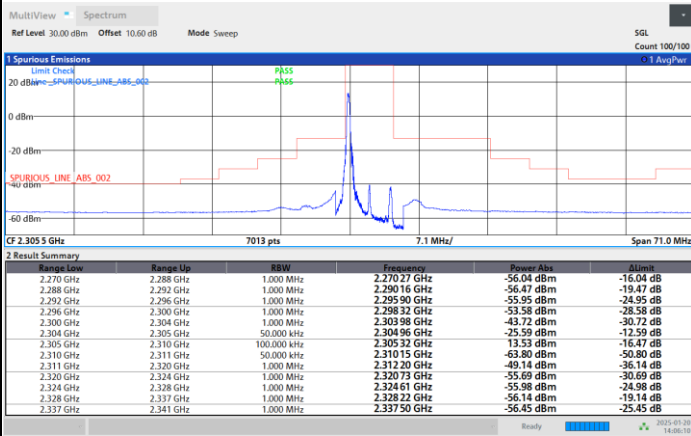




## FR1 n30 / 5MHz / CP OFDM / 256QAM

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax

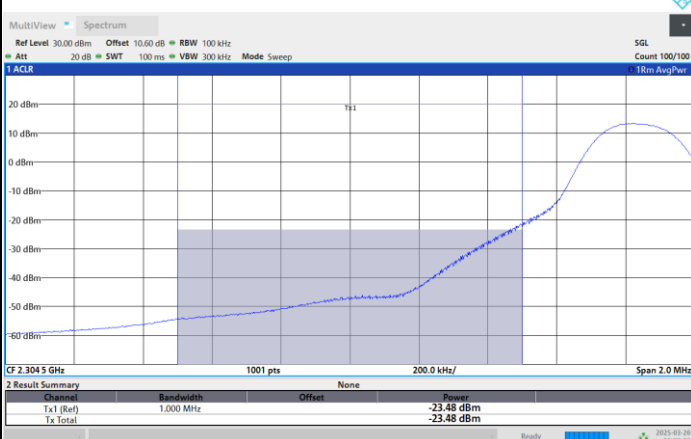


02:06:11 PM 01/20/2025

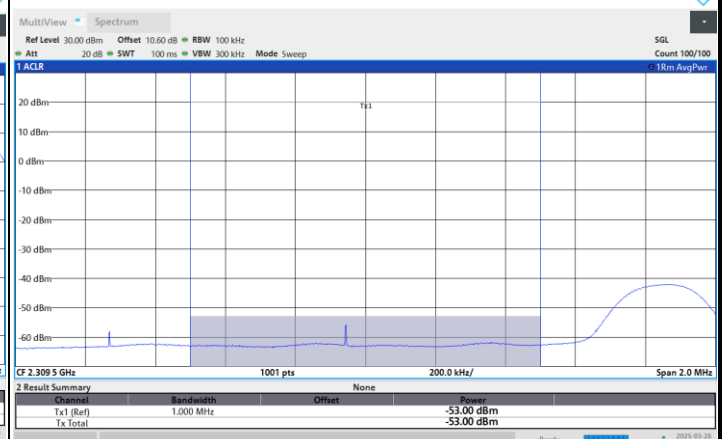
02:18:00 PM 01/20/2025

## Lowest Band Edge / 1 RB / Lower zoom in

## Highest Band Edge / 1 RB / Lower zoom in



04:30:04 PM 03/26/2025

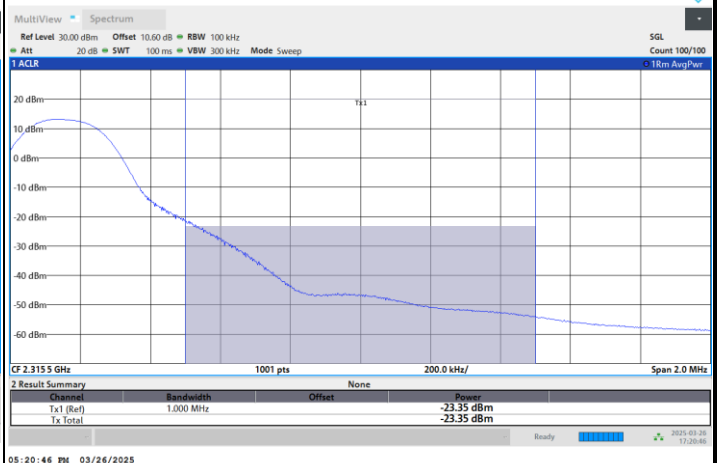
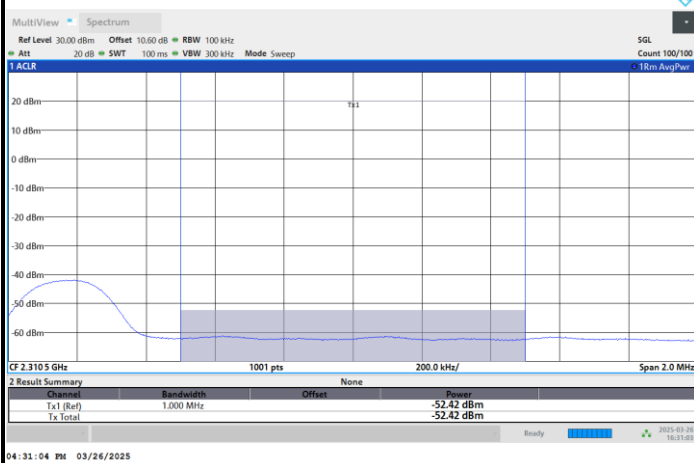


05:20:11 PM 03/26/2025



Lowest Band Edge / 1 RB / Upper zoom in

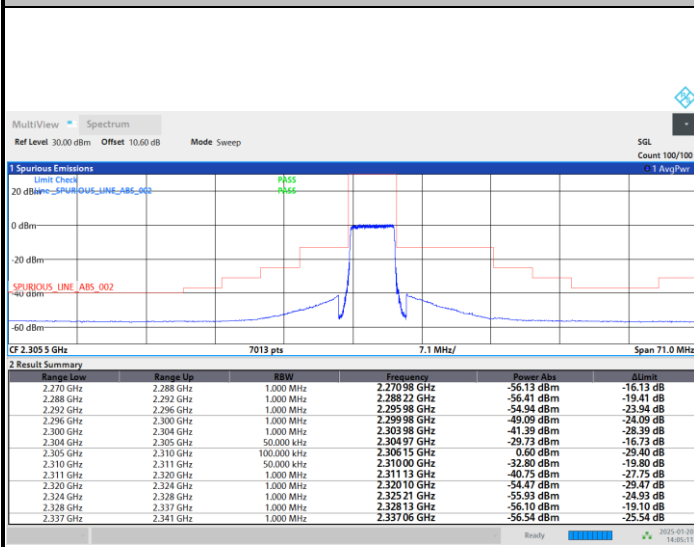
Highest Band Edge / 1 RB / Upper zoom in



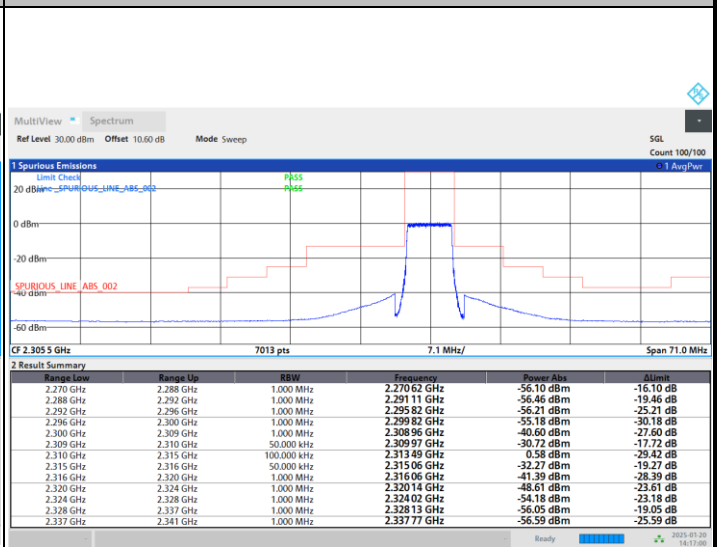




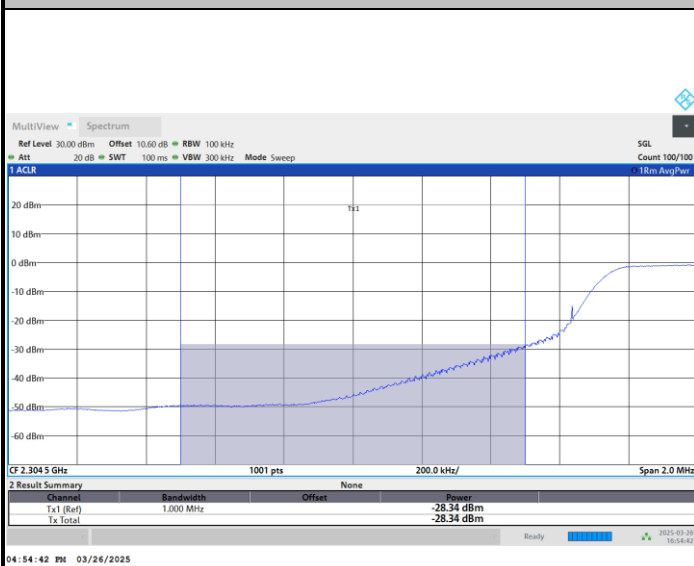
## Lowest Band Edge / Full RB



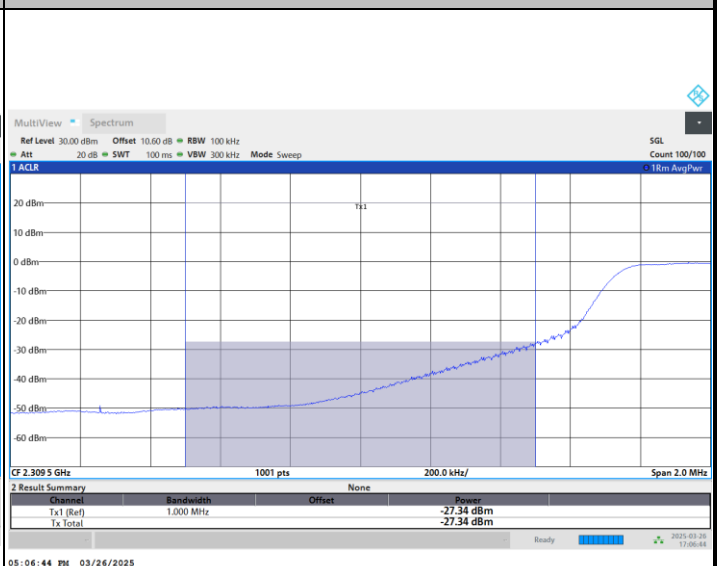
## Highest Band Edge / Full RB



## Lowest Band Edge / Full RB / Lower zoom in



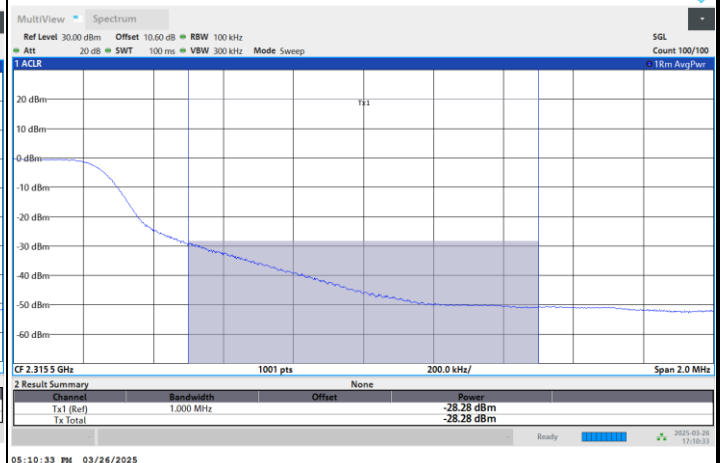
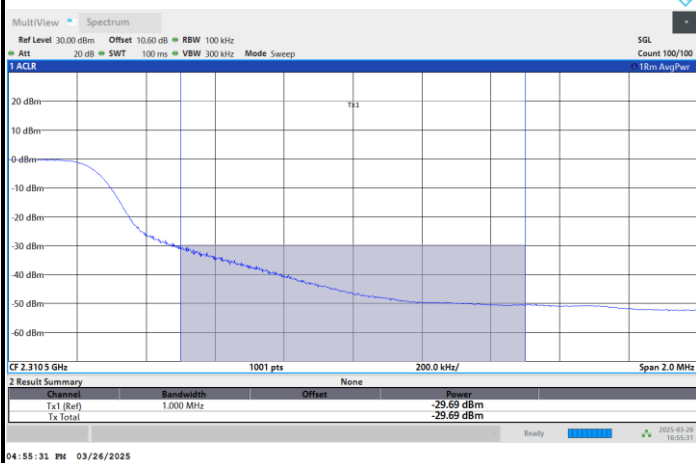
## Highest Band Edge / Full RB / Lower zoom in





Lowest Band Edge / Full RB / Upper zoom in

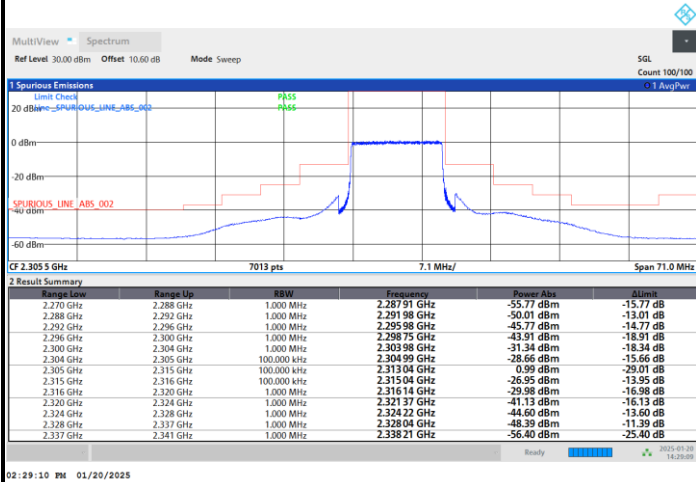
Highest Band Edge / Full RB / Upper zoom in



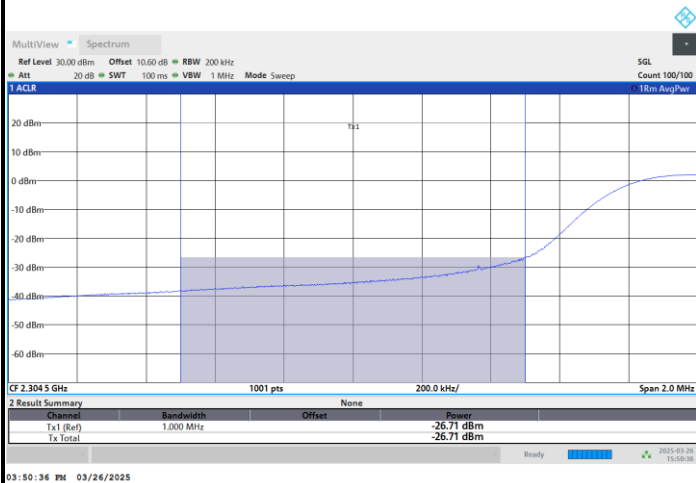


## FR1 n30 / 10MHz / CP OFDM / QPSK

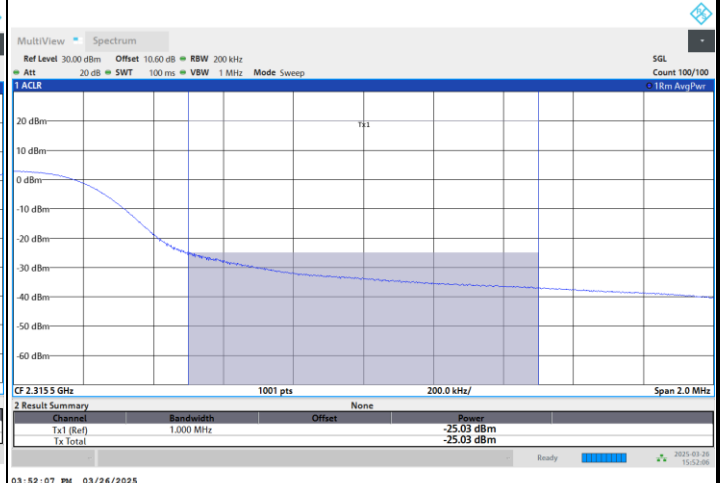
## Middle Band Edge / Full RB



## Middle Band Edge / Full RB / Lower zoom in



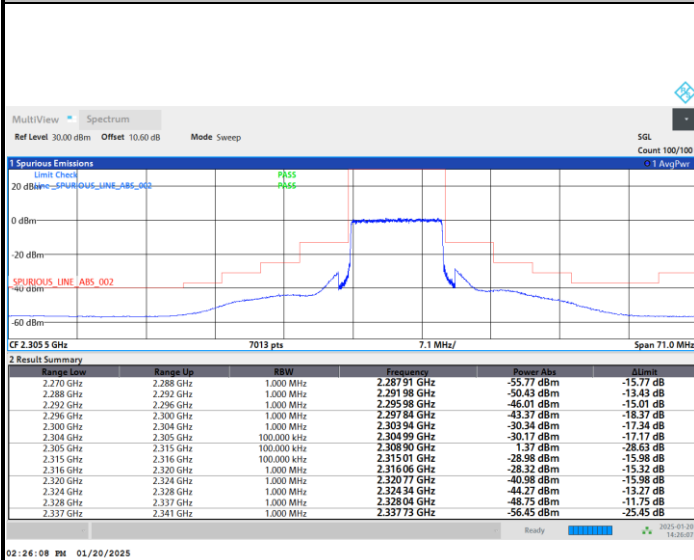
## Middle Band Edge / Full RB / Upper zoom in



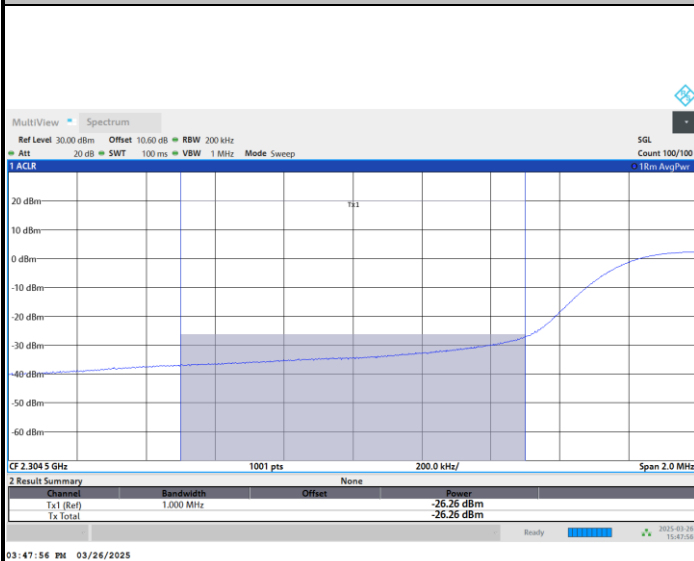


## FR1 n30 / 10MHz / CP OFDM / 16QAM

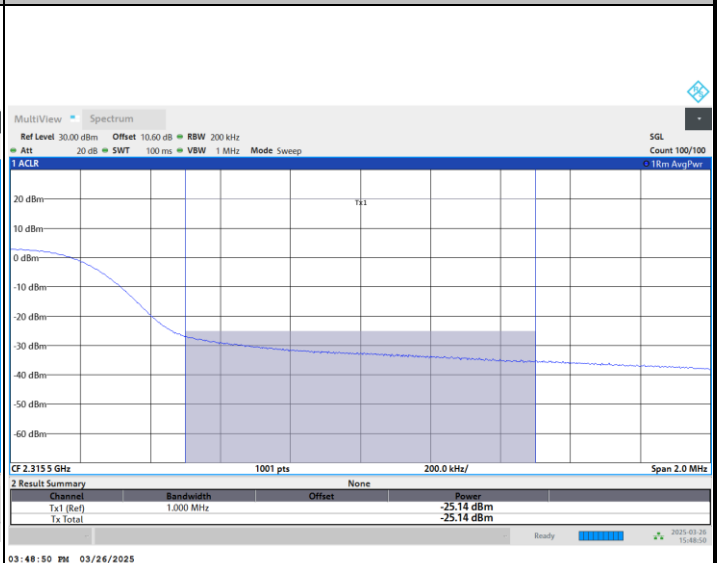
## Middle Band Edge / Full RB



## Middle Band Edge / Full RB / Lower zoom in



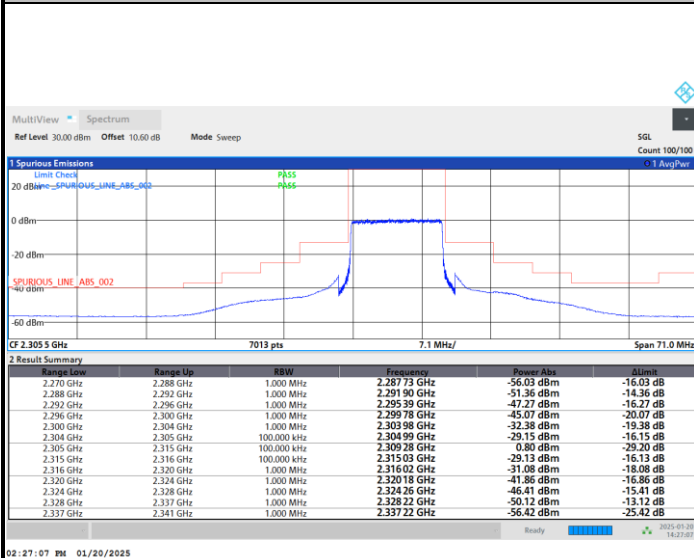
## Middle Band Edge / Full RB / Upper zoom in



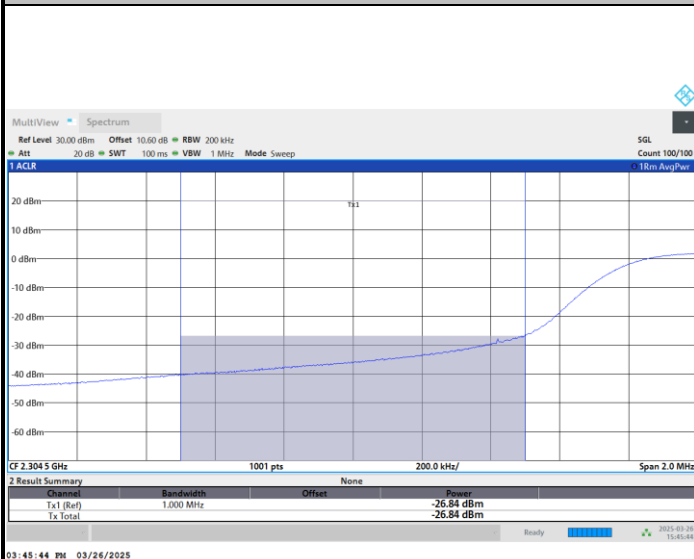


## FR1 n30 / 10MHz / CP OFDM / 64QAM

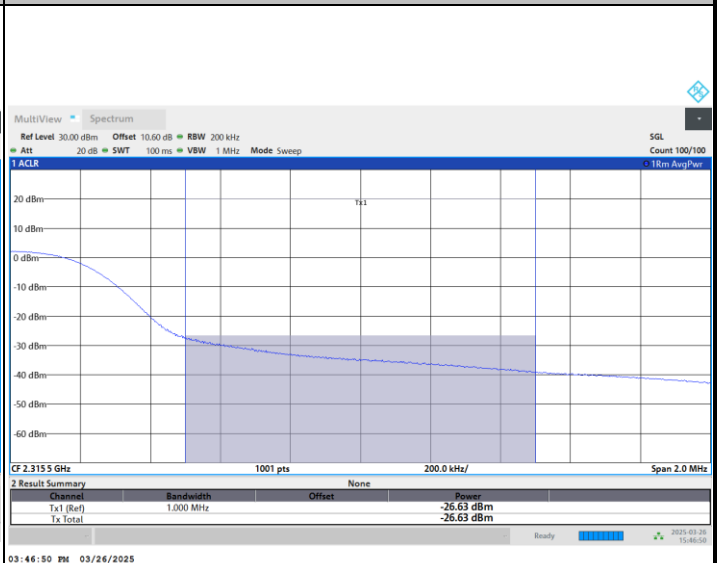
## Middle Band Edge / Full RB



## Middle Band Edge / Full RB / Lower zoom in



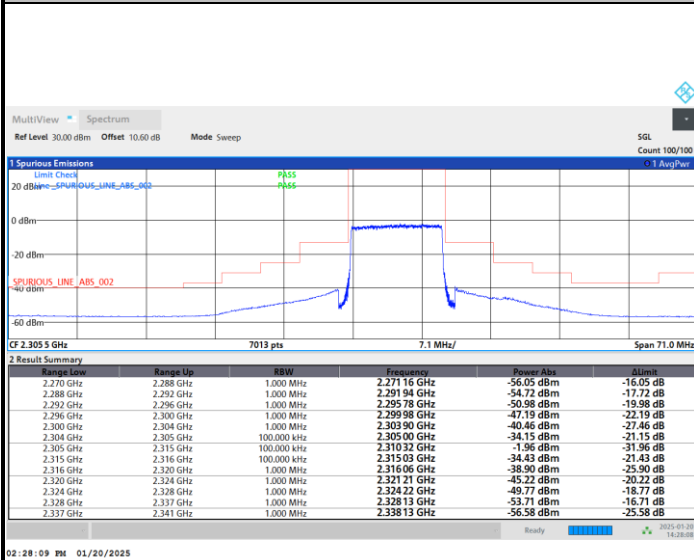
## Middle Band Edge / Full RB / Upper zoom in



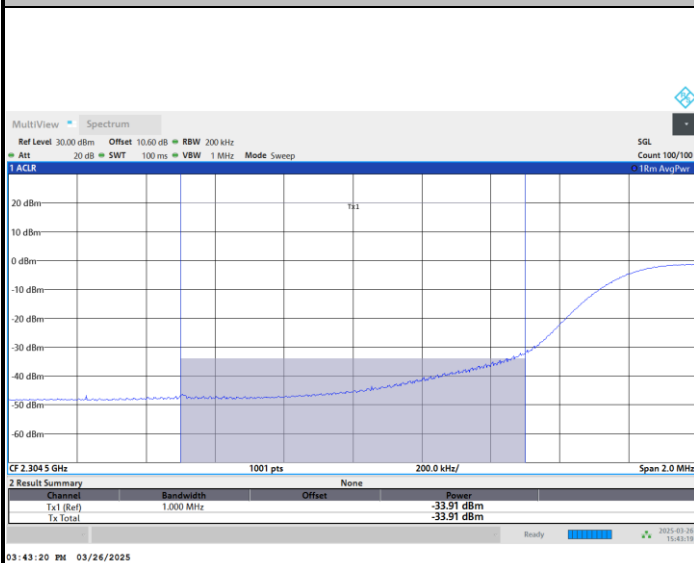


## FR1 n30 / 10MHz / CP OFDM / 256QAM

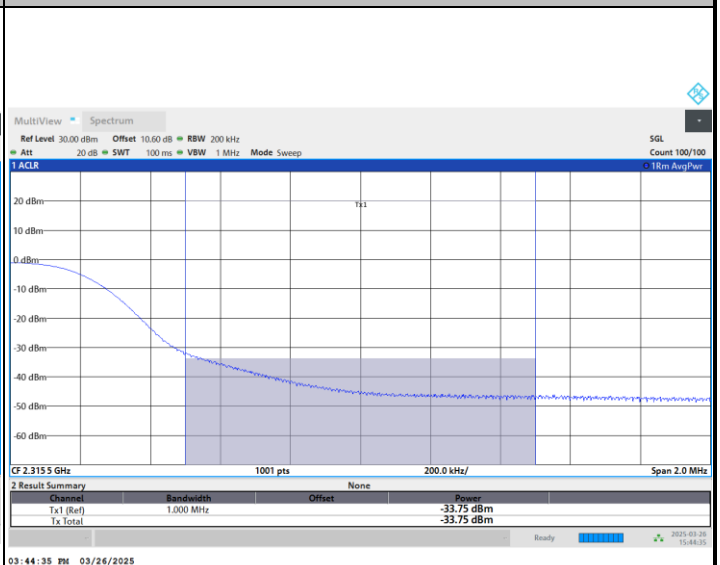
## Middle Band Edge / Full RB



## Middle Band Edge / Full RB / Lower zoom in



## Middle Band Edge / Full RB / Upper zoom in

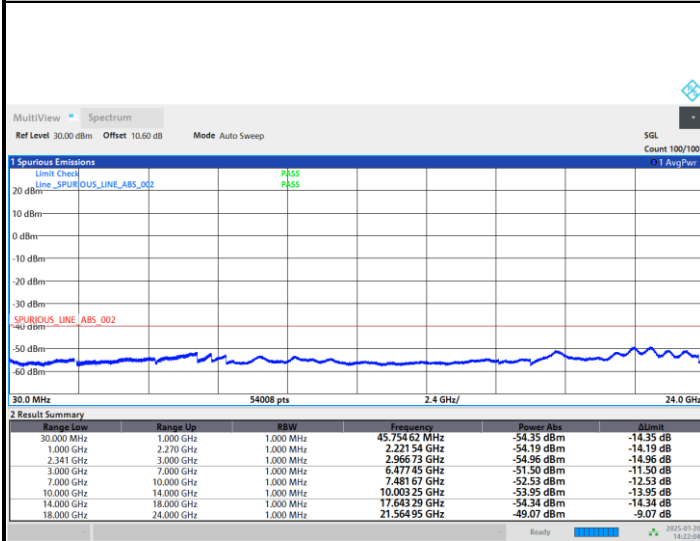




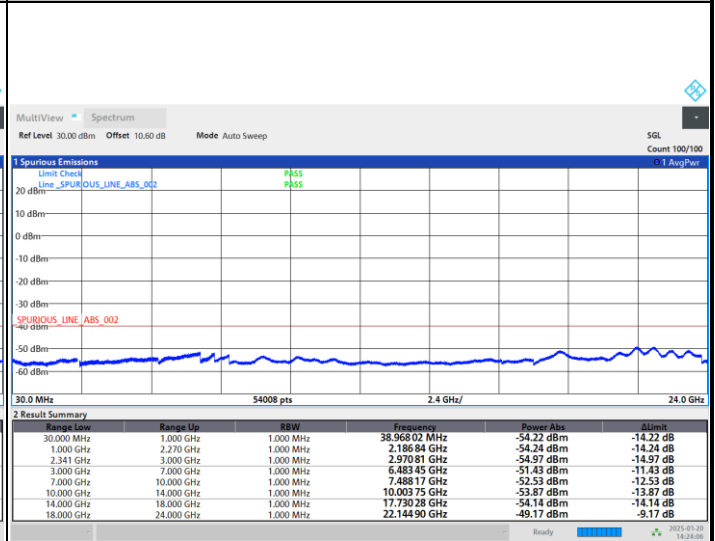
# Conducted Spurious Emission

FR1 n30 / 5MHz / CP OFDM / QPSK / 1RB1

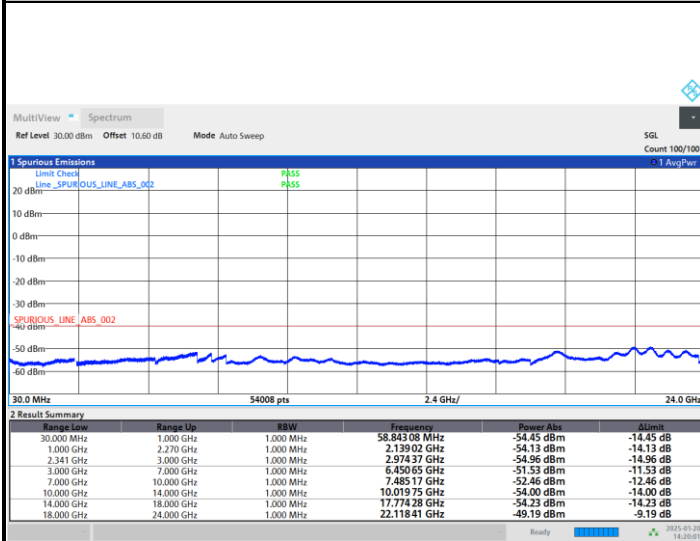
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n30 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|---------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                        | Note 2. |
|                     |                   | Deviation (ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0000                          | PASS    |
| 40                  | Normal Voltage    | 0.0004                          |         |
| 30                  | Normal Voltage    | 0.0016                          |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                          |         |
| 10                  | Normal Voltage    | 0.0001                          |         |
| 0                   | Normal Voltage    | 0.0004                          |         |
| -10                 | Normal Voltage    | 0.0022                          |         |
| -20                 | Normal Voltage    | 0.0006                          |         |
| -30                 | Normal Voltage    | 0.0013                          |         |
| 20                  | Maximum Voltage   | 0.0009                          |         |
| 20                  | Normal Voltage    | 0.0000                          |         |
| 20                  | Minimum Voltage   | 0.0031                          |         |

**Note:**

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions     |                   | FR1 n30 (QPSK) / Middle Channel         | Limit       |
|---------------------|-------------------|-----------------------------------------|-------------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 5MHz                                 | Within Band |
|                     |                   | Frequency Offset ( $\Delta f$ )<br>(Hz) | Result      |
| 50                  | Normal Voltage    | 4.3                                     | PASS        |
| 40                  | Normal Voltage    | -7                                      |             |
| 30                  | Normal Voltage    | -5.6                                    |             |
| 20(Ref.)            | Normal Voltage    | 0                                       |             |
| 10                  | Normal Voltage    | 10.2                                    |             |
| 0                   | Normal Voltage    | 7.2                                     |             |
| -10                 | Normal Voltage    | -0.9                                    |             |
| -20                 | Normal Voltage    | 6.6                                     |             |
| -30                 | Normal Voltage    | 8.6                                     |             |
| 20                  | Maximum Voltage   | 6.8                                     |             |
| 20                  | Normal Voltage    | 0                                       |             |
| 20                  | Minimum Voltage   | 10.9                                    |             |

**Note:**

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 4.4 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.

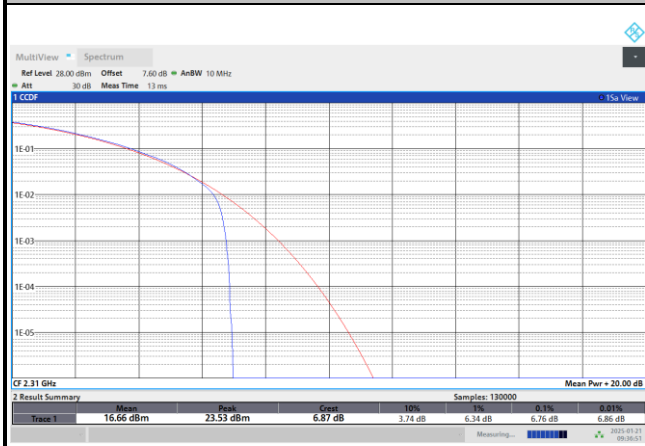
**FR1 n30****MIMO <Ant. 0+2> (Ant. 2)****Peak-to-Average Ratio**

| Mode      | FR1 n30 / 10MHz / CP OFDM |         |         |         |             |
|-----------|---------------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                      | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB                   | Full RB | Full RB | Full RB | Result      |
| Middle CH | 6.76                      | 6.70    | 7.14    | 8.30    | <b>PASS</b> |

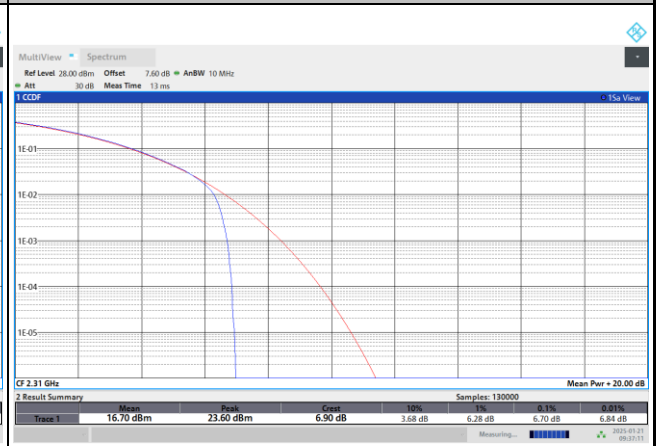


FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB

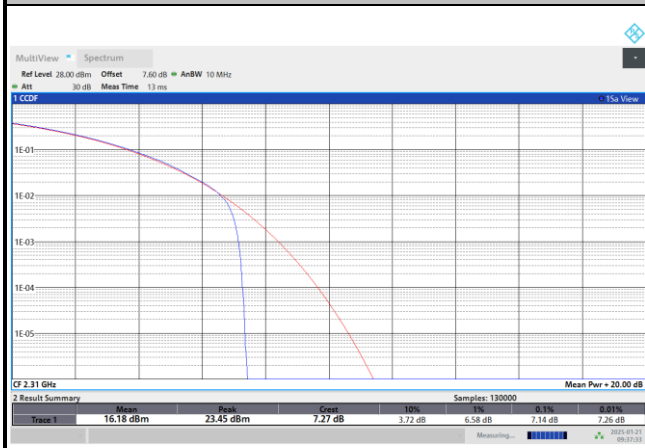
QPSK



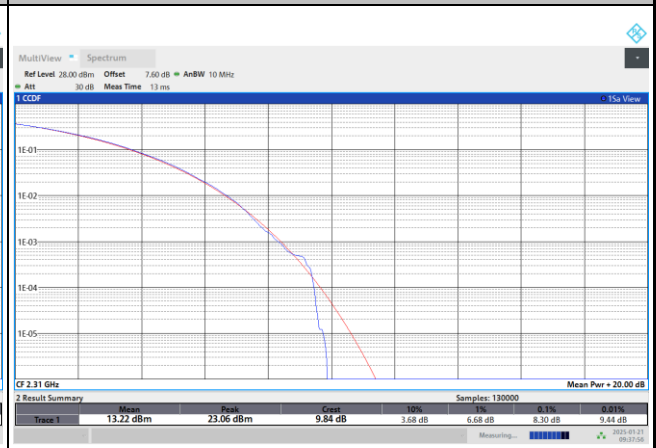
16QAM



64QAM

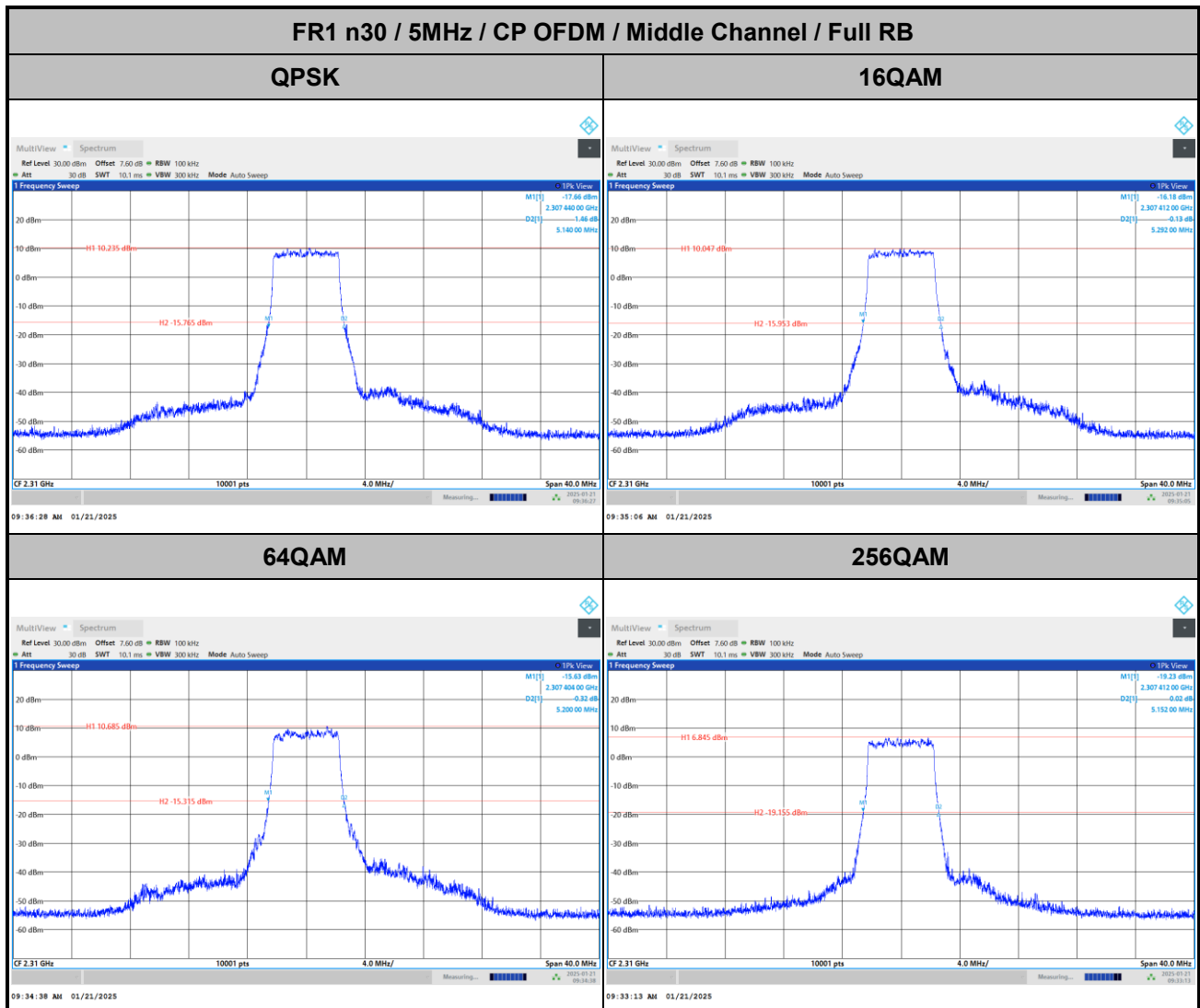


256QAM



**26dB Bandwidth**

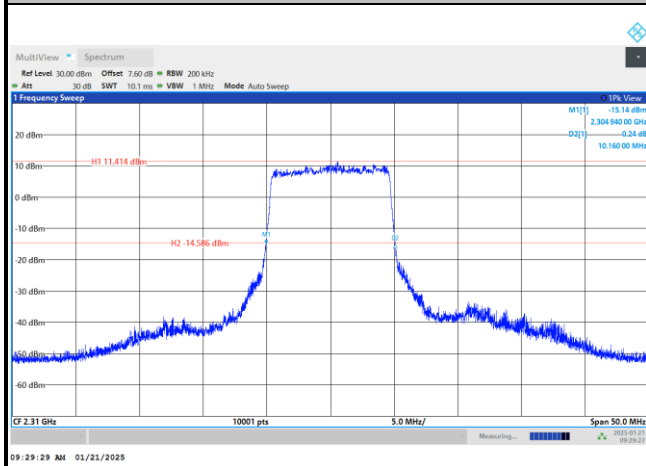
| Mode      | FR1 n30 : 26dB BW(MHz) / CP OFDM |        |       |        |  |  |  |  |
|-----------|----------------------------------|--------|-------|--------|--|--|--|--|
| BW        | 5MHz                             |        | 10MHz |        |  |  |  |  |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  |  |  |  |  |
| Middle CH | 5.14                             | 5.29   | 10.16 | 10.27  |  |  |  |  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM |  |  |  |  |
| Middle CH | 5.20                             | 5.15   | 10.18 | 10.24  |  |  |  |  |



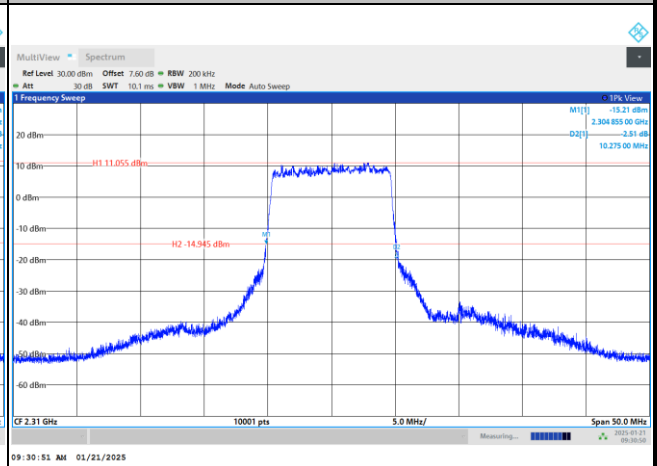


## FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB

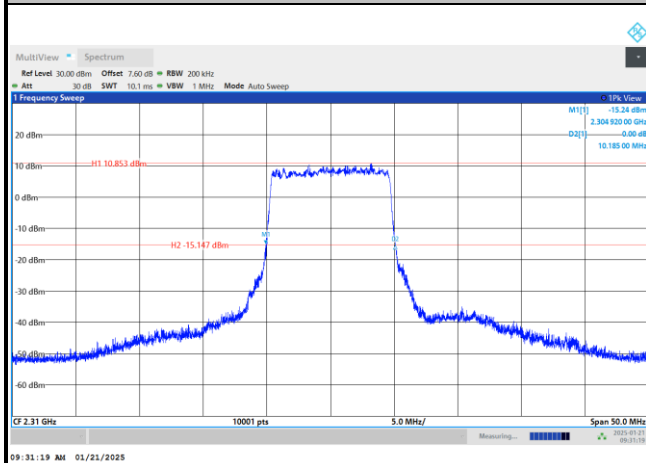
## QPSK



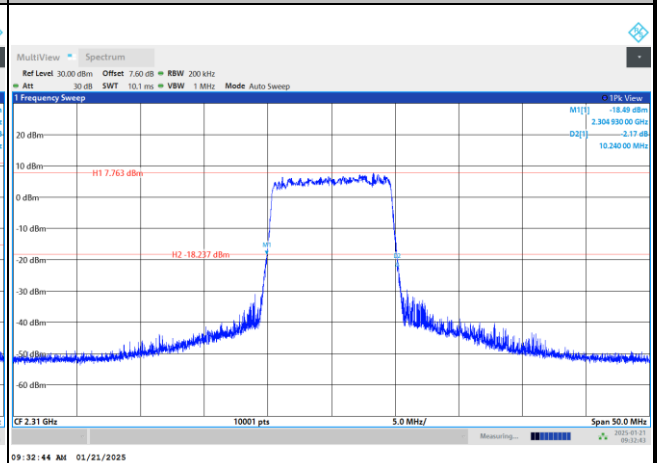
## 16QAM



## 64QAM



## 256QAM



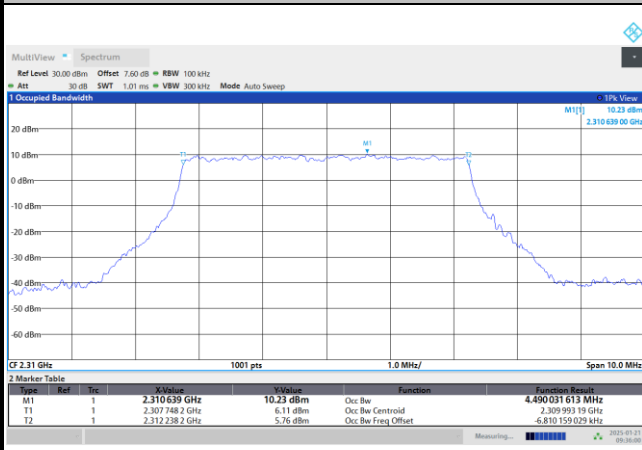
**Occupied Bandwidth**

| Mode      | FR1 n30 : 99%OBW (MHz) / CP OFDM |        |       |        |  |  |  |  |
|-----------|----------------------------------|--------|-------|--------|--|--|--|--|
| BW        | 5MHz                             |        | 10MHz |        |  |  |  |  |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  |  |  |  |  |
| Middle CH | 4.49                             | 4.53   | 9.29  | 9.32   |  |  |  |  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM |  |  |  |  |
| Middle CH | 4.49                             | 4.49   | 9.31  | 9.34   |  |  |  |  |



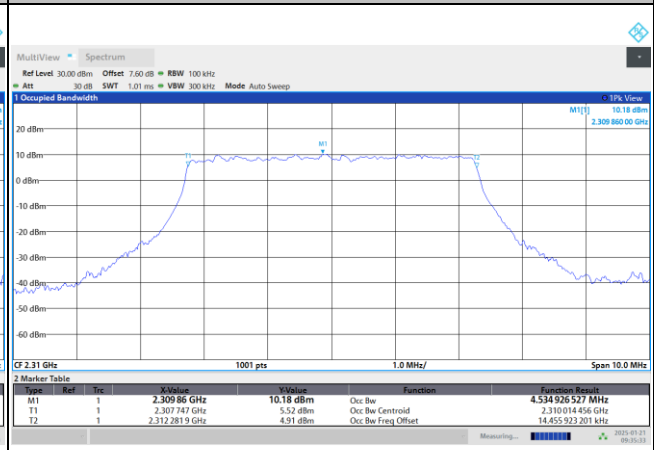
## FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB

## QPSK



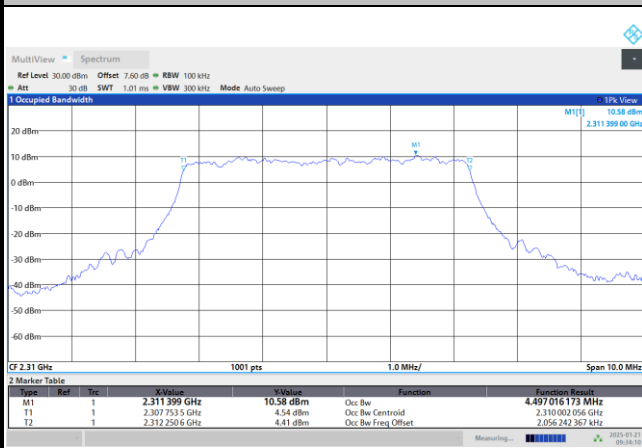
09:36:01 AM 01/21/2025

## 16QAM



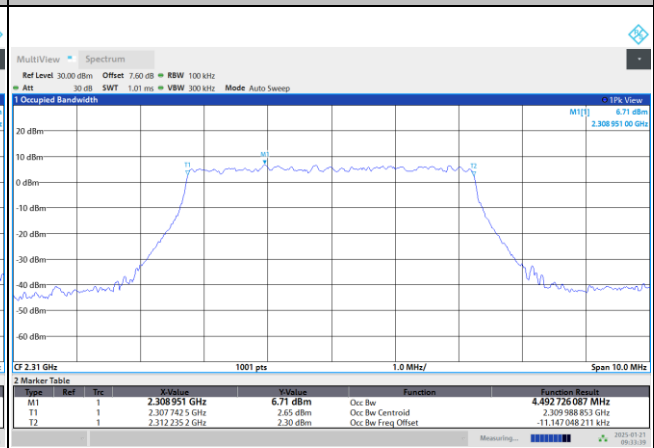
09:35:33 AM 01/21/2025

## 64QAM



09:34:11 AM 01/21/2025

## 256QAM



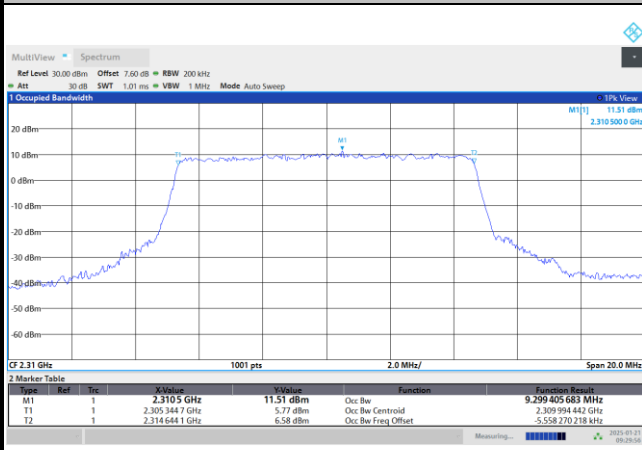
09:33:40 AM 01/21/2025





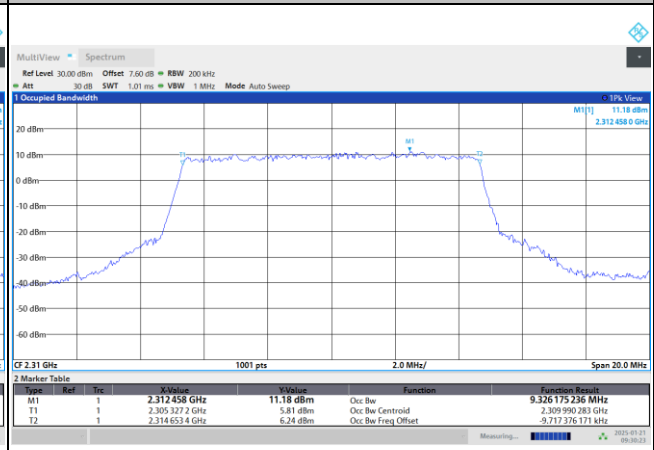
## FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB

## QPSK



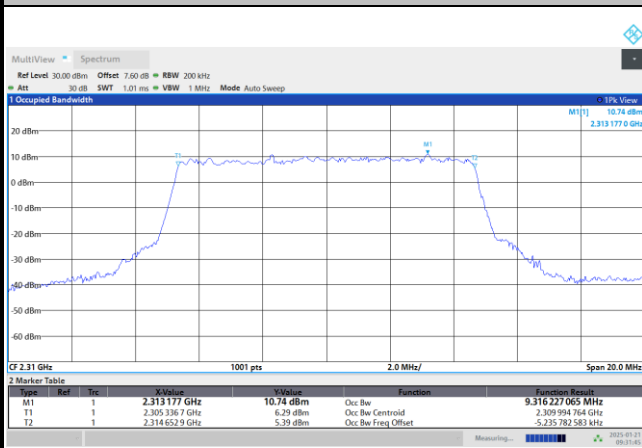
09:29:56 AM 01/21/2025

## 16QAM



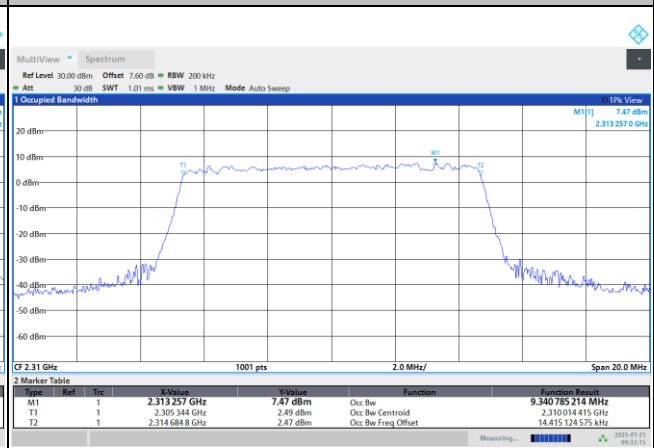
09:30:24 AM 01/21/2025

## 64QAM



09:31:46 AM 01/21/2025

## 256QAM



09:32:16 AM 01/21/2025

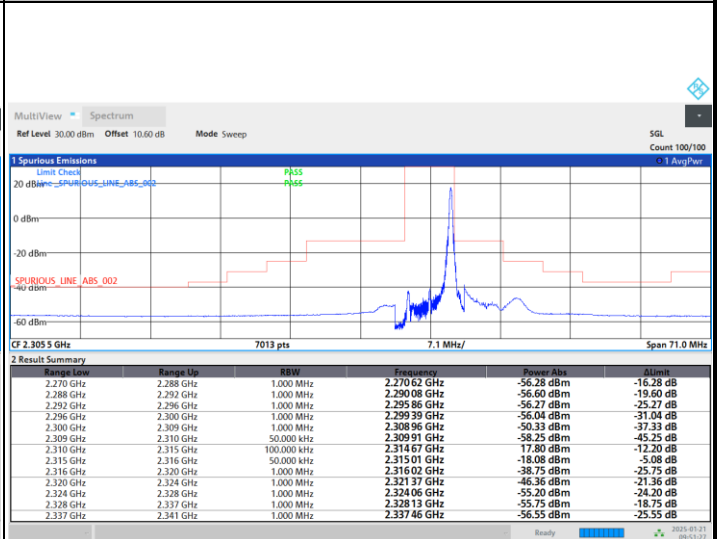
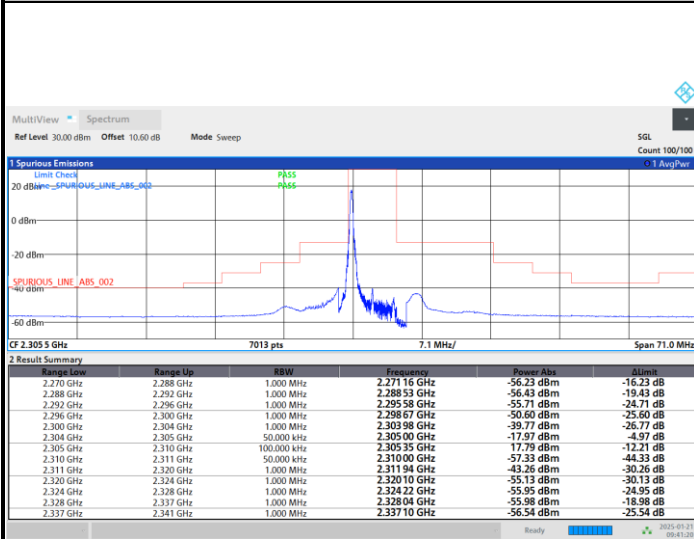


# Conducted Band Edge

## FR1 n30 / 5MHz / CP OFDM / QPSK

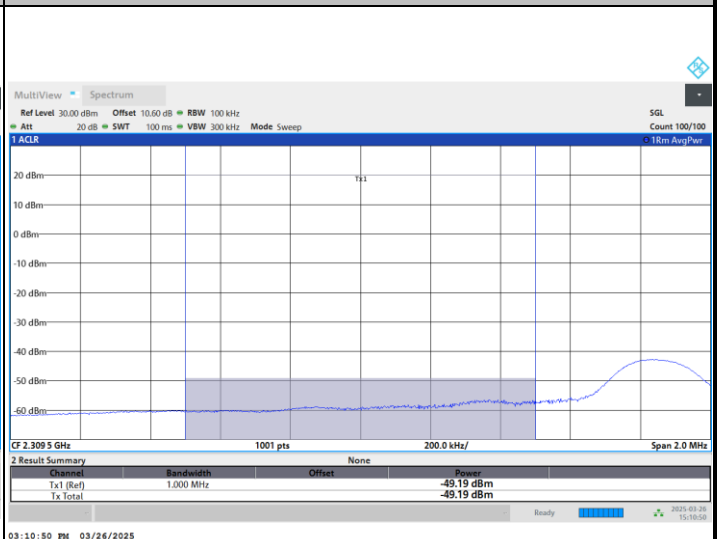
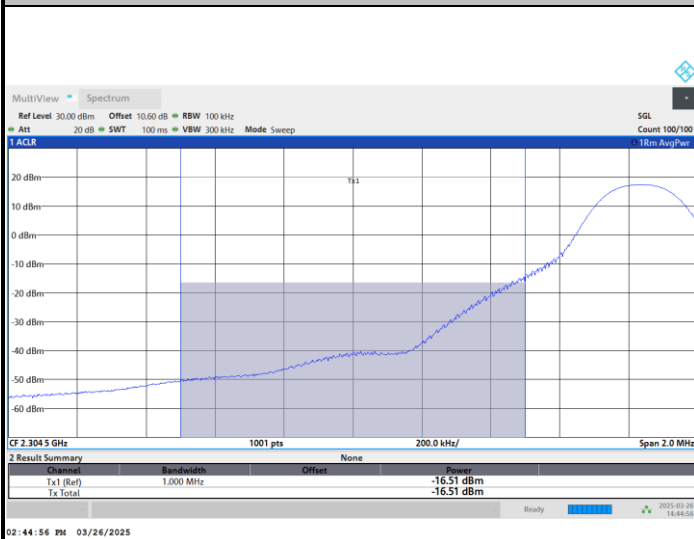
### Lowest Band Edge / 1RB0

### Highest Band Edge / 1RBmax



### Lowest Band Edge / 1 RB / Lower zoom in

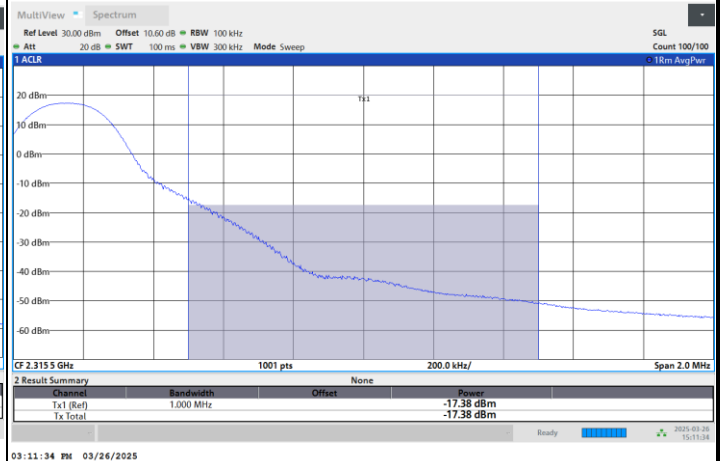
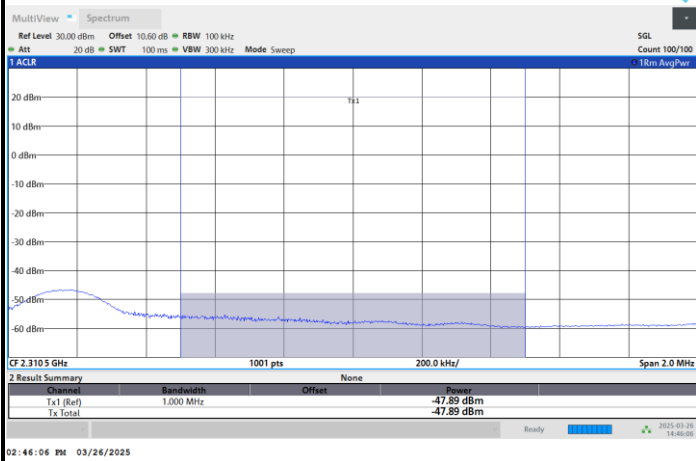
### Highest Band Edge / 1 RB / Lower zoom in





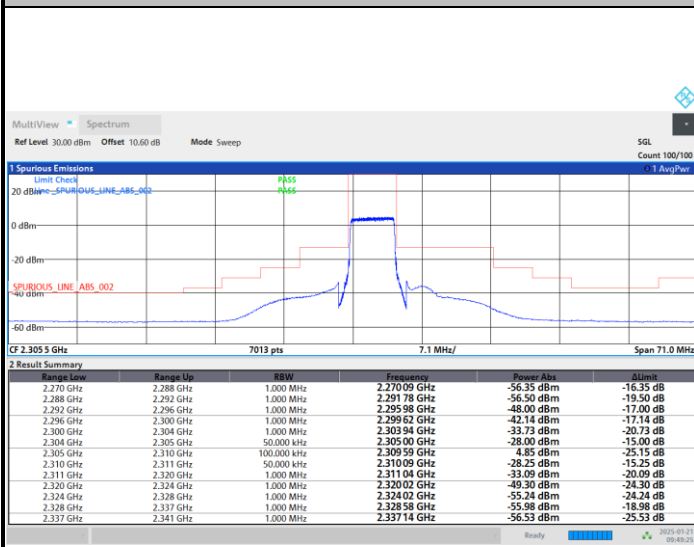
Lowest Band Edge / 1 RB / Upper zoom in

Highest Band Edge / 1 RB / Upper zoom in

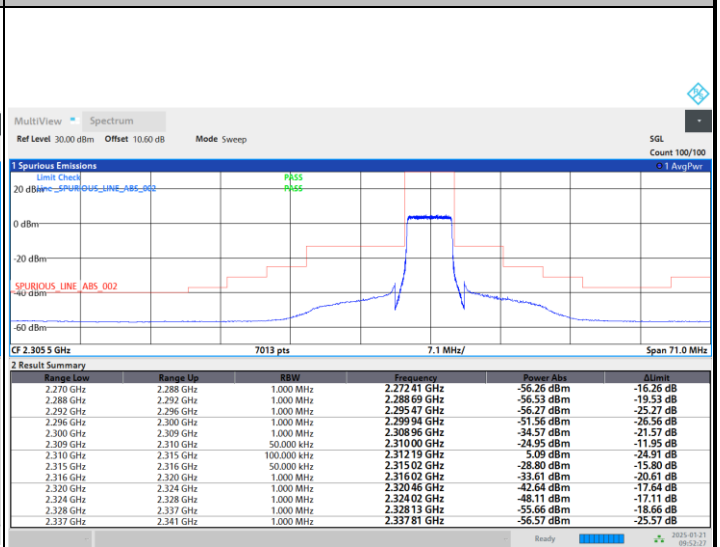




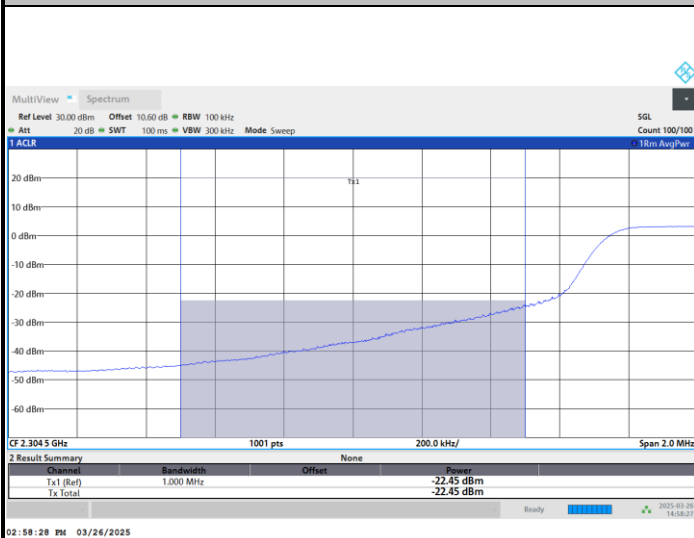
## Lowest Band Edge / Full RB



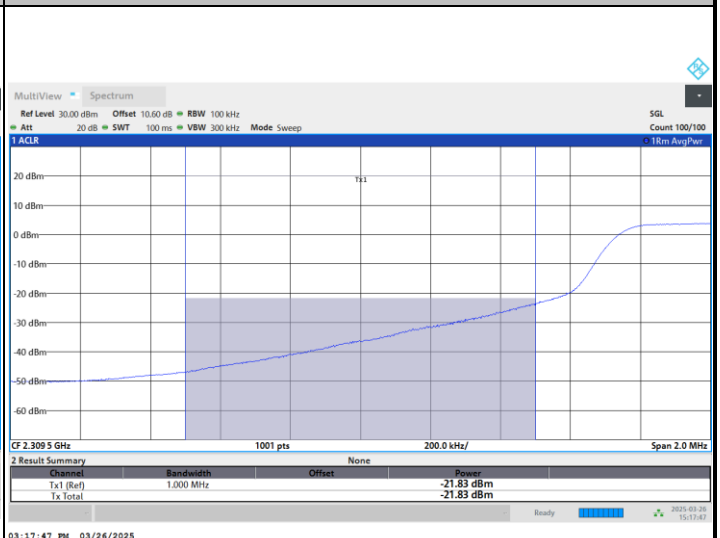
## Highest Band Edge / Full RB



## Lowest Band Edge / Full RB / Lower zoom in



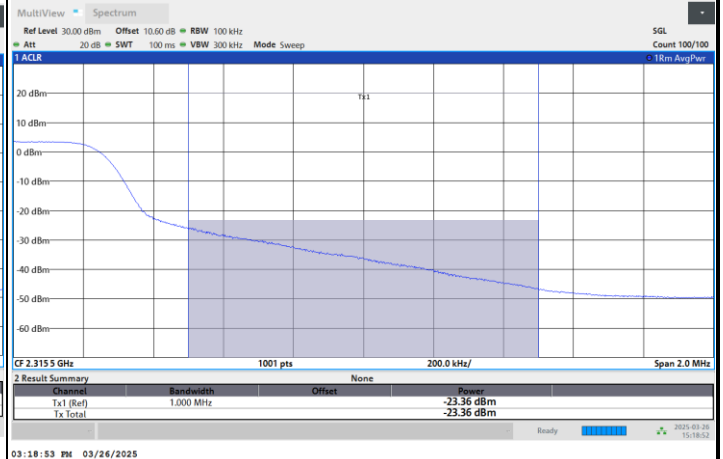
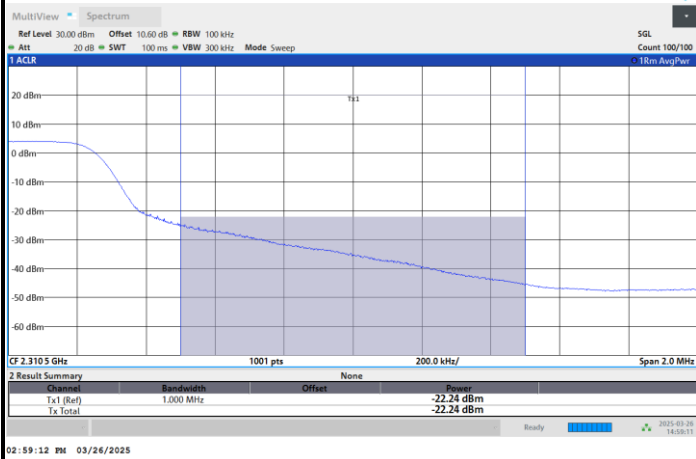
## Highest Band Edge / Full RB / Lower zoom in





Lowest Band Edge / Full RB / Upper zoom in

Highest Band Edge / Full RB / Upper zoom in

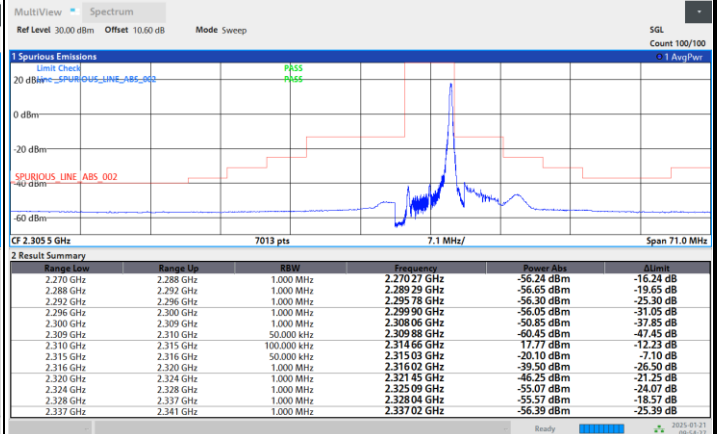
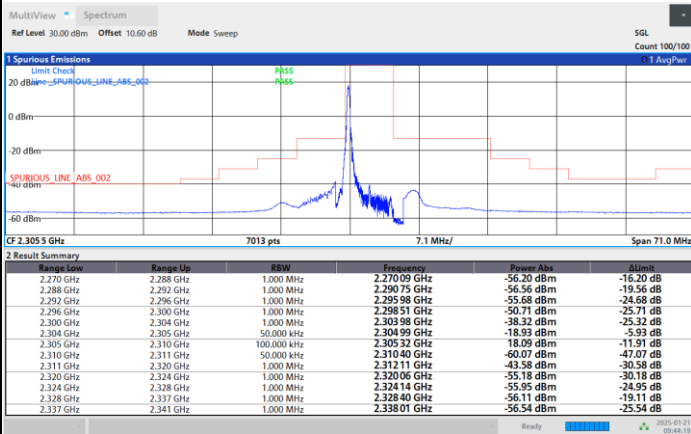




## FR1 n30 / 5MHz / CP OFDM / 16QAM

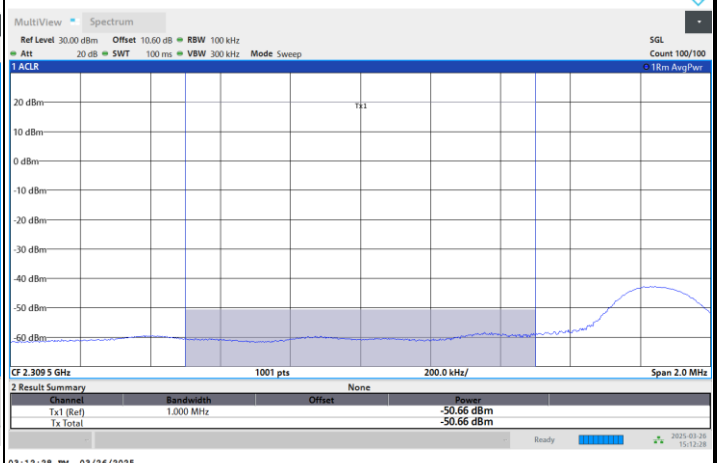
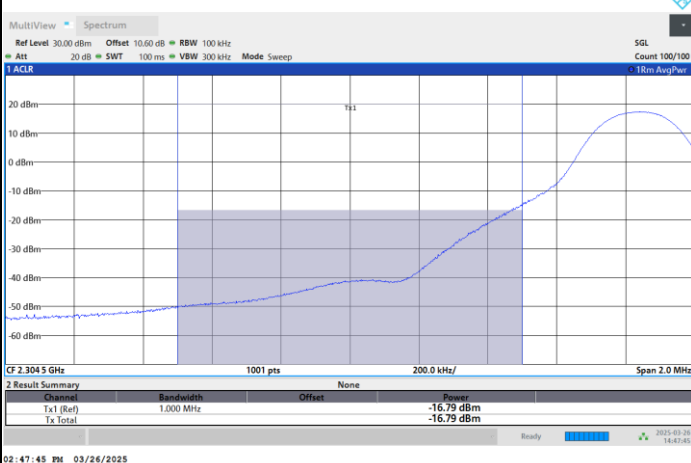
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / 1 RB / Lower zoom in

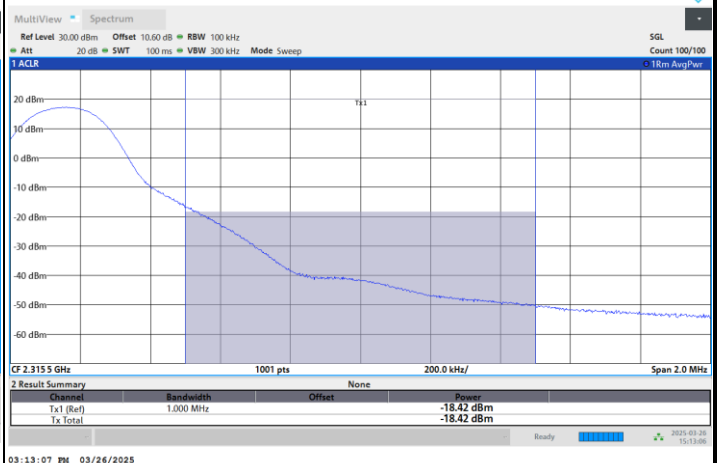
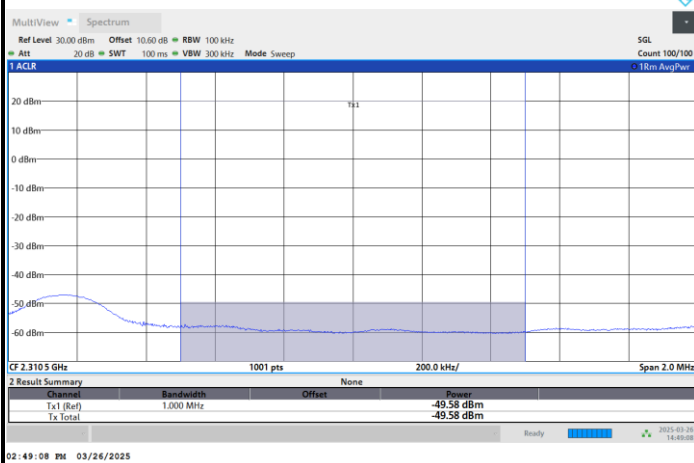
## Highest Band Edge / 1 RB / Lower zoom in





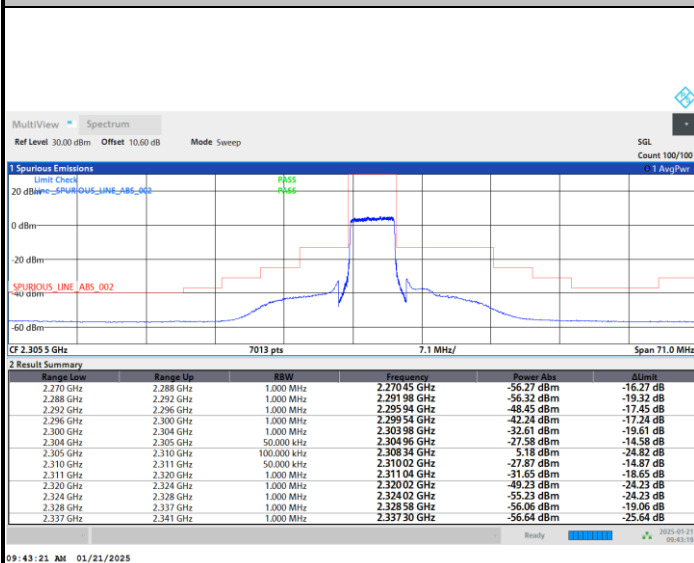
Lowest Band Edge / 1 RB / Upper zoom in

Highest Band Edge / 1 RB / Upper zoom in

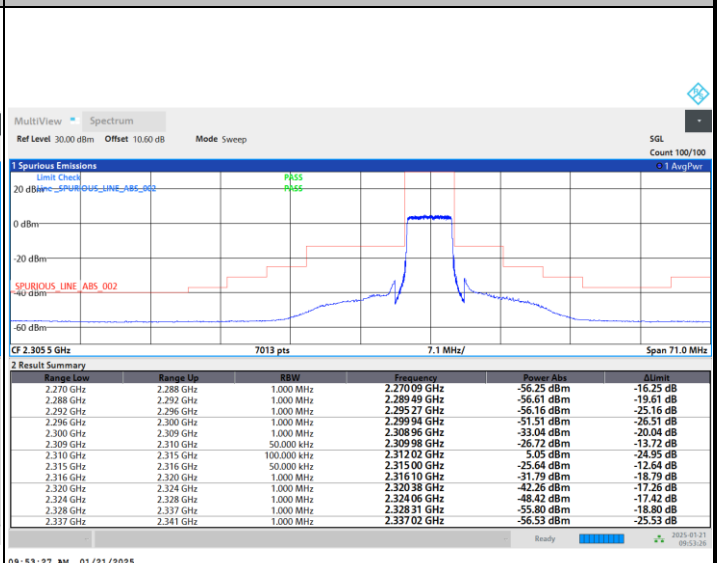




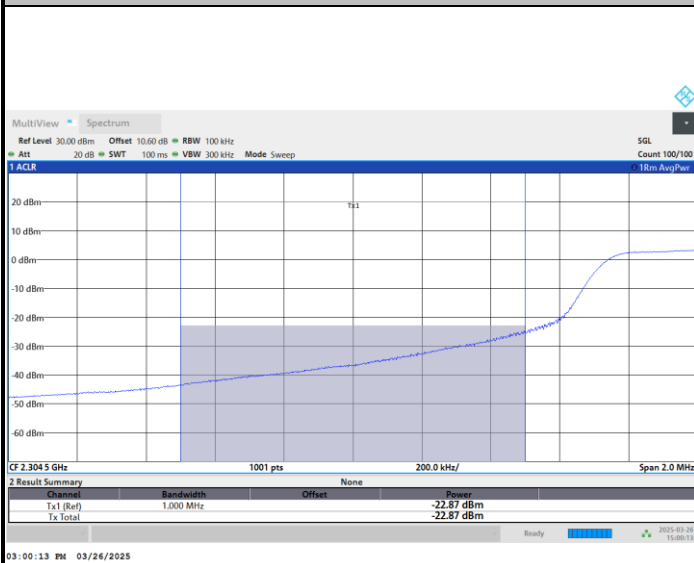
## Lowest Band Edge / Full RB



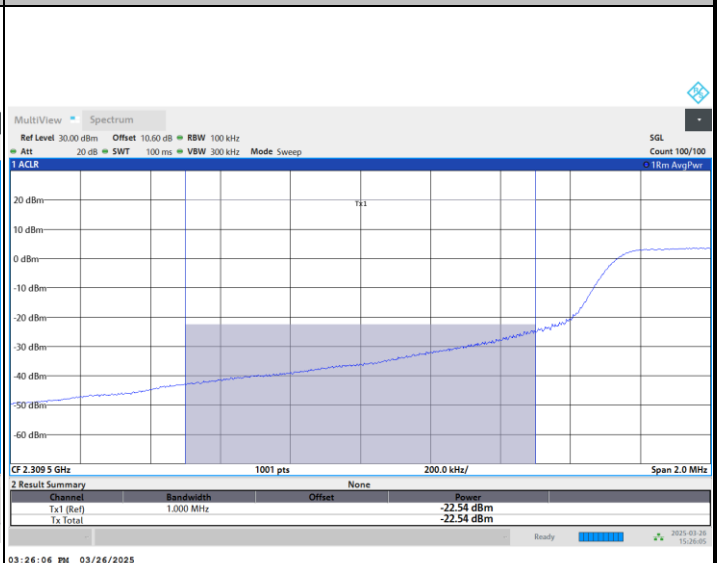
## Highest Band Edge / Full RB



## Lowest Band Edge / Full RB / Lower zoom in



## Highest Band Edge / Full RB / Lower zoom in







Lowest Band Edge / Full RB / Upper zoom in

Highest Band Edge / Full RB / Upper zoom in

