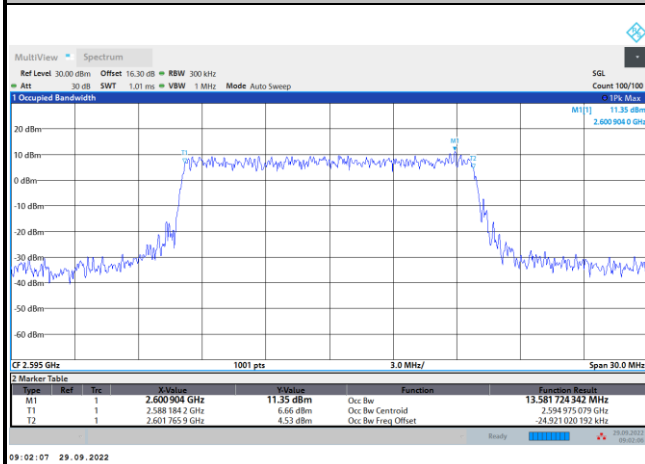


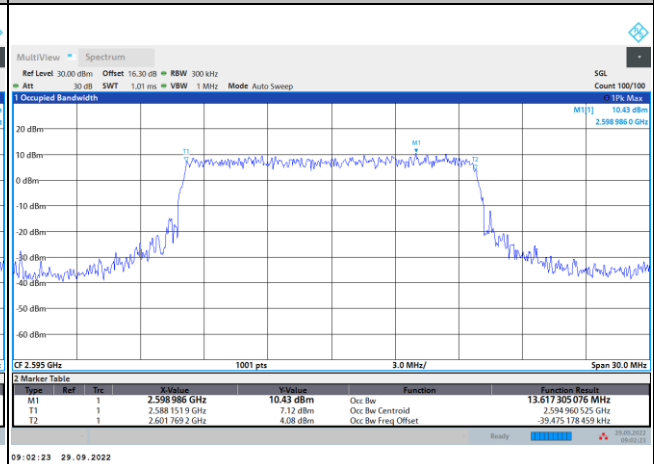


## FR1 n38 / 15MHz / CP OFDM / Middle Channel / Full RB

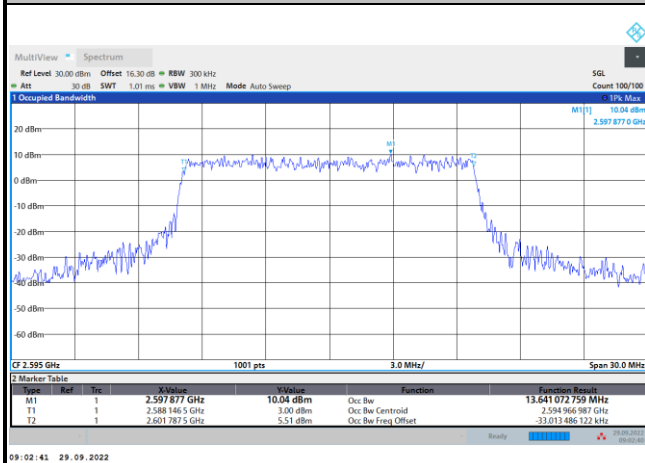
## QPSK



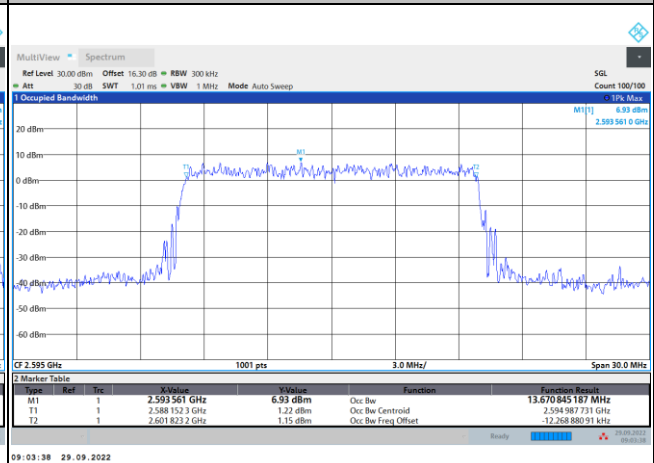
## 16QAM



## 64QAM



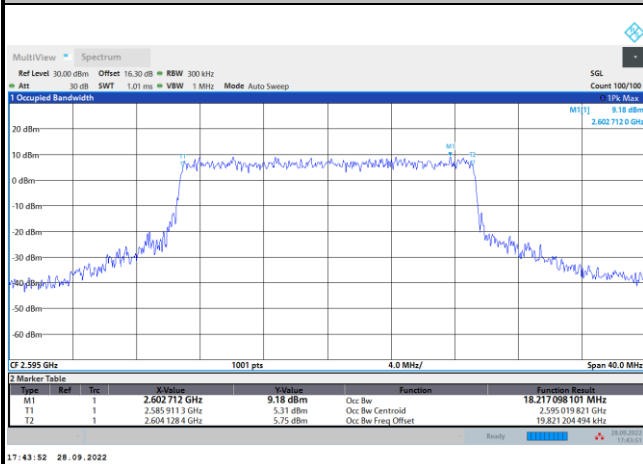
## 256QAM



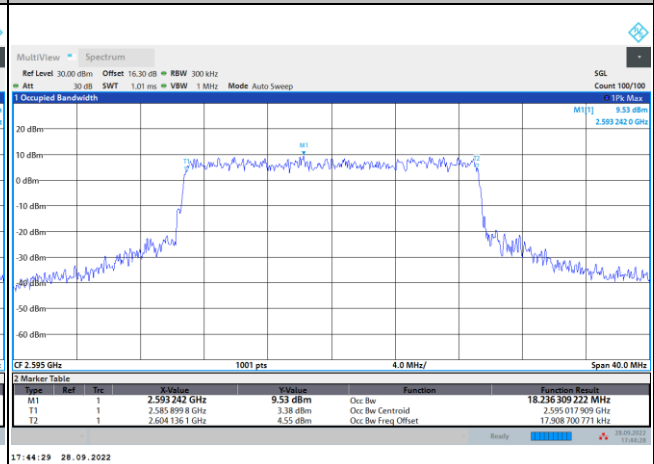


## FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

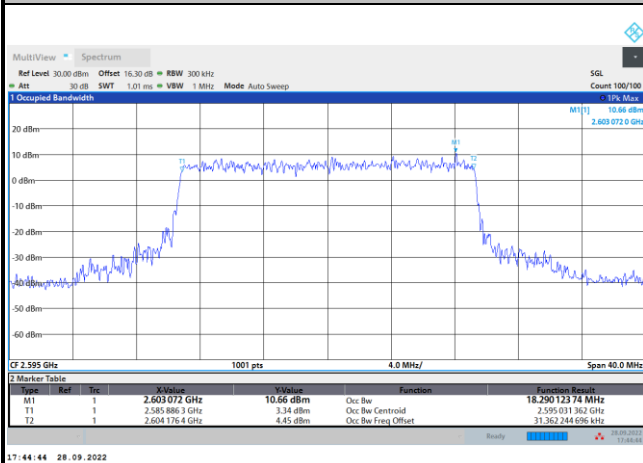
## QPSK



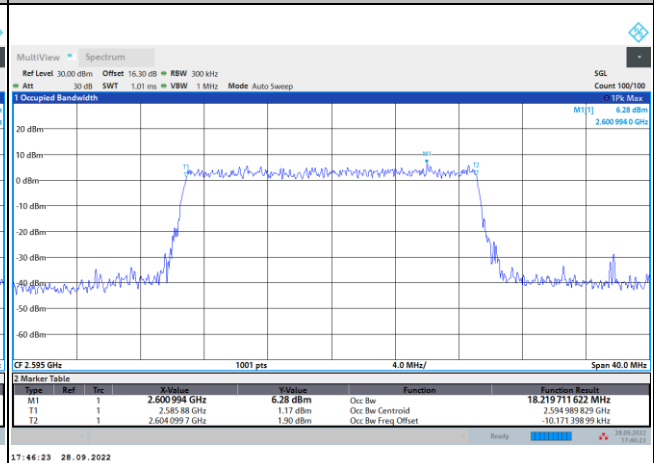
## 16QAM



## 64QAM



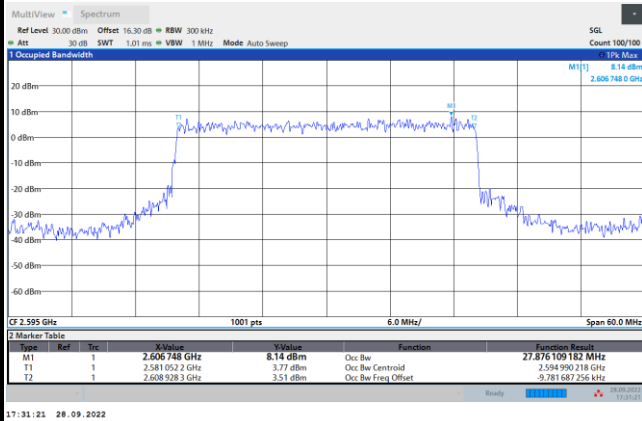
## 256QAM



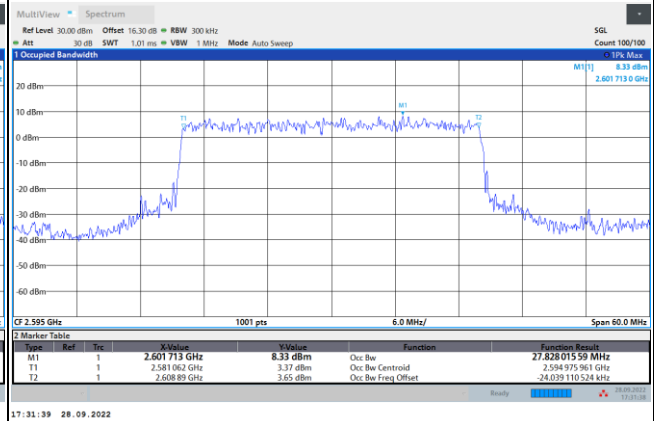


## FR1 n38 / 30MHz / CP OFDM / Middle Channel / Full RB

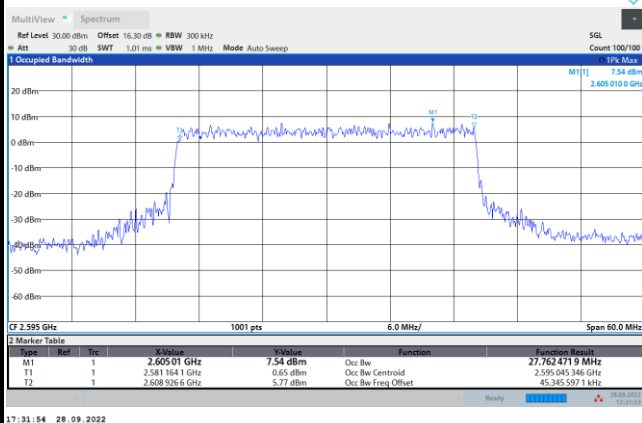
## QPSK



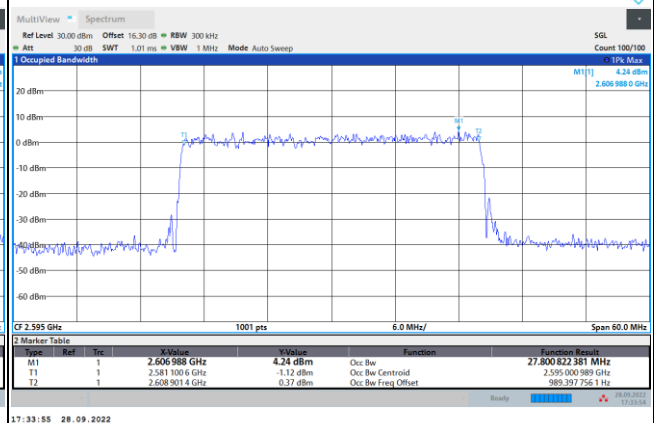
## 16QAM



## 64QAM



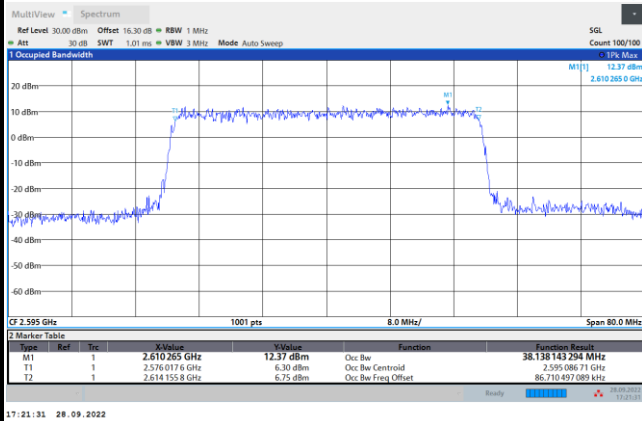
## 256QAM



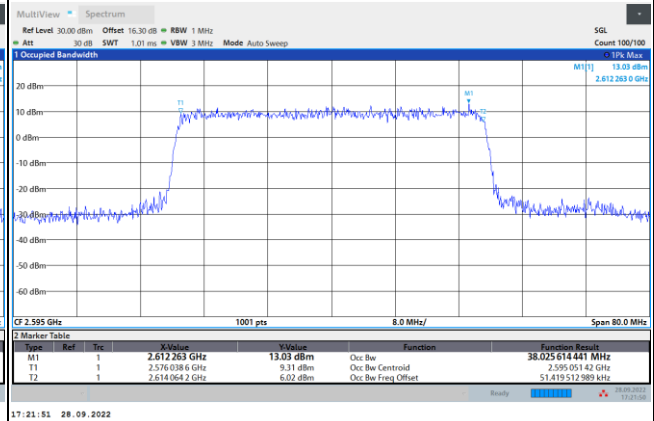


## FR1 n38 / 40MHz / CP OFDM / Middle Channel / Full RB

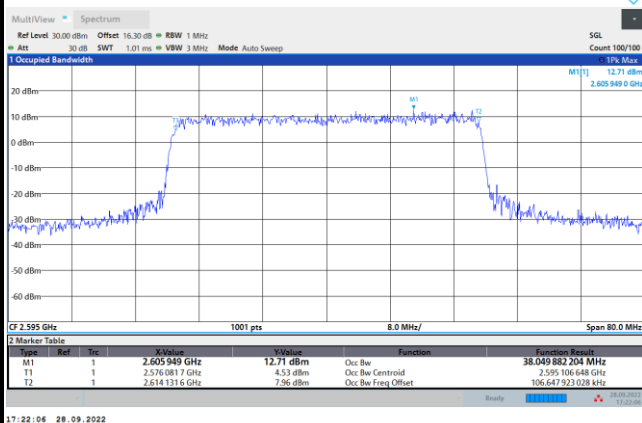
## QPSK



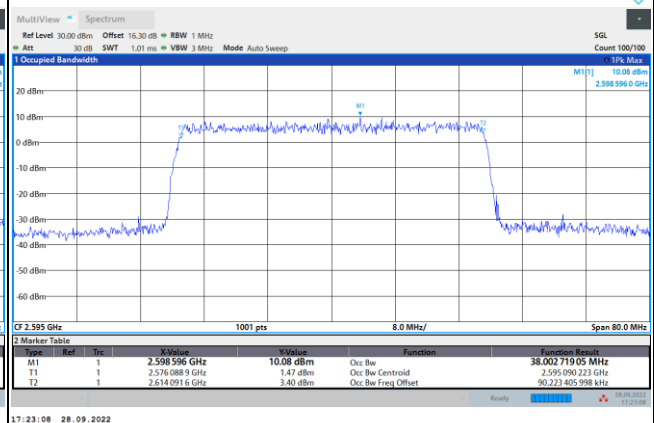
## 16QAM



## 64QAM



## 256QAM

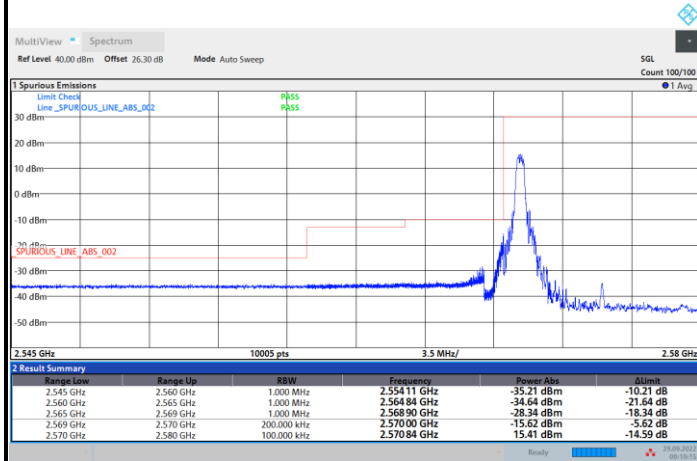




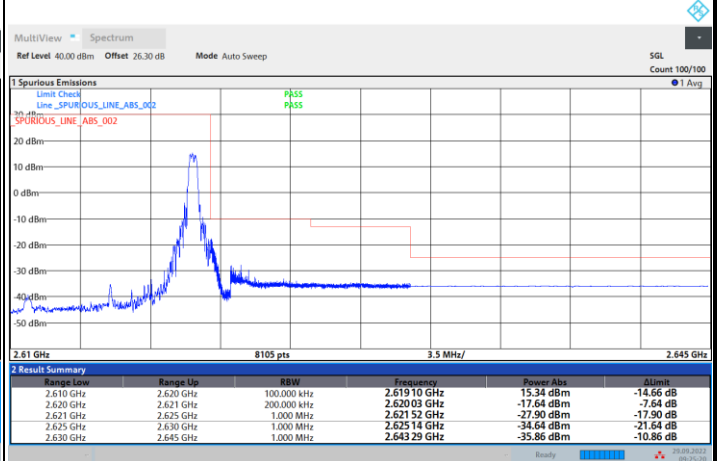
# Conducted Band Edge

## FR1 n38 / 10MHz / CP OFDM / QPSK

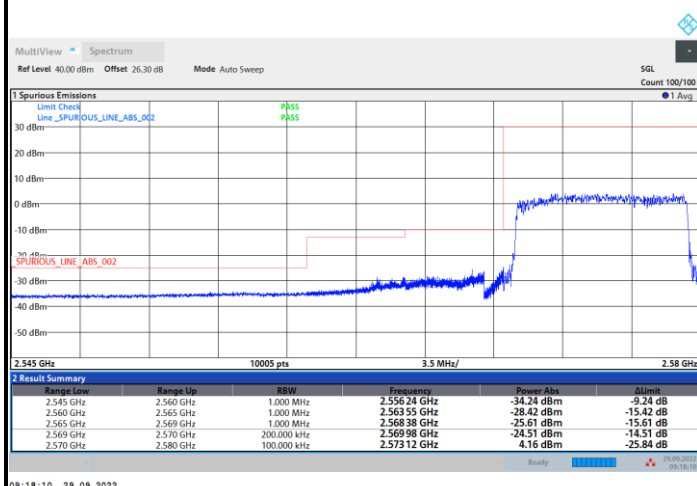
### Lowest Band Edge / 1RB0



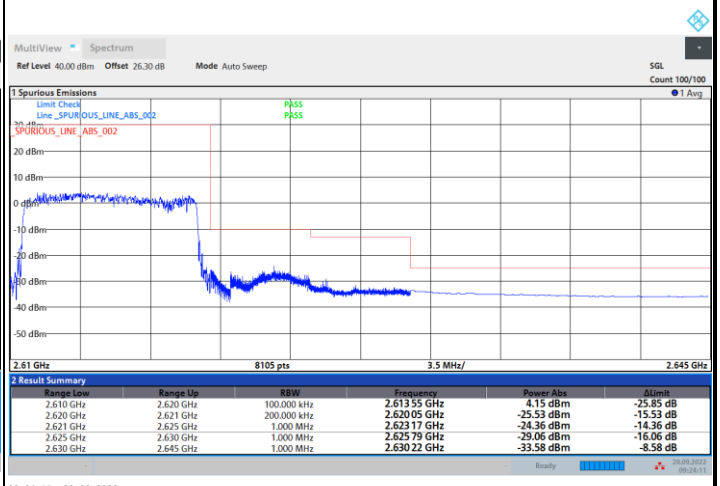
### Highest Band Edge / 1RBmax



### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB

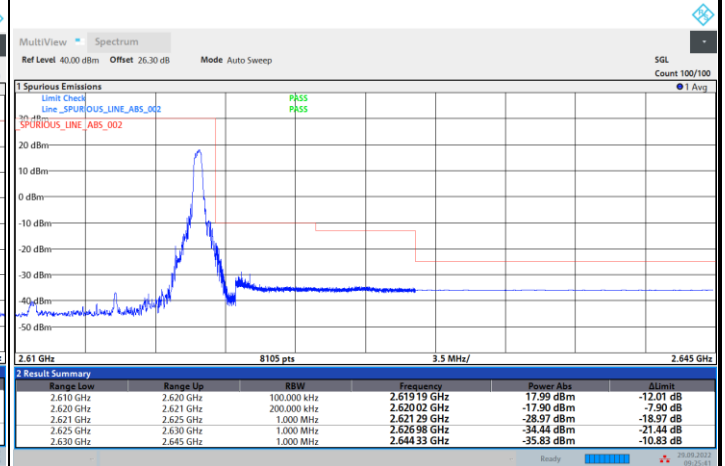
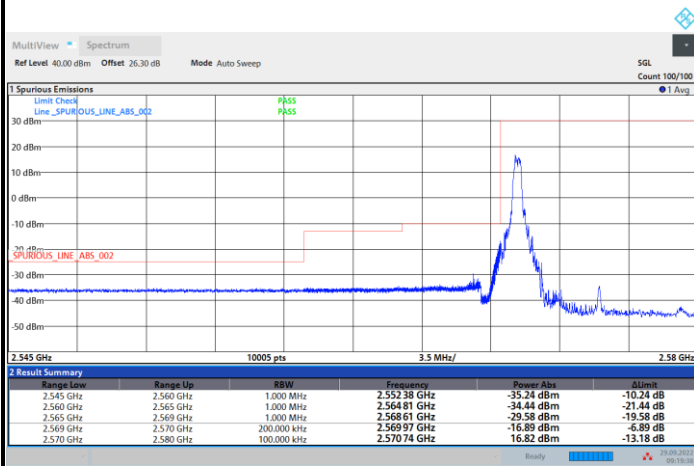




## FR1 n38 / 10MHz / CP OFDM / 16QAM

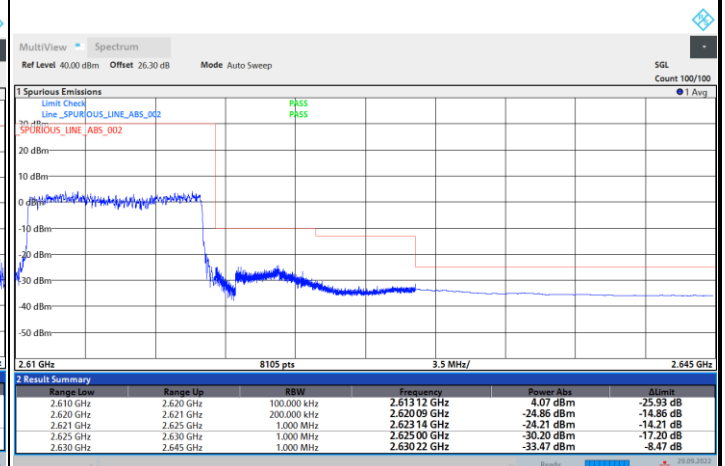
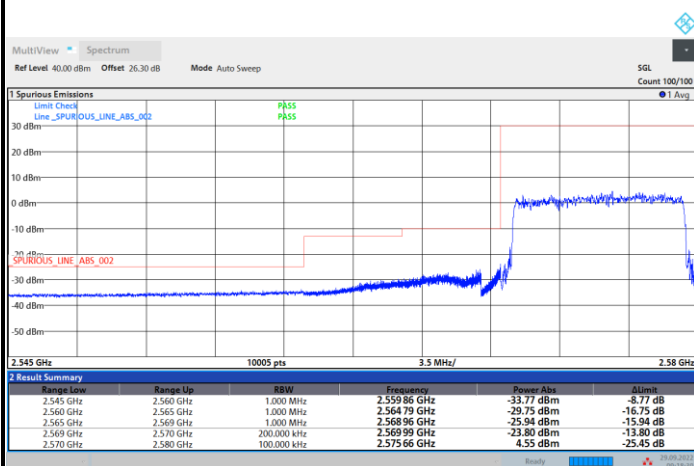
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

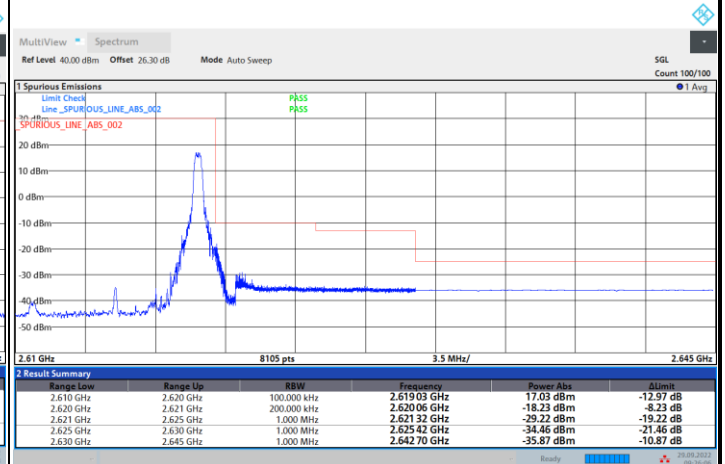
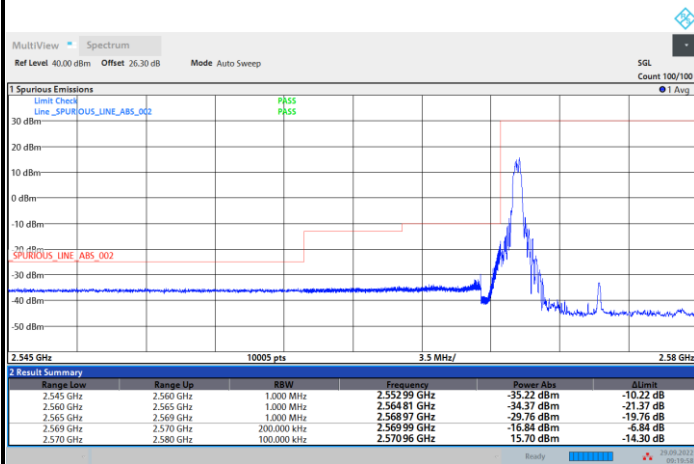




## FR1 n38 / 10MHz / CP OFDM / 64QAM

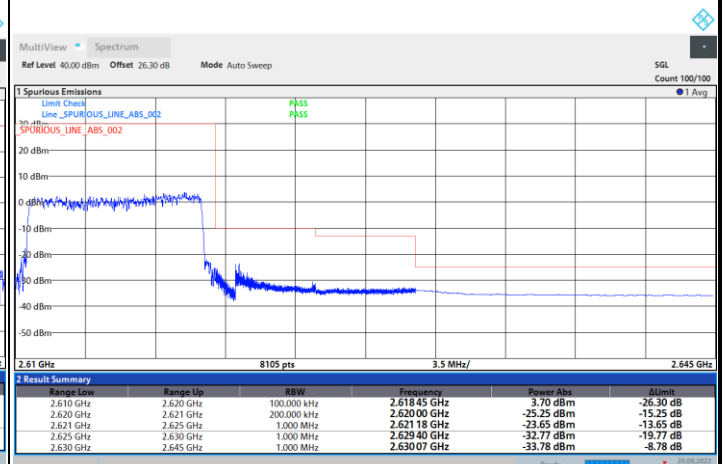
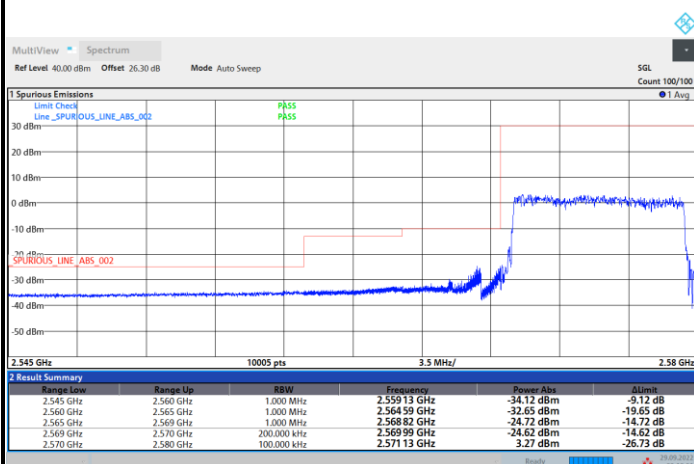
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

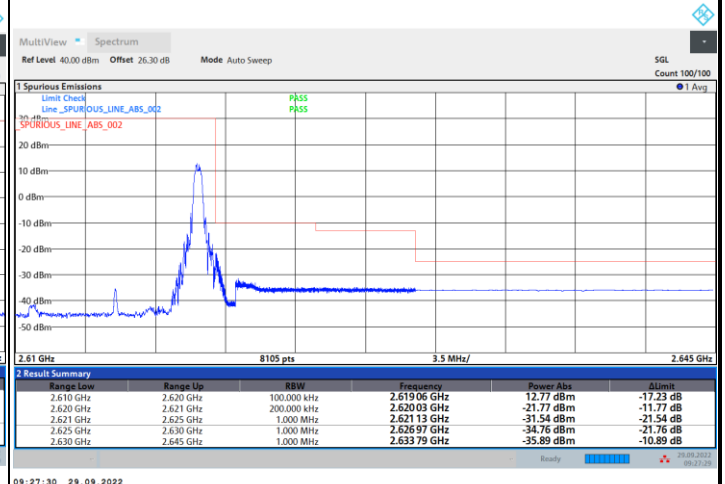
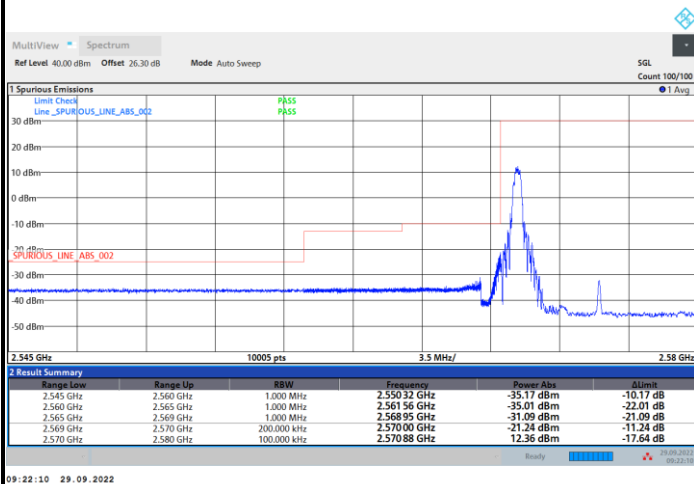




## FR1 n38 / 10MHz / CP OFDM / 256QAM

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax

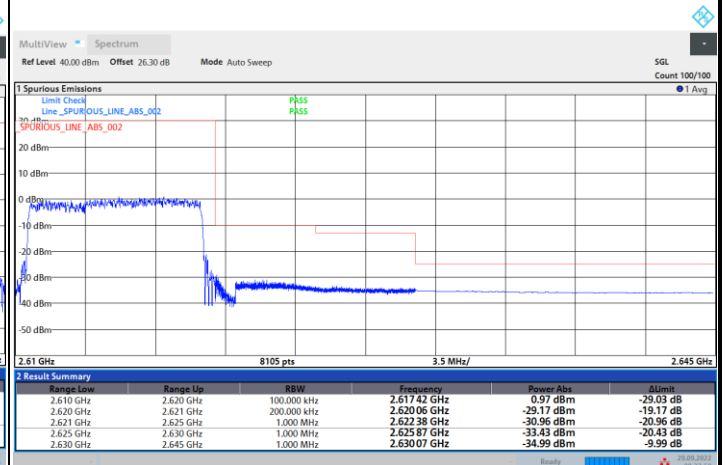
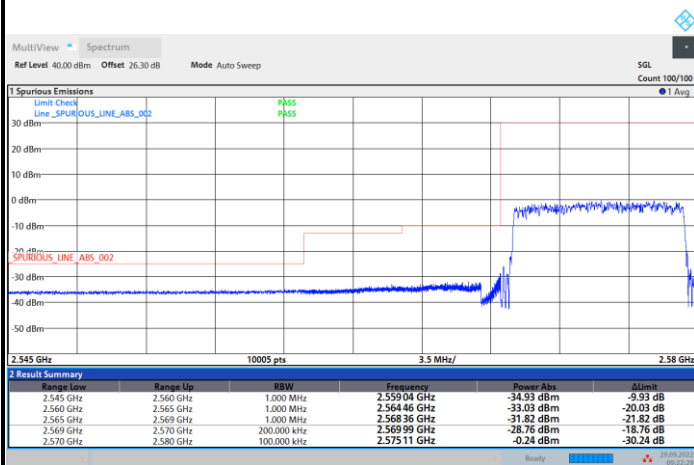


09:22:10 29.09.2022

09:27:30 29.09.2022

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



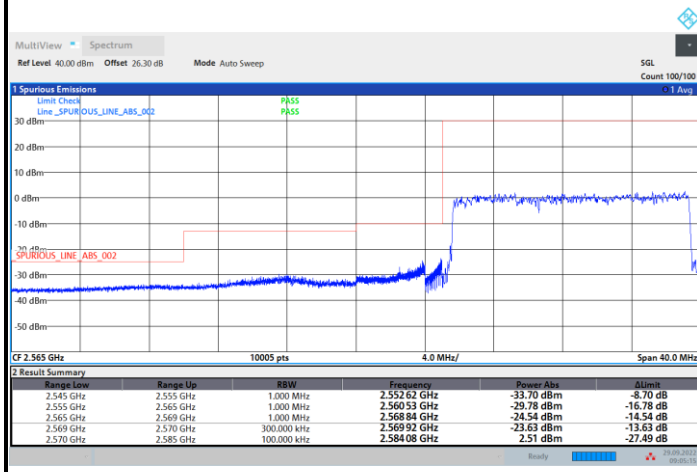
09:22:10 29.09.2022

09:27:51 29.09.2022



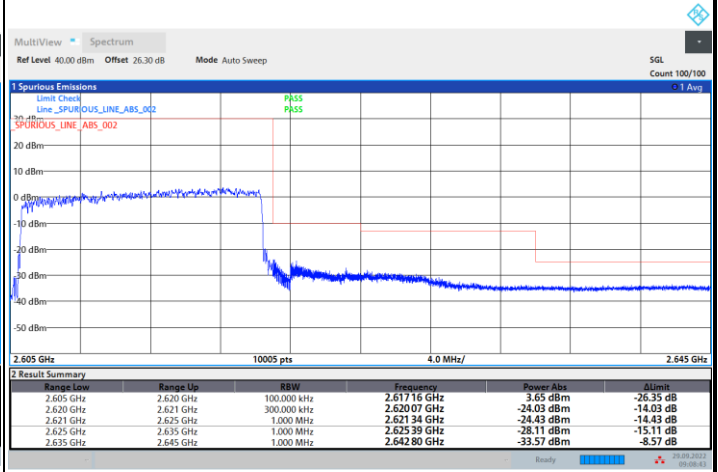
## FR1 n38 / 15MHz / CP OFDM / QPSK

## Lowest Band Edge / Full RB



09:05:16 29.09.2022

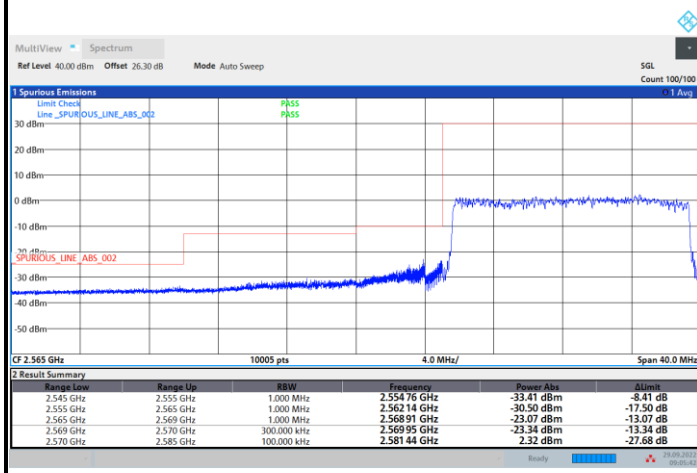
## Highest Band Edge / Full RB



09:08:43 29.09.2022

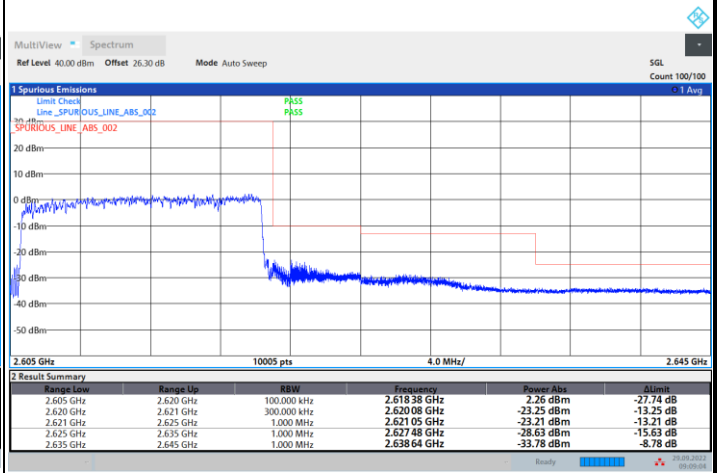
## FR1 n38 / 15MHz / CP OFDM / 16QAM

## Lowest Band Edge / Full RB



09:05:43 29.09.2022

## Highest Band Edge / Full RB

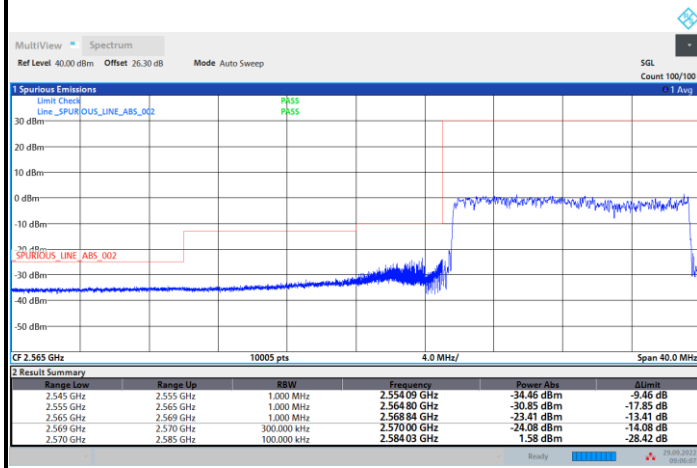


09:09:04 29.09.2022

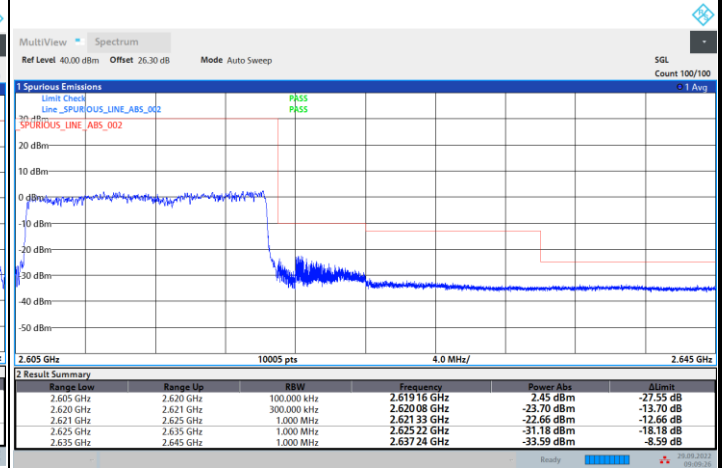


## FR1 n38 / 15MHz / CP OFDM / 64QAM

## Lowest Band Edge / Full RB

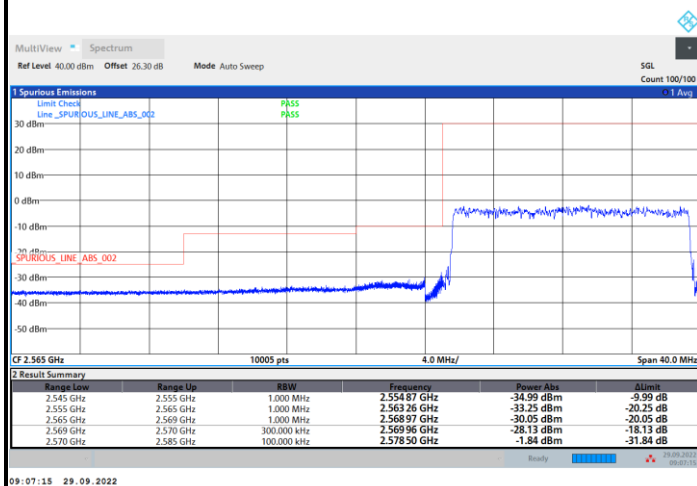


## Highest Band Edge / Full RB

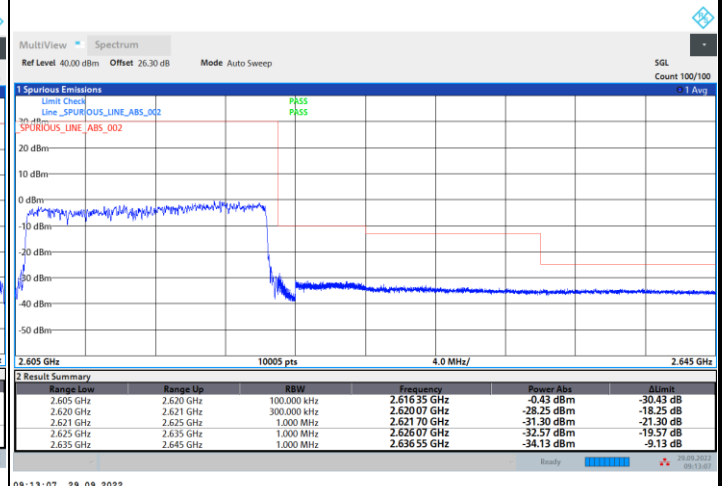


## FR1 n38 / 15MHz / CP OFDM / 256QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

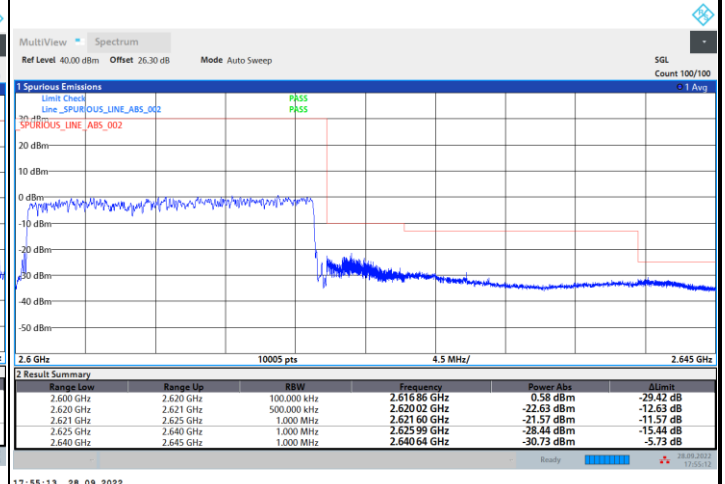
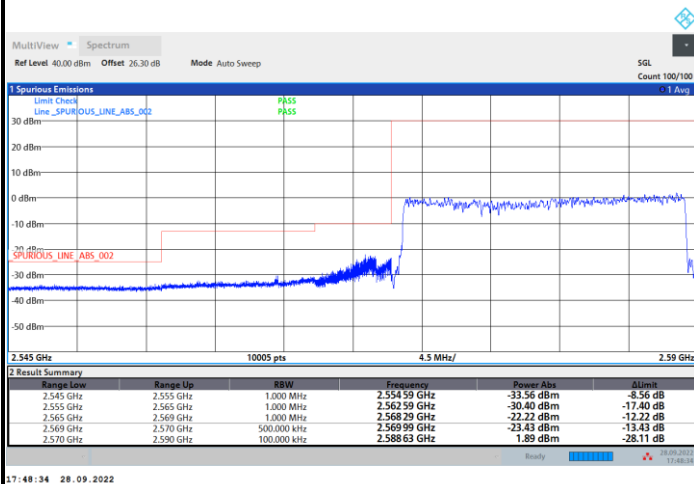




## FR1 n38 / 20MHz / CP OFDM / QPSK

## Lowest Band Edge / Full RB

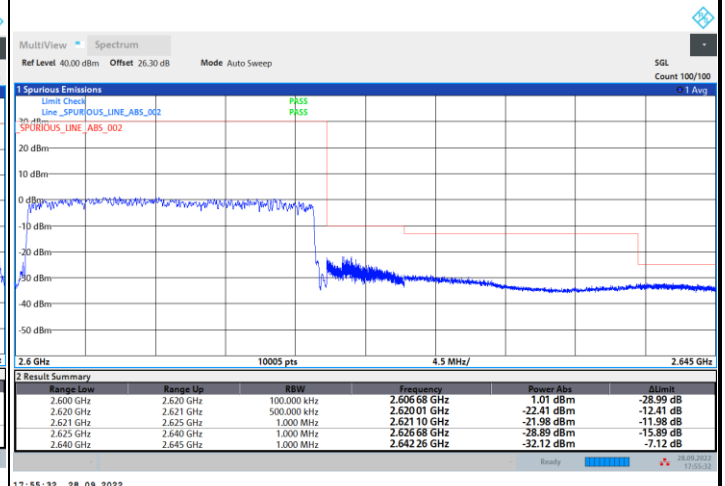
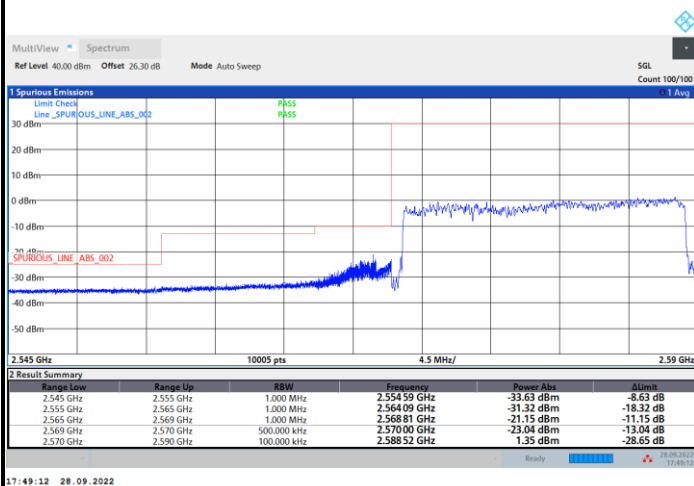
## Highest Band Edge / Full RB



## FR1 n38 / 20MHz / CP OFDM / 16QAM

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

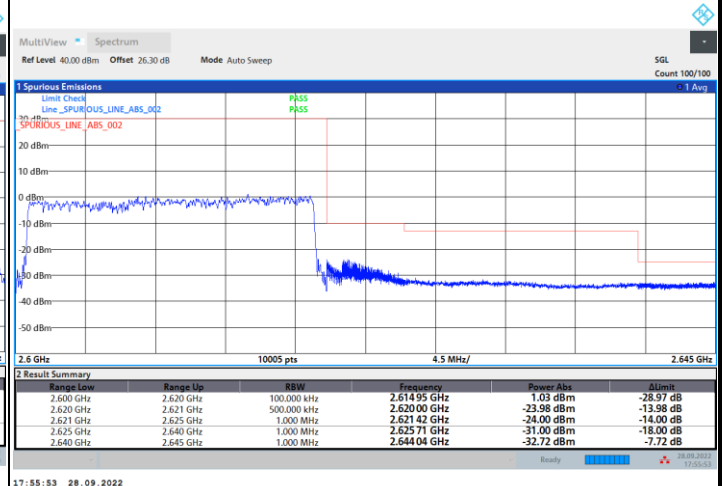
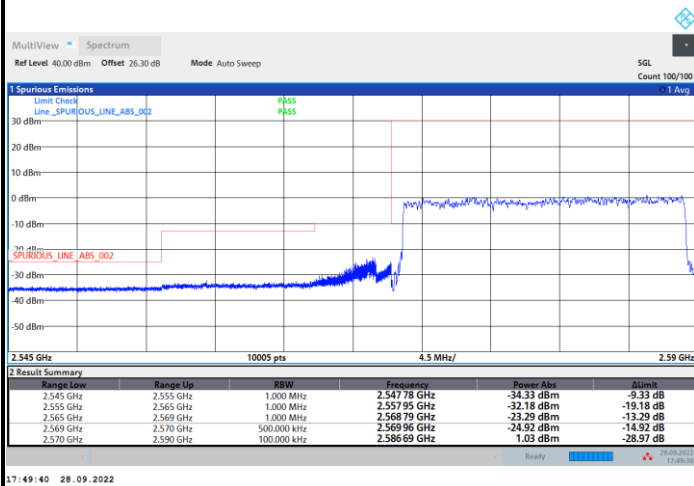




## FR1 n38 / 20MHz / CP OFDM / 64QAM

## Lowest Band Edge / Full RB

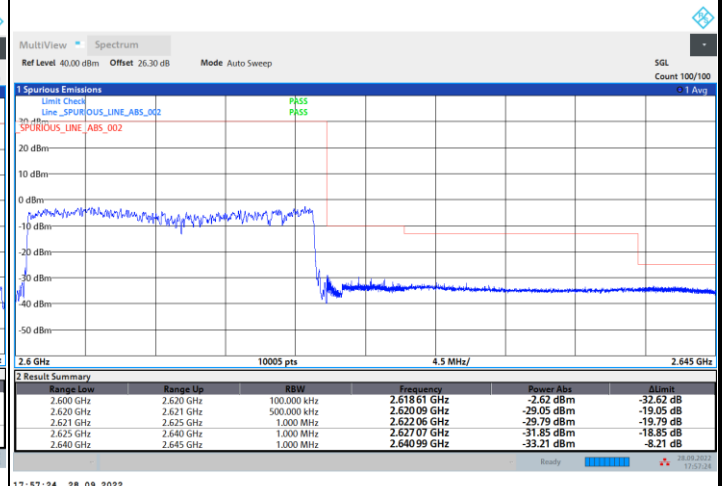
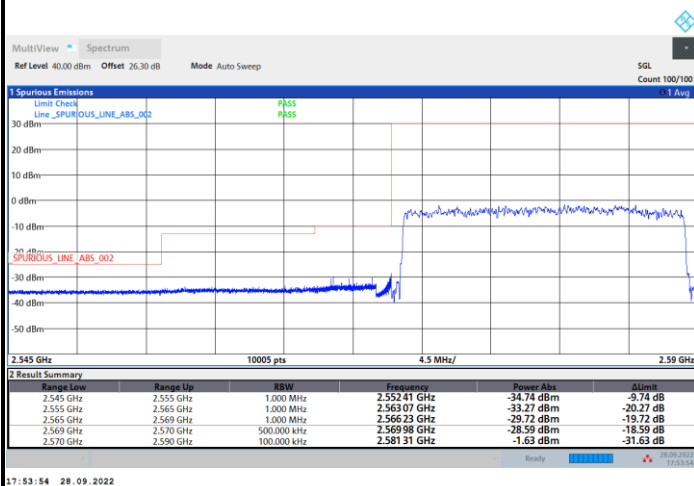
## Highest Band Edge / Full RB

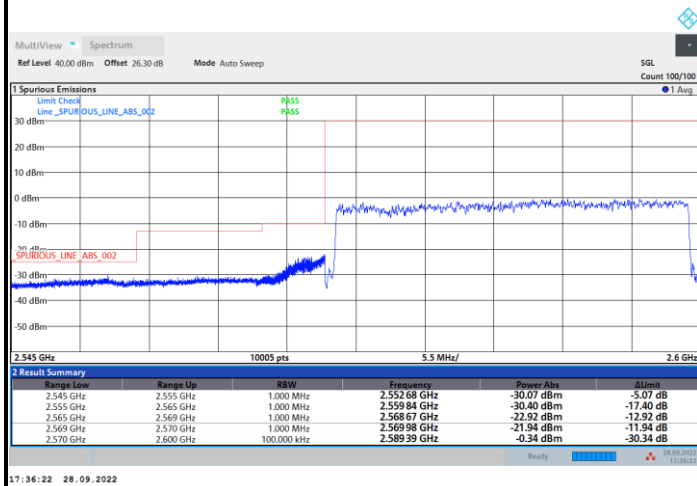


## FR1 n38 / 20MHz / CP OFDM / 256QAM

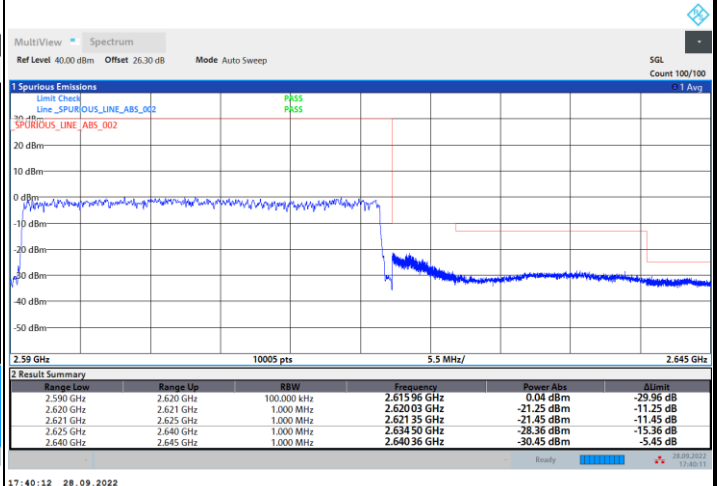
## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

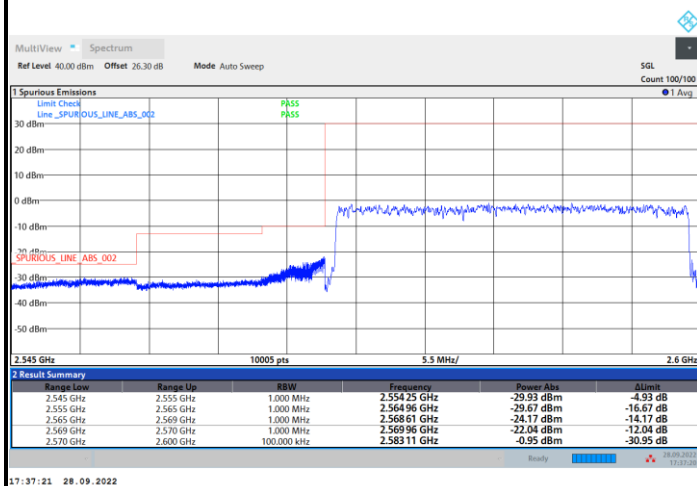


**FR1 n38 / 30MHz / CP OFDM / QPSK****Lowest Band Edge / Full RB**

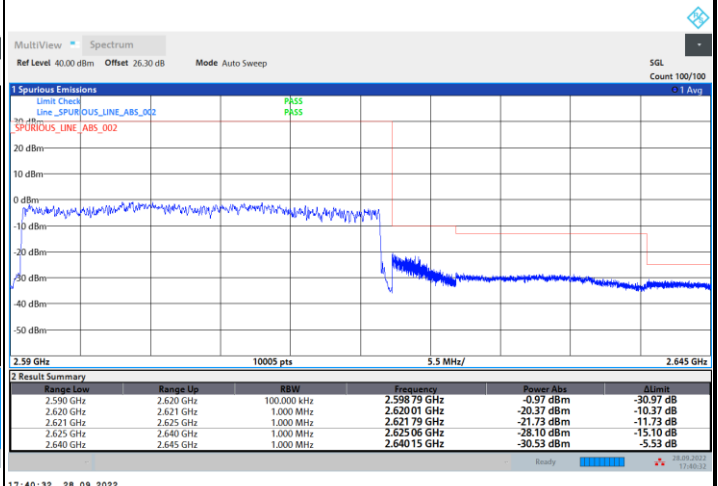
17:36:22 28.09.2022

**Highest Band Edge / Full RB**

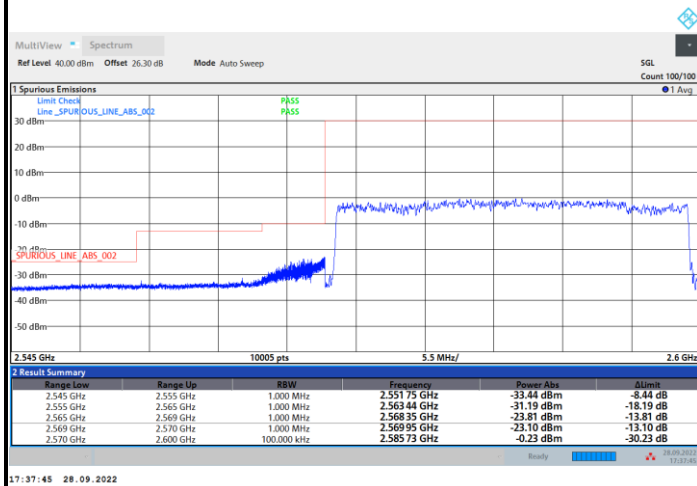
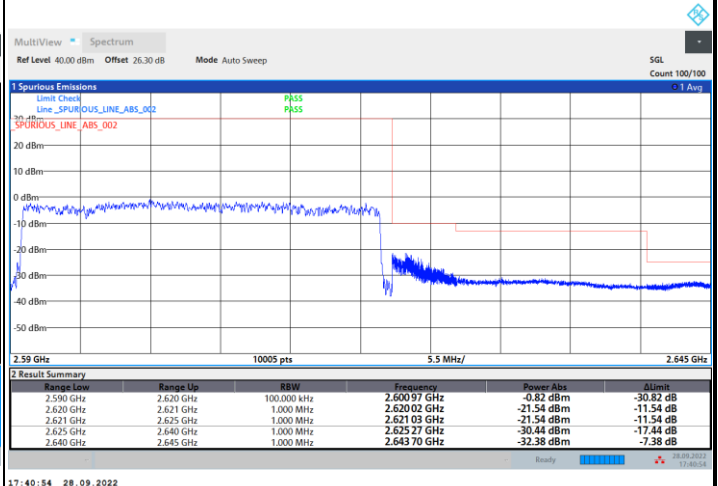
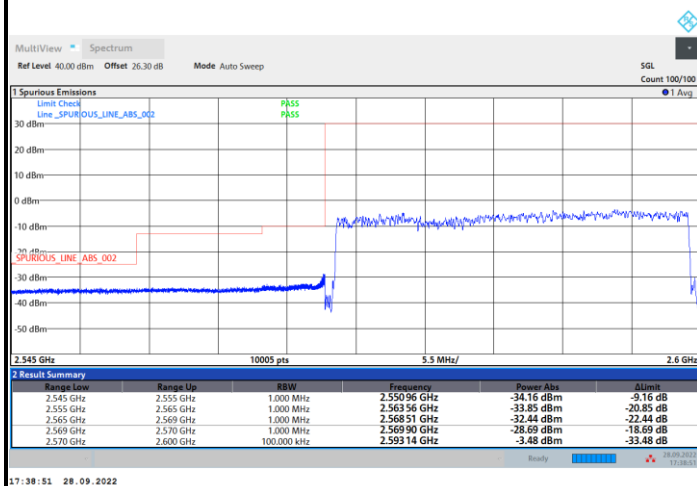
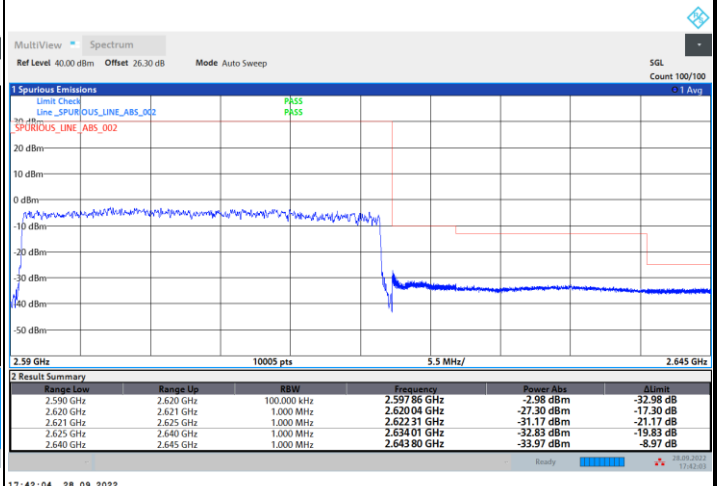
17:40:12 28.09.2022

**FR1 n38 / 30MHz / CP OFDM / 16QAM****Lowest Band Edge / Full RB**

17:37:21 28.09.2022

**Highest Band Edge / Full RB**

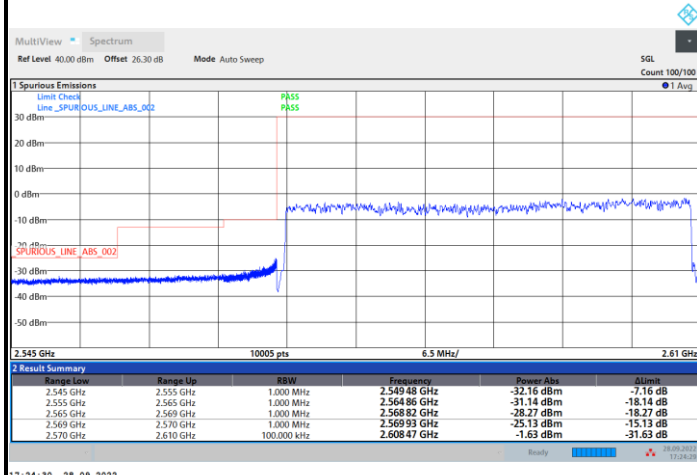
17:40:32 28.09.2022

**FR1 n38 / 30MHz / CP OFDM / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n38 / 30MHz / CP OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



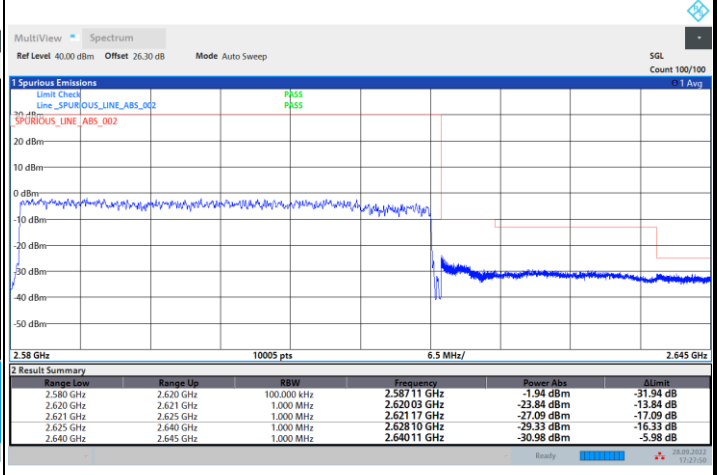
## FR1 n38 / 40MHz / CP OFDM / QPSK

### Lowest Band Edge / Full RB



17:24:30 28.09.2022

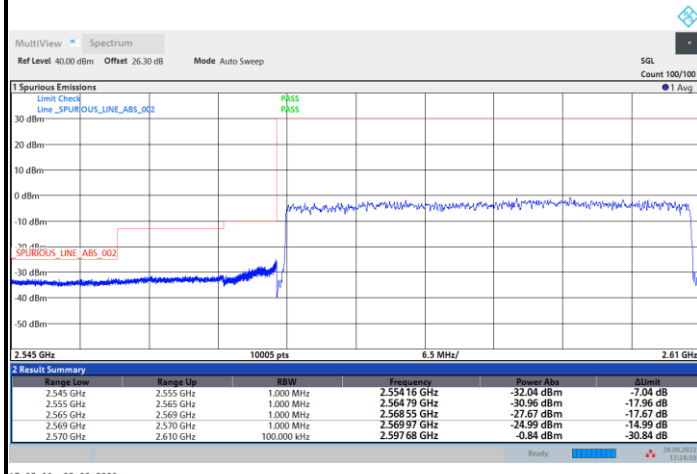
### Highest Band Edge / Full RB



17:27:51 28.09.2022

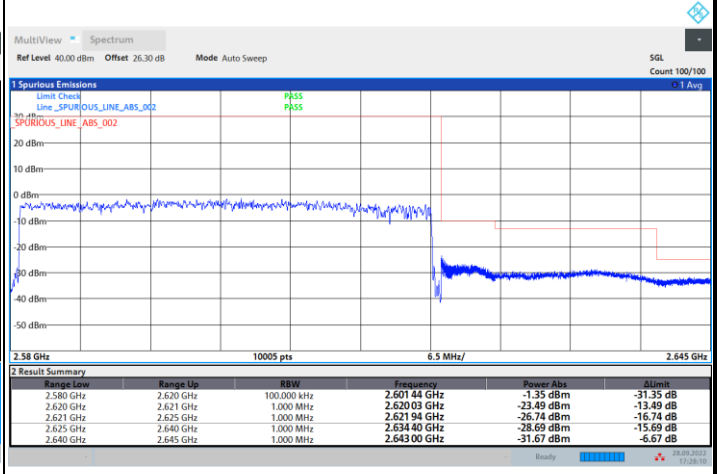
## FR1 n38 / 40MHz / CP OFDM / 16QAM

### Lowest Band Edge / Full RB



17:25:00 28.09.2022

### Highest Band Edge / Full RB

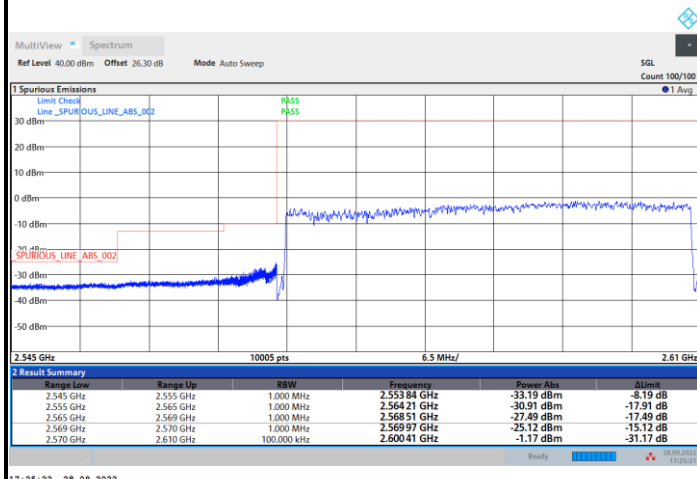


17:28:11 28.09.2022



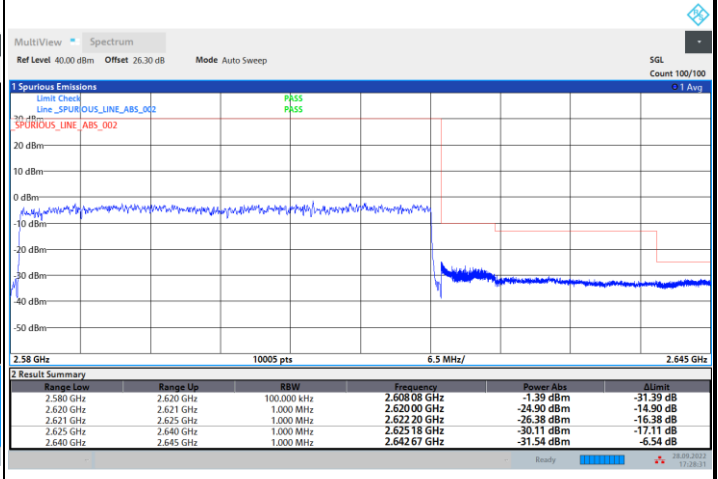
## FR1 n38 / 40MHz / CP OFDM / 64QAM

### Lowest Band Edge / Full RB



17:25:22 28.09.2022

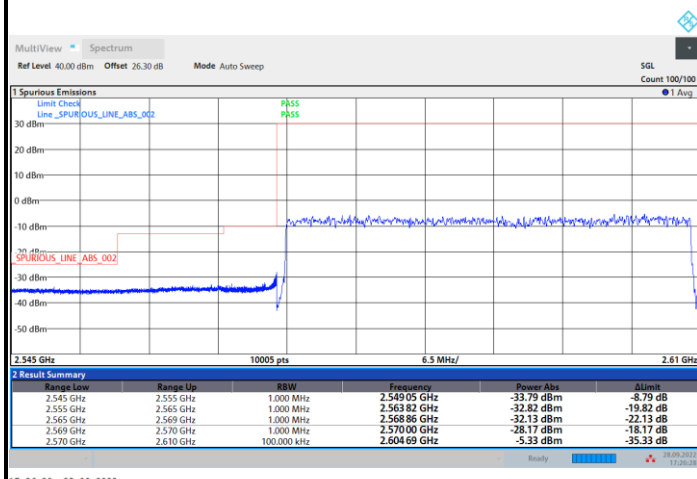
### Highest Band Edge / Full RB



17:28:32 28.09.2022

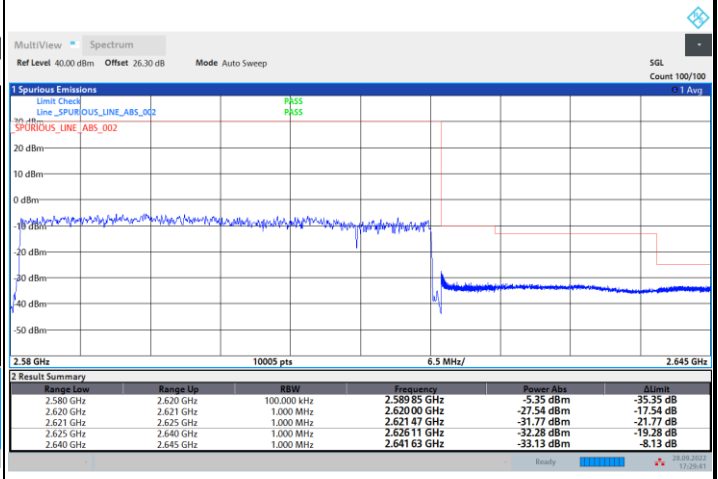
## FR1 n38 / 40MHz / CP OFDM / 256QAM

### Lowest Band Edge / Full RB



17:26:29 28.09.2022

### Highest Band Edge / Full RB



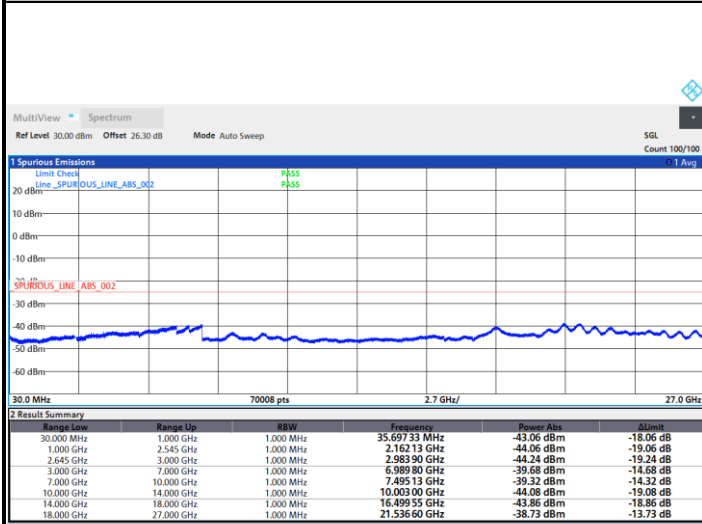
17:29:41 28.09.2022



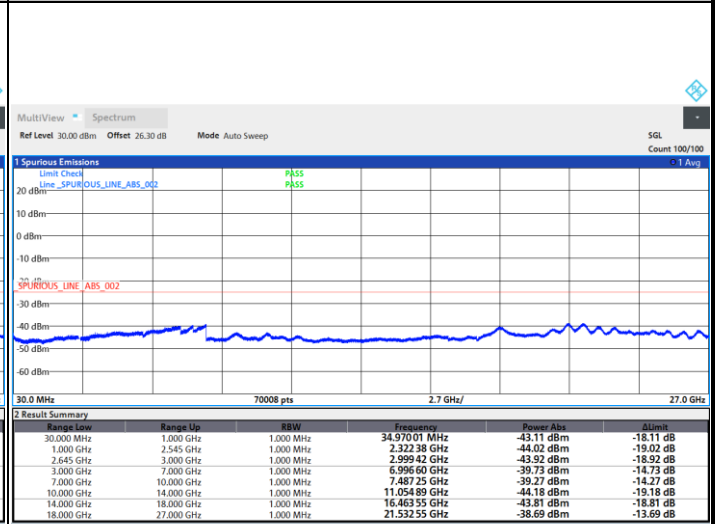
# Conducted Spurious Emission

FR1 n38 / 10MHz / CP OFDM / QPSK / 1RB1

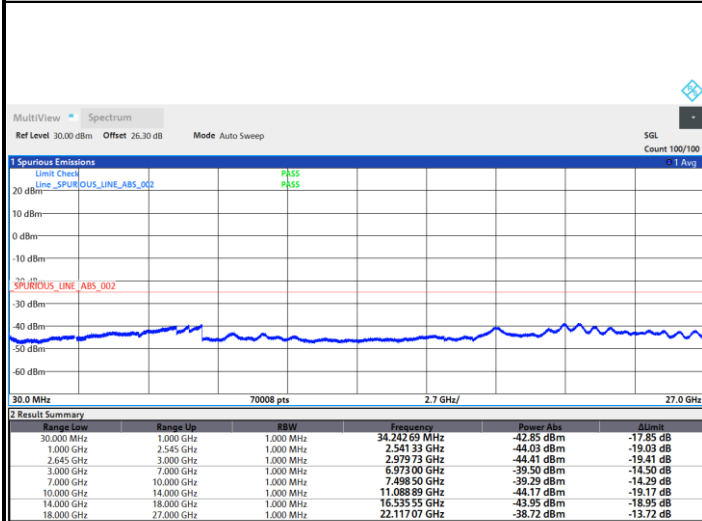
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n38 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|---------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 20MHz                        | Note 2. |
|                     |                   | Deviation (ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0007                          | PASS    |
| 40                  | Normal Voltage    | 0.0045                          |         |
| 30                  | Normal Voltage    | 0.0025                          |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                          |         |
| 10                  | Normal Voltage    | 0.0013                          |         |
| 0                   | Normal Voltage    | 0.0003                          |         |
| -10                 | Normal Voltage    | 0.0047                          |         |
| -20                 | Normal Voltage    | 0.0015                          |         |
| -30                 | Normal Voltage    | 0.0020                          |         |
| 20                  | Maximum Voltage   | 0.0023                          |         |
| 20                  | Normal Voltage    | 0.0000                          |         |
| 20                  | Battery End Point | 0.0005                          |         |

**Note:**

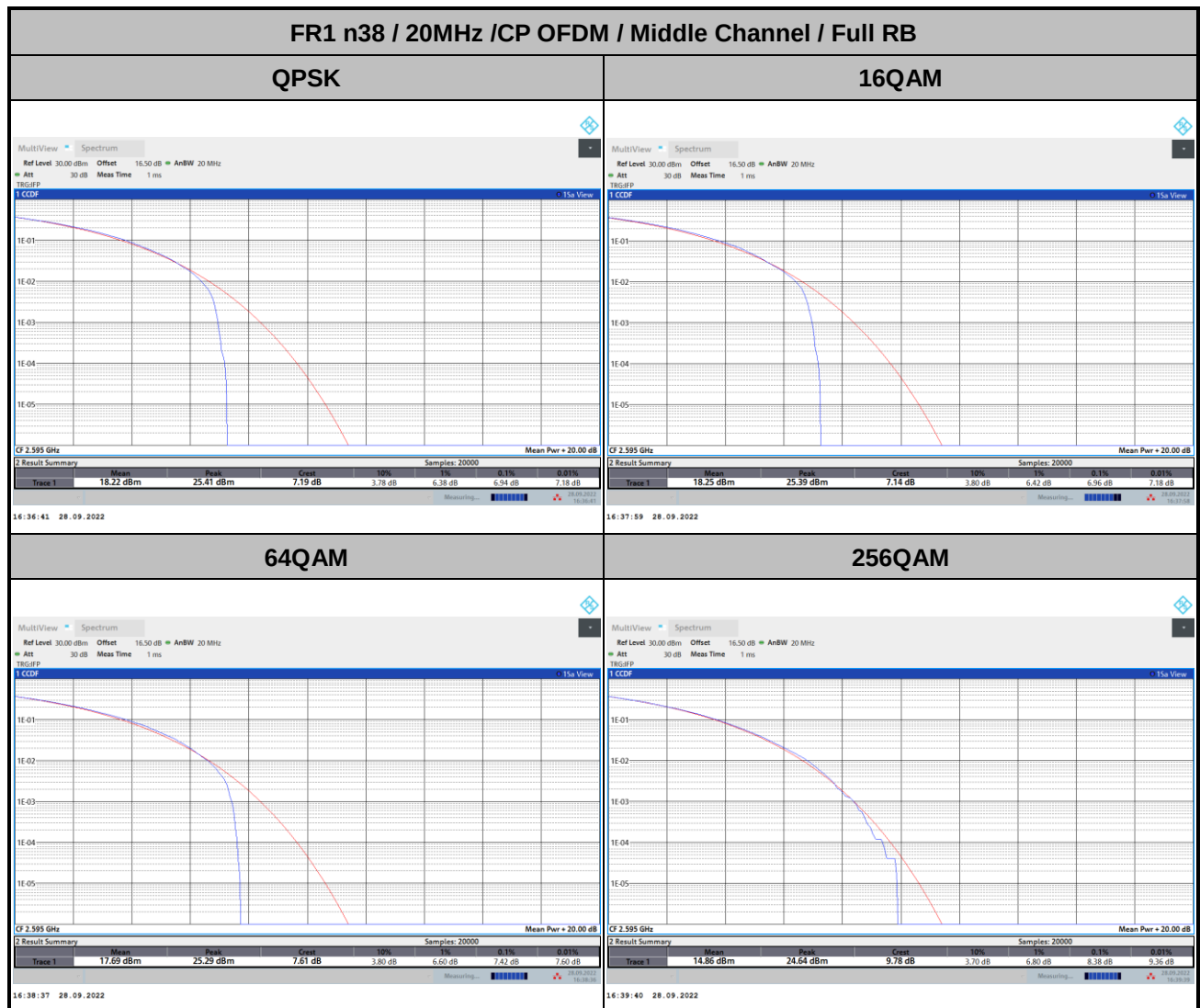
1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## MIMO &lt;Ant. 2&gt;

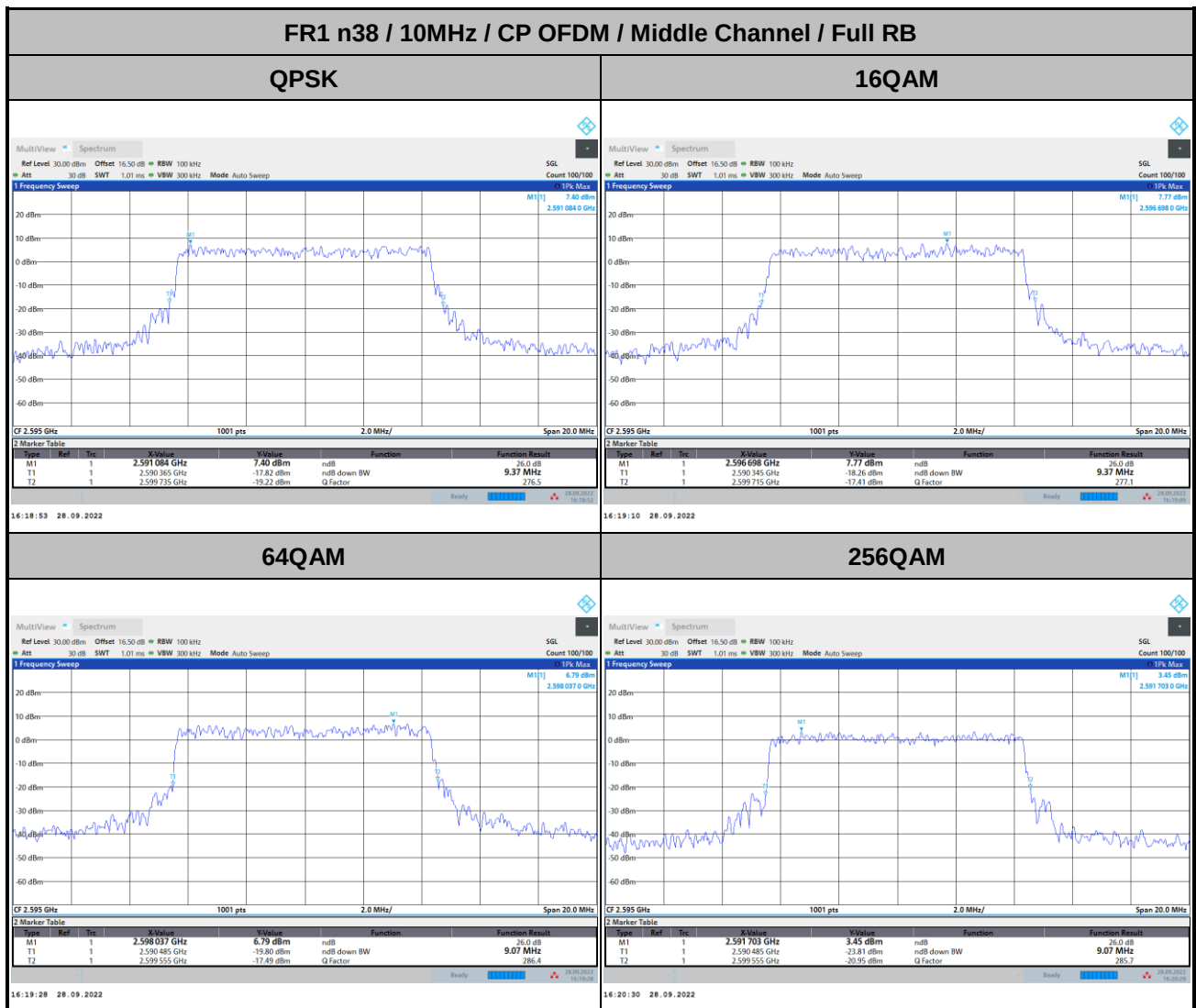
## Peak-to-Average Ratio

| Mode      | FR1 n38 / 20MHz / CP OFDM |         |         |         |             |
|-----------|---------------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                      | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB                   | Full RB | Full RB | Full RB | Result      |
| Middle CH | 6.94                      | 6.96    | 7.42    | 8.38    | PASS        |



**26dB Bandwidth**

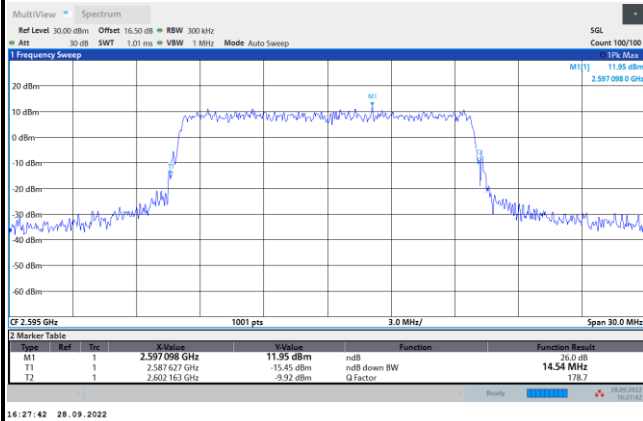
| Mode      | FR1 n38 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |       |        |
|-----------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 10MHz                            |        | 15MHz |        | 20MHz |        | 25MHz |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 9.37                             | 9.37   | 14.54 | 14.48  | 19.30 | 19.02  | -     | -      |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 9.07                             | 9.07   | 14.60 | 14.48  | 19.42 | 19.34  | -     | -      |
| BW        | 30MHz                            |        | 40MHz |        |       |        |       |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  |       |        |       |        |
| Middle CH | 29.13                            | 29.01  | 40.36 | 40.20  |       |        |       |        |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM |       |        |       |        |
| Middle CH | 28.89                            | 28.77  | 40.20 | 40.36  |       |        |       |        |



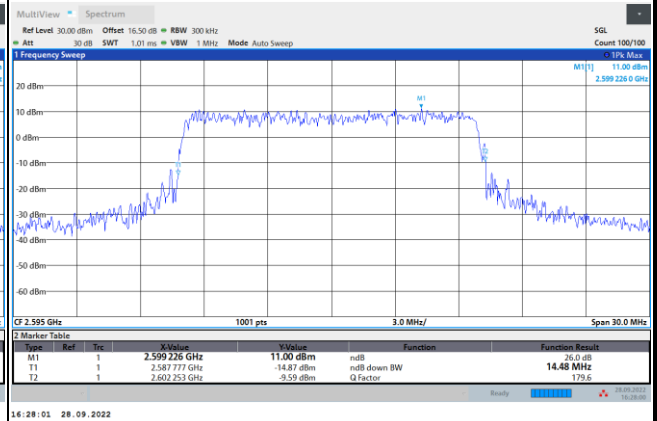


## FR1 n38 / 15MHz / CP OFDM / Middle Channel / Full RB

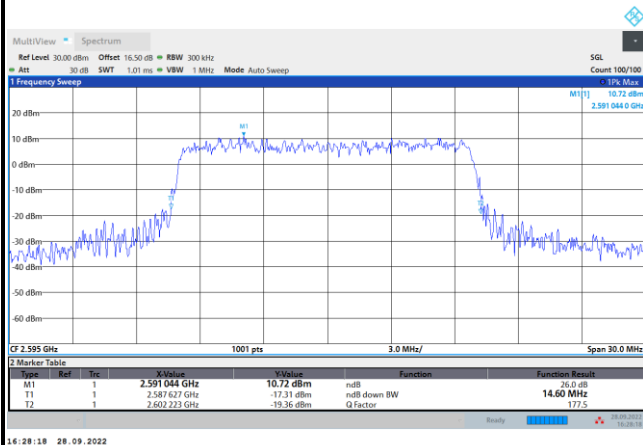
## QPSK



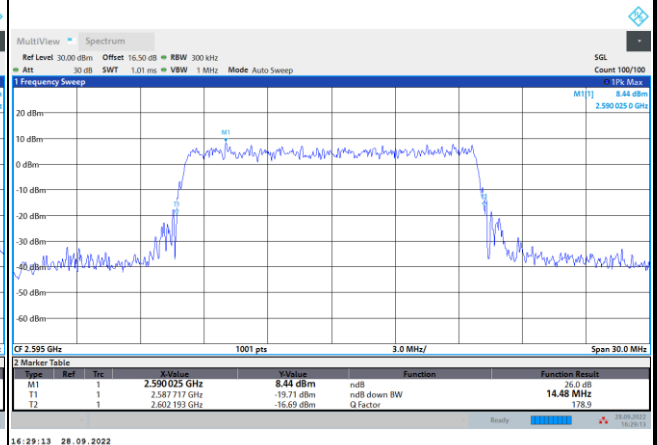
## 16QAM



## 64QAM



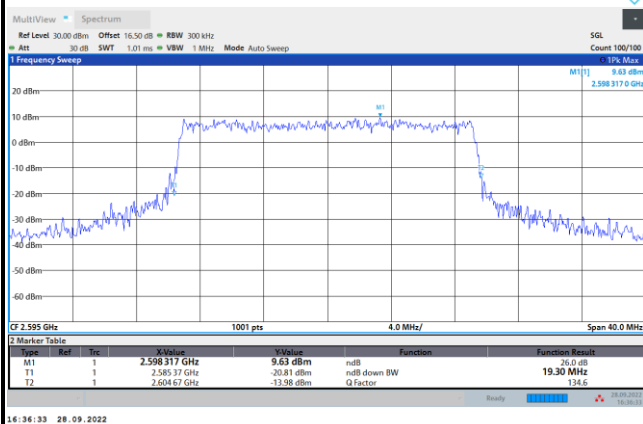
## 256QAM



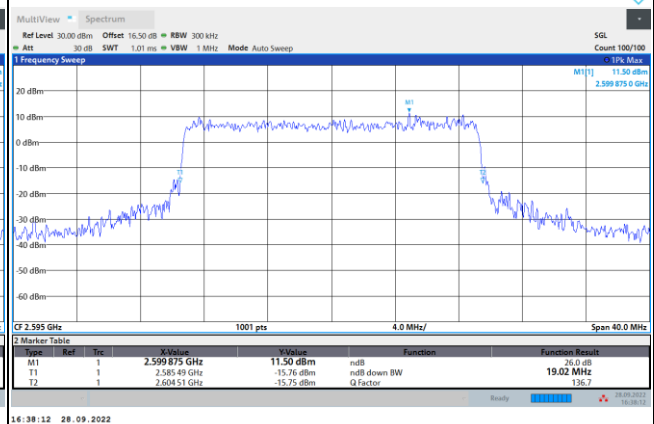


## FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

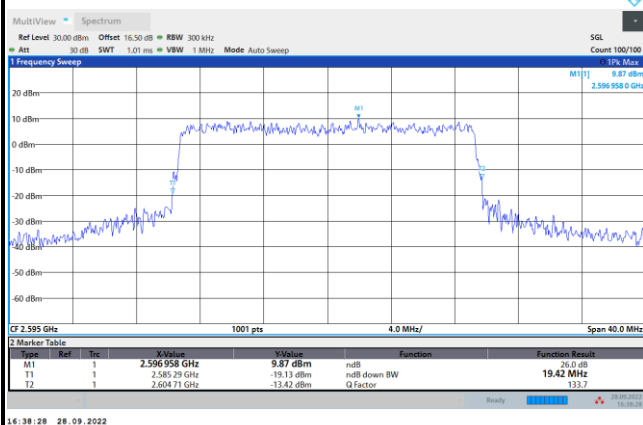
## QPSK



## 16QAM



## 64QAM



## 256QAM

