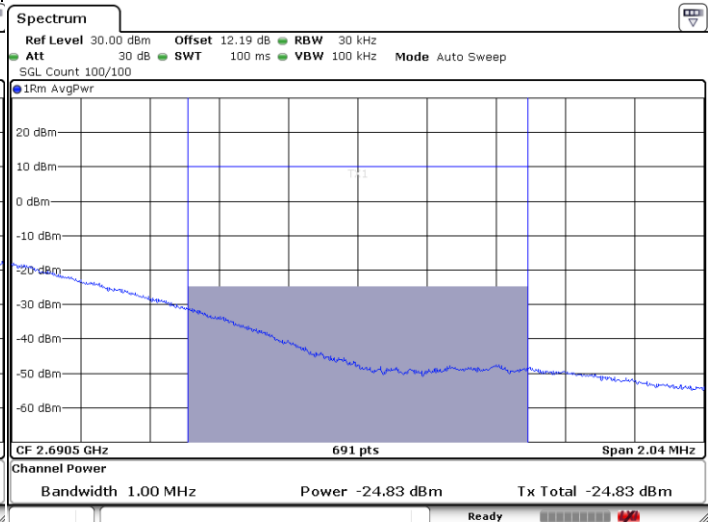
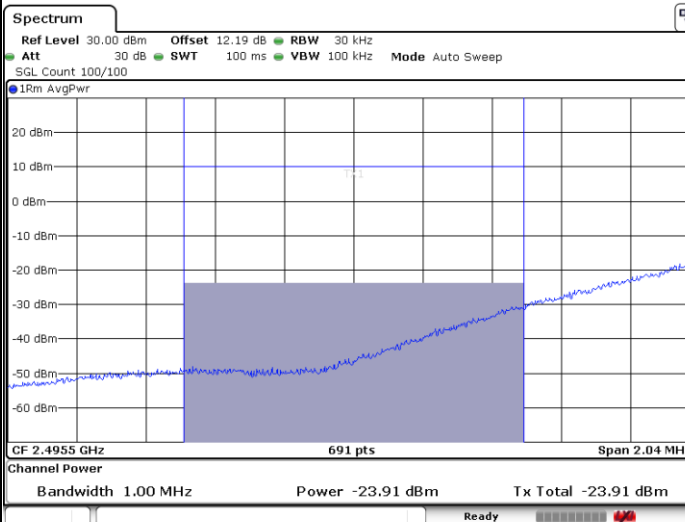
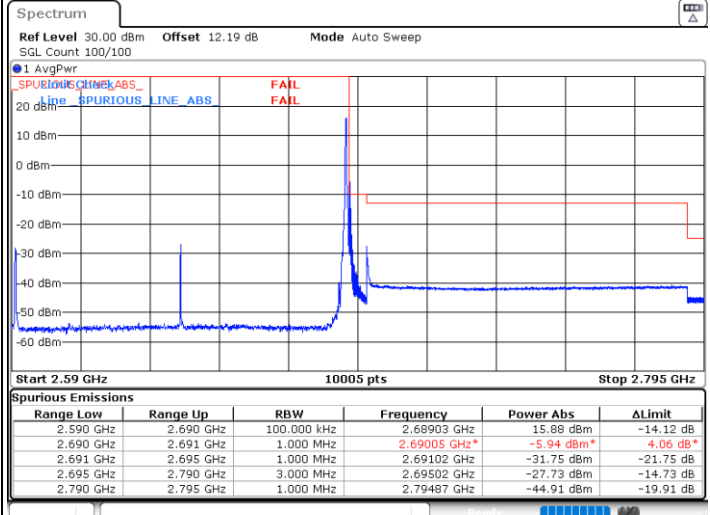
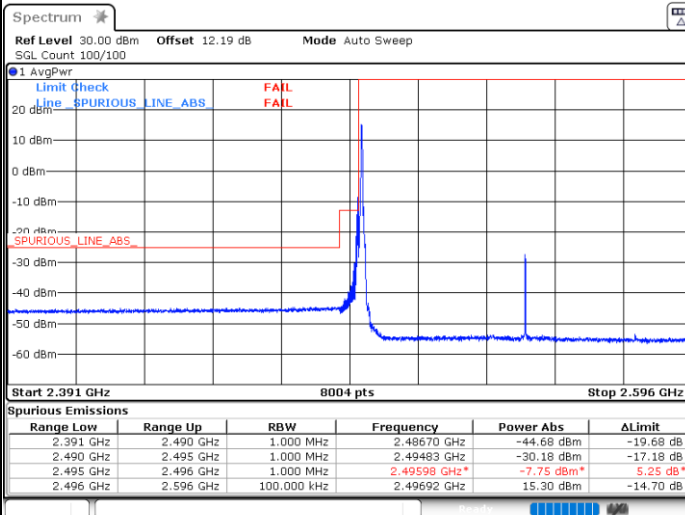




## FR1 n41 / 100MHz / DFT-S OFDM / QPSK

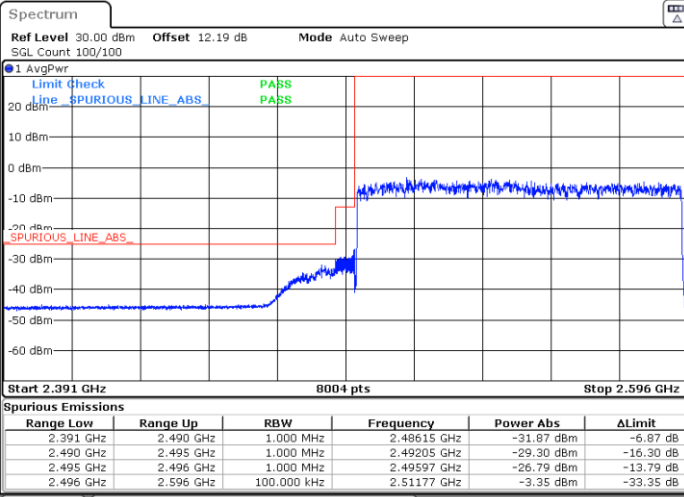
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



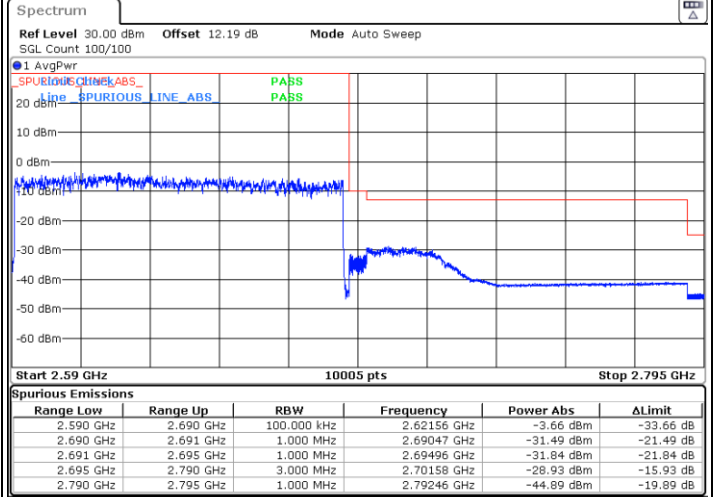


## Lowest Band Edge / Full RB



Date: 31.MAY.2022 00:17:07

## Highest Band Edge / Full RB



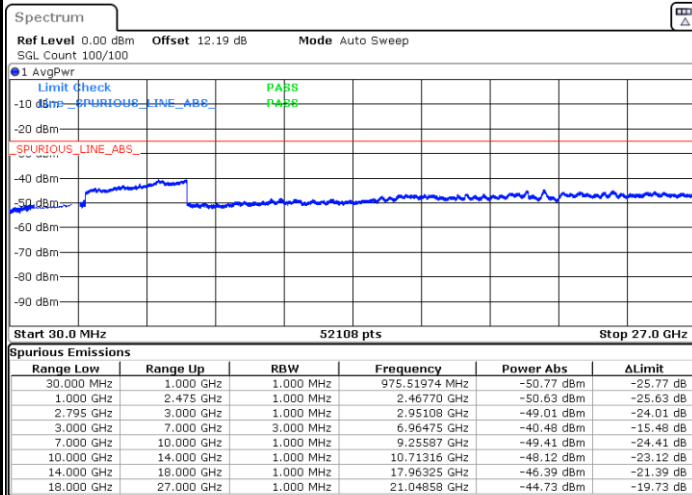
Date: 31.MAY.2022 00:17:36



# Conducted Spurious Emission

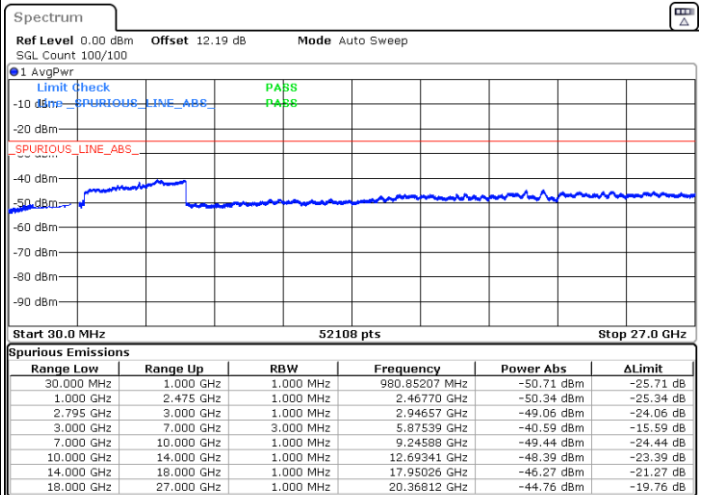
## FR1 n41 / 20MHz / DFT-S OFDM / BPSK

### Lowest Channel / 1RB1



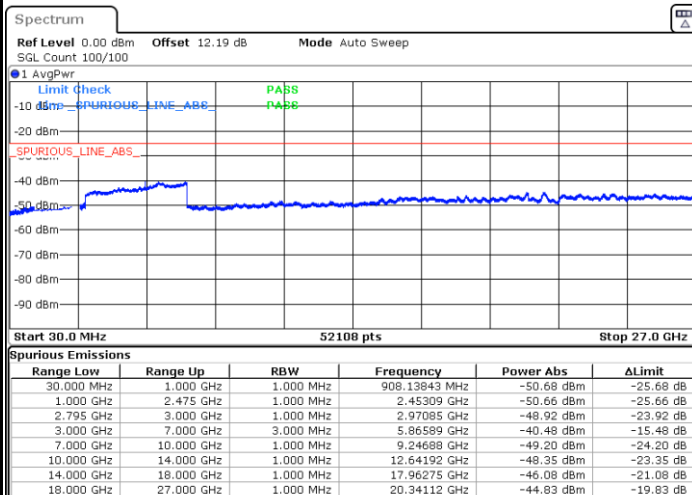
Date: 30.MAY.2022 23:33:30

### Middle Channel / 1RB1



Date: 30.MAY.2022 23:35:28

### Highest Channel / 1RB1



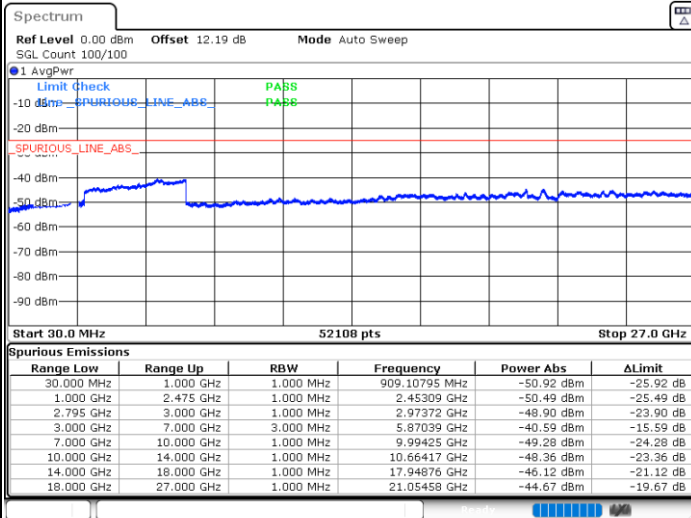
Date: 30.MAY.2022 23:38:59



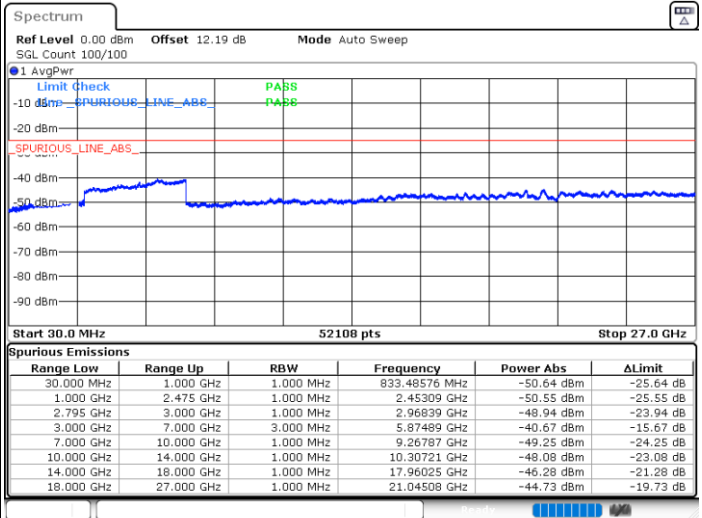
## FR1 n41 / 20MHz / DFT-S OFDM /QPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1

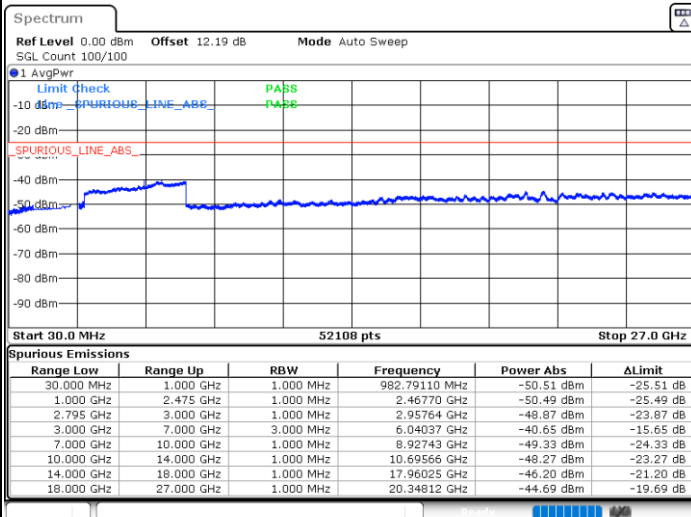


Date: 30.MAY.2022 23:31:00



Date: 30.MAY.2022 23:36:34

## Highest Channel / 1RB1



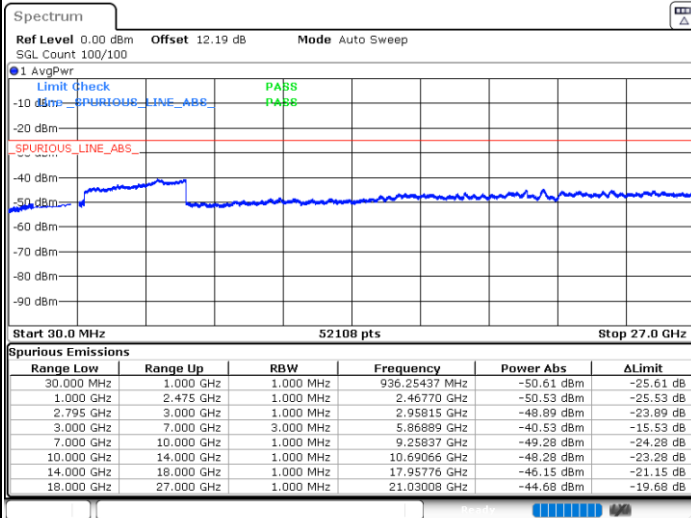
Date: 30.MAY.2022 23:37:42



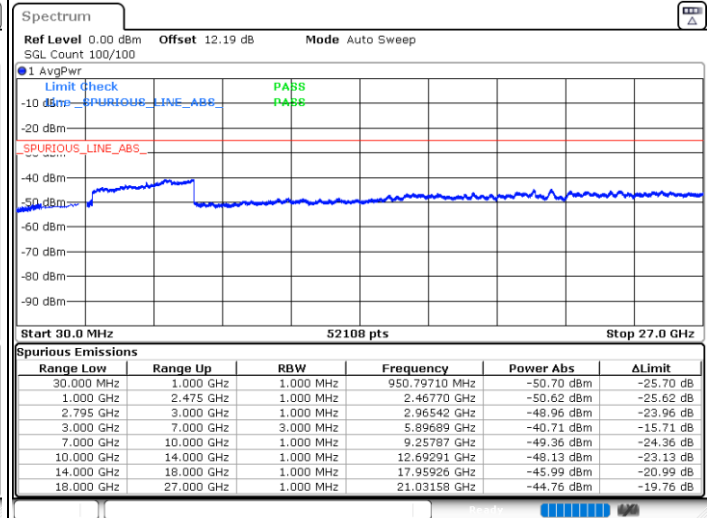
## FR1 n41 /60MHz / DFT-S OFDM / BPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1

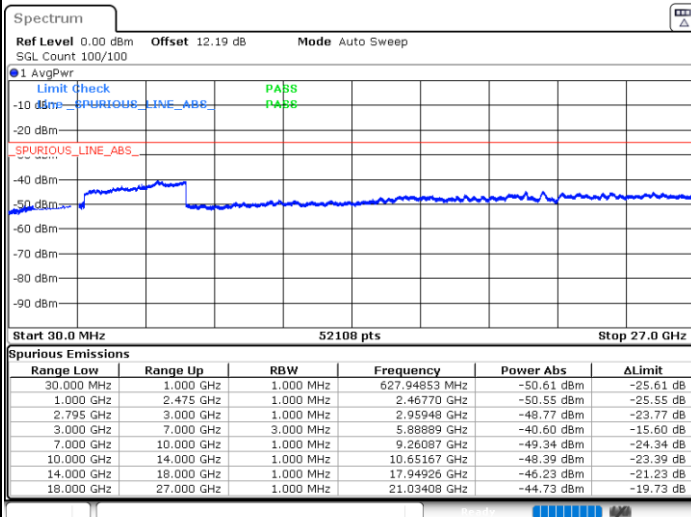


Date: 30.MAY.2022 23:54:11



Date: 30.MAY.2022 23:49:24

## Highest Channel / 1RB1



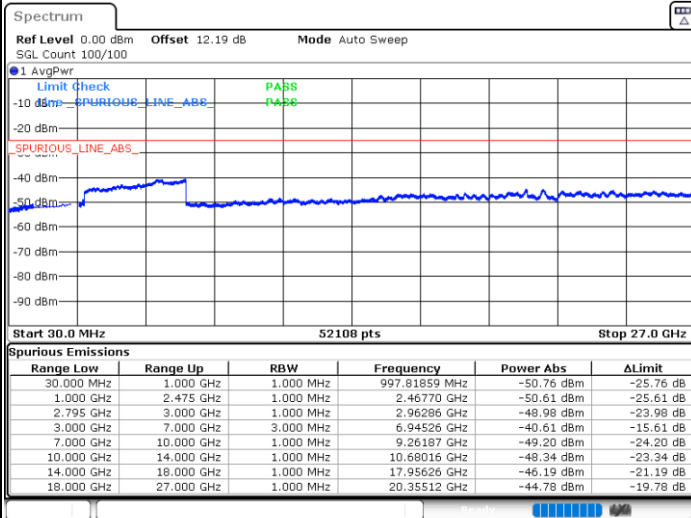
Date: 31.MAY.2022 00:03:02



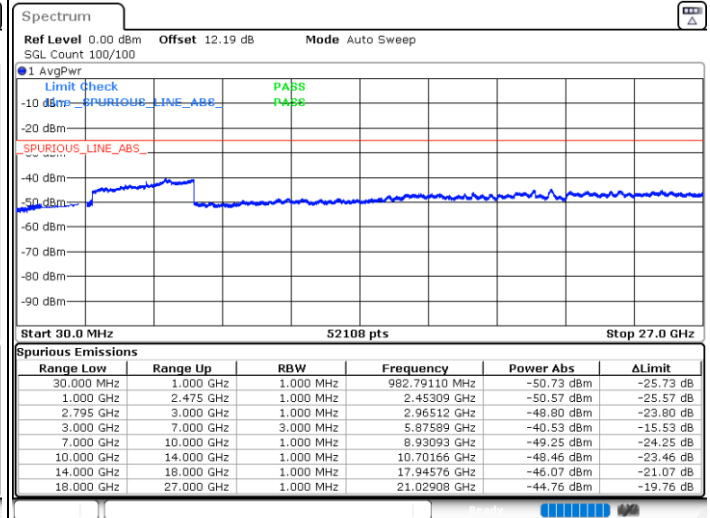
## FR1 n41 /60MHz / DFT-S OFDM /QPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1

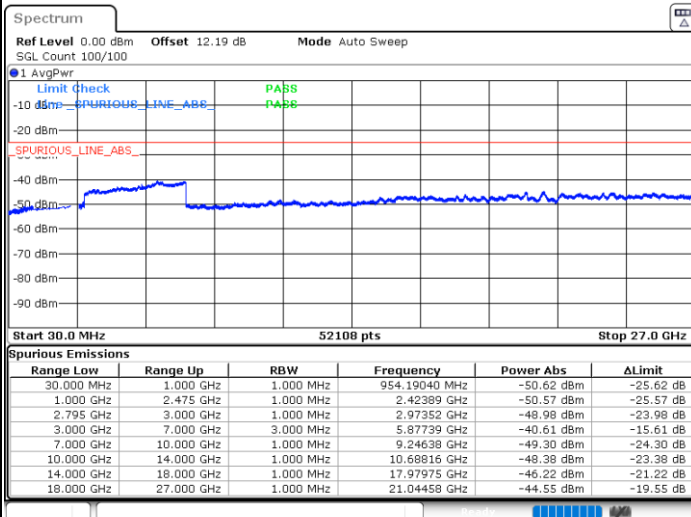


Date: 30.MAY.2022 23:51:43



Date: 30.MAY.2022 23:50:27

## Highest Channel / 1RB1



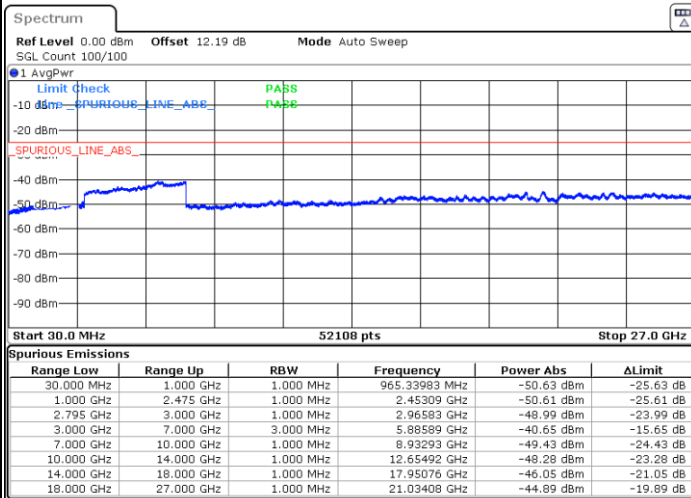
Date: 31.MAY.2022 00:01:19



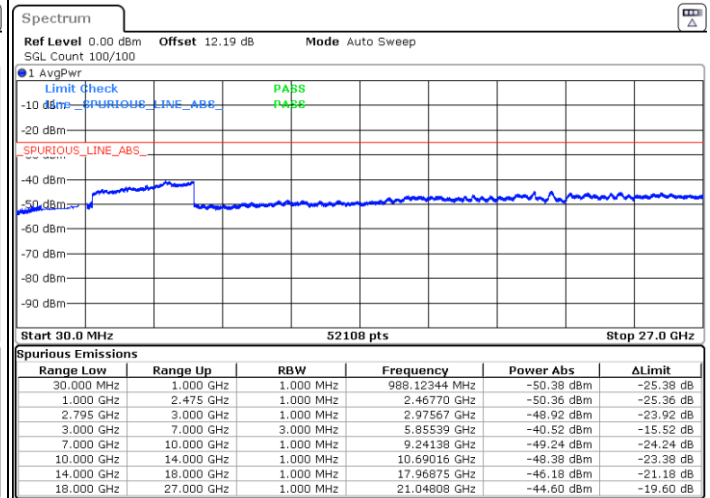
## FR1 n41 /100MHz / DFT-S OFDM / BPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1

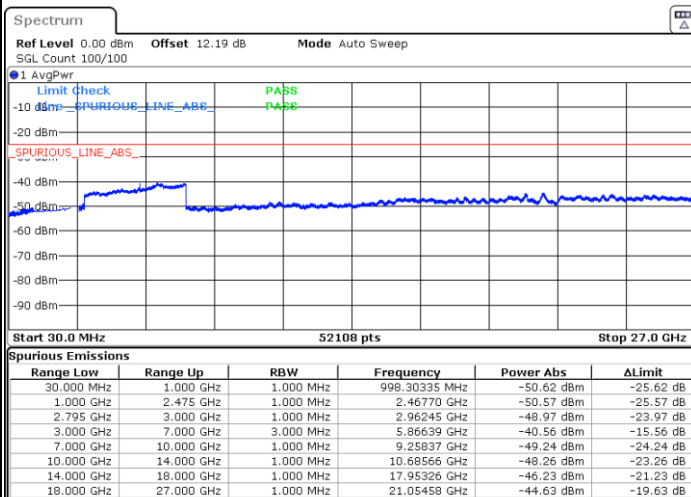


Date: 31.MAY.2022 00:16:04



Date: 31.MAY.2022 00:10:57

## Highest Channel / 1RB1



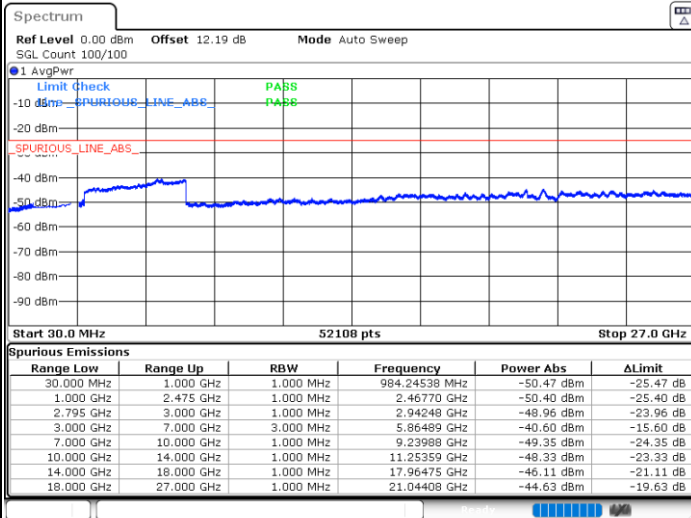
Date: 31.MAY.2022 00:19:07



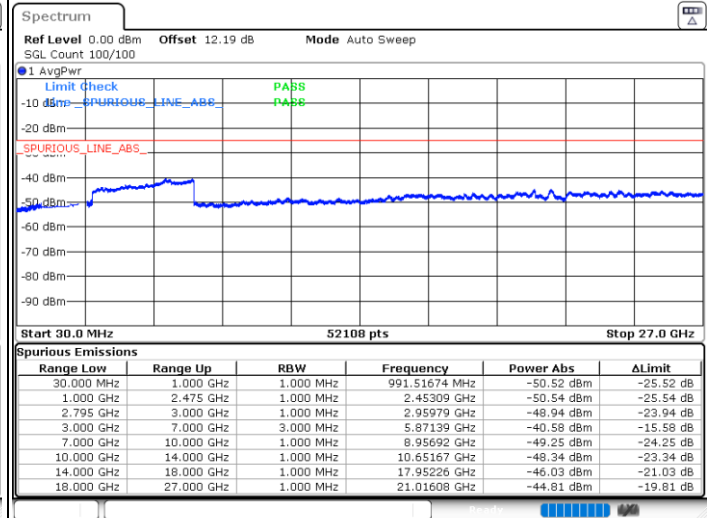
## FR1 n41 /100MHz / DFT-S OFDM /QPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1

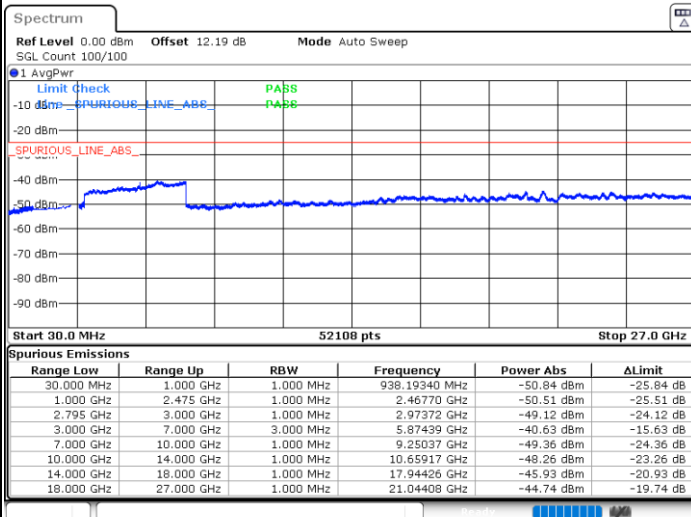


Date: 31.MAY.2022 00:13:53



Date: 31.MAY.2022 00:12:42

## Highest Channel / 1RB1



Date: 31.MAY.2022 00:21:03

## Frequency Stability

| Test Conditions  |                   | FR1 n41 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 20MHz                        | Note 2. |
|                  |                   | Deviation (ppm)                 | Result  |
| 50               | Normal Voltage    | 0.0041                          | PASS    |
| 40               | Normal Voltage    | 0.0029                          |         |
| 30               | Normal Voltage    | 0.0035                          |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |         |
| 10               | Normal Voltage    | 0.0020                          |         |
| 0                | Normal Voltage    | 0.0031                          |         |
| -10              | Normal Voltage    | 0.0046                          |         |
| -20              | Normal Voltage    | 0.0011                          |         |
| -30              | Normal Voltage    | 0.0010                          |         |
| 20               | Maximum Voltage   | 0.0035                          |         |
| 20               | Normal Voltage    | 0.0026                          |         |
| 20               | Battery End Point | 0.0031                          |         |

**Note:**

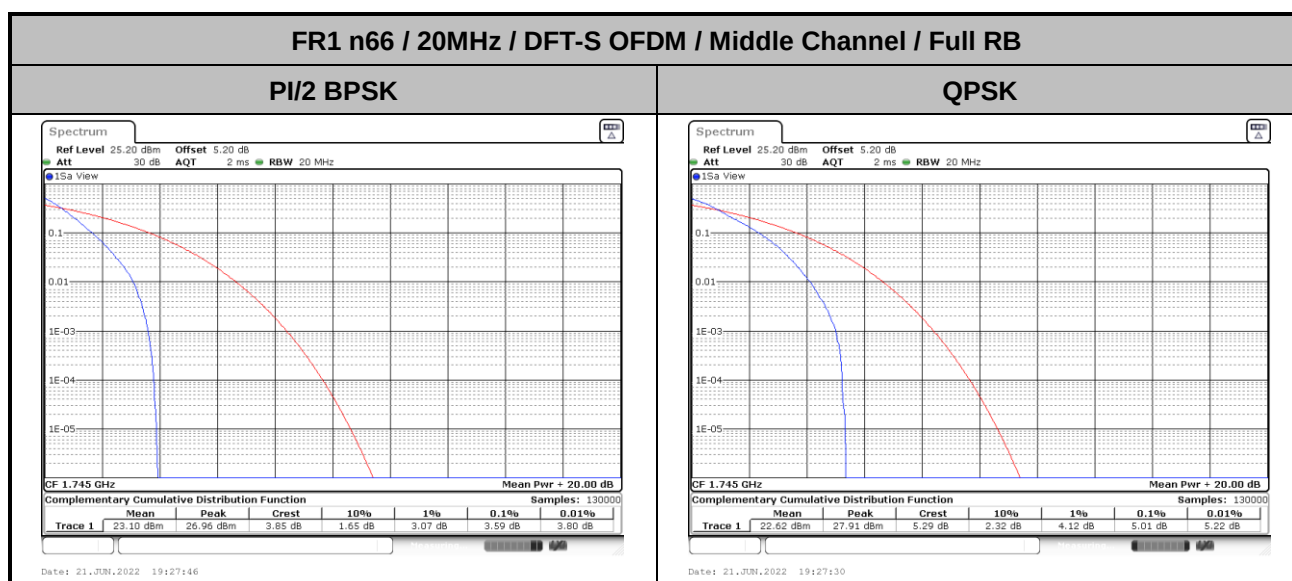
3. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
4. Note: The frequency fundamental emissions stay within the authorized frequency block.



## FR1 n66

## Peak-to-Average Ratio

| Mode      | FR1 n66 / 20MHz / DFT-S OFDM |         |  |  |             |
|-----------|------------------------------|---------|--|--|-------------|
| Mod.      | PI/2 BPSK                    | QPSK    |  |  | Limit: 13dB |
| RB Size   | Full RB                      | Full RB |  |  | Result      |
| Middle CH | 3.59                         | 5.01    |  |  | PASS        |





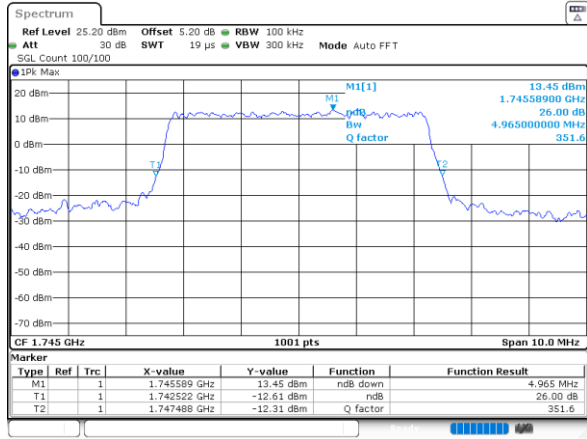
26dB Bandwidth

| Mode      | FR1 n66 : 26dBW (MHz) / CP OFDM |       |       |       |        |     |       |       |       |        |
|-----------|---------------------------------|-------|-------|-------|--------|-----|-------|-------|-------|--------|
| BW        | 5M                              |       |       |       |        | 10M |       |       |       |        |
| Mod.      |                                 | QPSK  | 16QAM | 64QAM | 256QAM |     | QPSK  | 16QAM | 64QAM | 256QAM |
| Middle CH |                                 | 4.97  | 4.94  | 4.93  | 4.88   |     | 10.17 | 10.11 | 10.11 | 10.07  |
| BW        | 15M                             |       |       |       |        | 20M |       |       |       |        |
| Mod.      |                                 | QPSK  | 16QAM | 64QAM | 256QAM |     | QPSK  | 16QAM | 64QAM | 256QAM |
| Middle CH |                                 | 14.87 | 14.90 | 14.87 | 14.87  |     | 21.22 | 21.22 | 21.30 | 21.18  |

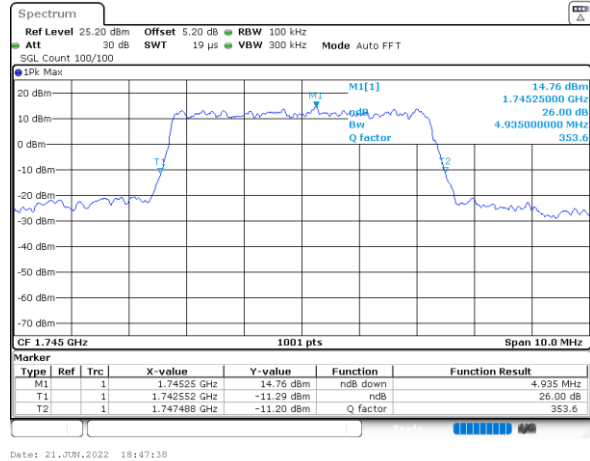


## FR1 n66 / 5MHz / CP OFDM

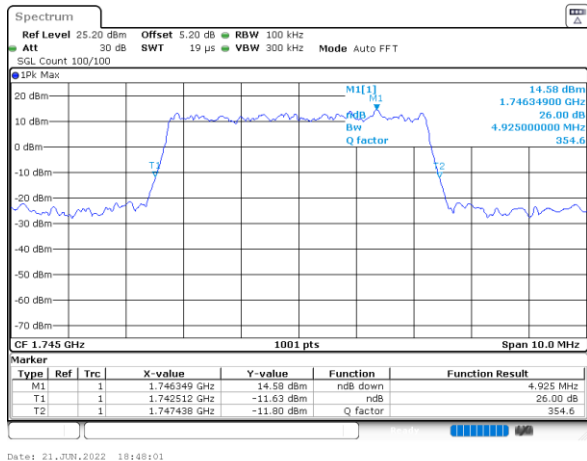
## QPSK



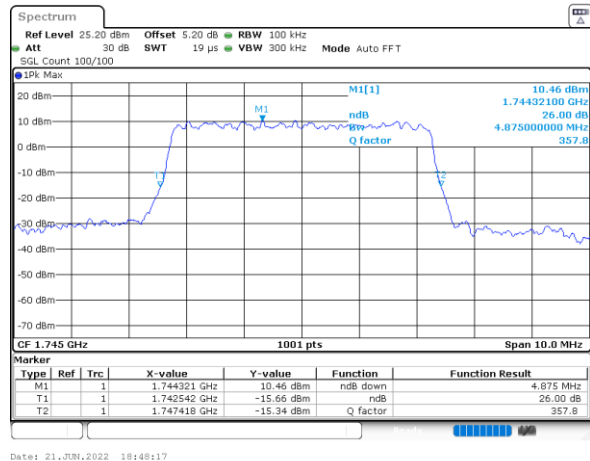
## 16QAM



## 64QAM



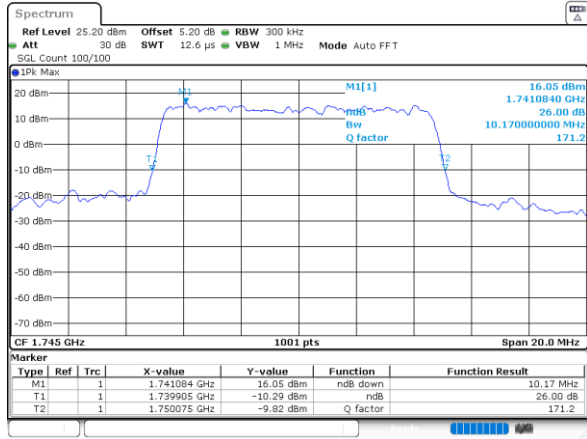
## 256QAM





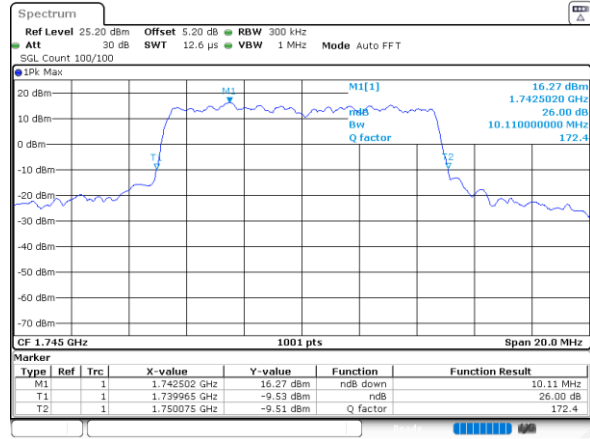
## FR1 n66 / 10MHz / CP OFDM

## QPSK



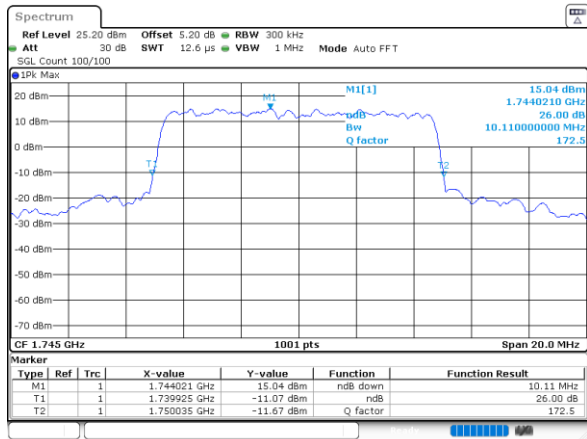
Date: 21.JUN.2022 19:12:47

## 16QAM



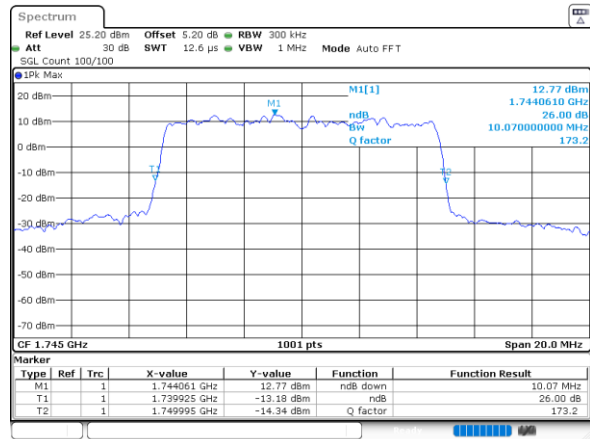
Date: 21.JUN.2022 19:13:32

## 64QAM



Date: 21.JUN.2022 19:14:05

## 256QAM

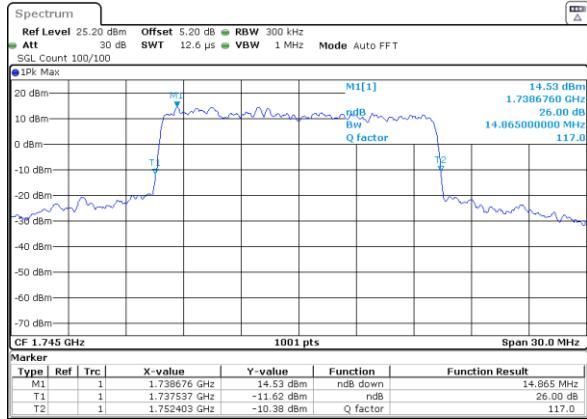


Date: 21.JUN.2022 19:14:31



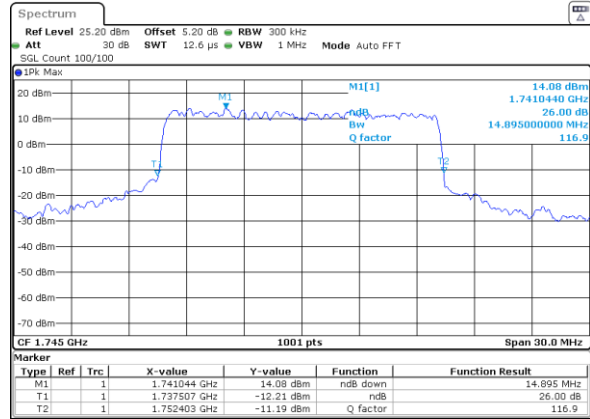
## FR1 n66 / 15MHz / CP OFDM

## QPSK



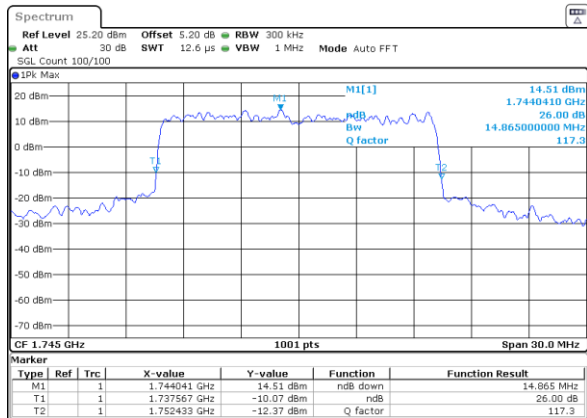
Date: 21.JUN.2022 19:22:01

## 16QAM



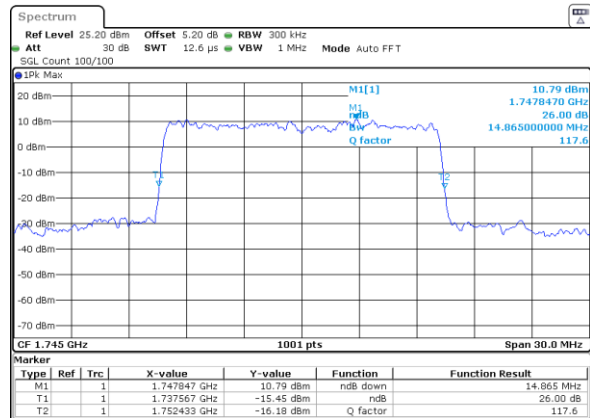
Date: 21.JUN.2022 19:22:20

## 64QAM



Date: 21.JUN.2022 19:22:42

## 256QAM

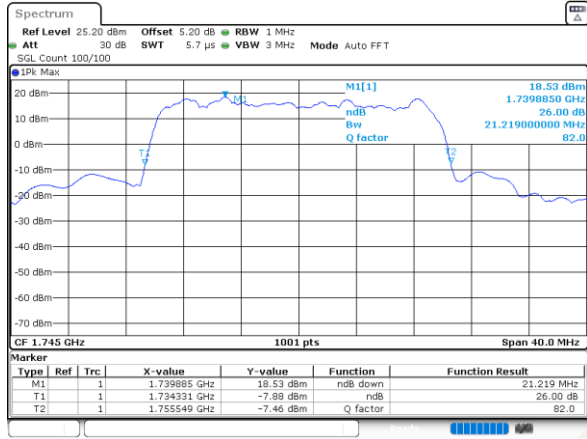


Date: 21.JUN.2022 19:23:03

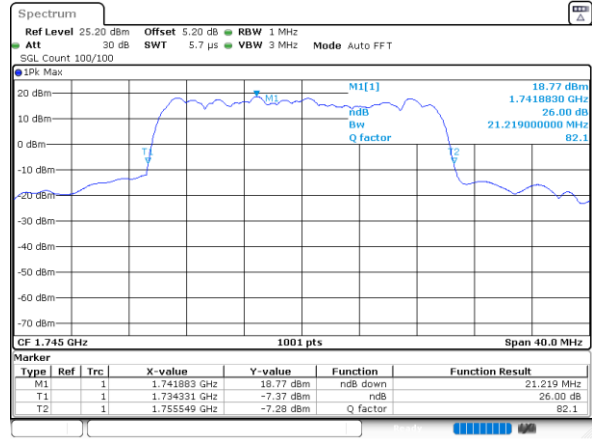


## FR1 n66 / 20MHz / CP OFDM

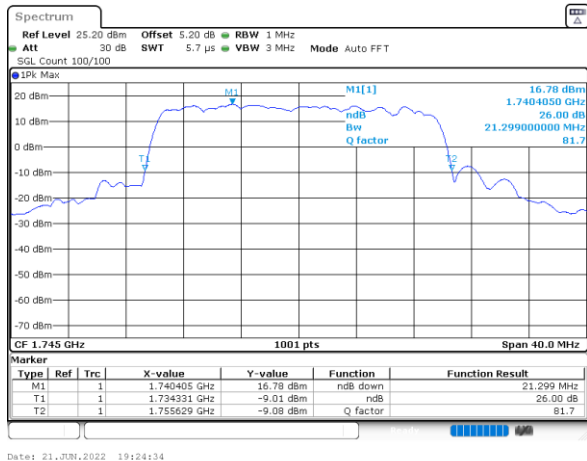
## QPSK



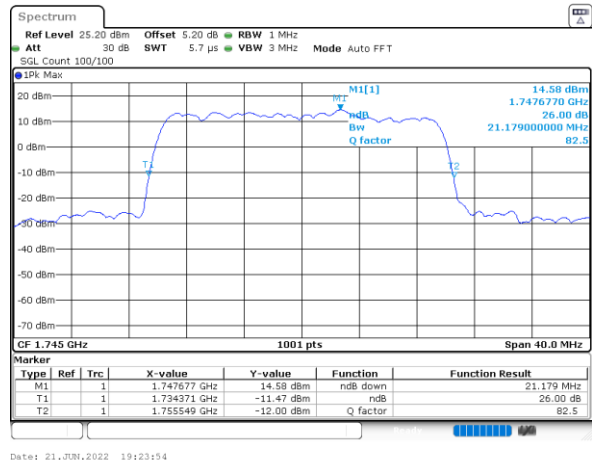
## 16QAM



## 64QAM



## 256QAM





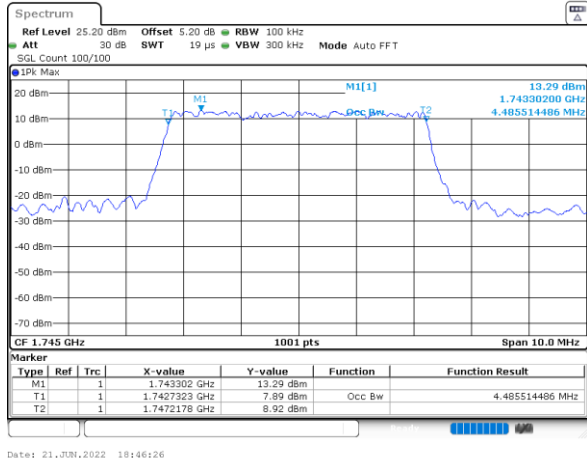
## Occupied Bandwidth

| Mode      | FR1 n66 : OB (MHz) / CP OFDM |       |       |       |        |     |       |       |       |        |
|-----------|------------------------------|-------|-------|-------|--------|-----|-------|-------|-------|--------|
| BW        | 5M                           |       |       |       |        | 10M |       |       |       |        |
| Mod.      |                              | QPSK  | 16QAM | 64QAM | 256QAM |     | QPSK  | 16QAM | 64QAM | 256QAM |
| Middle CH |                              | 4.49  | 4.48  | 4.48  | 4.48   |     | 9.37  | 9.31  | 9.33  | 9.45   |
| BW        | 15M                          |       |       |       |        | 20M |       |       |       |        |
| Mod.      |                              | QPSK  | 16QAM | 64QAM | 256QAM |     | QPSK  | 16QAM | 64QAM | 256QAM |
| Middle CH |                              | 14.18 | 14.12 | 14.15 | 14.12  |     | 19.42 | 19.59 | 19.34 | 19.30  |

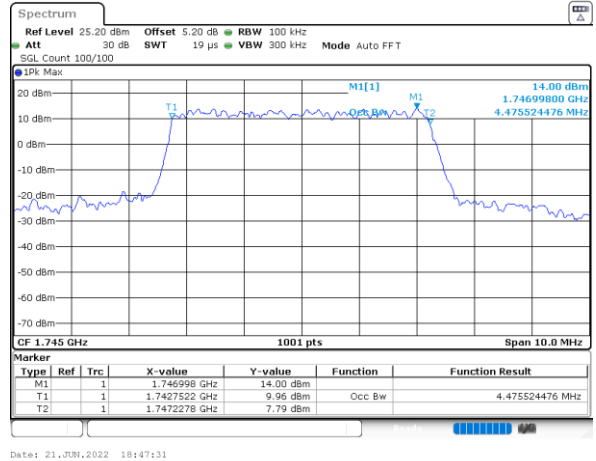


## FR1 n66 / 5MHz / CP OFDM

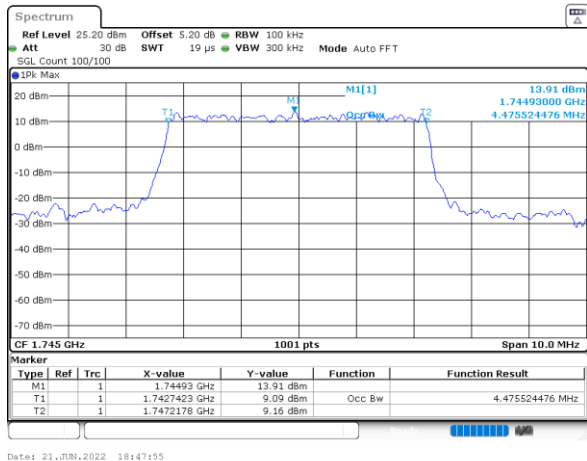
## QPSK



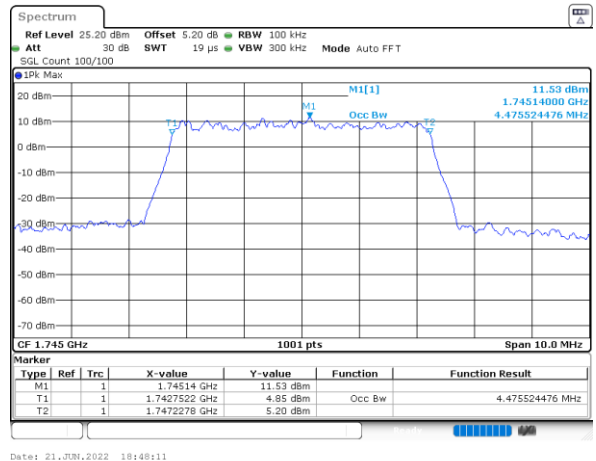
## 16QAM



## 64QAM



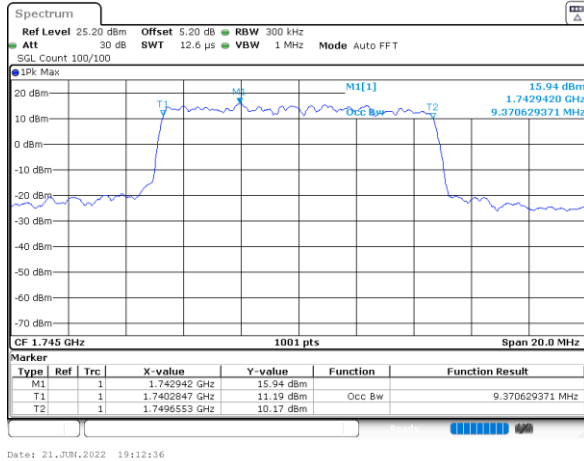
## 256QAM



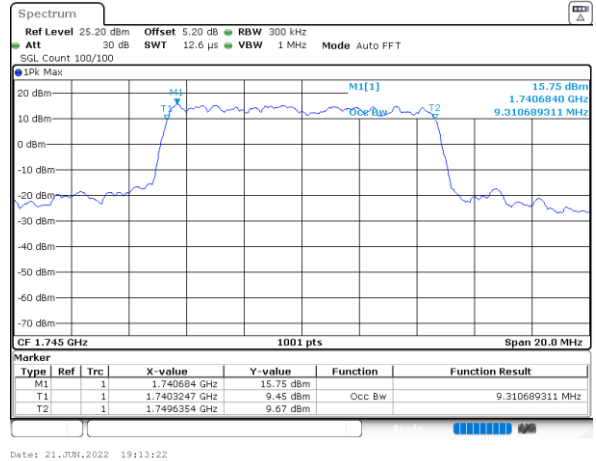


## FR1 n66 / 10MHz / CP OFDM

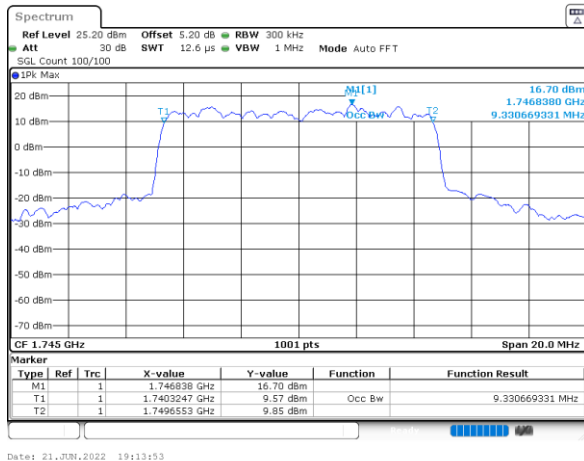
## QPSK



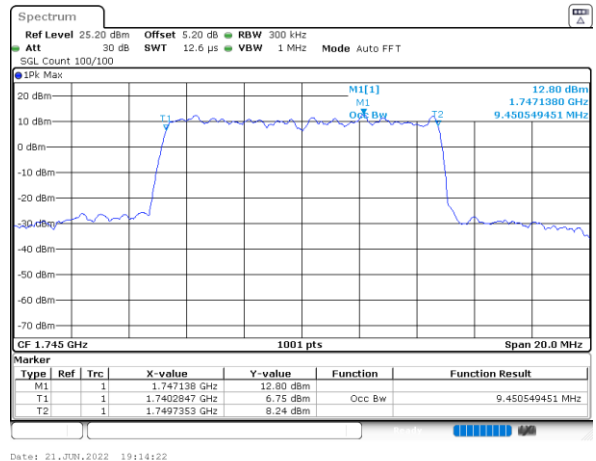
## 16QAM



## 64QAM



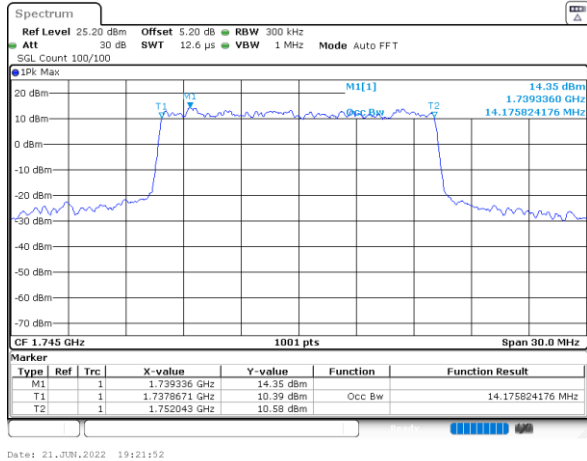
## 256QAM



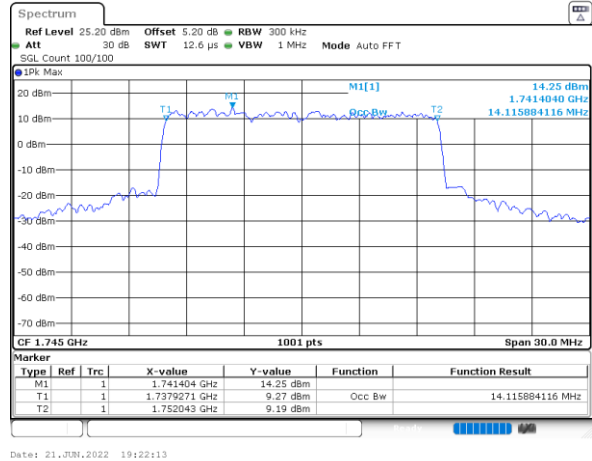


## FR1 n66 / 15MHz / CP OFDM

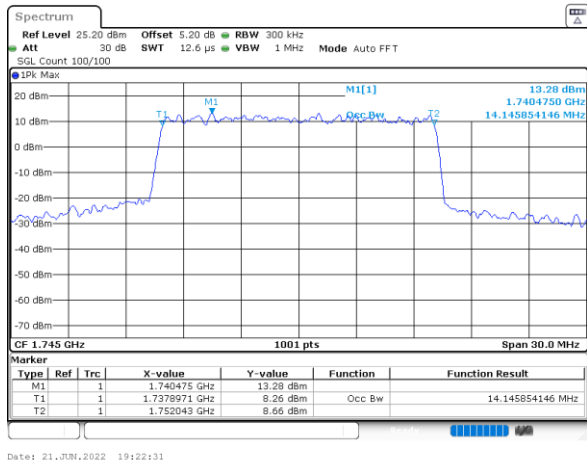
## QPSK



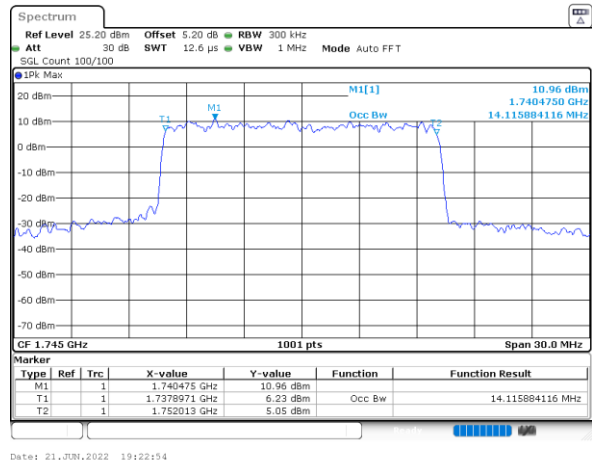
## 16QAM



## 64QAM



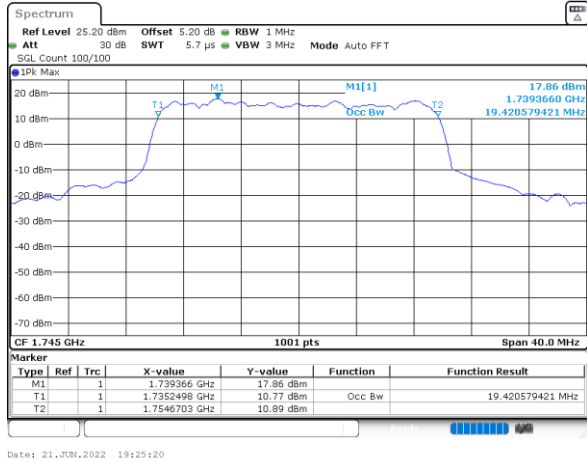
## 256QAM



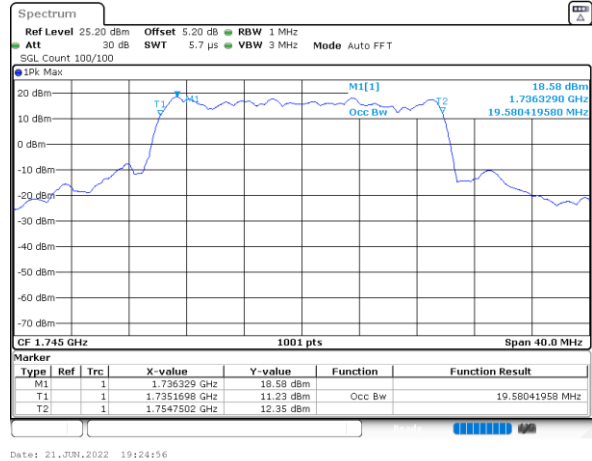


## FR1 n66 / 20MHz / CP OFDM

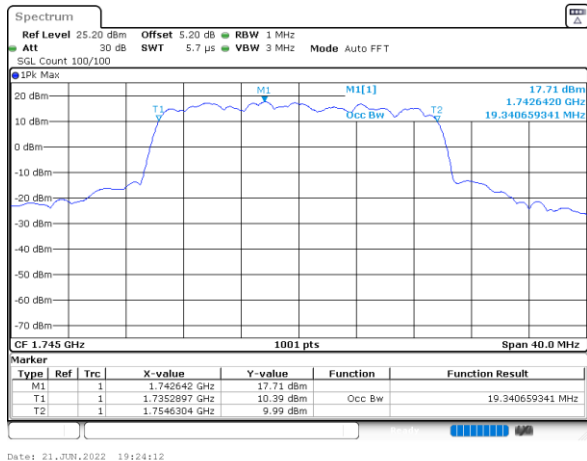
## QPSK



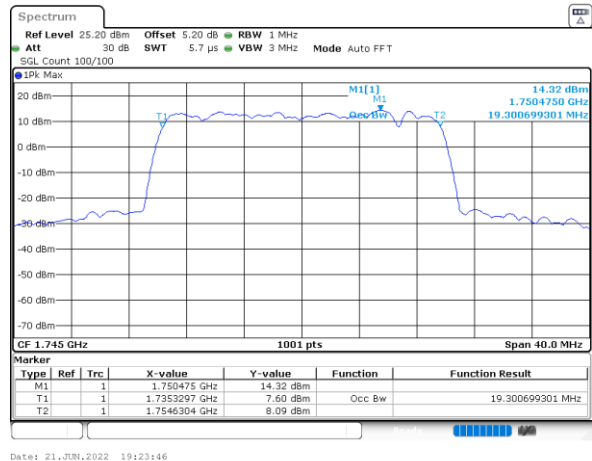
## 16QAM



## 64QAM



## 256QAM





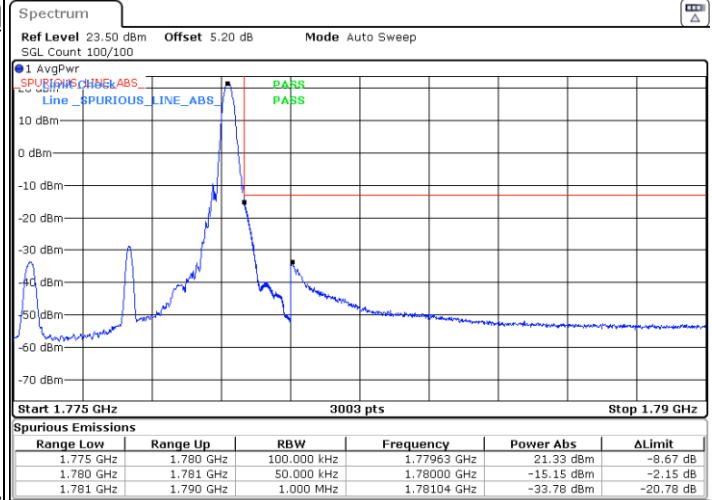
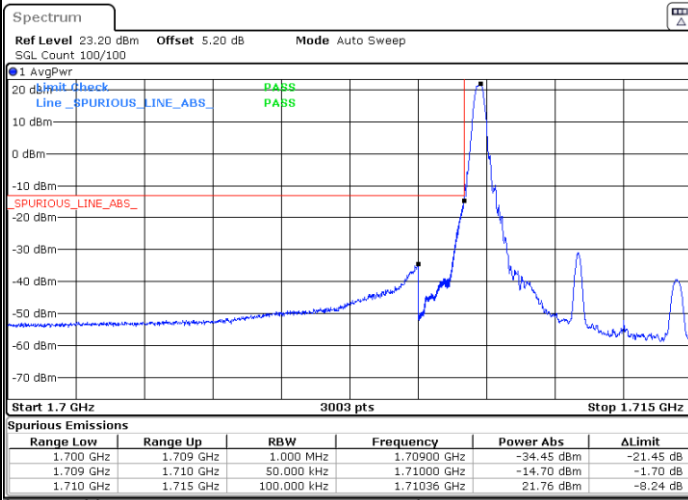
## **Conducted Band Edge**



## FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

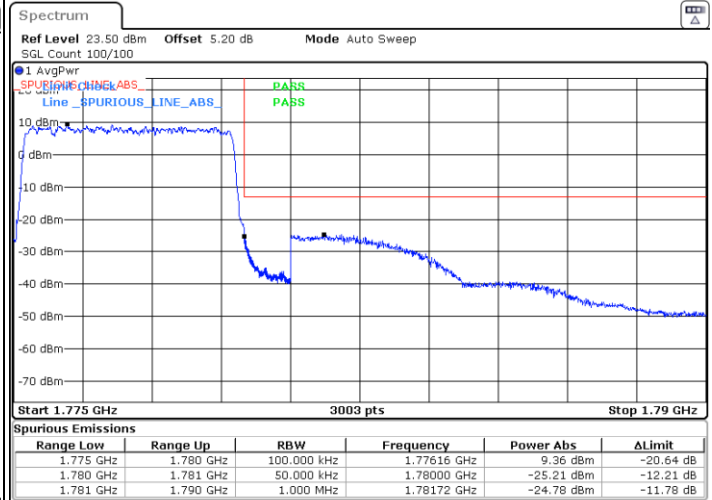
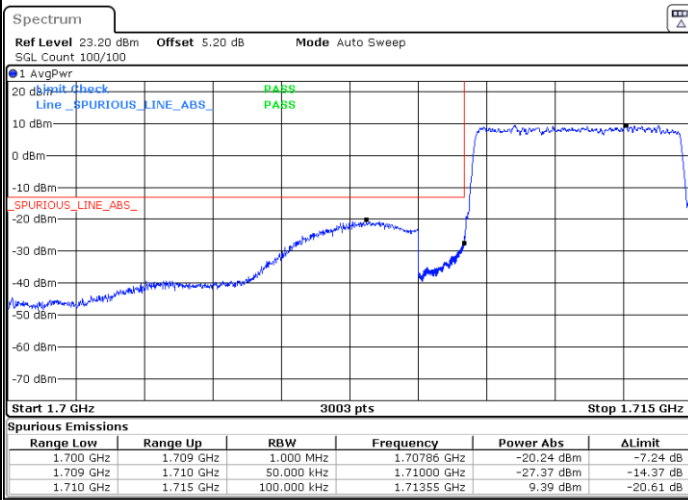
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

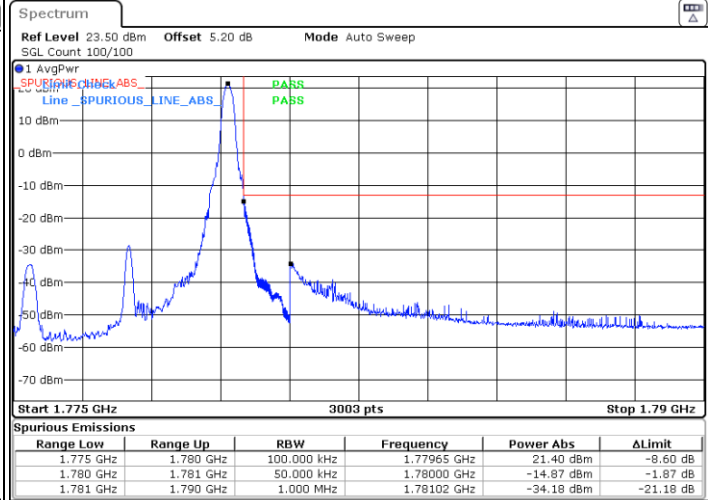
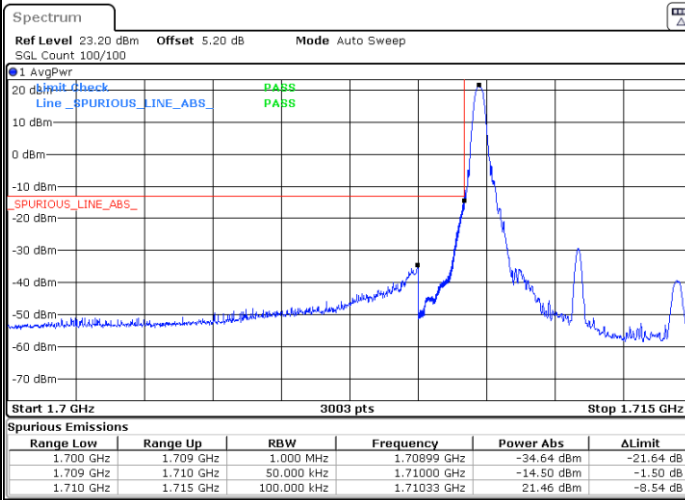




## FR1 n66 / 5MHz / DFT-S OFDM / QPSK

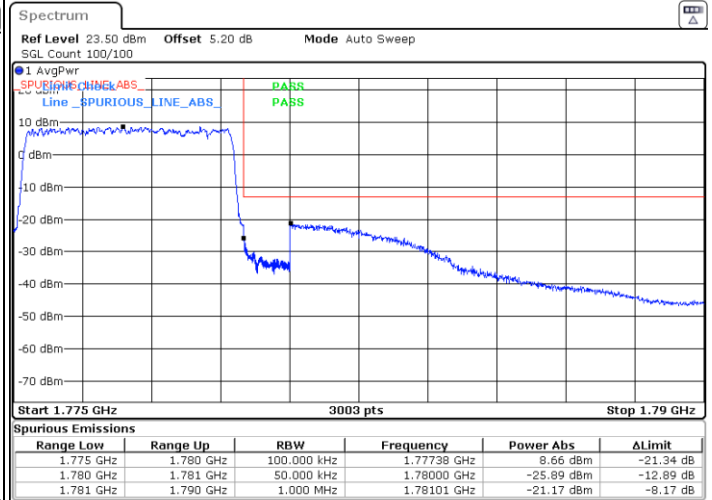
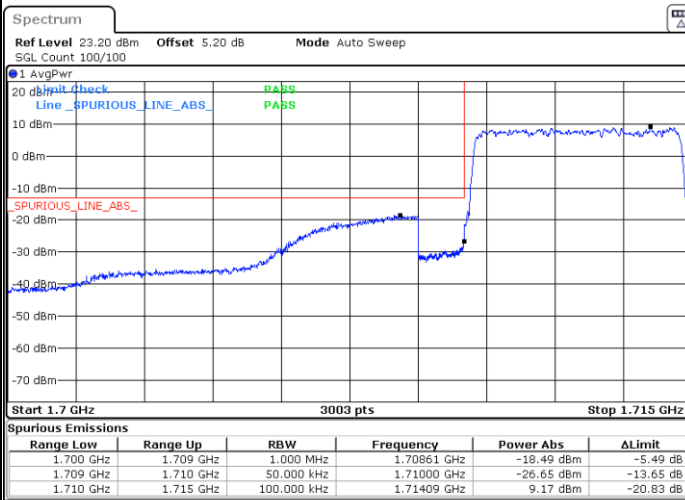
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

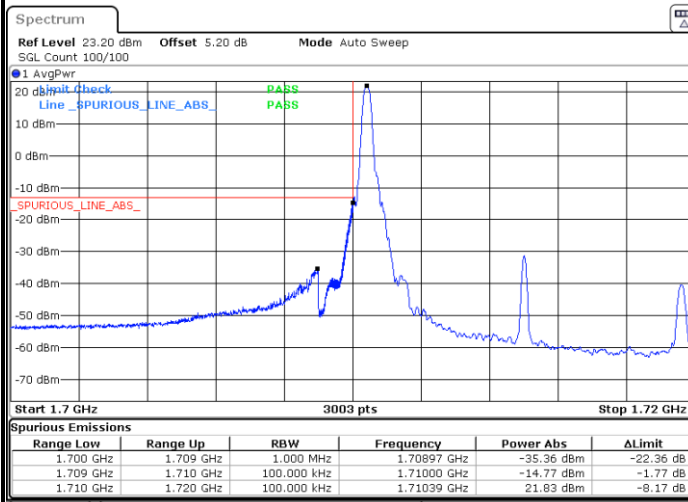
## Highest Band Edge / Full RB



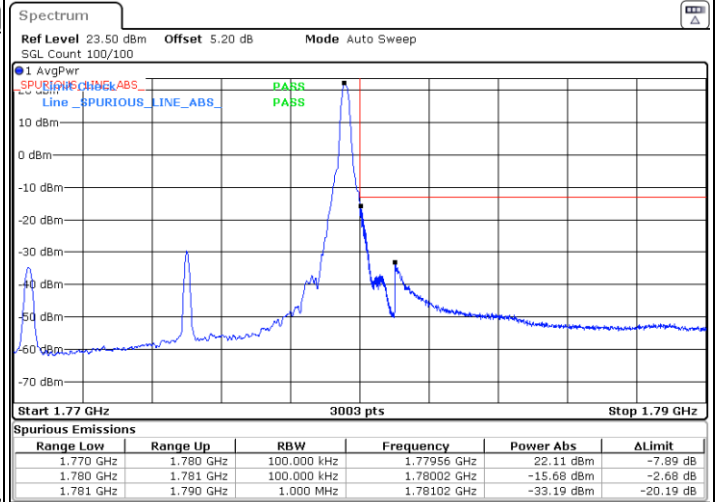


## FR1 n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK

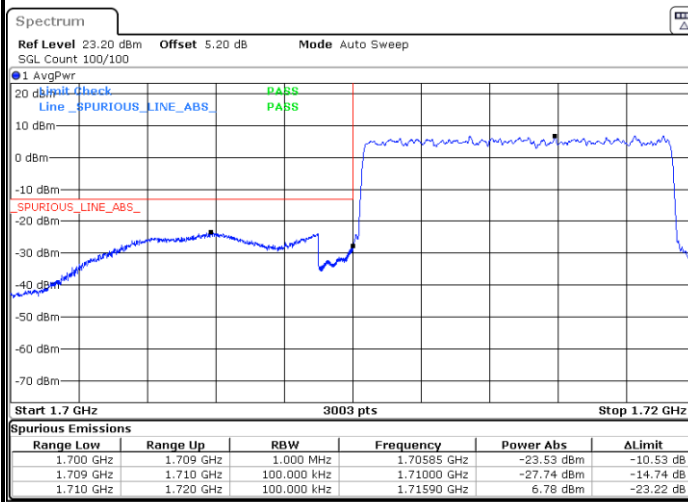
## Lowest Band Edge / 1RB0



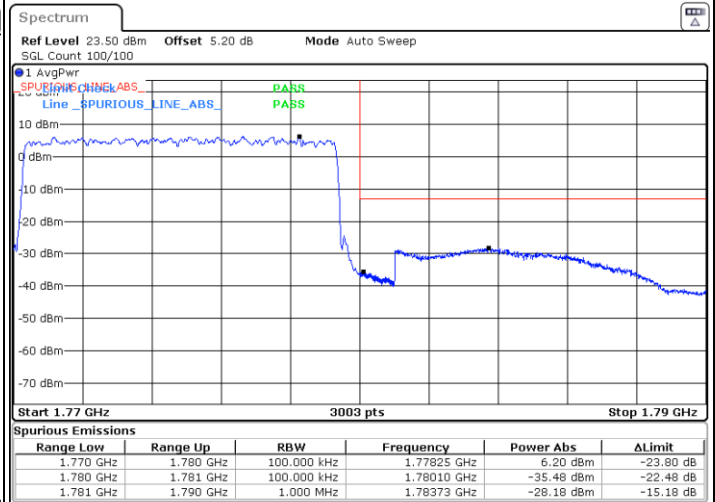
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

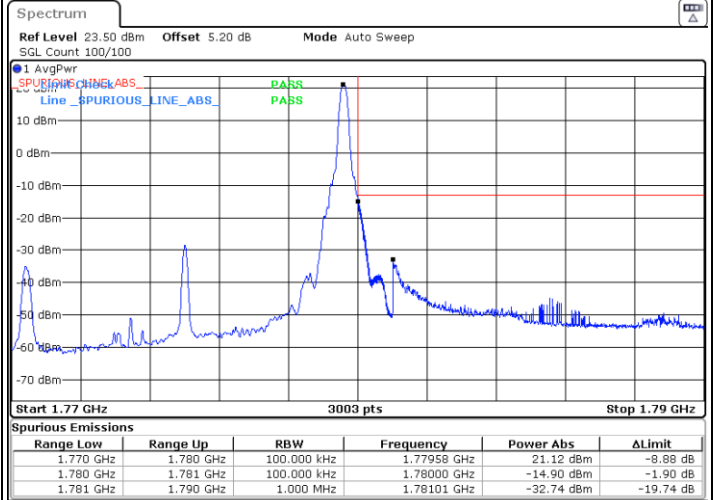
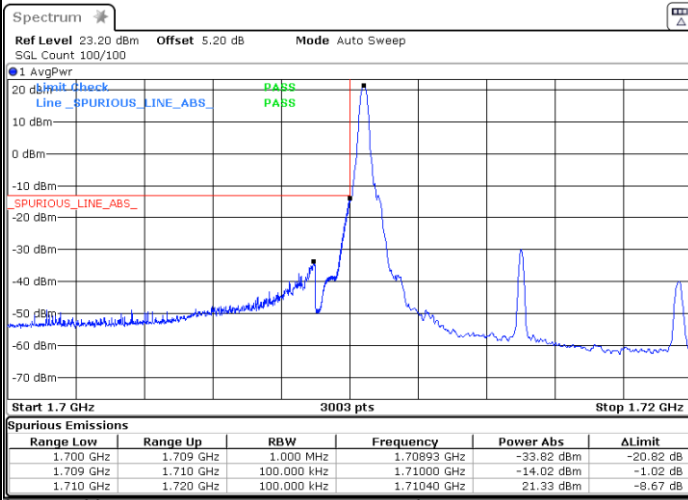




## FR1 n66 / 10MHz / DFT-s-OFDM / QPSK

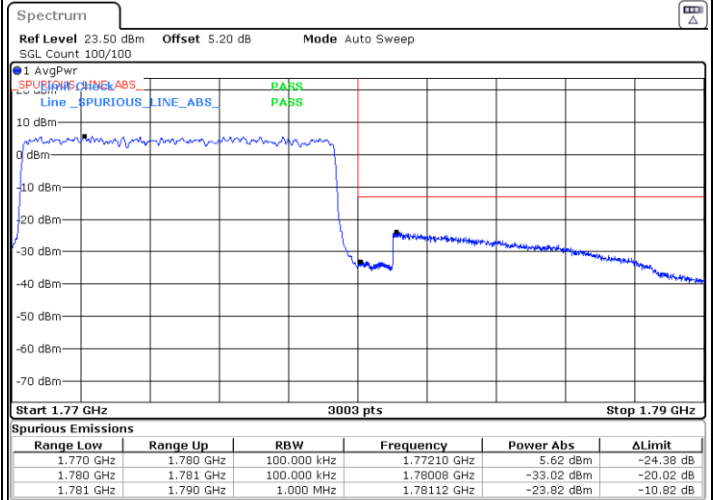
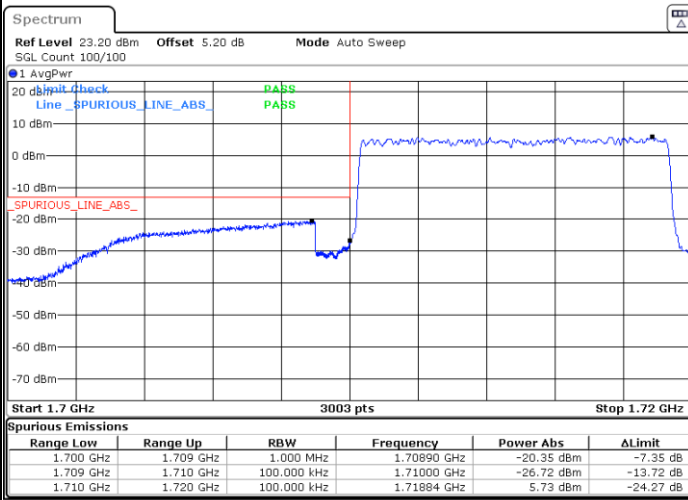
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

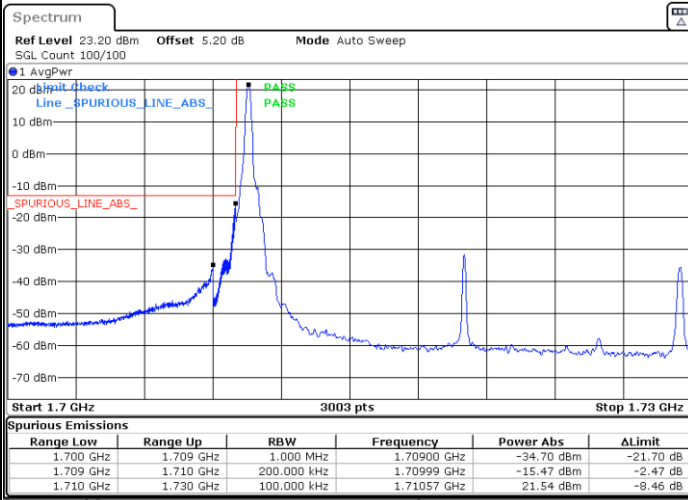




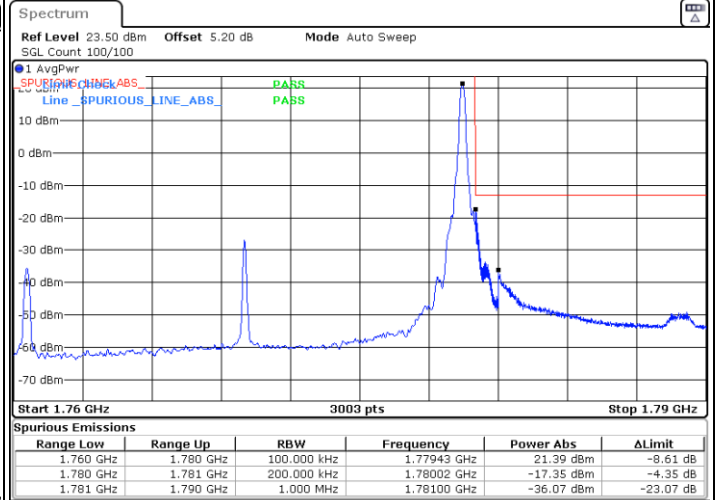
## FR1 n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



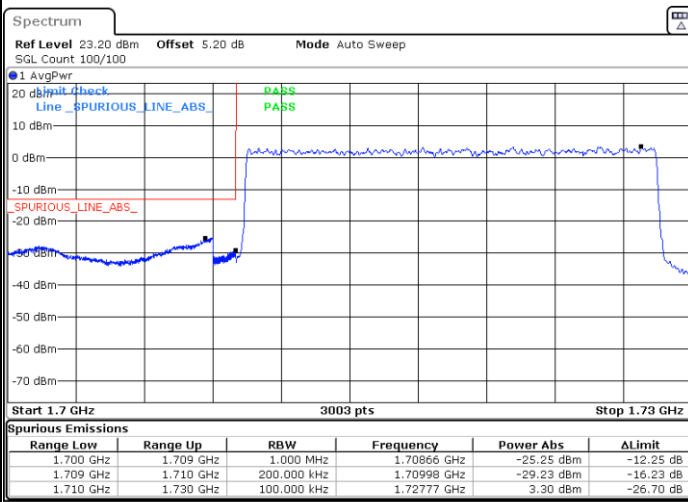
Date: 21.JUN.2022 19:28:40



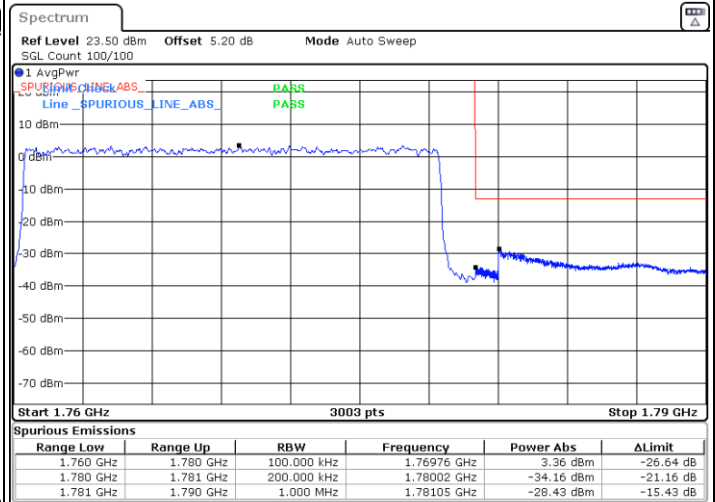
Date: 21.JUN.2022 19:39:00

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



Date: 21.JUN.2022 19:29:47



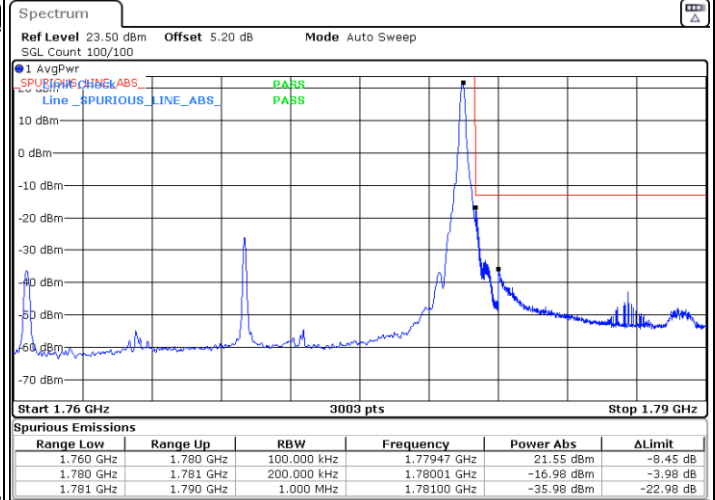
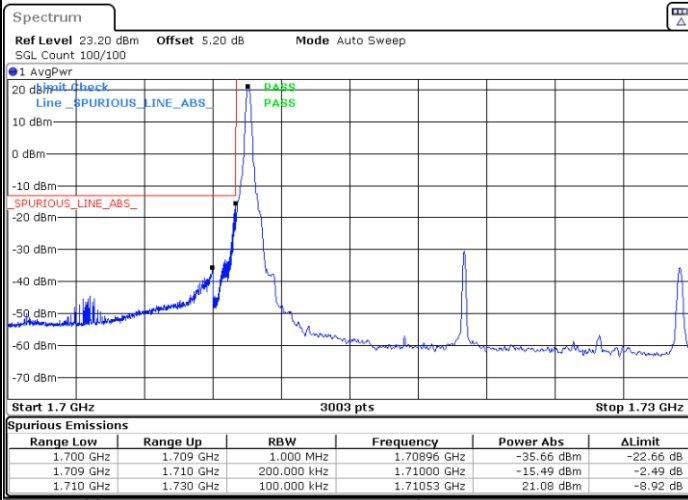
Date: 21.JUN.2022 19:38:33



## FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

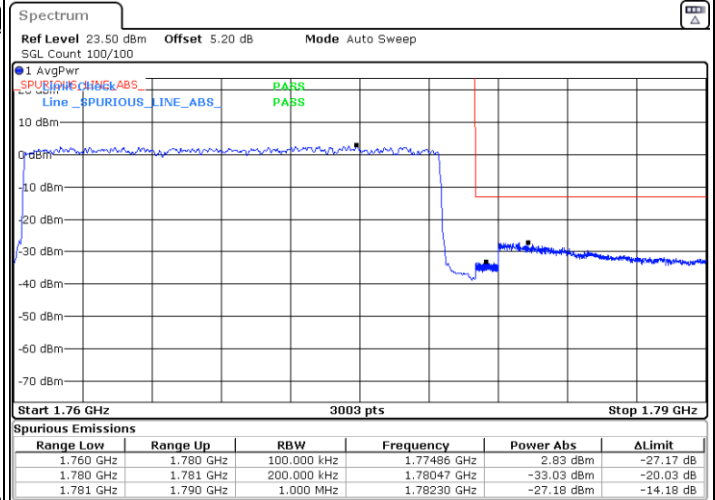
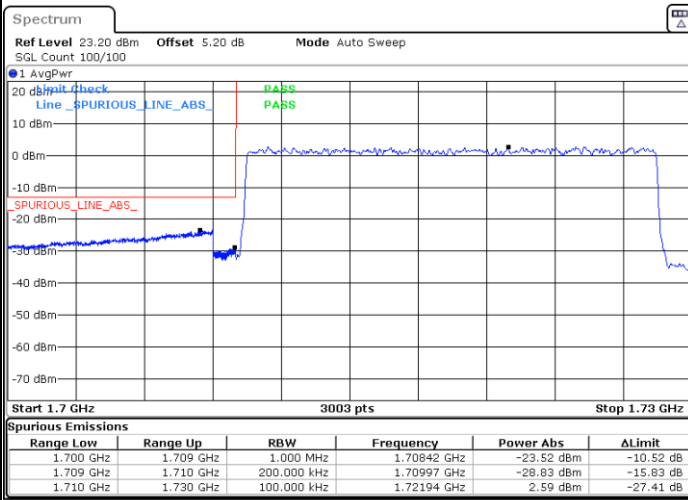
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



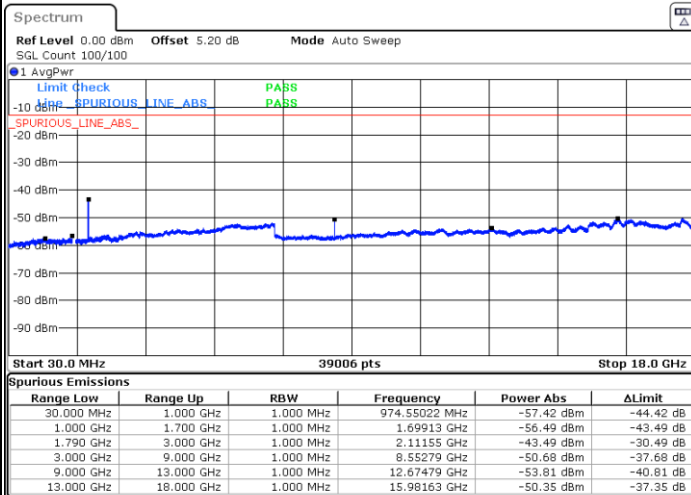


## Conducted Spurious Emission

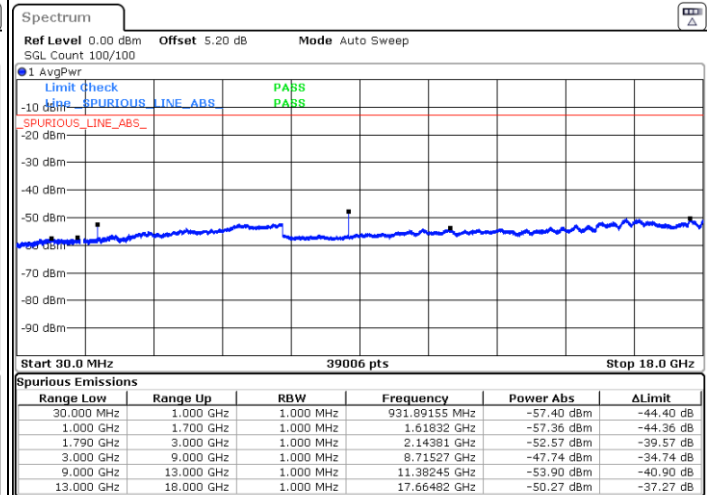
FR1 n66 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

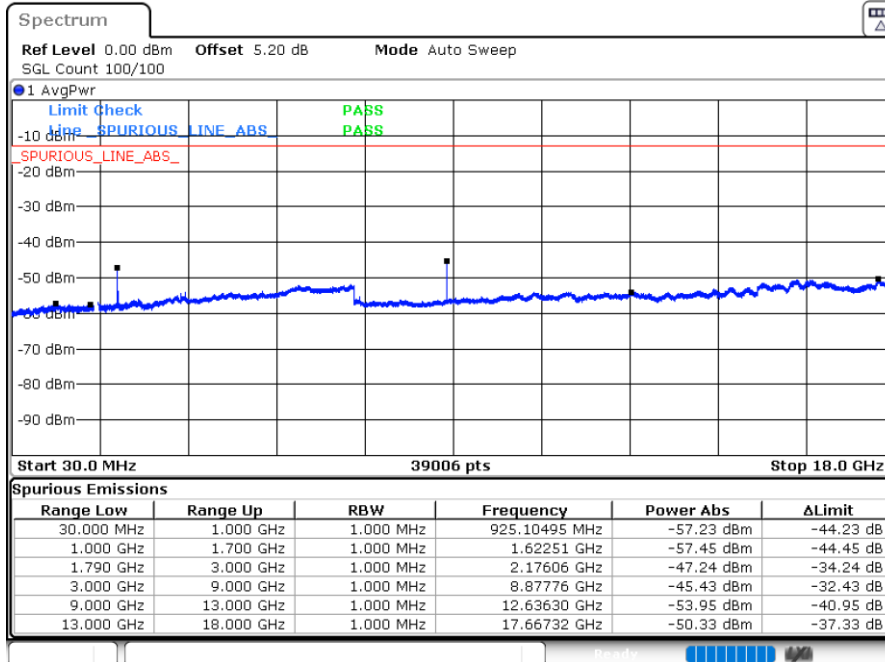


Date: 21.JUN.2022 18:44:01



Date: 21.JUN.2022 18:45:05

Highest Channel / 1RB1

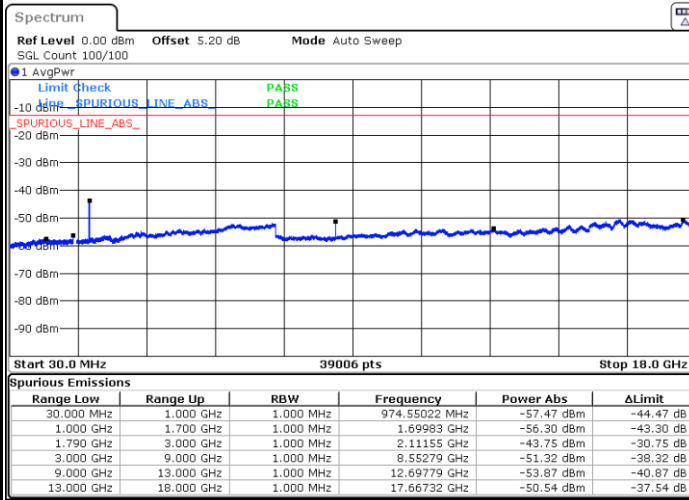


Date: 21.JUN.2022 18:58:38



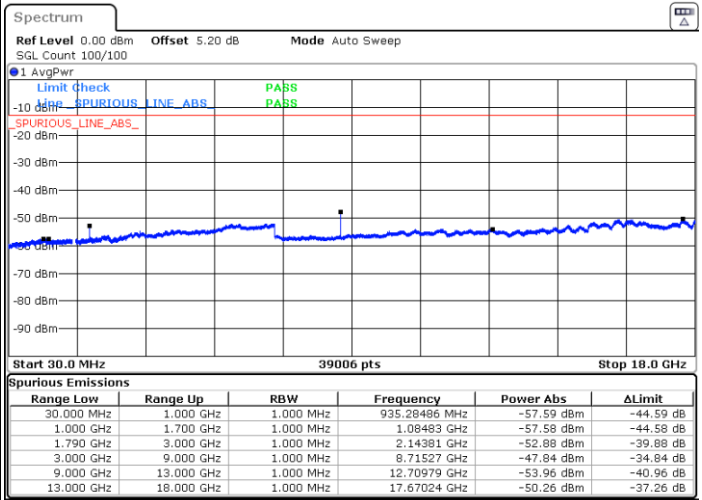
## FR1 n66 / 5MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB1



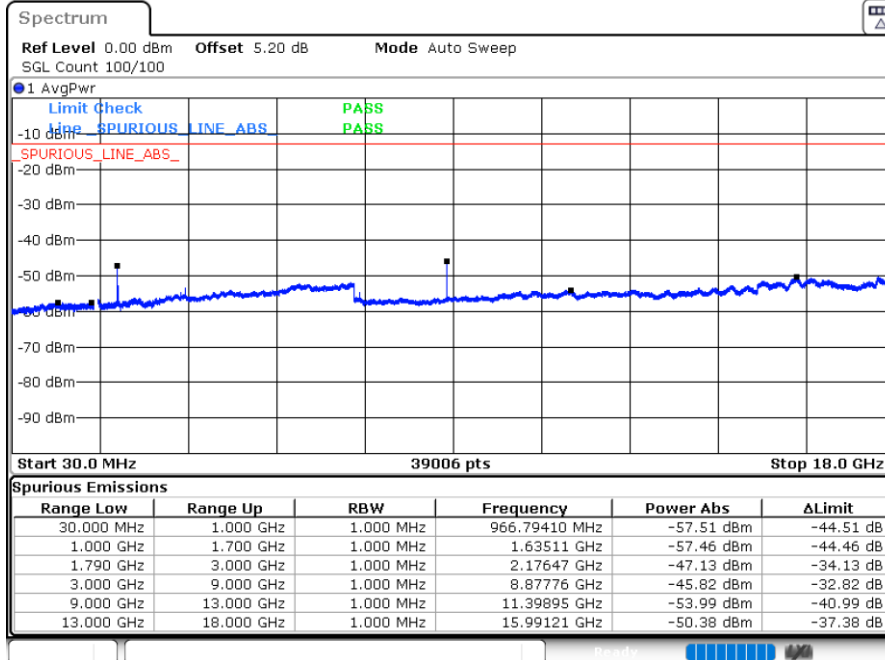
Date: 21.JUN.2022 18:43:17

## Middle Channel / 1RB1



Date: 21.JUN.2022 18:45:51

## Highest Channel / 1RB1

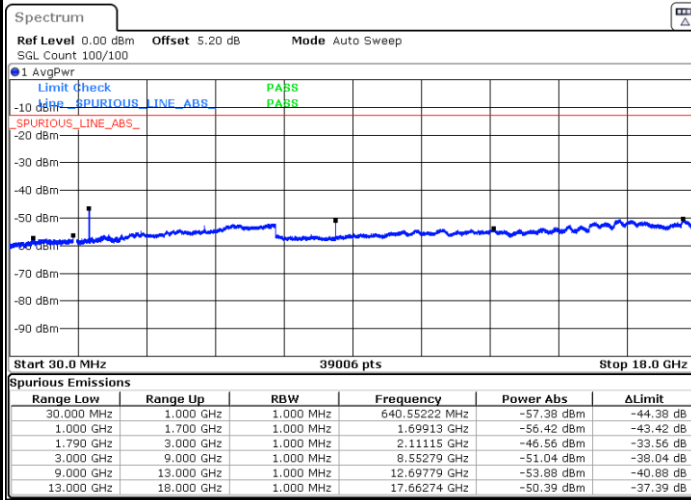


Date: 21.JUN.2022 19:00:22



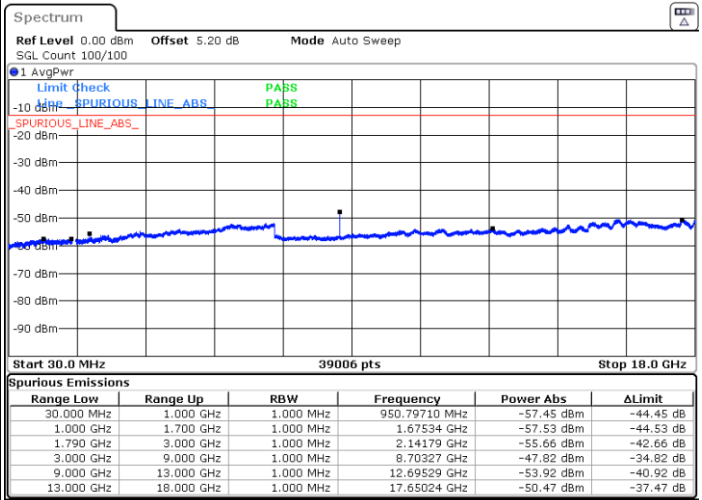
## FR1 n66 / 10MHz / DFT-S OFDM / BPSK

## Lowest Channel / 1RB1



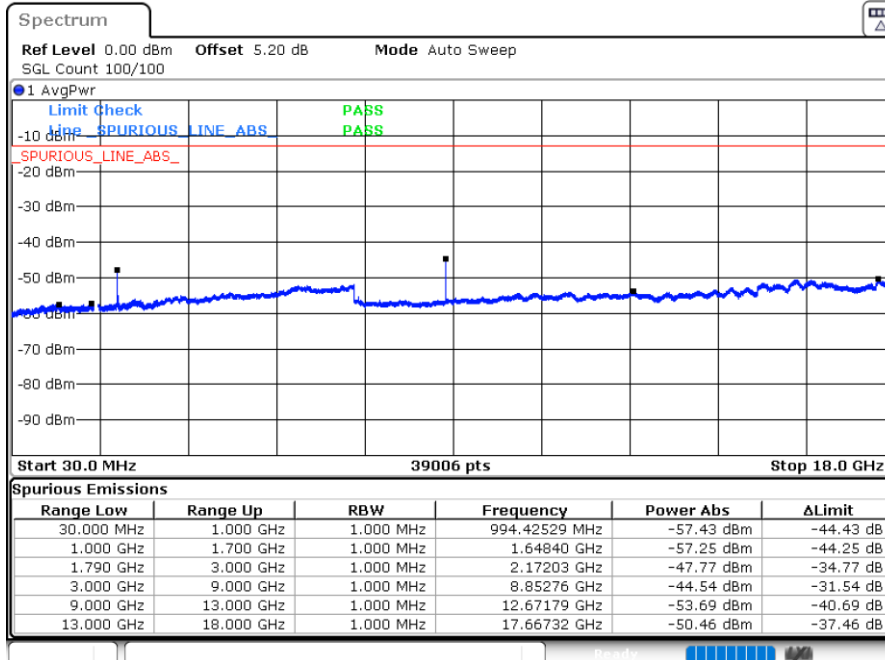
Date: 21.JUN.2022 19:08:22

## Middle Channel / 1RB1



Date: 21.JUN.2022 19:12:00

## Highest Channel / 1RB1

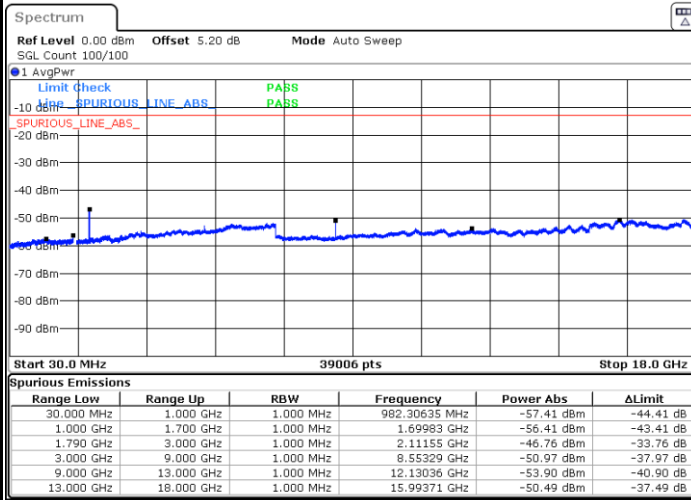


Date: 21.JUN.2022 19:18:29



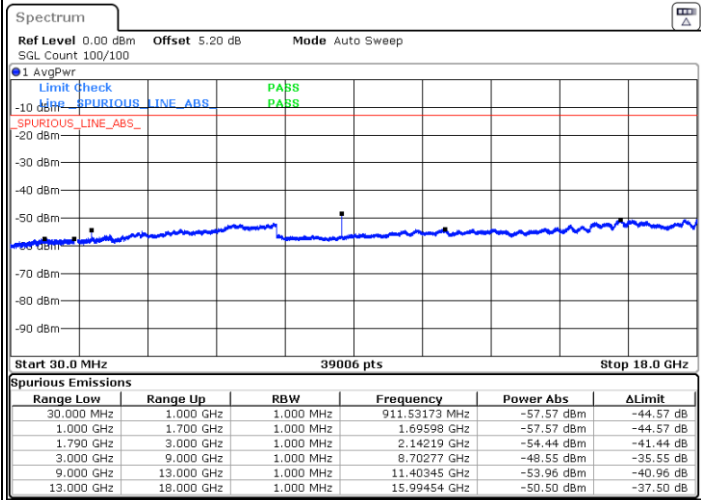
## FR1 n66 / 10MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB1



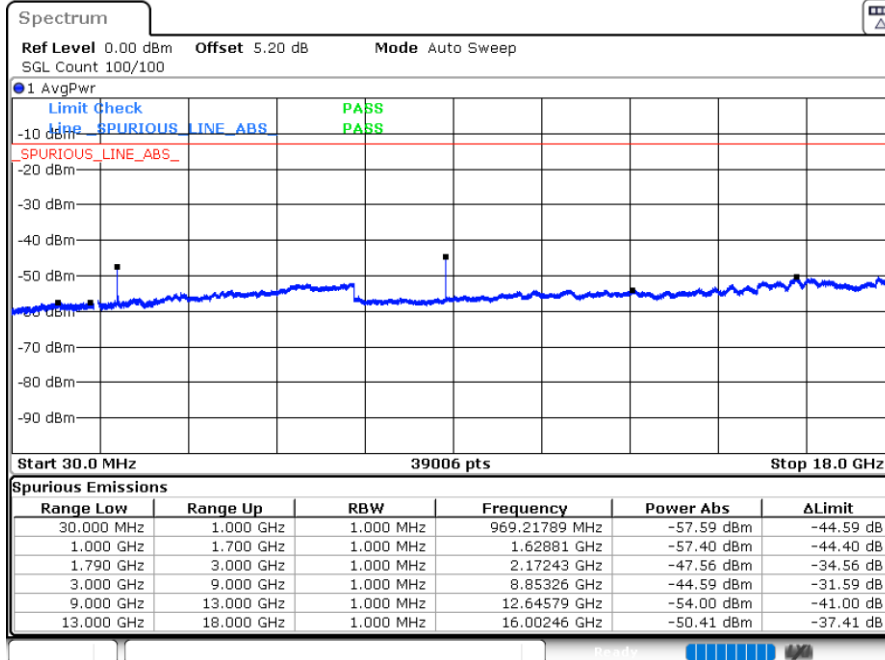
Date: 21.JUN.2022 19:09:21

## Middle Channel / 1RB1



Date: 21.JUN.2022 19:11:04

## Highest Channel / 1RB1

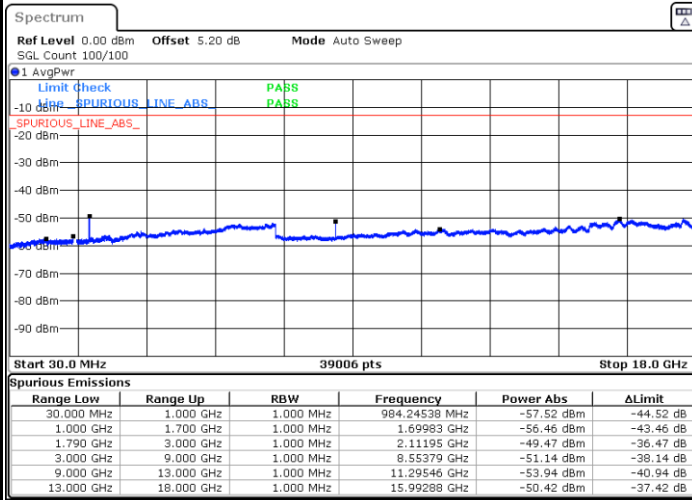


Date: 21.JUN.2022 19:20:16



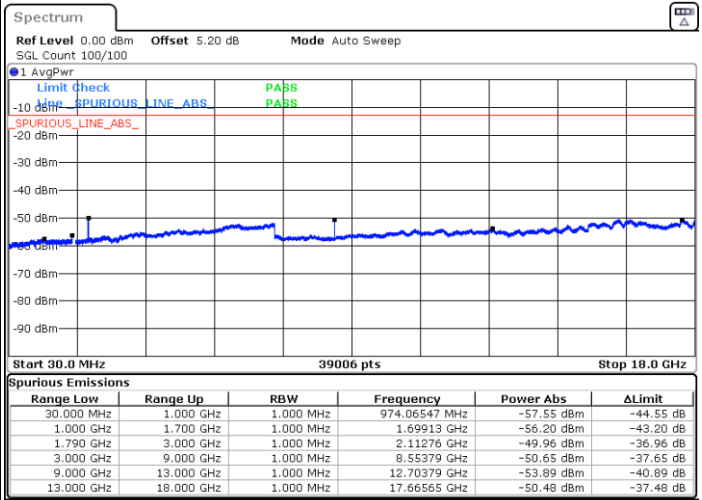
## FR1 n66 / 20MHz / DFT-S OFDM / BPSK

## Lowest Channel / 1RB1



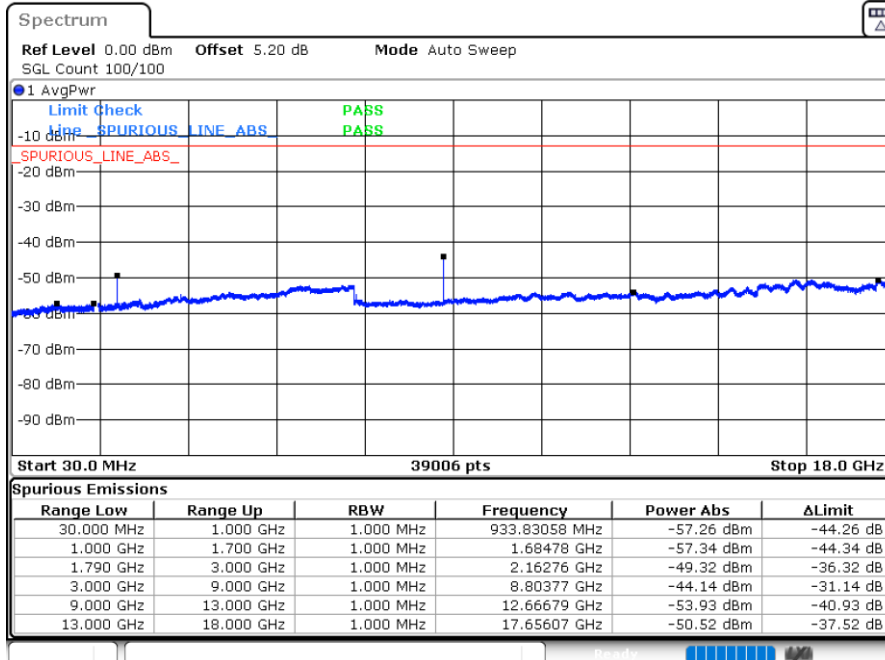
Date: 21.JUN.2022 19:30:48

## Middle Channel / 1RB1



Date: 21.JUN.2022 19:35:09

## Highest Channel / 1RB1

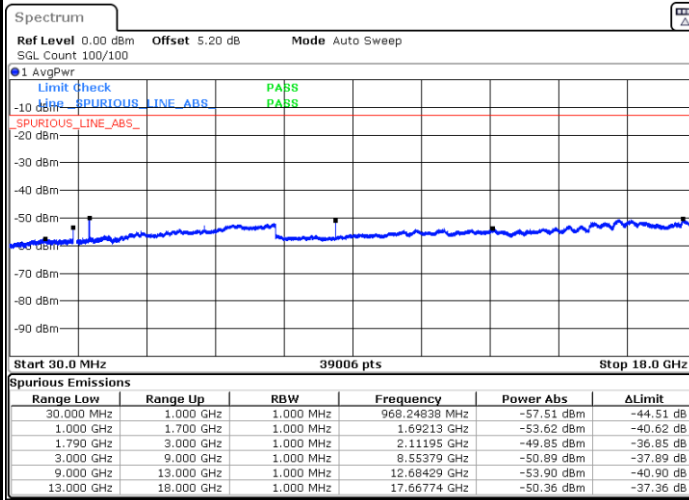


Date: 21.JUN.2022 19:36:27



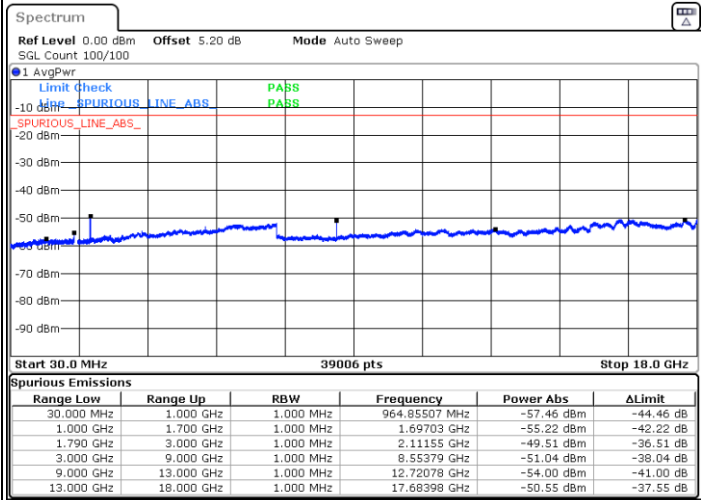
## FR1 n66 / 20MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB1



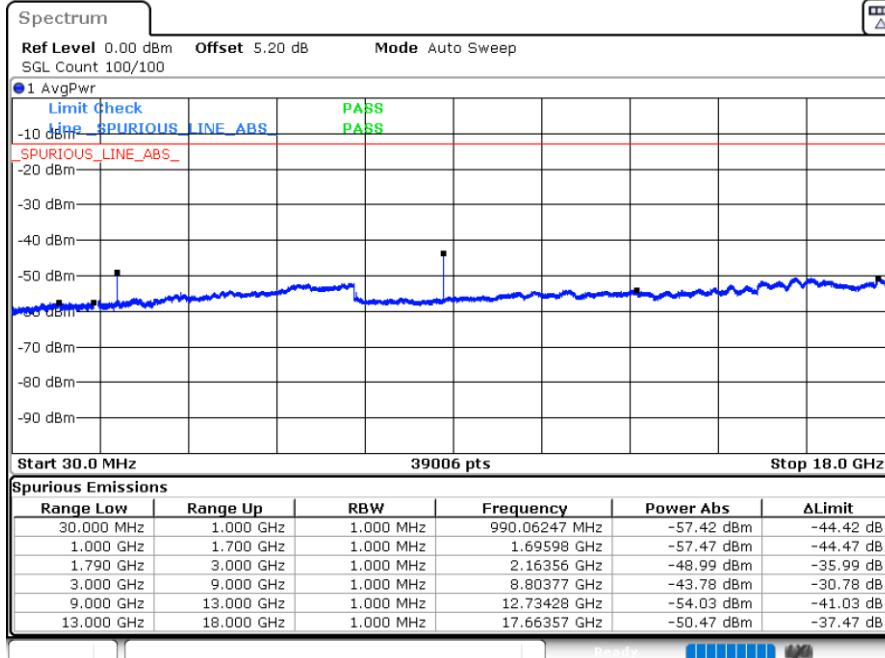
Date: 21.JUN.2022 19:33:03

## Middle Channel / 1RB1



Date: 21.JUN.2022 19:33:51

## Highest Channel / 1RB1



Date: 21.JUN.2022 19:37:25

## Frequency Stability

| Test Conditions  |                   | FR1 n66 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 20MHz                        | Note 2. |
|                  |                   | Deviation (ppm)                 | Result  |
| 50               | Normal Voltage    | 0.0026                          | PASS    |
| 40               | Normal Voltage    | 0.0014                          |         |
| 30               | Normal Voltage    | 0.0009                          |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |         |
| 10               | Normal Voltage    | 0.0015                          |         |
| 0                | Normal Voltage    | 0.0028                          |         |
| -10              | Normal Voltage    | 0.0024                          |         |
| -20              | Normal Voltage    | 0.0002                          |         |
| -30              | Normal Voltage    | 0.0005                          |         |
| 20               | Maximum Voltage   | 0.0027                          |         |
| 20               | Normal Voltage    | 0.0014                          |         |
| 20               | Battery End Point | 0.0006                          |         |

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.