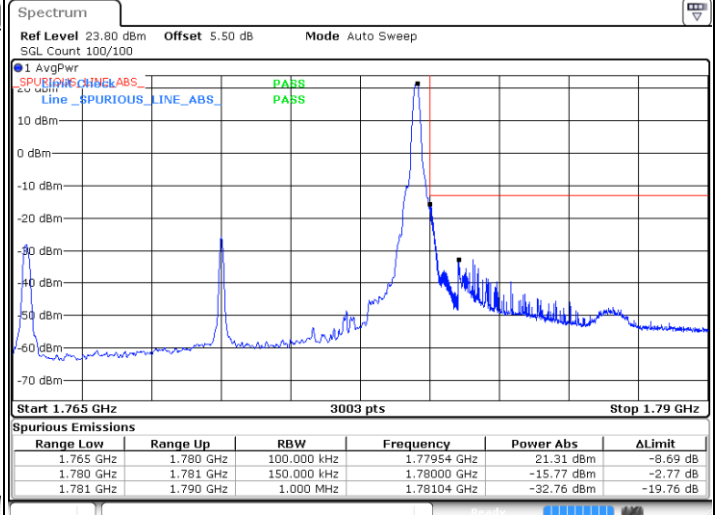
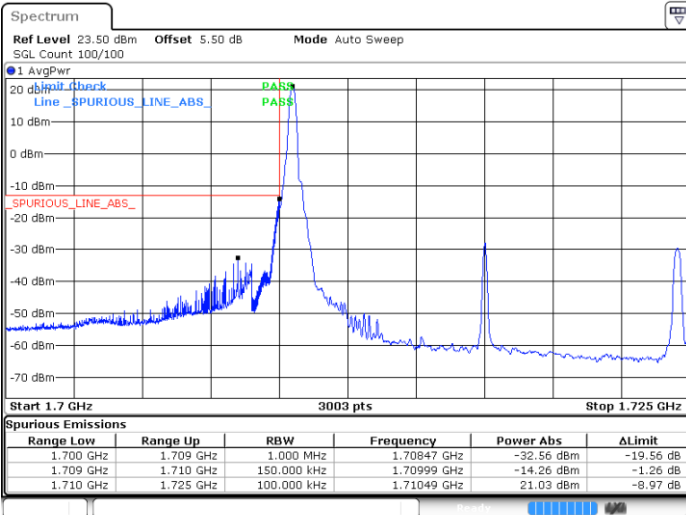




## 5G NR n66 / 15MHz / DFT-s-OFDM / PI/2 BPSK

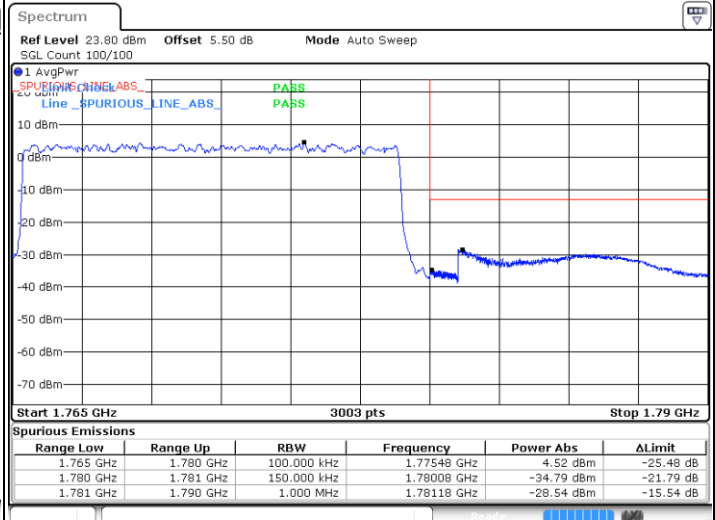
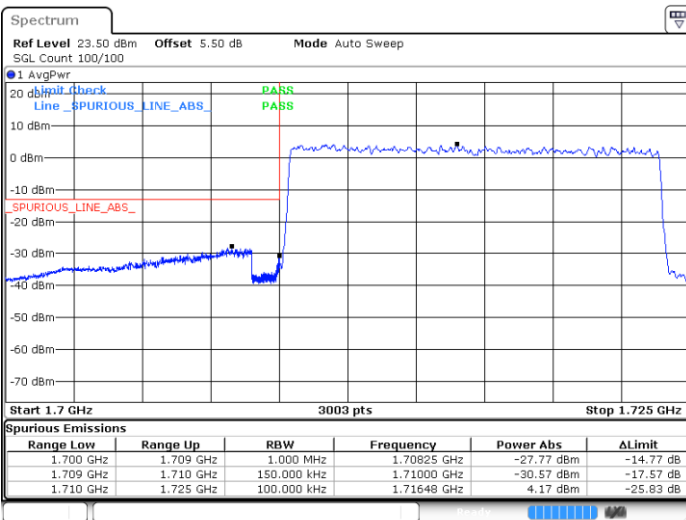
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBMAX



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

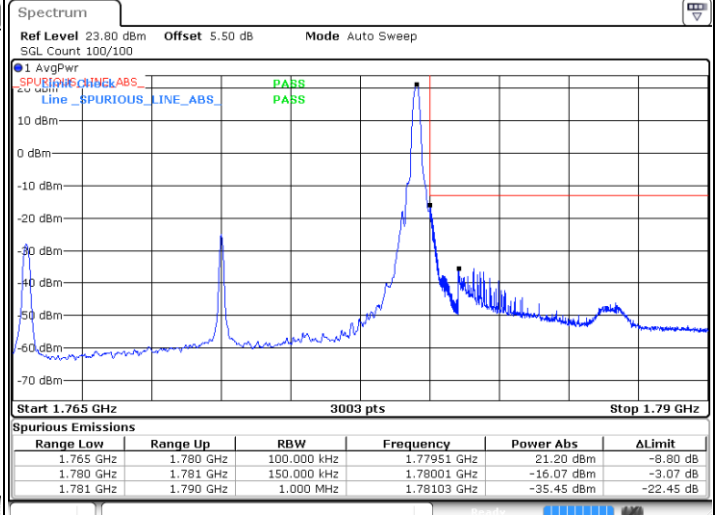
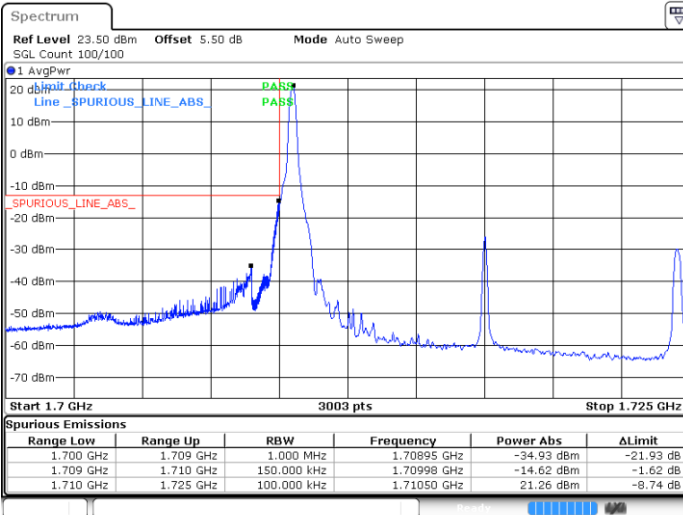




## 5G NR n66 / 15MHz / DFT-s-OFDM / QPSK

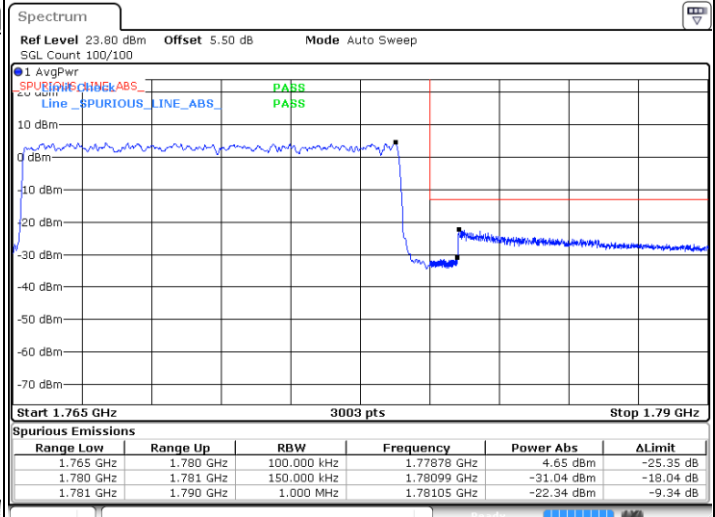
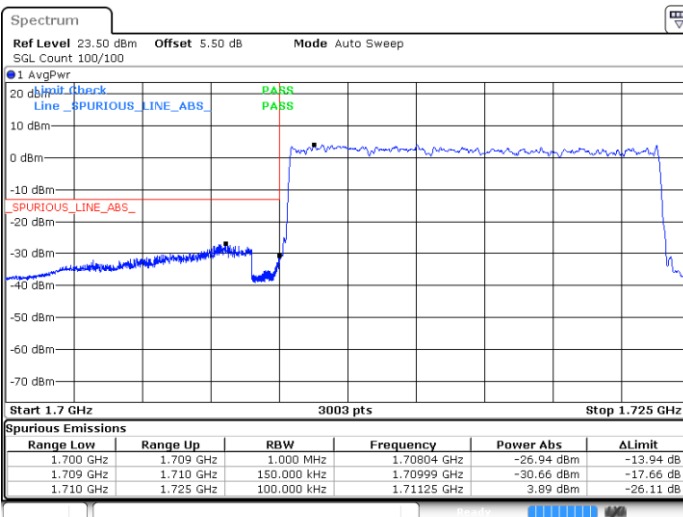
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBMAX



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

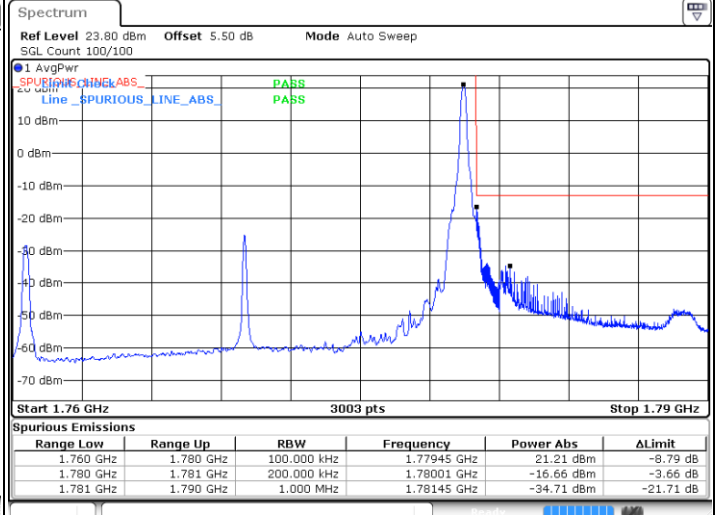
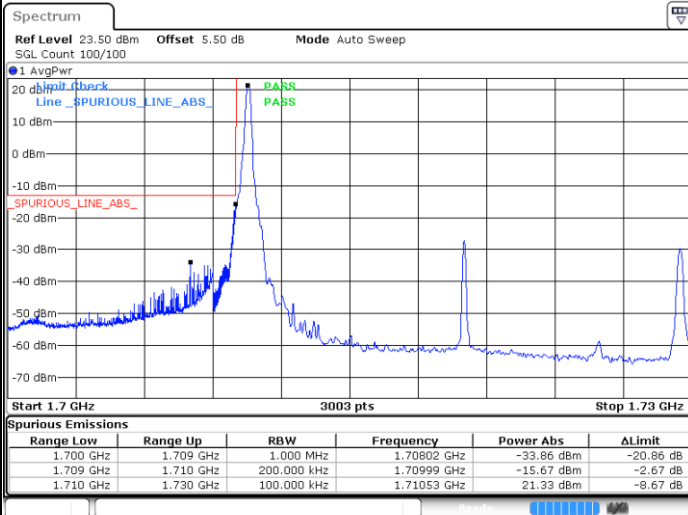




## 5G NR n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

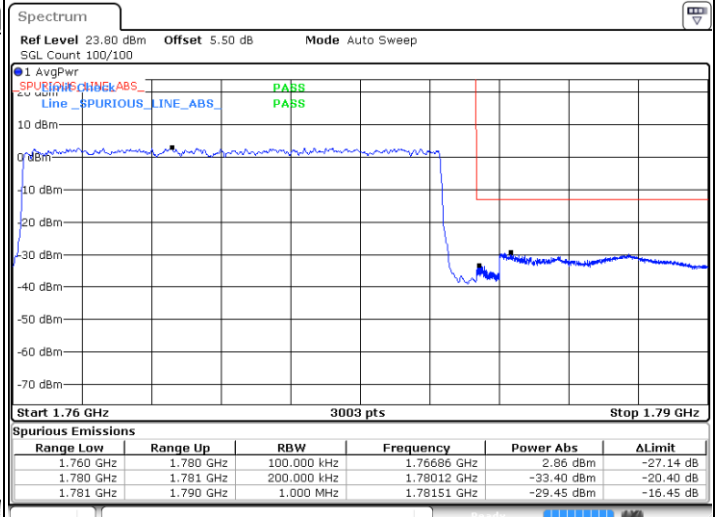
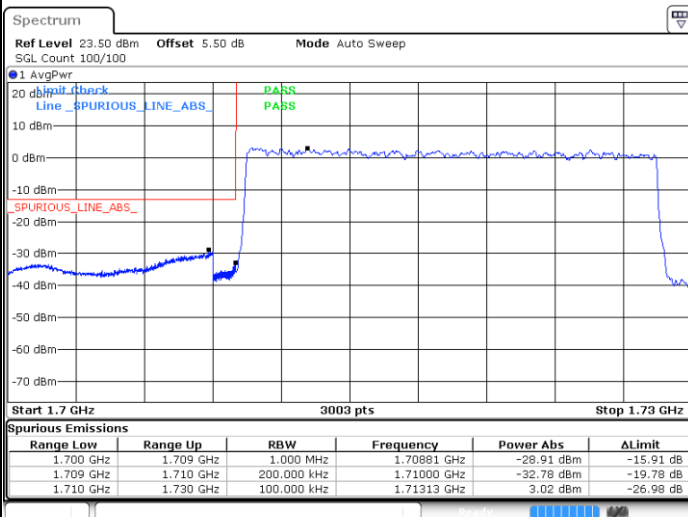
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBMAX



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

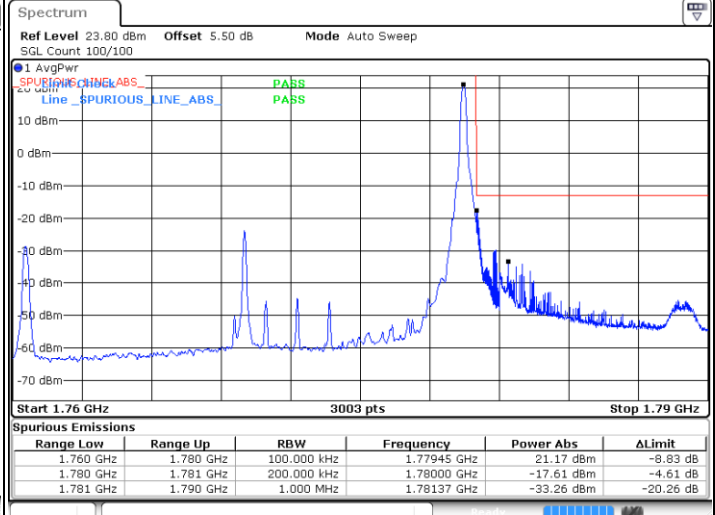
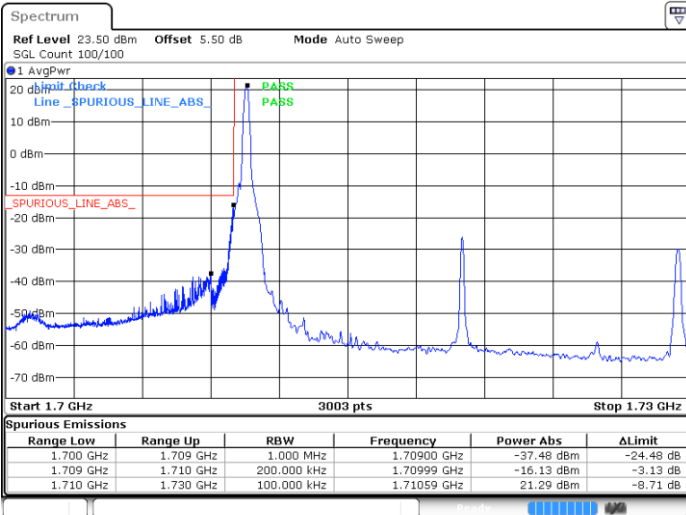




## 5G NR n66 / 20MHz / DFT-s-OFDM / QPSK

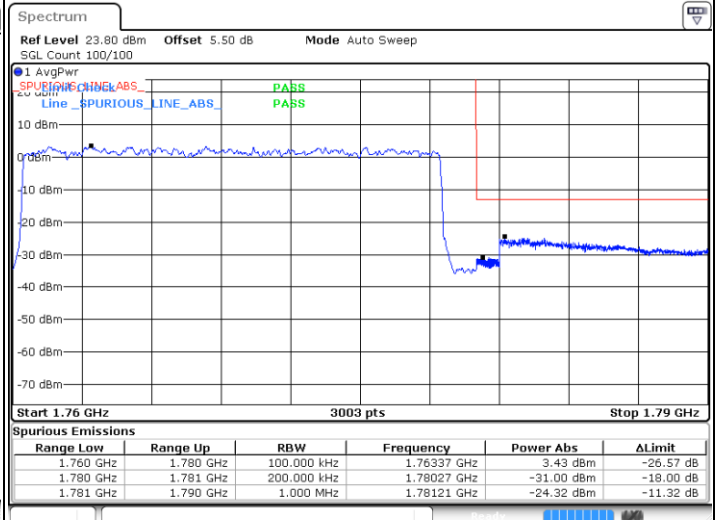
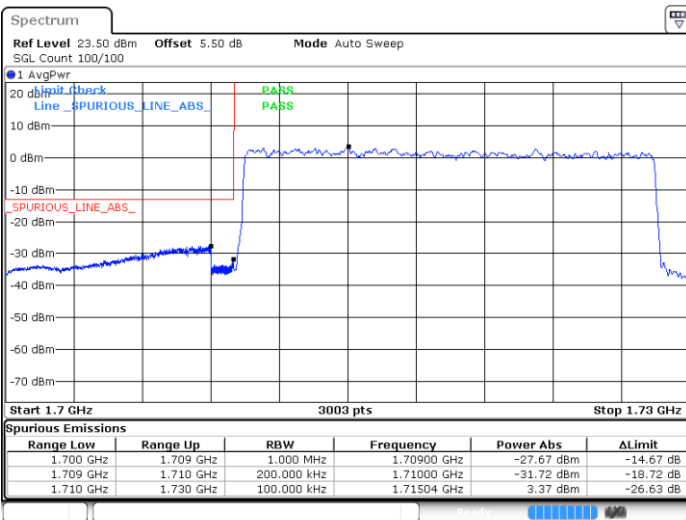
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBMAX



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

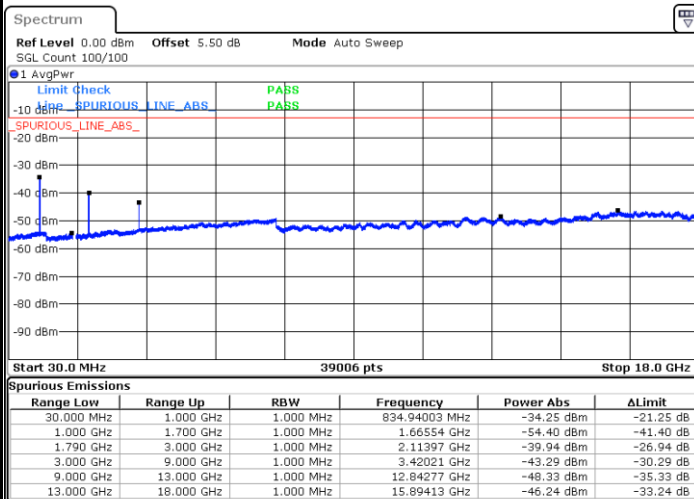




## Conducted Spurious Emission

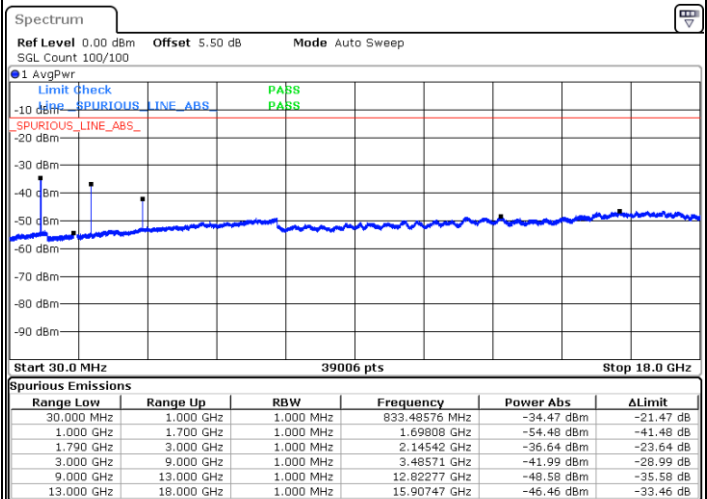
### 5G NR n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

#### Lowest Channel / 1RB0



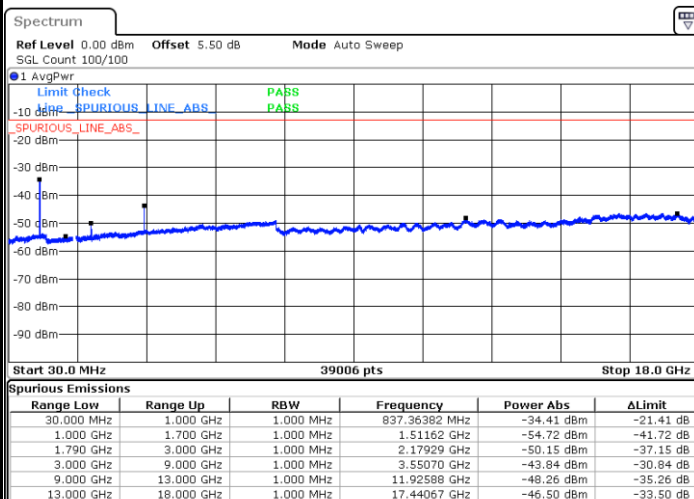
Date: 4 SEP. 2020 10:53:16

#### Middle Channel / 1RB0



Date: 4 SEP. 2020 10:54:41

#### Highest Channel / 1RB0

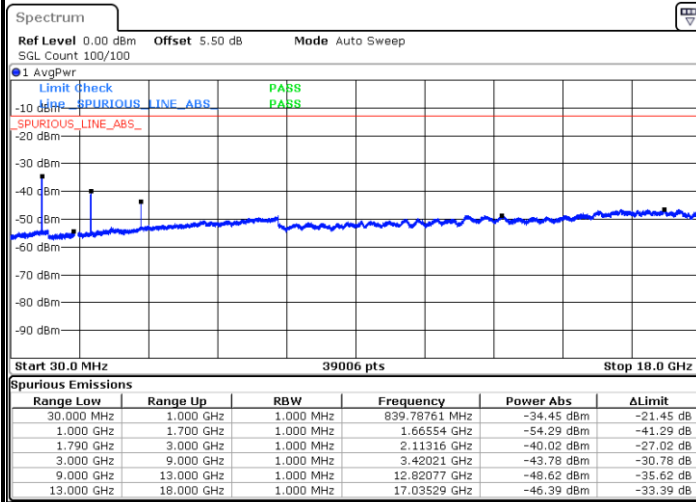


Date: 4 SEP. 2020 11:08:49



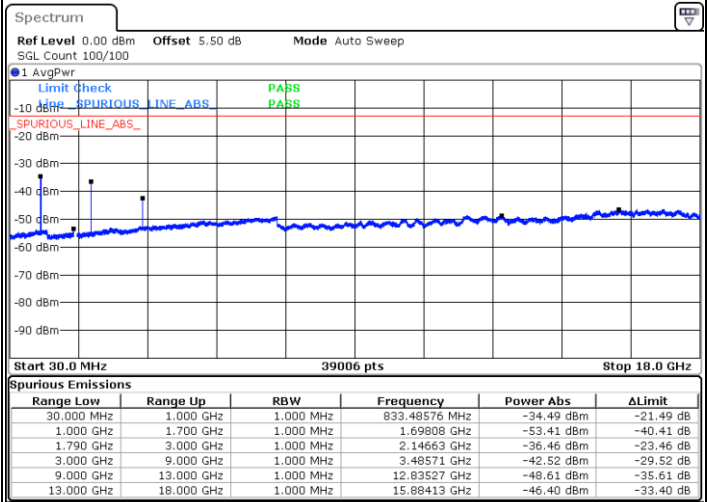
## 5G NR n66 / 5MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB0



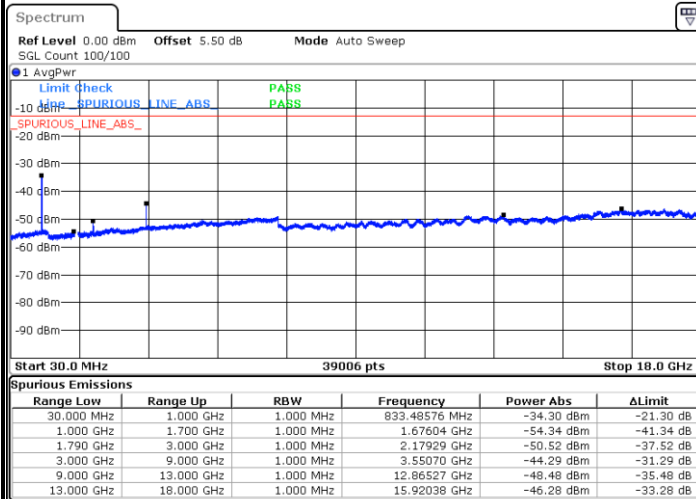
Date: 4 SEP. 2020 10:50:53

## Middle Channel / 1RB0



Date: 4 SEP. 2020 10:56:38

## Highest Channel / 1RB0



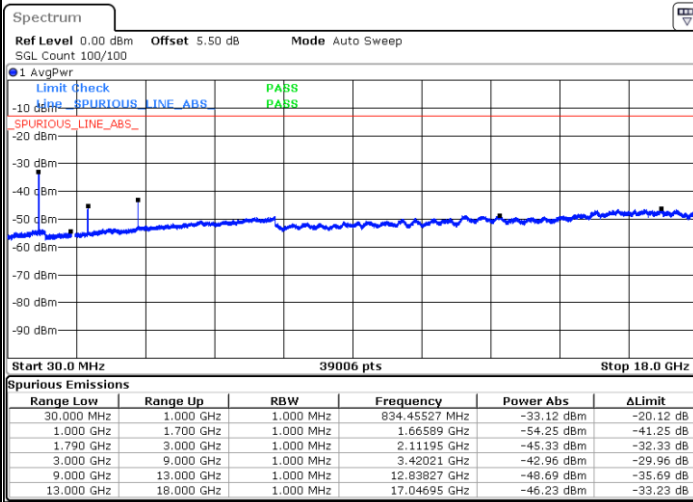
Date: 4 SEP. 2020 11:10:17



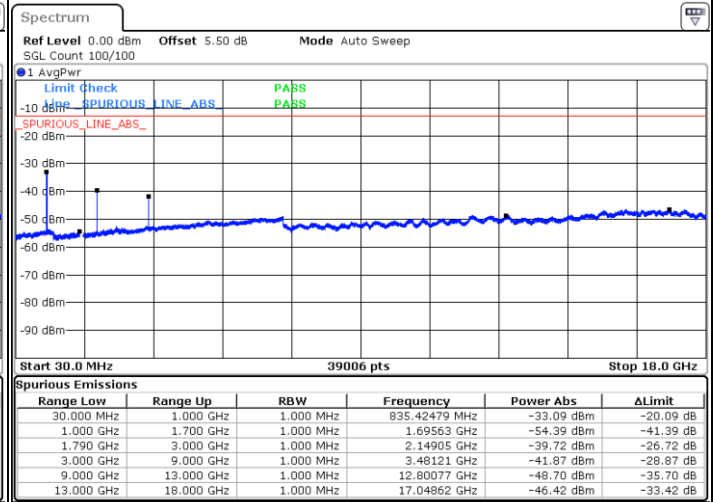
## 5G NR n66 / 10MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Channel / 1RB0

## Middle Channel / 1RB0

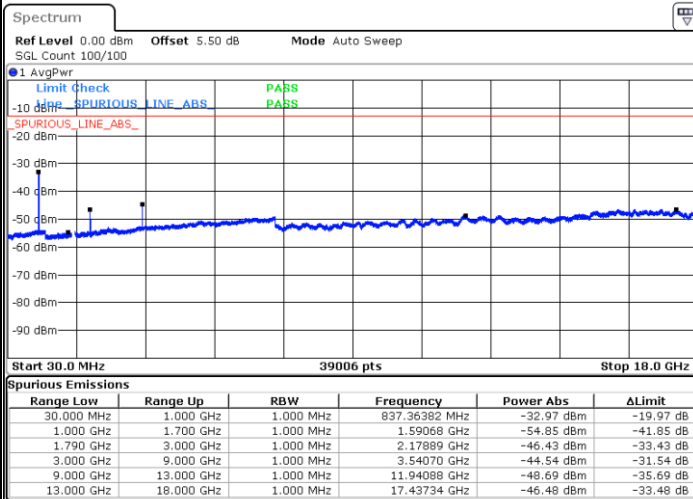


Date: 4 SEP. 2020 14:42:17



Date: 4 SEP. 2020 14:49:54

## Highest Channel / 1RB0



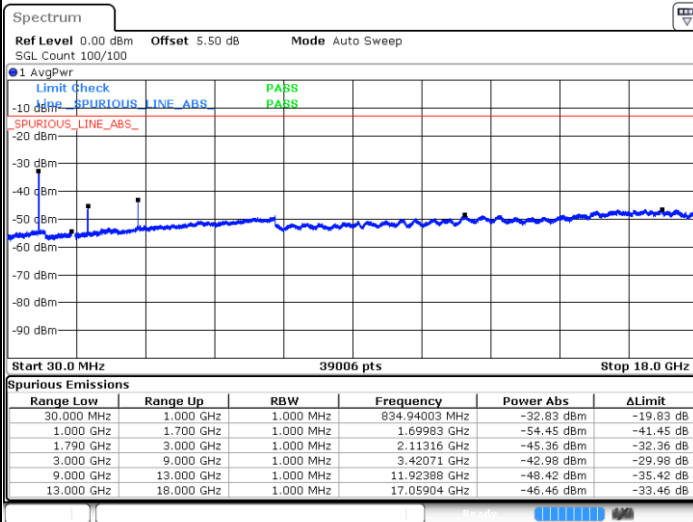
Date: 4 SEP. 2020 15:03:00



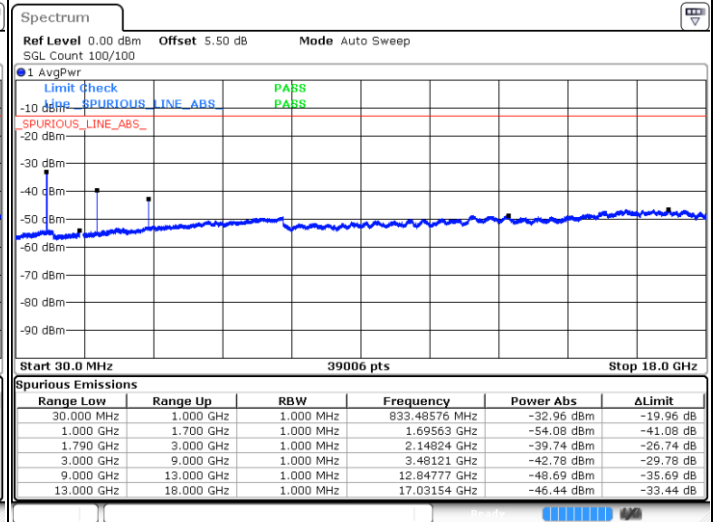
## 5G NR n66 / 10MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB0

## Middle Channel / 1RB0

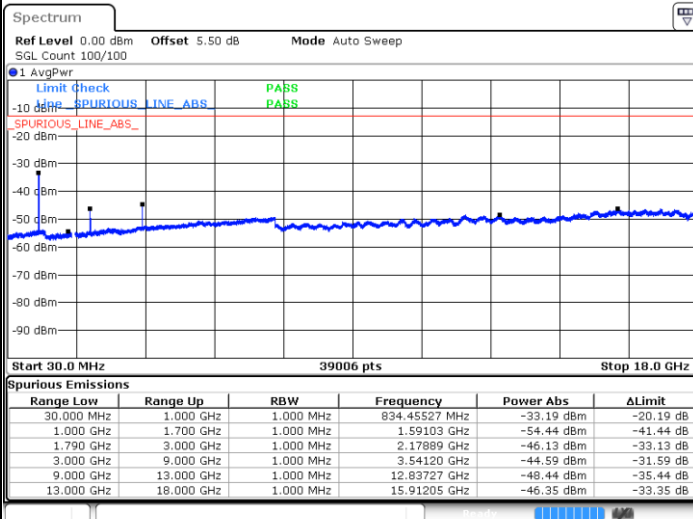


Date: 4 SEP. 2020 14:43:13



Date: 4 SEP. 2020 14:50:42

## Highest Channel / 1RB0



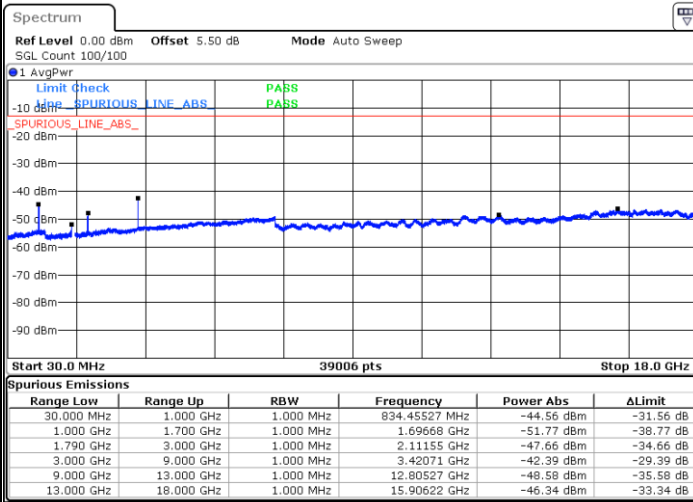
Date: 4 SEP. 2020 15:04:32



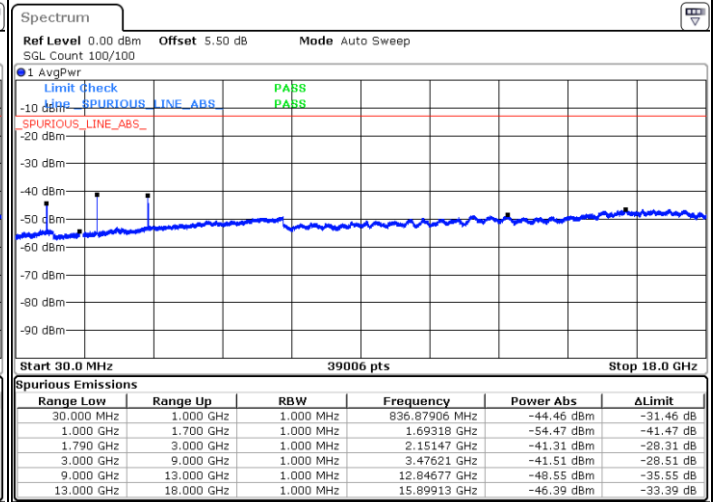
## 5G NR n66 / 15MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Channel / 1RB0

## Middle Channel / 1RB0

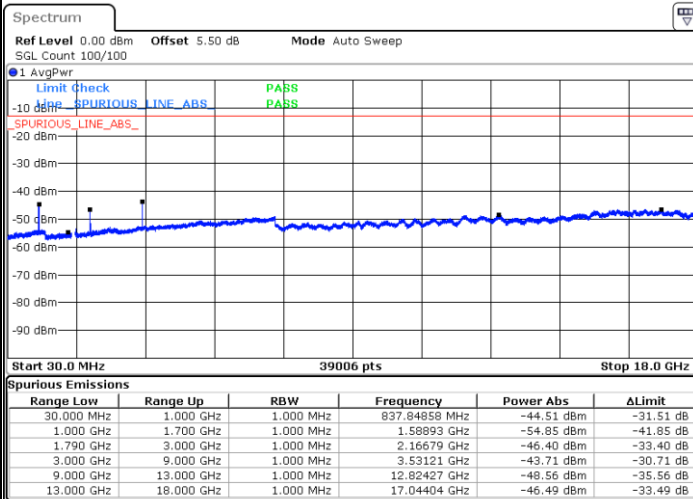


Date: 4 SEP. 2020 15:33:07



Date: 4 SEP. 2020 15:38:31

## Highest Channel / 1RB0

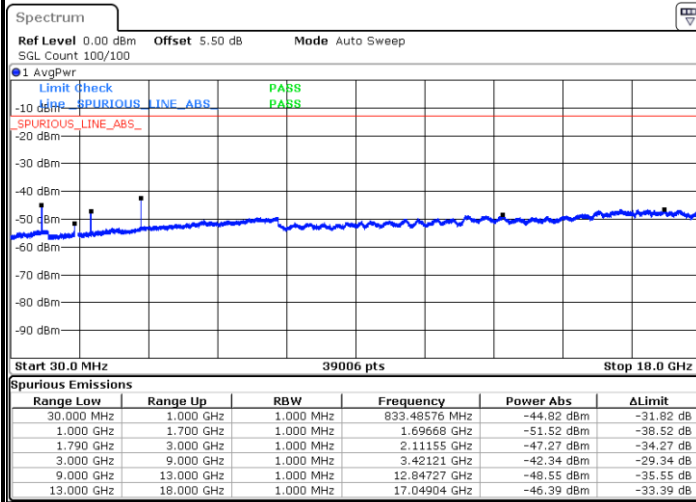


Date: 4 SEP. 2020 16:21:28



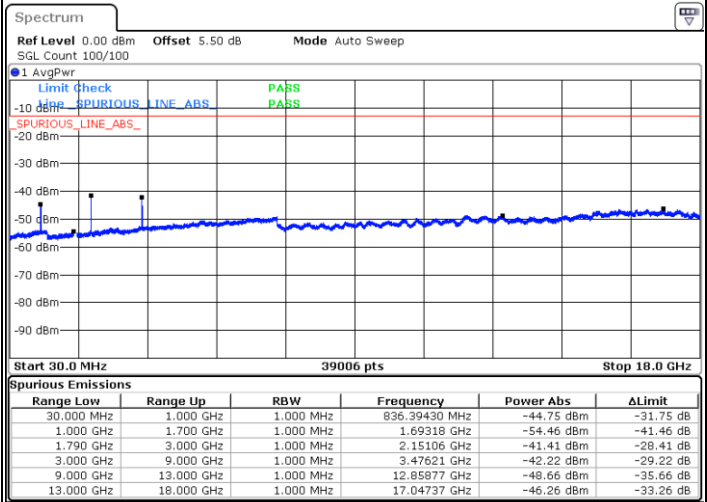
## 5G NR n66 / 15MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB0



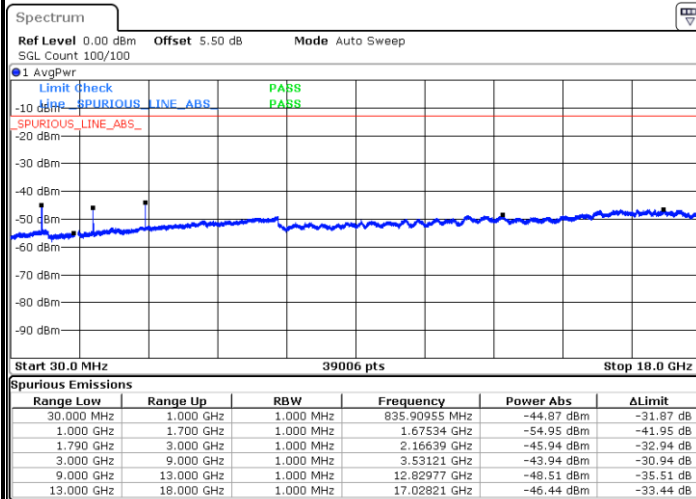
Date: 4 SEP. 2020 15:34:10

## Middle Channel / 1RB0



Date: 4 SEP. 2020 15:39:15

## Highest Channel / 1RB0



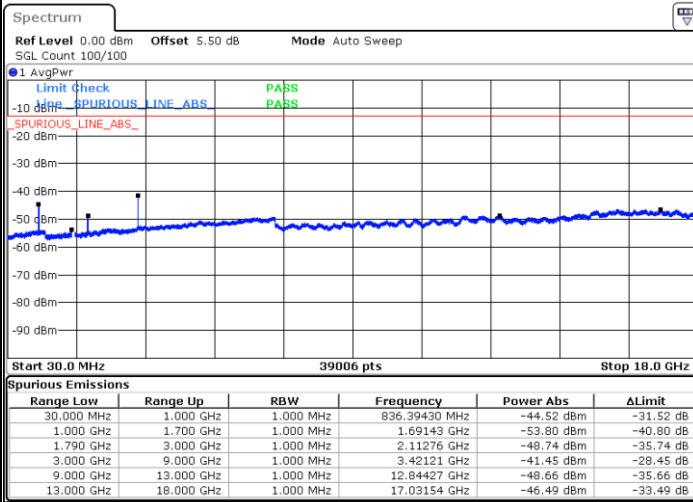
Date: 4 SEP. 2020 16:22:52



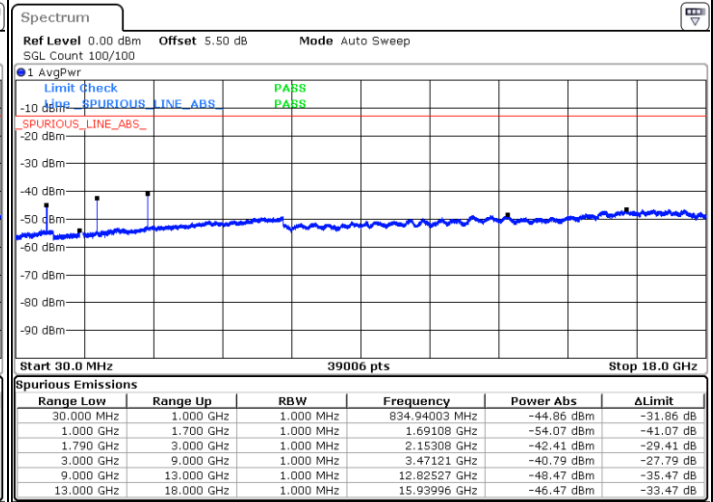
## 5G NR n66 / 20MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Channel / 1RB0

## Middle Channel / 1RB0

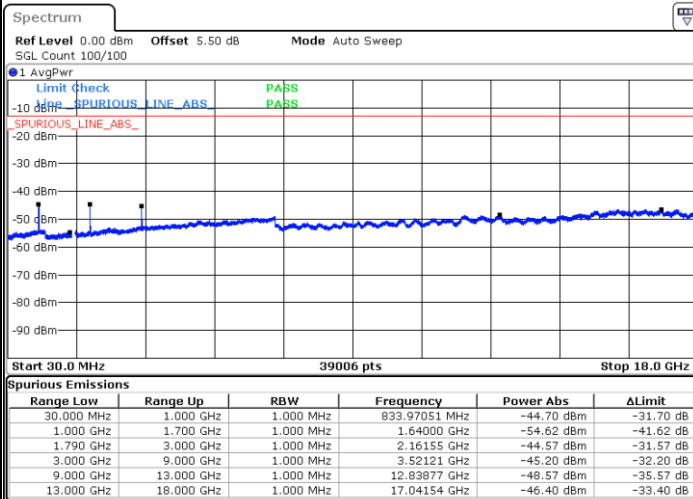


Date: 4 SEP. 2020 16:33:17



Date: 4 SEP. 2020 16:49:18

## Highest Channel / 1RB0



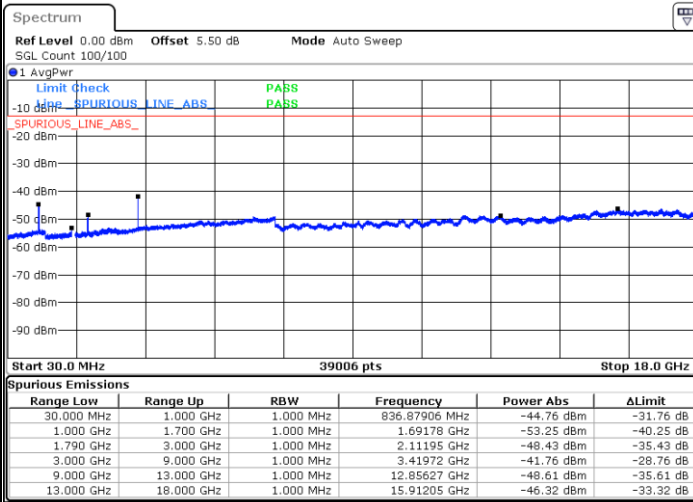
Date: 4 SEP. 2020 17:03:05



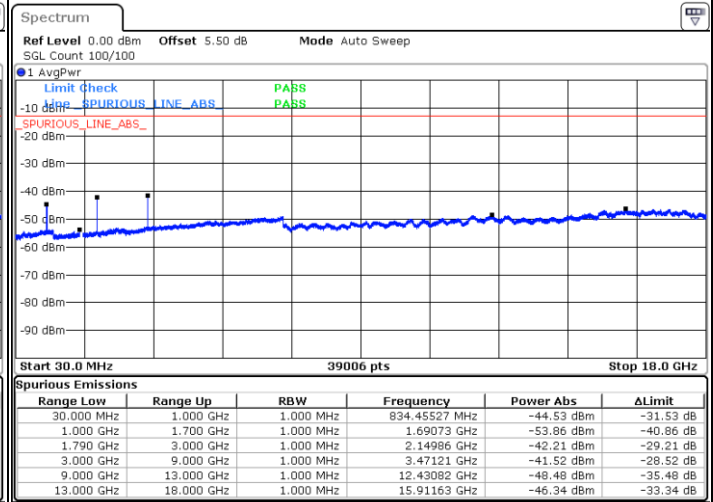
## 5G NR n66 / 20MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB0

## Middle Channel / 1RB0

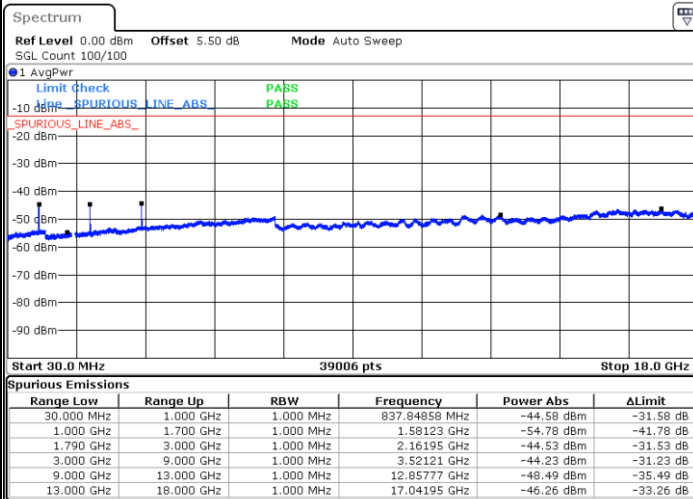


Date: 4 SEP. 2020 16:34:20



Date: 4 SEP. 2020 16:50:10

## Highest Channel / 1RB0



Date: 4 SEP. 2020 17:03:58

## Frequency Stability

| Test Conditions  |                   | 5G NR n66 (PI/2BPSK) / Middle Channel | Limit   |
|------------------|-------------------|---------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 20MHz                              | Note 2. |
|                  |                   | Deviation (ppm)                       | Result  |
| 50               | Normal Voltage    | 0.0008                                | PASS    |
| 40               | Normal Voltage    | 0.0006                                |         |
| 30               | Normal Voltage    | 0.0008                                |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                                |         |
| 10               | Normal Voltage    | 0.0009                                |         |
| 0                | Normal Voltage    | 0.0005                                |         |
| -10              | Normal Voltage    | 0.0025                                |         |
| -20              | Normal Voltage    | 0.0006                                |         |
| -30              | Normal Voltage    | 0.0005                                |         |
| 20               | Maximum Voltage   | 0.0014                                |         |
| 20               | Normal Voltage    | 0.0000                                |         |
| 20               | Battery End Point | 0.0008                                |         |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## 5G NR n71

**Peak-to-Average Ratio**

| Mode       | 5G NR n71 / 20MHz / DFT-S OFDM |         |             |
|------------|--------------------------------|---------|-------------|
| Mod.       | PI/2 BPSK                      | QPSK    | Limit: 13dB |
| RB Size    | Full RB                        | Full RB | Result      |
| Lowest CH  | 3.65                           | 4.46    | PASS        |
| Middle CH  | 3.42                           | 4.35    |             |
| Highest CH | 3.51                           | 4.38    |             |
| Mode       | 5G NR n71 / 20MHz / DFT-S OFDM |         |             |
| Mod.       | PI/2 BPSK                      | QPSK    | Limit: 13dB |
| RB Size    | 1 RB0                          | 1 RB0   | Result      |
| Lowest CH  | 4.09                           | 3.80    | PASS        |
| Middle CH  | 3.97                           | 3.71    |             |
| Highest CH | 4.09                           | 3.88    |             |



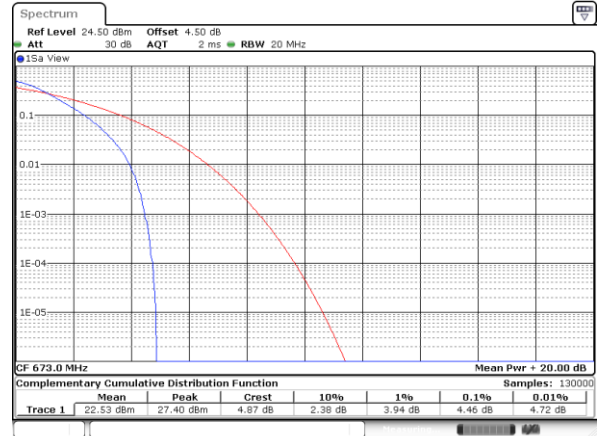
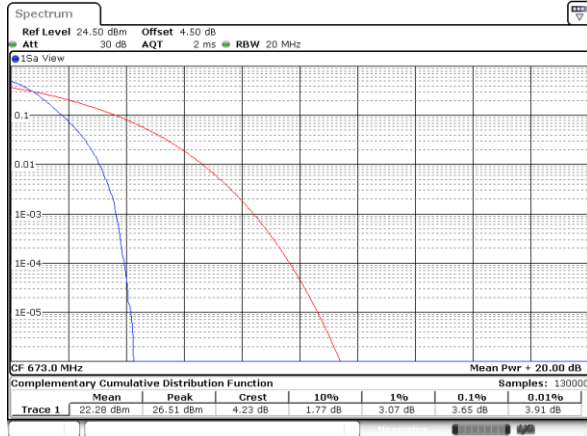
## 5G NR n71 / 20MHz / DFT-S OFDM

## PI/2 BPSK

## QPSK

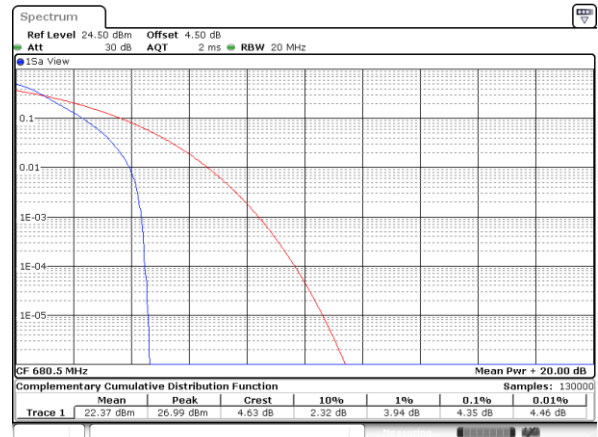
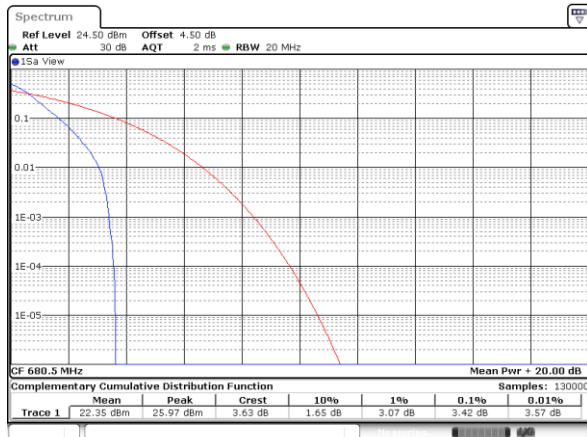
## Lowest Channel / Full RB

## Lowest Channel / Full RB



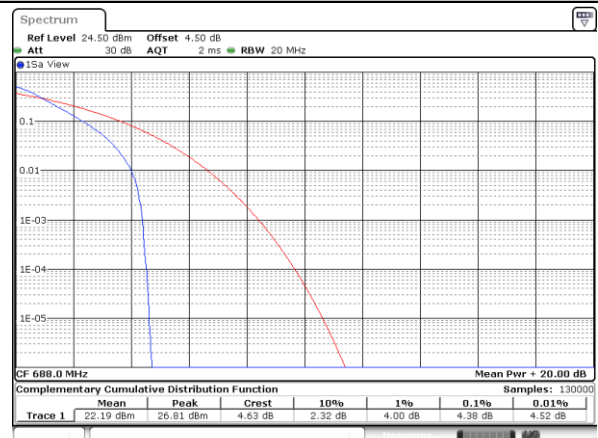
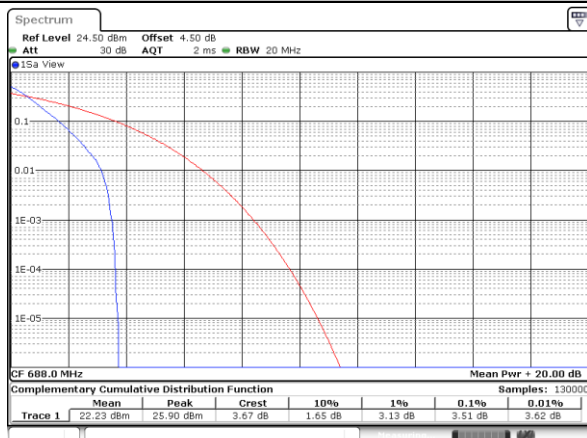
## Middle Channel / Full RB

## Middle Channel / Full RB



## Highest Channel / Full RB

## Highest Channel / Full RB





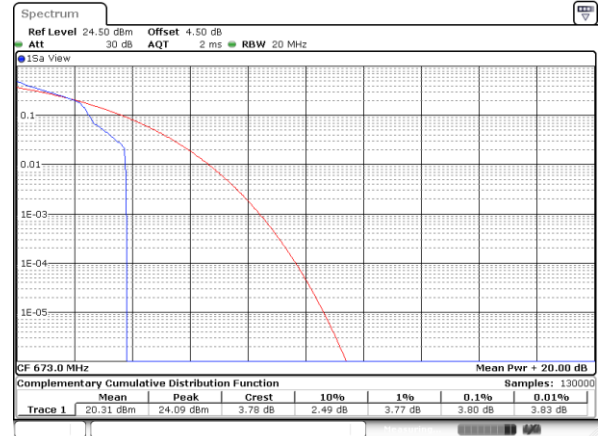
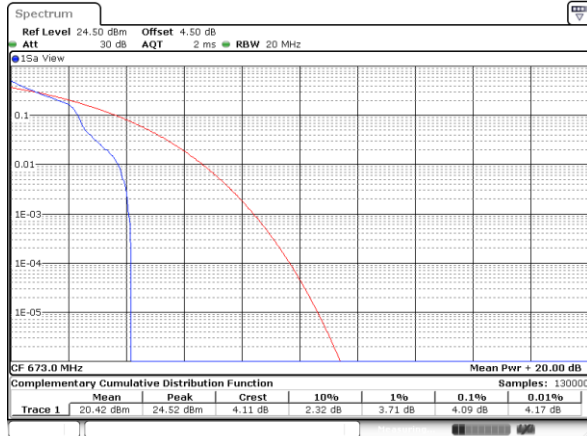
## 5G NR n71 / 20MHz / DFT-S OFDM

## PI/2 BPSK

## QPSK

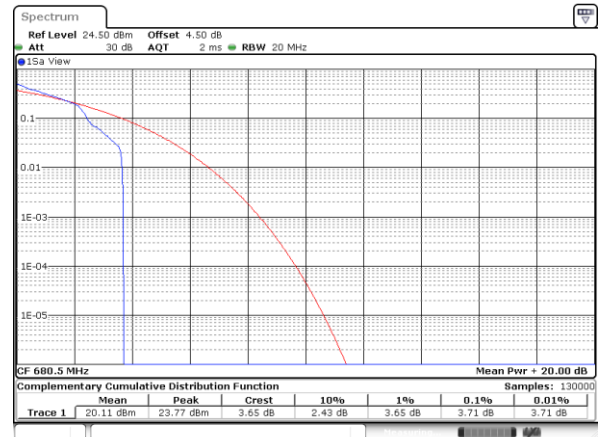
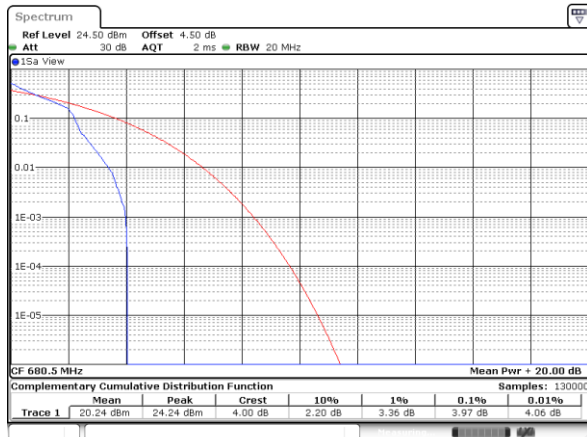
## Lowest Channel / 1RB0

## Lowest Channel / 1RB0



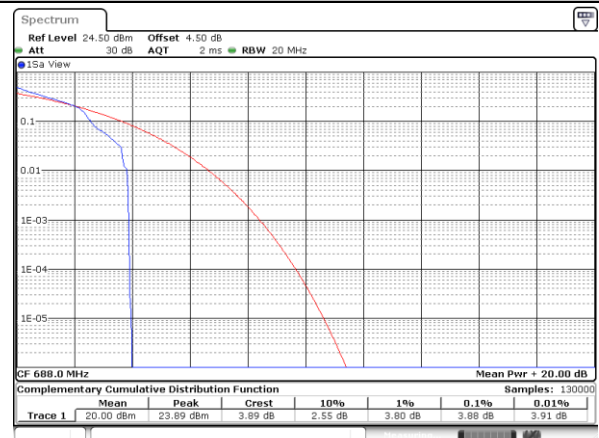
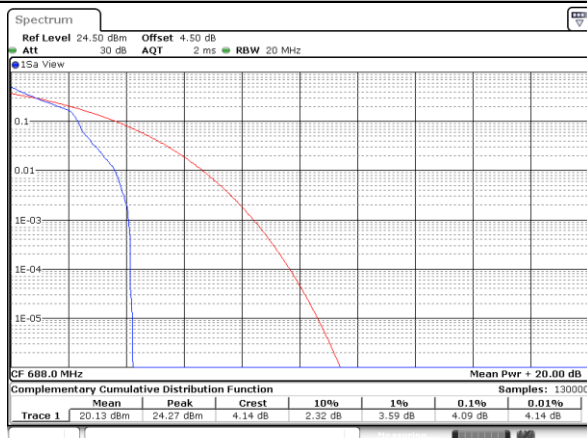
## Middle Channel / 1RB0

## Middle Channel / 1RB0



## Highest Channel / 1RB0

## Highest Channel / 1RB0





## 26dB Bandwidth

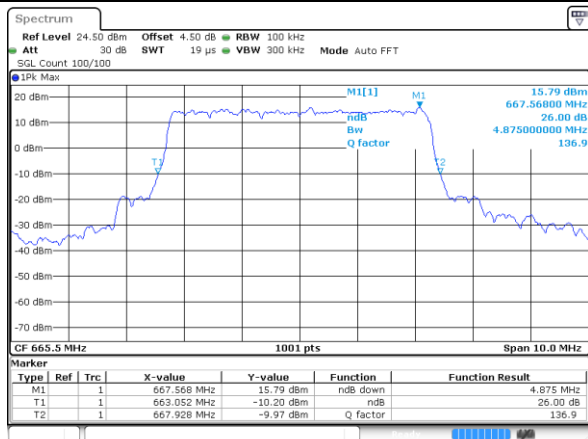
| Mode       | 5G NR n71 : 26dB BW(MHz) / DFT-S OFDM |      |           |      |           |       |           |       |
|------------|---------------------------------------|------|-----------|------|-----------|-------|-----------|-------|
| BW         | 5MHz                                  |      | 10MHz     |      | 15MHz     |       | 20MHz     |       |
| Mod.       | PI/2 BPSK                             | QPSK | PI/2 BPSK | QPSK | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Lowest CH  | 4.88                                  | 4.95 | 9.71      | 9.69 | 14.27     | 14.24 | 20.06     | 20.14 |
| Middle CH  | 4.88                                  | 5.00 | 9.65      | 9.73 | 14.18     | 14.27 | 20.10     | 20.14 |
| Highest CH | 4.93                                  | 4.88 | 9.71      | 9.75 | 14.30     | 14.18 | 20.22     | 20.18 |



## 5G NR n71 / 5MHz / DFT-S OFDM

## PI/2 BPSK

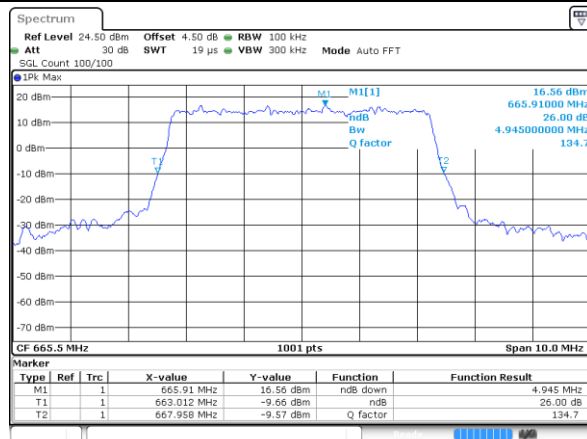
## Lowest Channel



Date: 5 SEP 2020 00:41:27

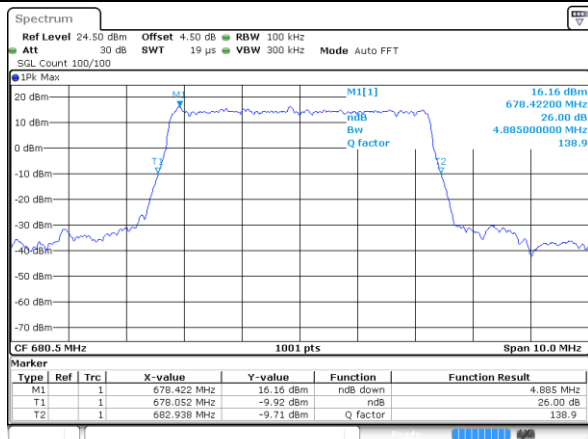
## QPSK

## Lowest Channel



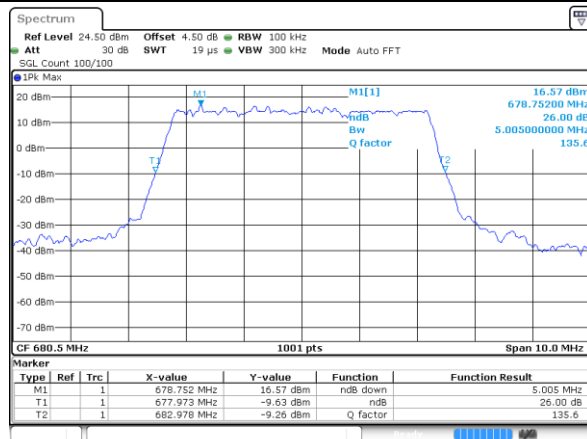
Date: 5 SEP 2020 00:41:38

## Middle Channel



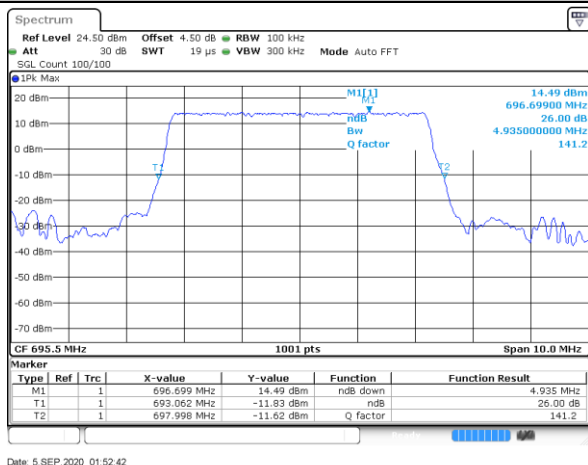
Date: 5 SEP 2020 01:51:03

## Middle Channel



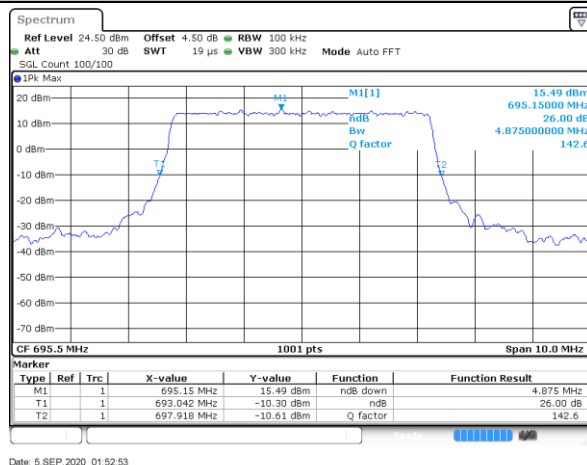
Date: 5 SEP 2020 01:51:16

## Highest Channel



Date: 5 SEP 2020 01:52:42

## Highest Channel



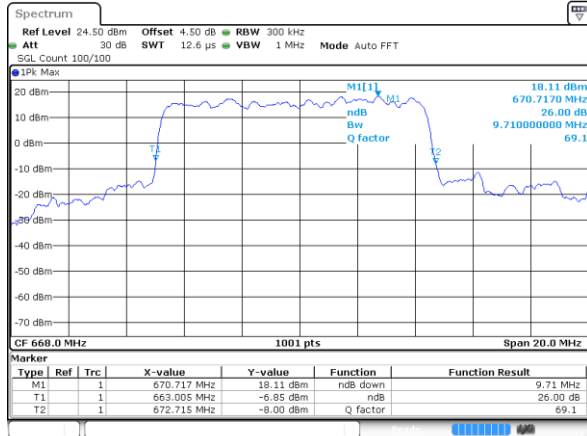
Date: 5 SEP 2020 01:52:53



## 5G NR n71 / 10MHz / DFT-S OFDM

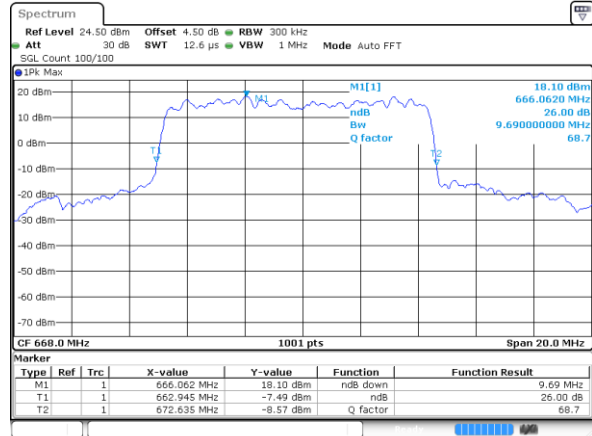
## PI/2 BPSK

## Lowest Channel

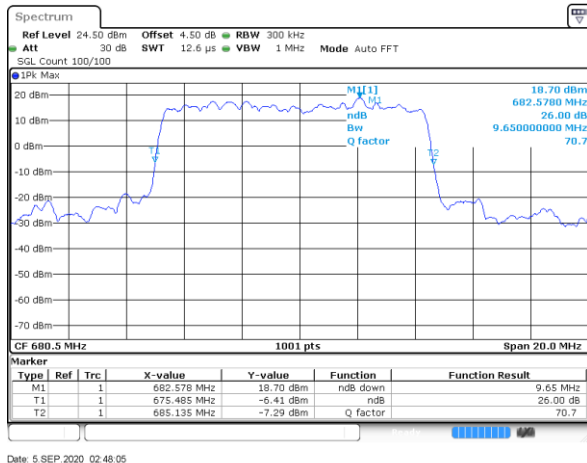


## QPSK

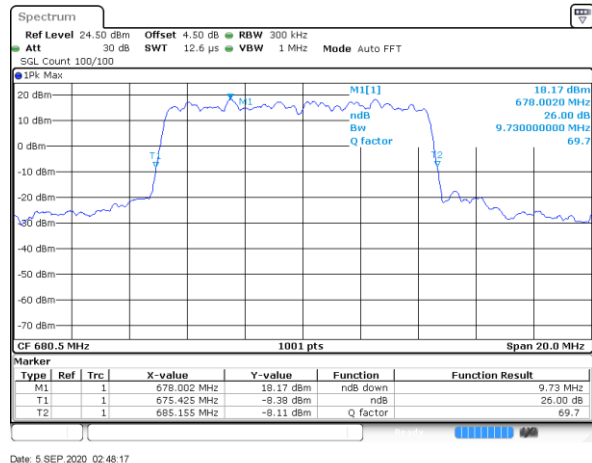
## Lowest Channel



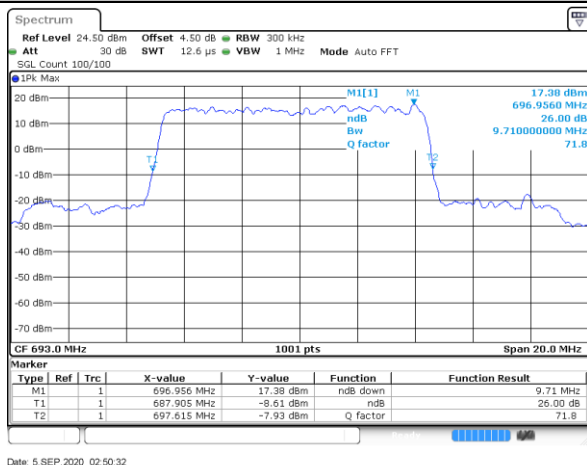
## Middle Channel



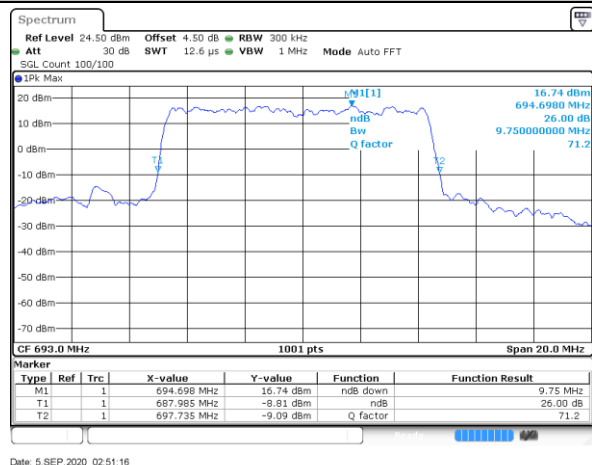
## Middle Channel



## Highest Channel



## Highest Channel





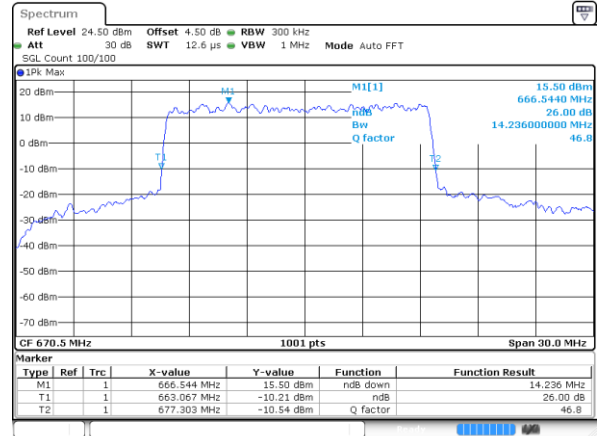
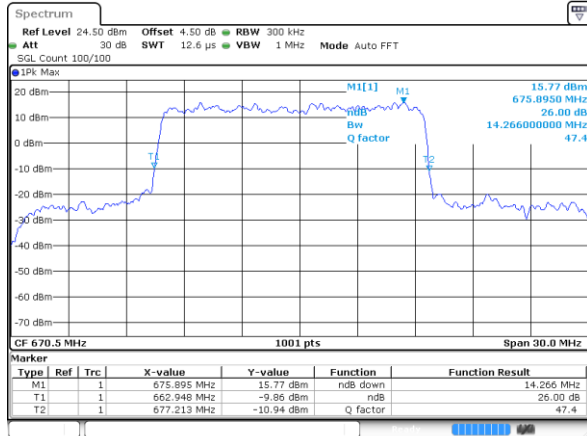
## 5G NR n71 / 15MHz / DFT-S OFDM

## PI/2 BPSK

## QPSK

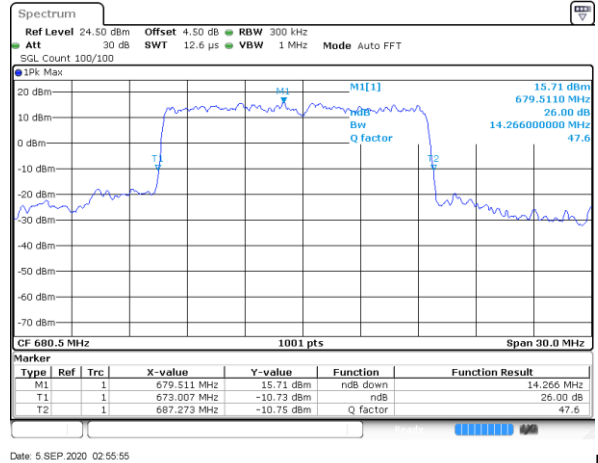
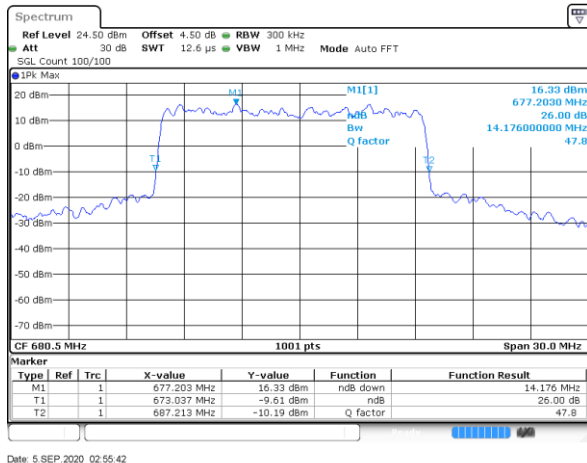
## Lowest Channel

## Lowest Channel



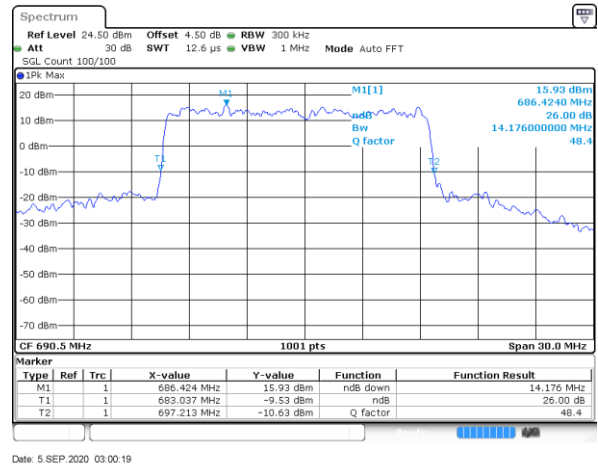
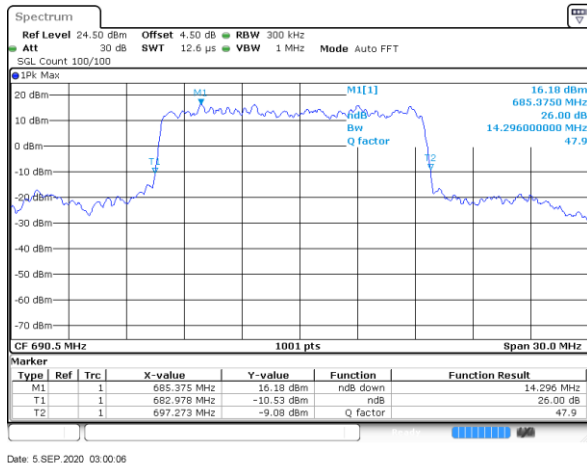
## Middle Channel

## Middle Channel



## Highest Channel

## Highest Channel

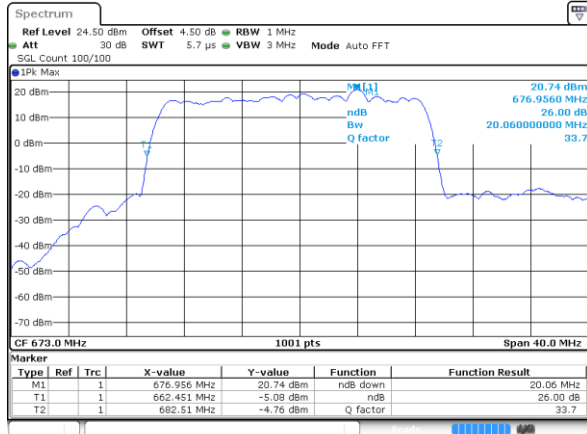




## 5G NR n71 / 20MHz / DFT-S OFDM

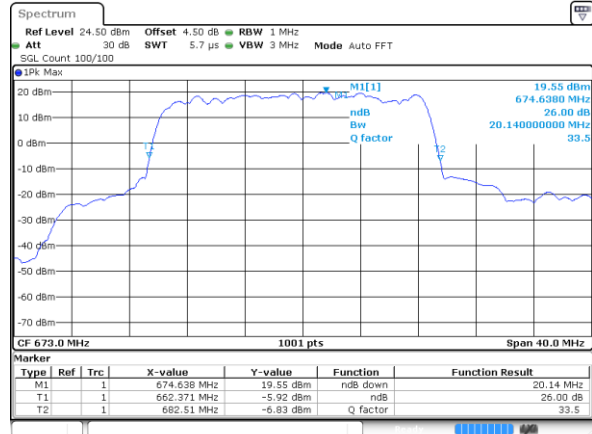
## PI/2 BPSK

## Lowest Channel

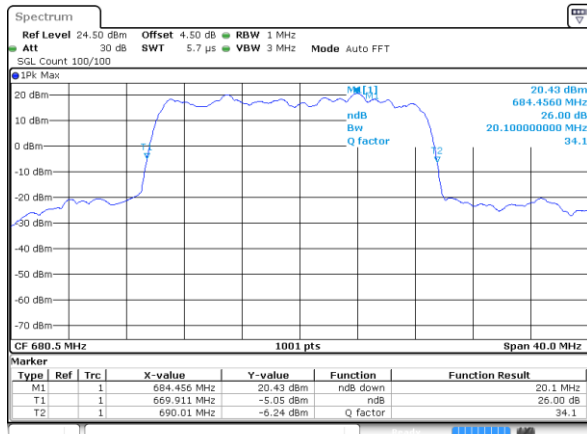


## QPSK

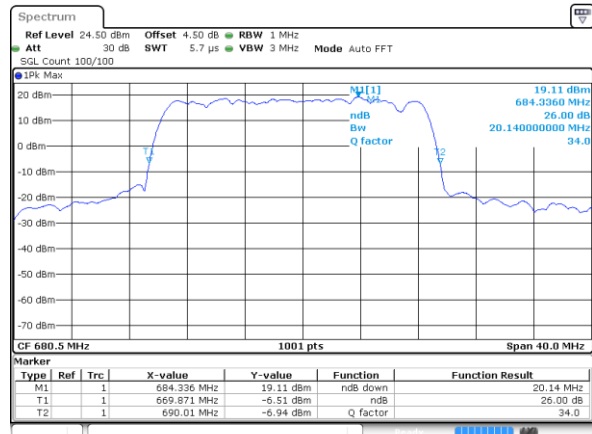
## Lowest Channel



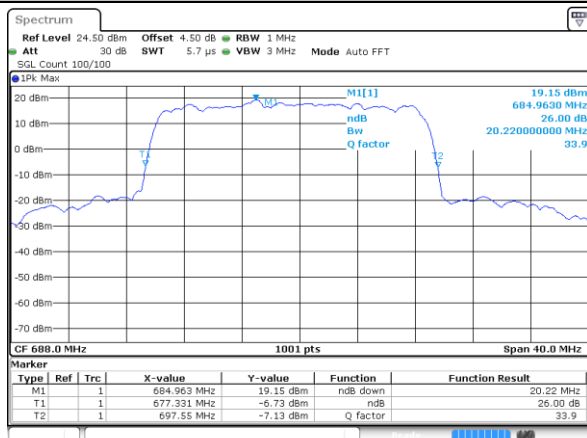
## Middle Channel



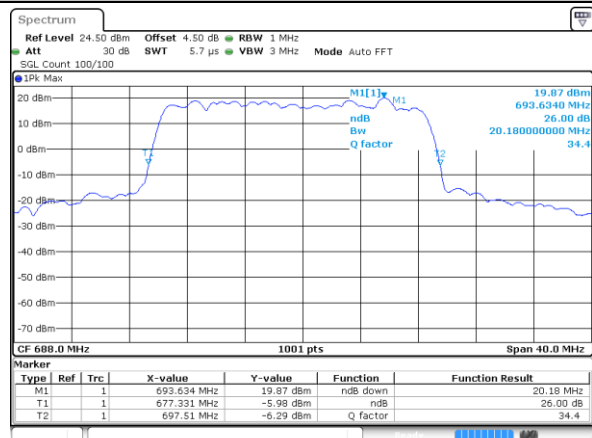
## Middle Channel



## Highest Channel



## Highest Channel





## Occupied Bandwidth

| Mode       | 5G NR n71 : 99%OBW(MHz) / DFT-S OFDM |           |           |           |
|------------|--------------------------------------|-----------|-----------|-----------|
| BW         | 5MHz                                 | 10MHz     | 15MHz     | 20MHz     |
| Mod.       | PI/2 BPSK                            | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK |
| Lowest CH  | 4.47                                 | 9.07      | 13.43     | 18.26     |
| Middle CH  | 4.46                                 | 9.01      | 13.49     | 18.22     |
| Highest CH | 4.47                                 | 9.05      | 13.49     | 18.34     |

| Mode       | 5G NR n71 : 99%OBW (MHz) / DFT-S OFDM |       |       |       |       |       |       |       |
|------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                                  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                                  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 4.48                                  | 4.48  | 9.03  | 9.05  | 13.46 | 13.52 | 18.14 | 18.22 |
| Middle CH  | 4.49                                  | 4.47  | 9.09  | 9.05  | 13.55 | 13.46 | 18.26 | 18.38 |
| Highest CH | 4.50                                  | 4.50  | 9.05  | 9.07  | 13.49 | 13.46 | 18.26 | 18.46 |

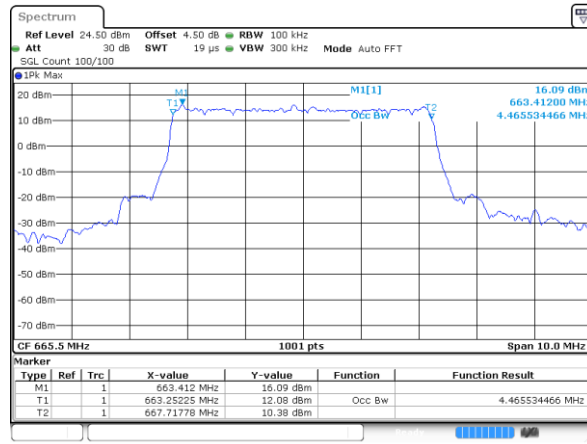
| Mode       | 5G NR n71 : 99%OBW (MHz) / DFT-S OFDM |        |       |        |       |        |       |        |
|------------|---------------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW         | 5MHz                                  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                                 | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | 4.48                                  | 4.50   | 8.99  | 9.03   | 13.46 | 13.40  | 18.10 | 18.22  |
| Middle CH  | 4.47                                  | 4.47   | 9.03  | 9.05   | 13.46 | 13.46  | 18.10 | 18.18  |
| Highest CH | 4.49                                  | 4.50   | 9.03  | 9.05   | 13.43 | 13.52  | 18.22 | 18.22  |



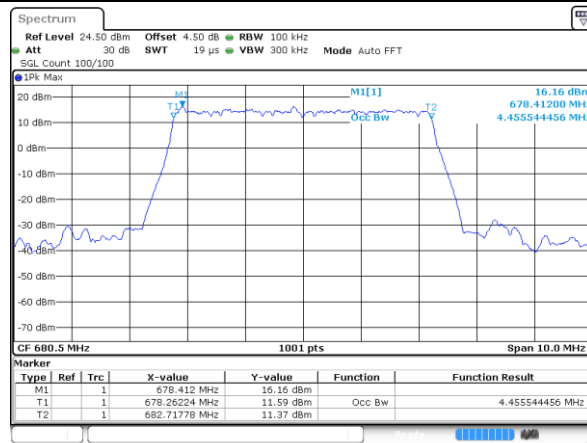
## 5G NR n71 / 5MHz / DFT-S OFDM

## PI/2 BPSK

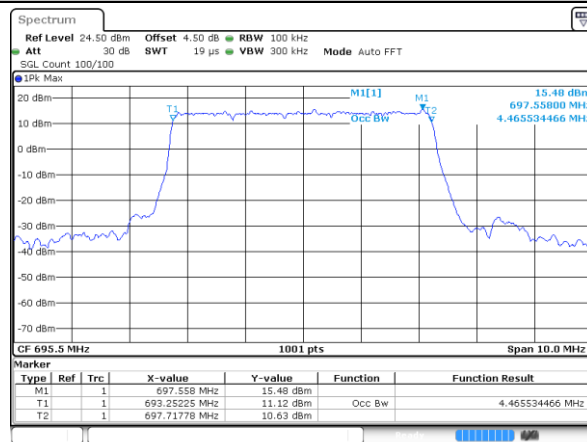
## Lowest Channel



## Middle Channel



## Highest Channel

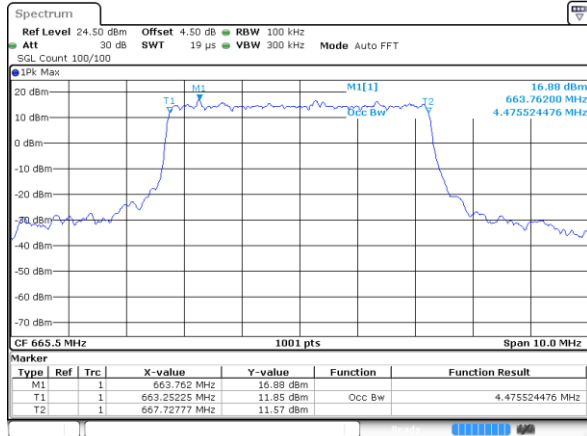




## 5G NR n71 / 5MHz / DFT-S OFDM

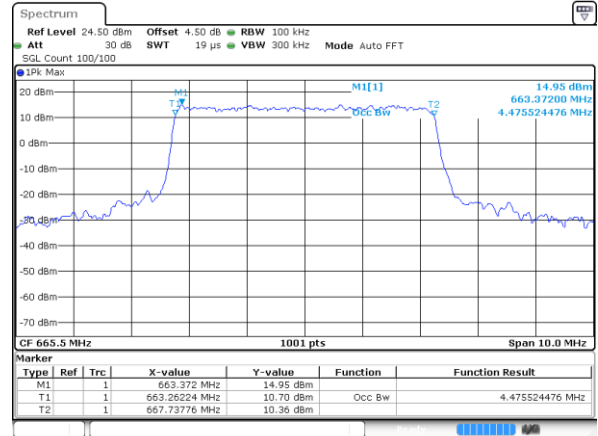
## QPSK

## Lowest Channel

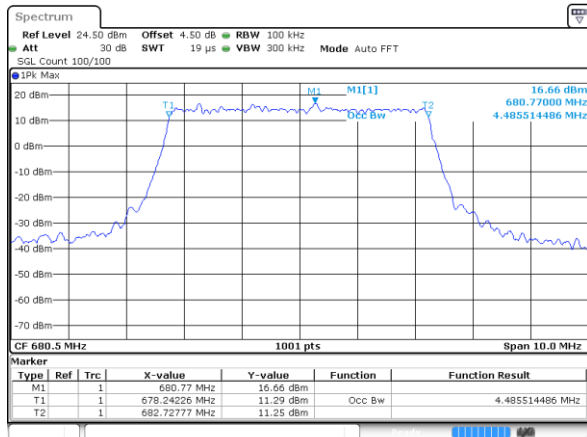


## 16QAM

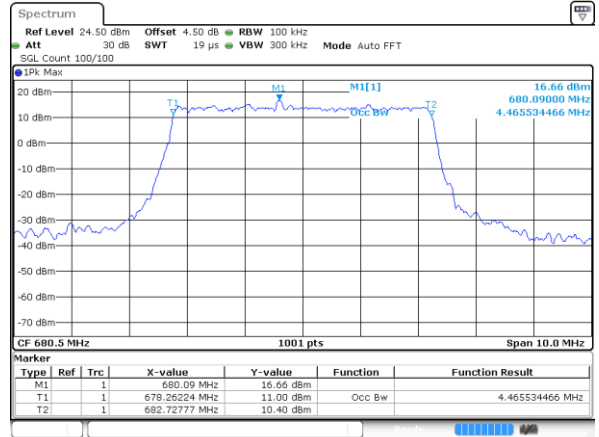
## Lowest Channel



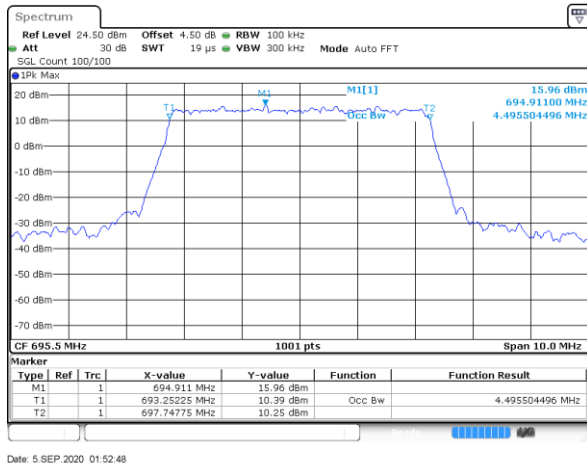
## Middle Channel



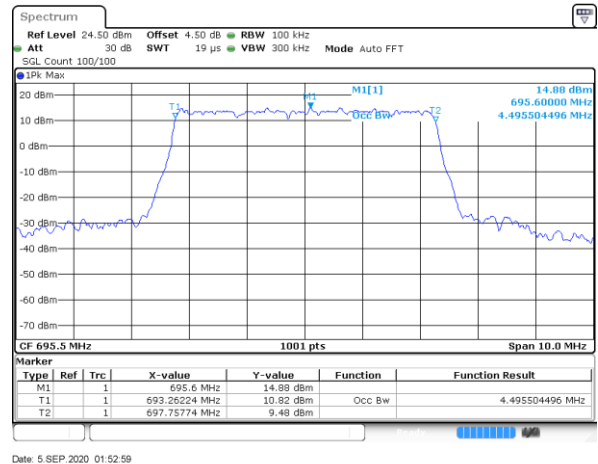
## Middle Channel



## Highest Channel



## Highest Channel

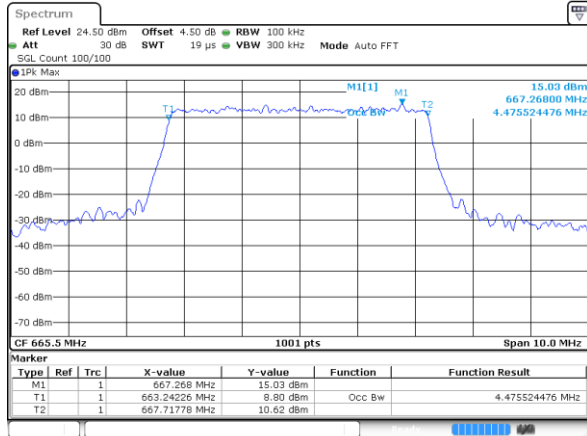




## 5G NR n71 / 5MHz / DFT-S OFDM

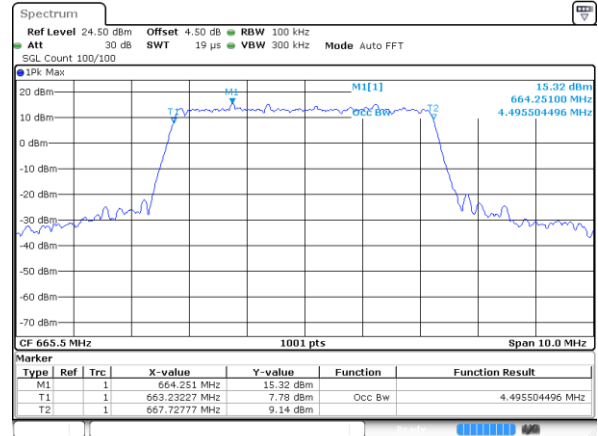
## 64QAM

## Lowest Channel

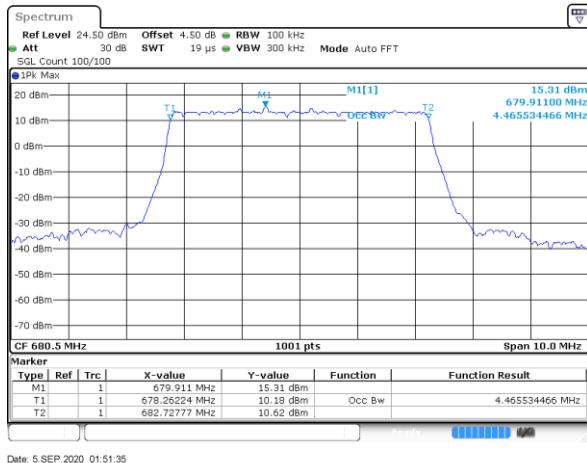


## 256QAM

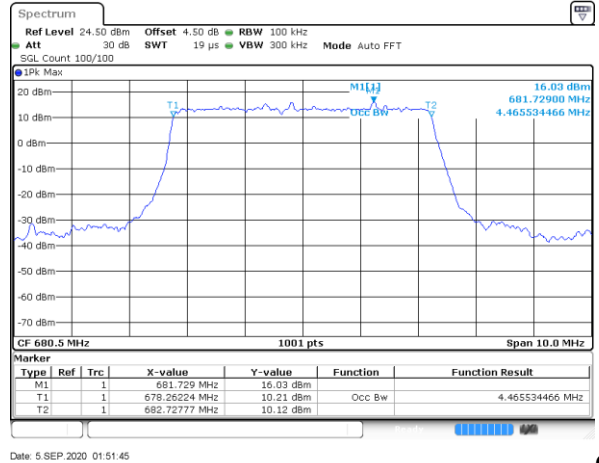
## Lowest Channel



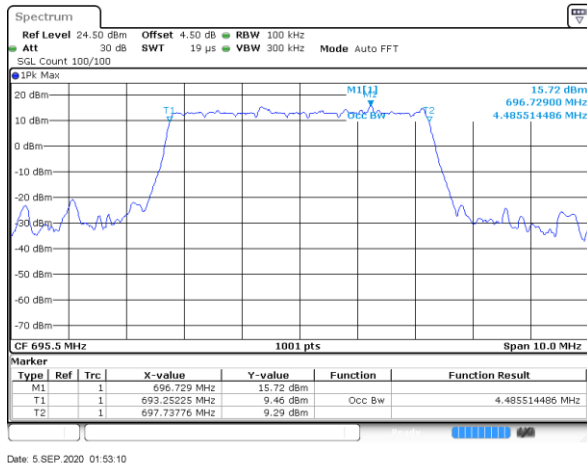
## Middle Channel



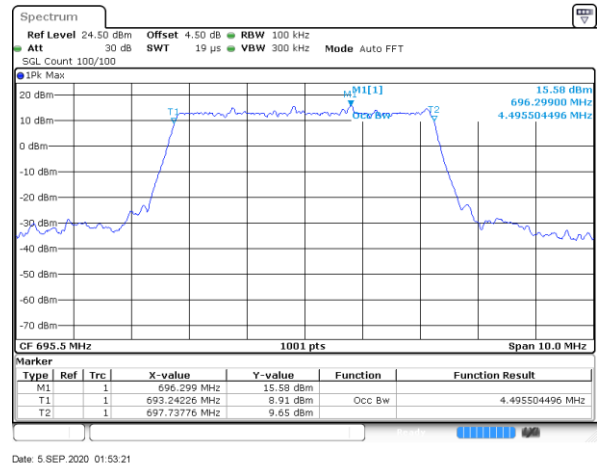
## Middle Channel



## Highest Channel



## Highest Channel

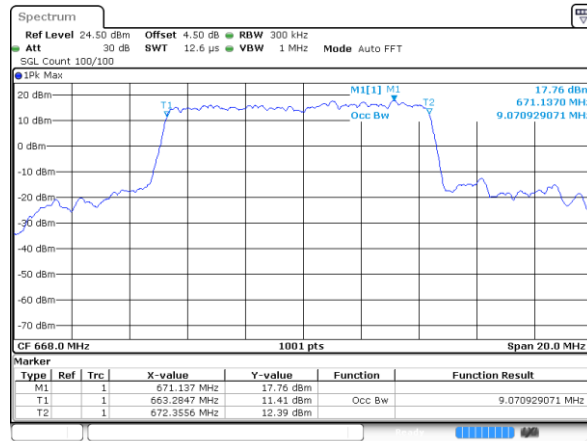




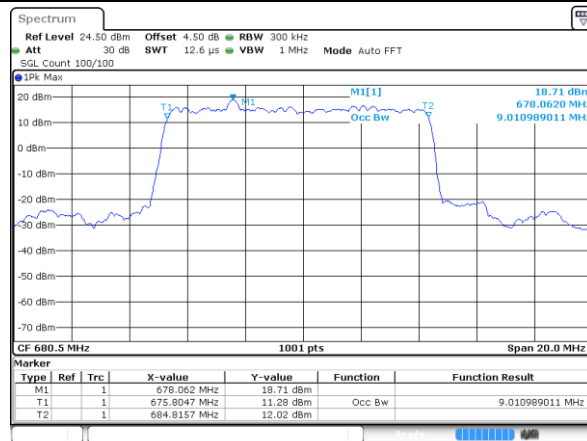
## 5G NR n71 / 10MHz / DFT-S OFDM

## PI/2 BPSK

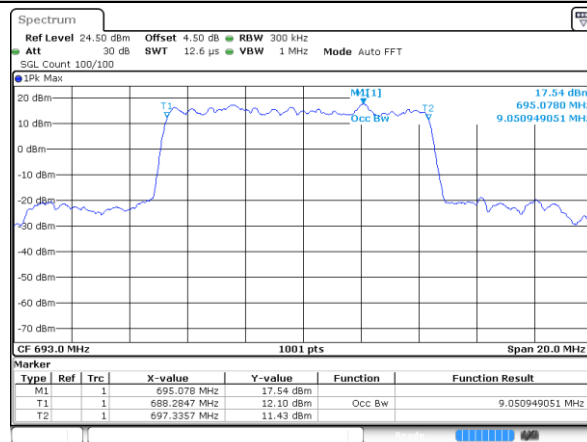
## Lowest Channel



## Middle Channel



## Highest Channel





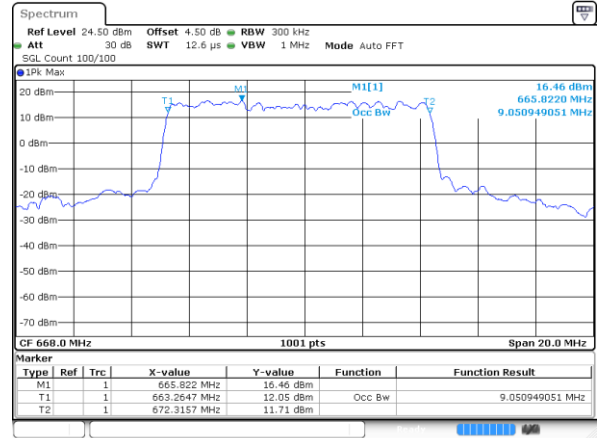
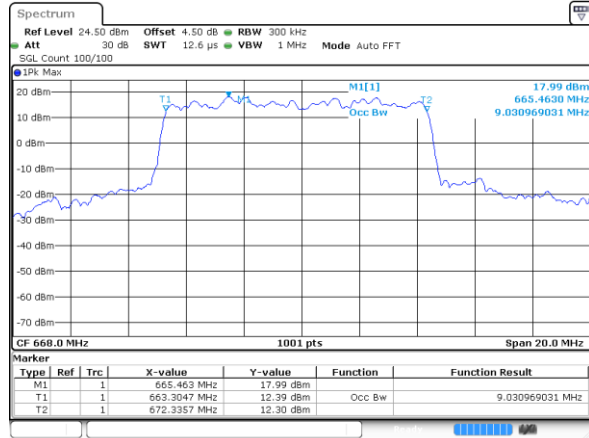
## 5G NR n71 / 10MHz / DFT-S OFDM

## QPSK

## 16QAM

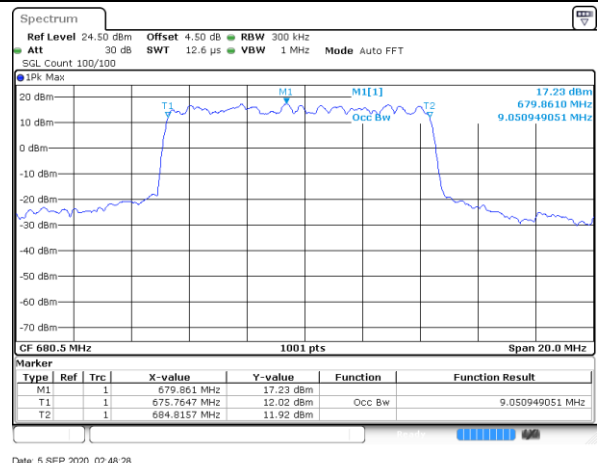
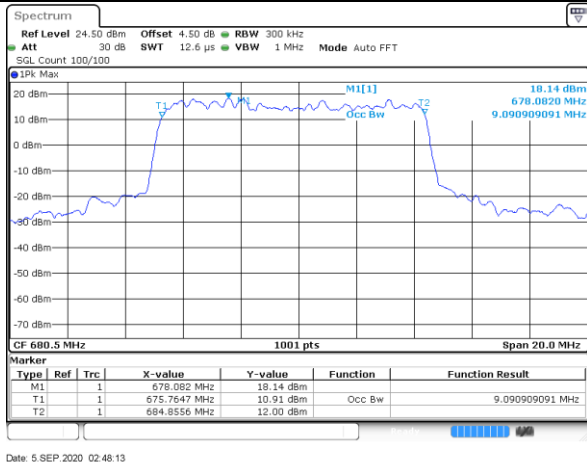
## Lowest Channel

## Lowest Channel



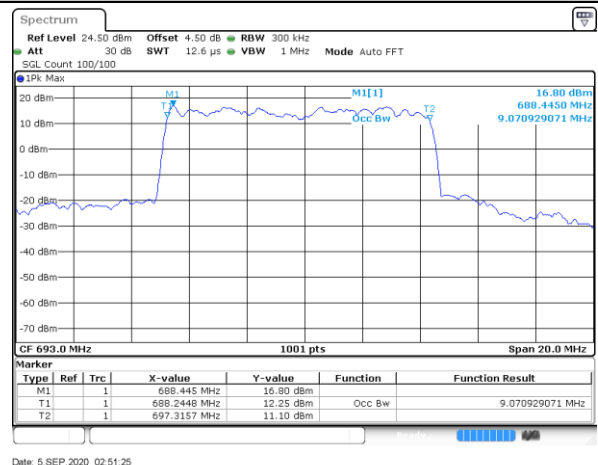
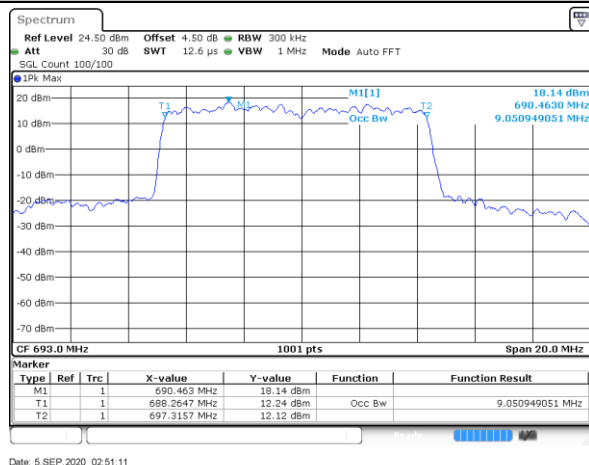
## Middle Channel

## Middle Channel



## Highest Channel

## Highest Channel

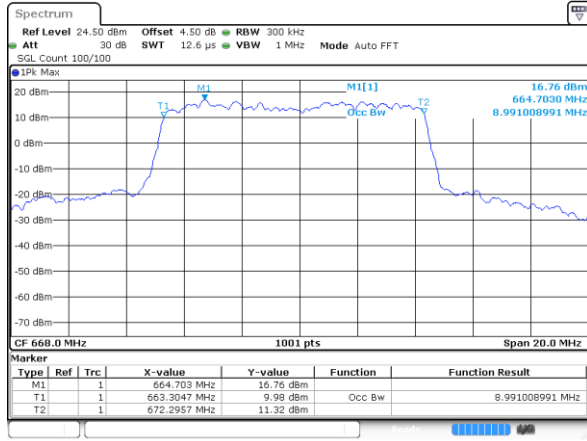




## 5G NR n71 / 10MHz / DFT-S OFDM

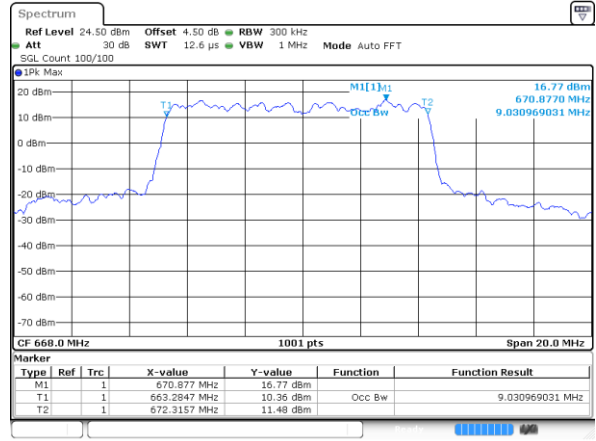
## 64QAM

## Lowest Channel

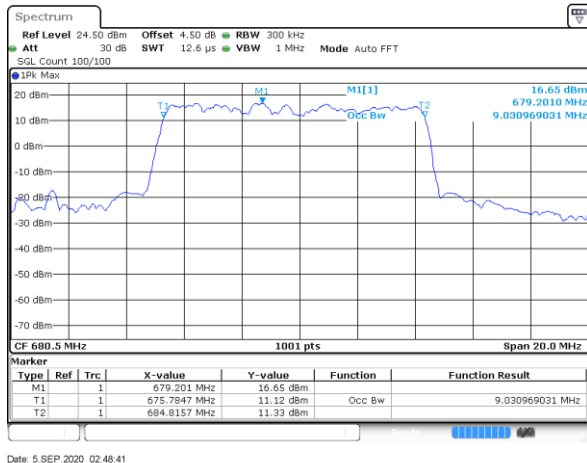


## 256QAM

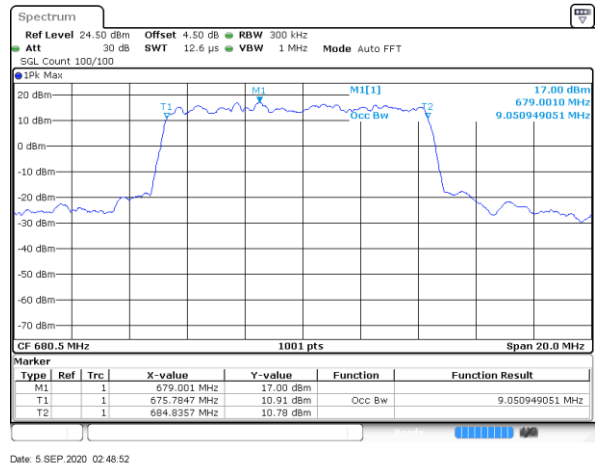
## Lowest Channel



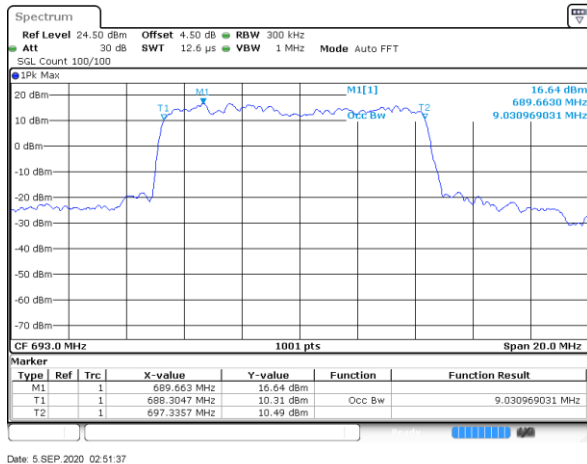
## Middle Channel



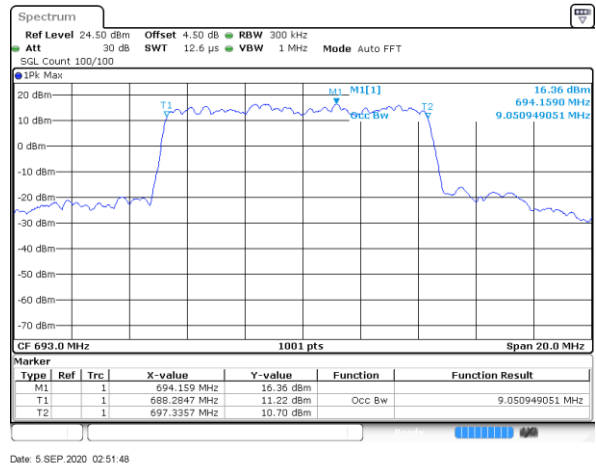
## Middle Channel



## Highest Channel



## Highest Channel

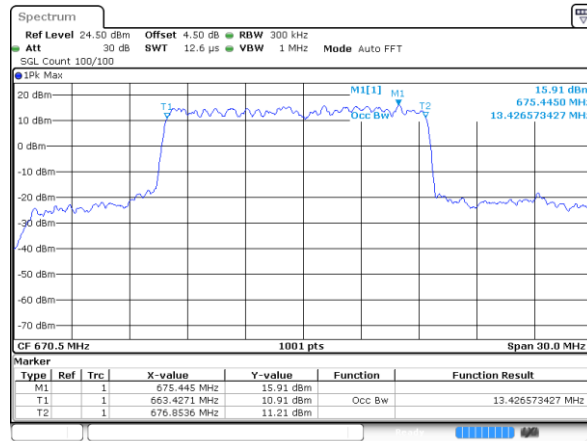




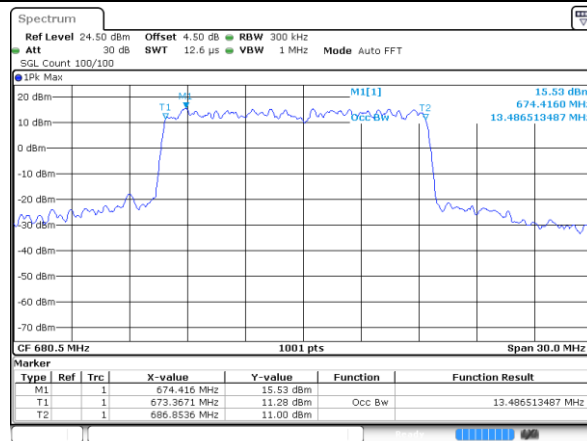
## 5G NR n71 / 15MHz / DFT-S OFDM

## PI/2 BPSK

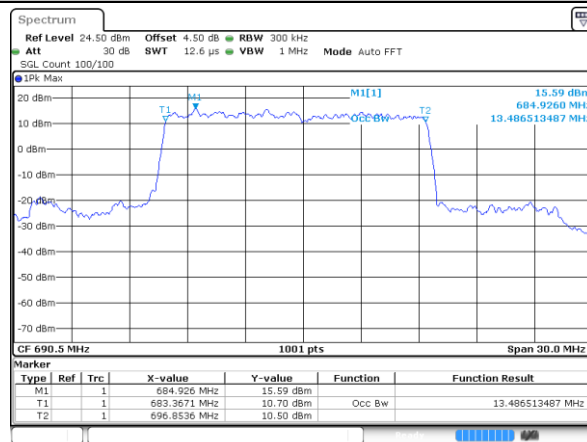
## Lowest Channel



## Middle Channel



## Highest Channel

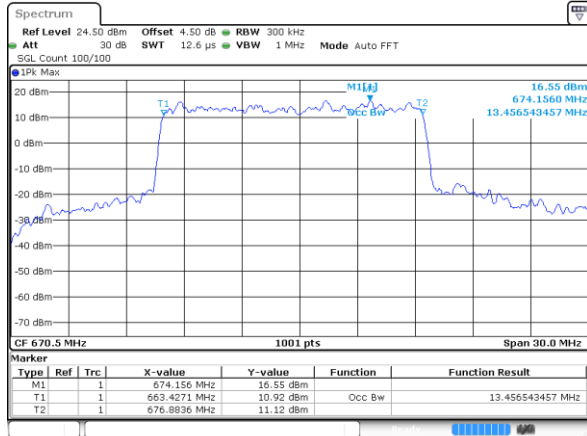




## 5G NR n71 / 15MHz / DFT-S OFDM

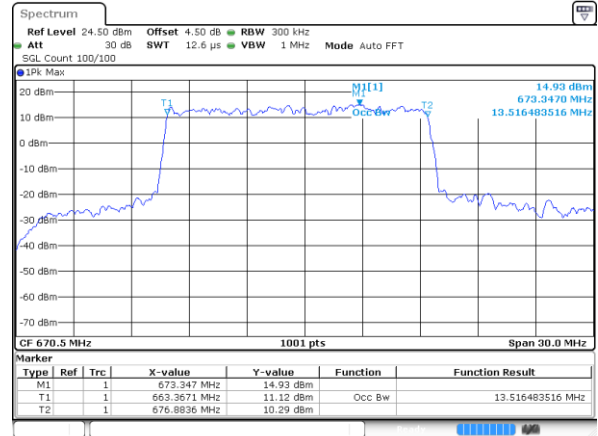
## QPSK

## Lowest Channel

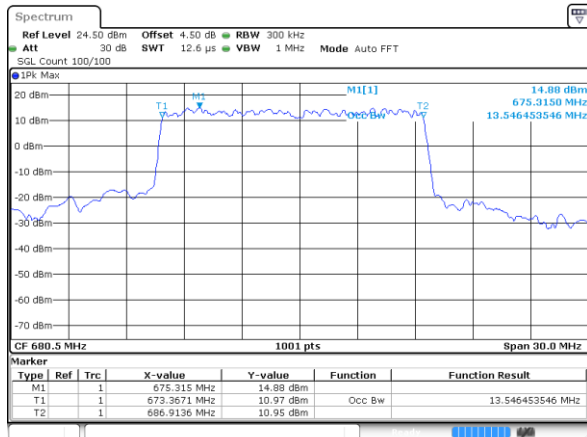


## 16QAM

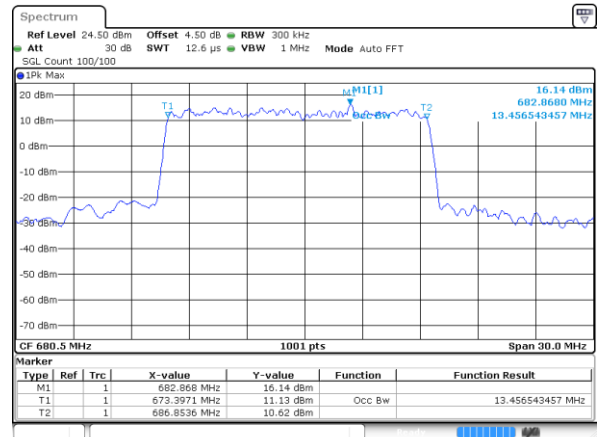
## Lowest Channel



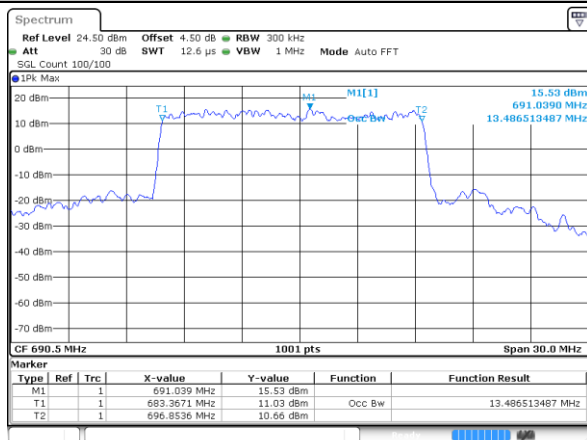
## Middle Channel



## Middle Channel



## Highest Channel



## Highest Channel

