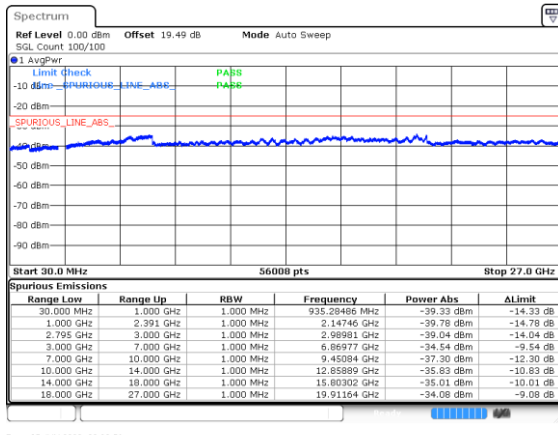




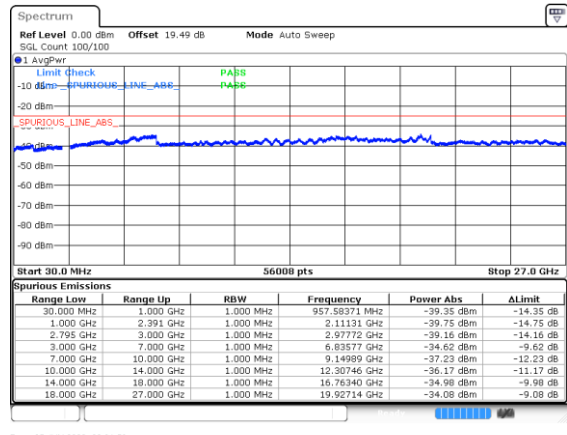
## N41 90MHz

## Lowest Channel / BPSK



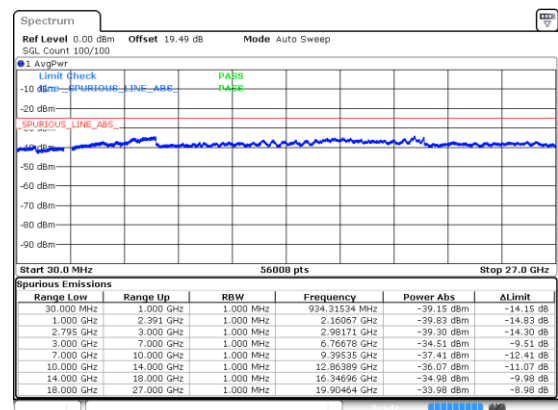
Data: 26.8.11.2020, 00:30:58

## Lowest Channel / QPSK



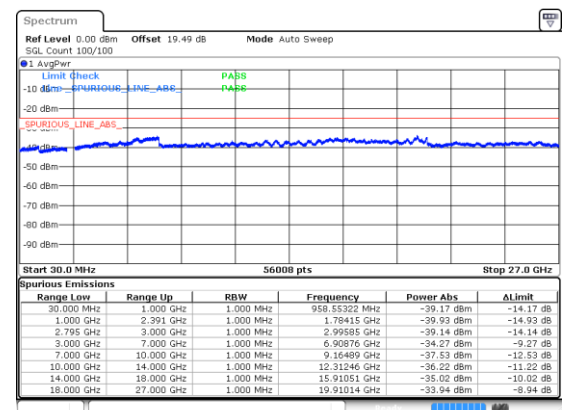
Data: 26.8.11.2020, 00:31:53

## Middle Channel / BPSK



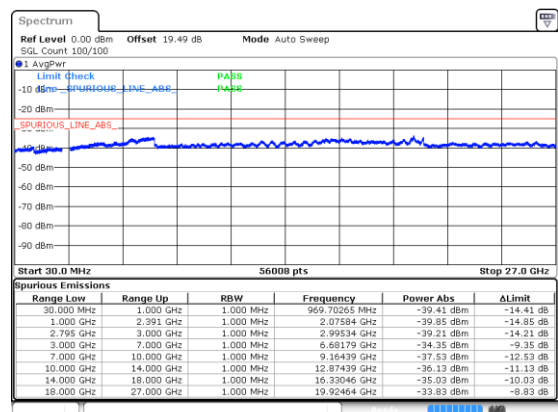
Data: 26.8.11.2020, 00:32:58

## Middle Channel / QPSK



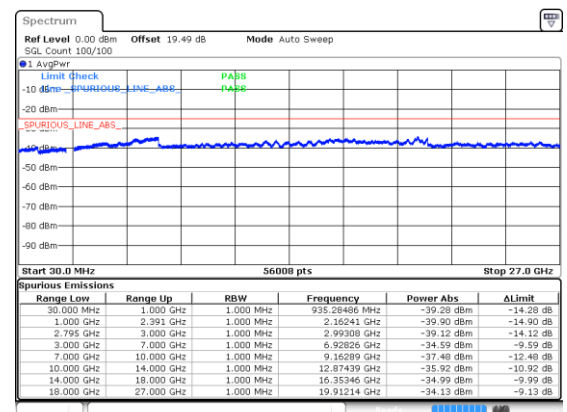
Data: 26.8.11.2020, 00:33:53

## Highest Channel / BPSK



Data: 26.8.11.2020, 00:34:58

## Highest Channel / QPSK

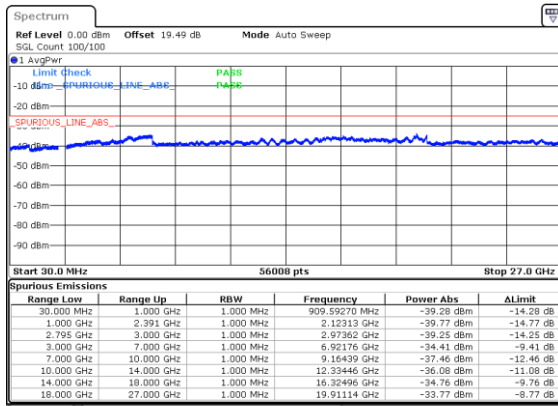


Data: 26.8.11.2020, 00:35:53



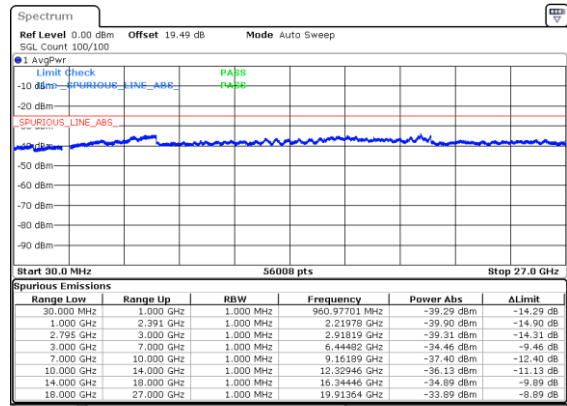
## N41 90MHz

## Lowest Channel / 16QAM



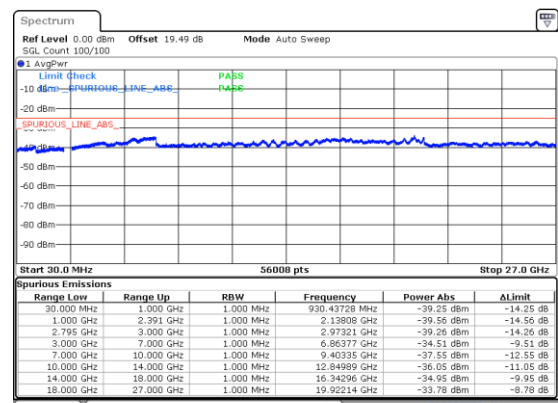
Data: 26.8.2020, 00:33:43

## Lowest Channel / 64QAM

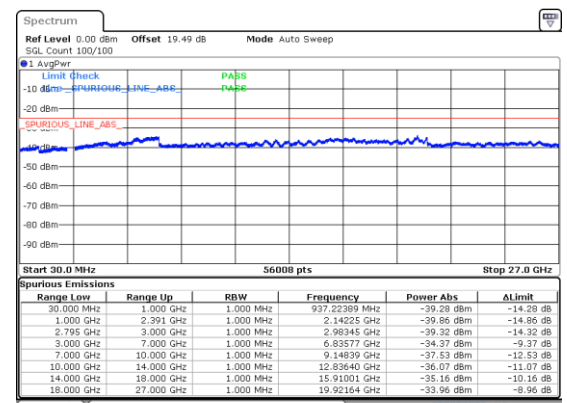


Data: 26.8.2020, 00:33:50

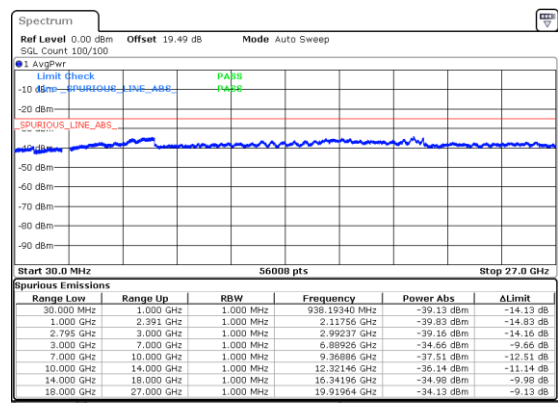
## Middle Channel / 16QAM



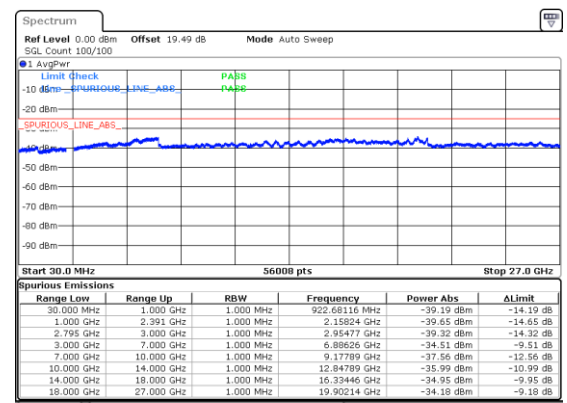
## Middle Channel / 64QAM



## Highest Channel / 16QAM



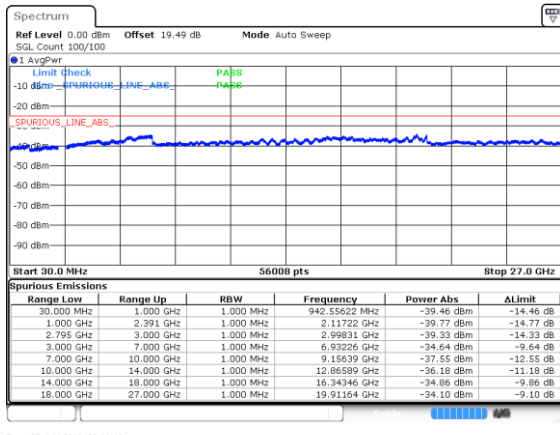
## Highest Channel / 64QAM



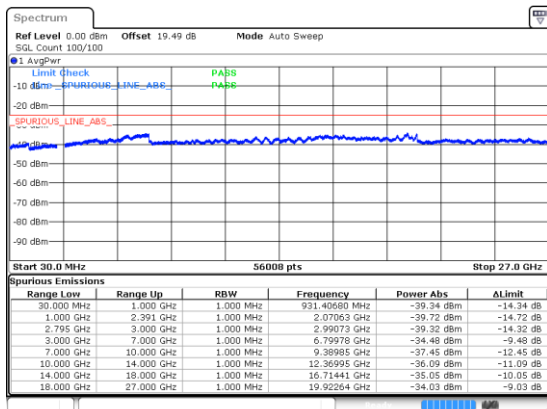


## N41 90MHz

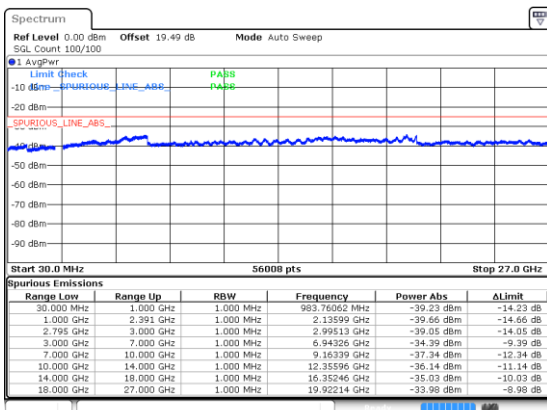
## Lowest Channel / 256QAM



## Middle Channel / 256QAM



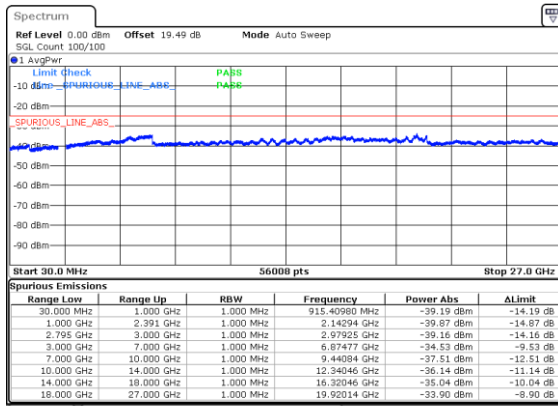
## Highest Channel / 256QAM





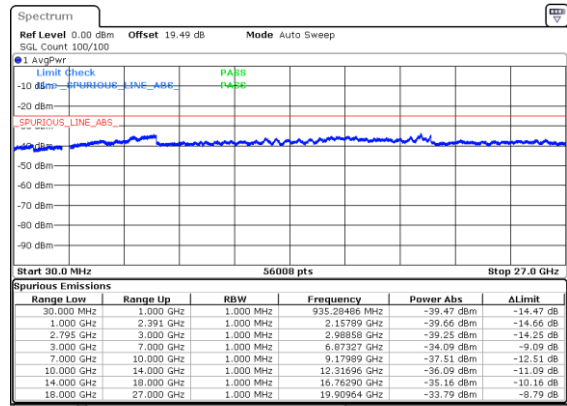
## N41 100MHz

## Lowest Channel / BPSK



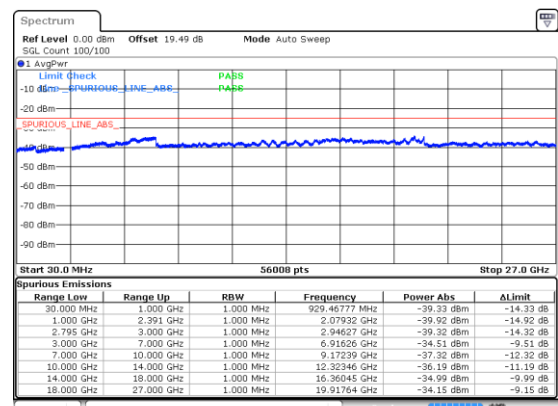
Data: 26.8.2020, 04:33:06

## Lowest Channel / QPSK



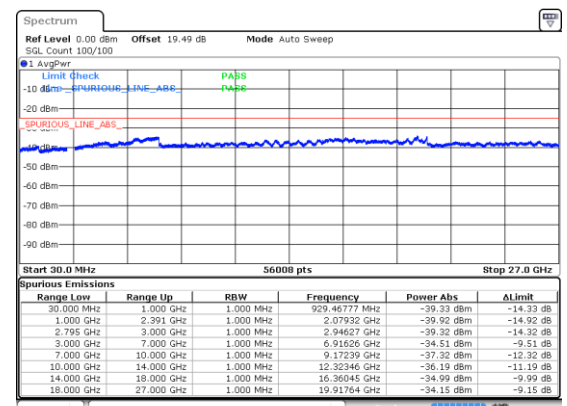
Data: 26.8.2020, 04:34:52

## Middle Channel / BPSK



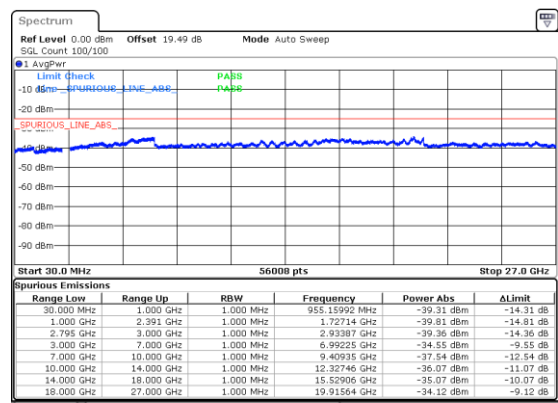
Data: 26.8.2020, 04:35:06

## Middle Channel / QPSK



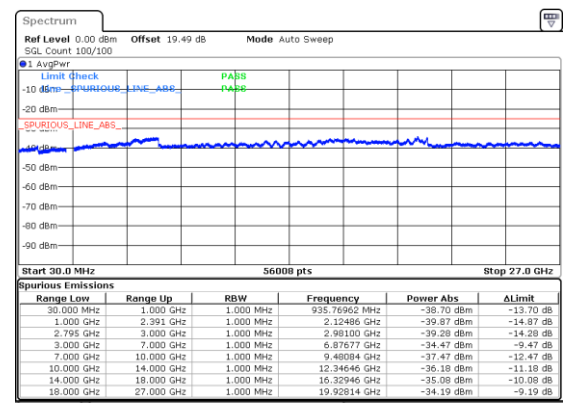
Data: 26.8.2020, 04:35:12

## Highest Channel / BPSK



Data: 26.8.2020, 04:35:21

## Highest Channel / QPSK

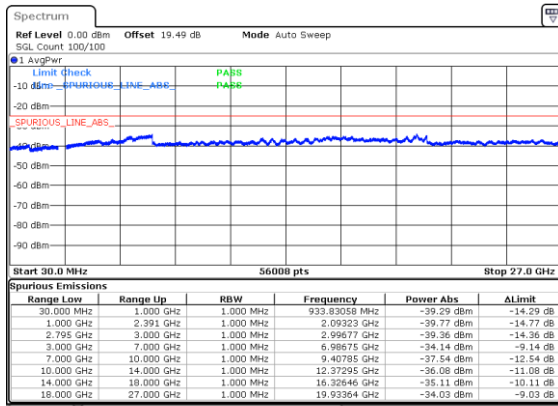


Data: 26.8.2020, 04:35:27

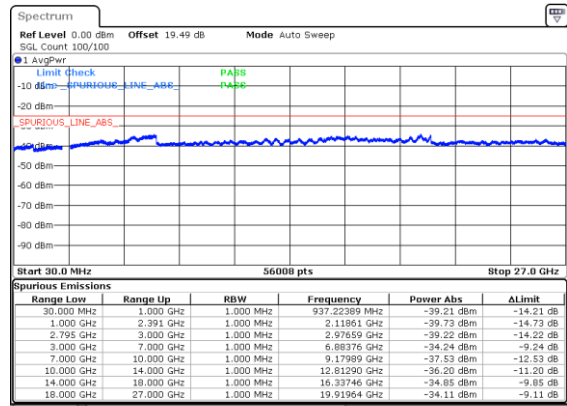


## N41 100MHz

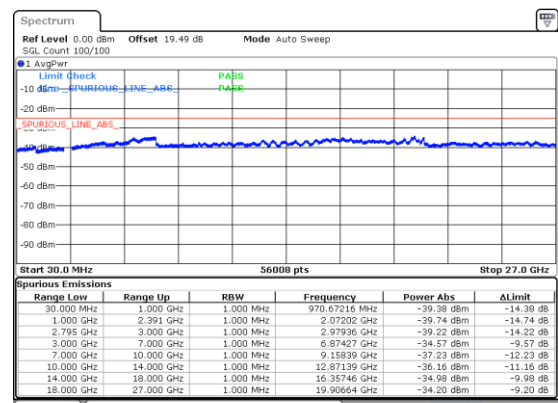
## Lowest Channel / 16QAM



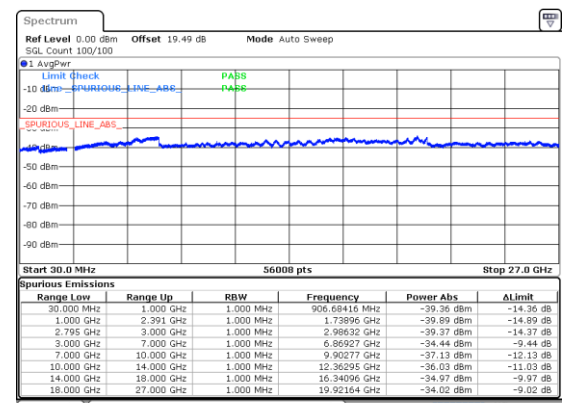
## Lowest Channel / 64QAM



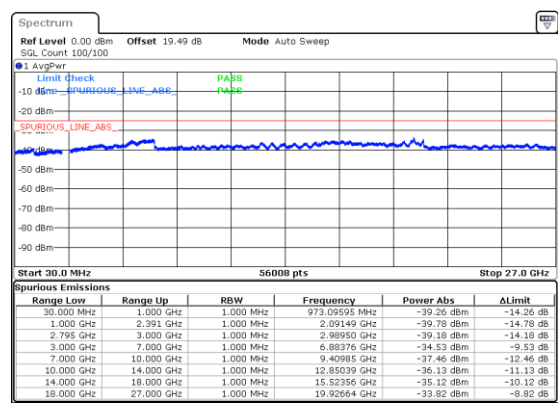
## Middle Channel / 16QAM



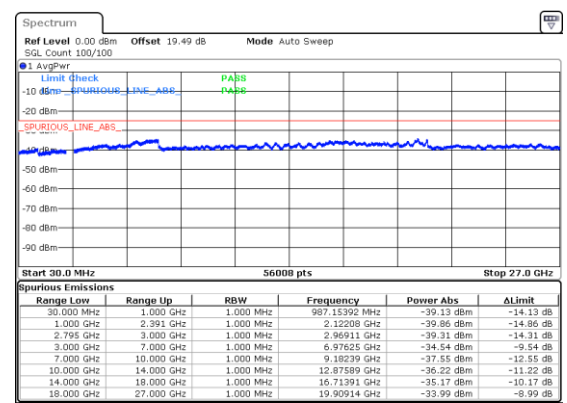
## Middle Channel / 64QAM



## Highest Channel / 16QAM



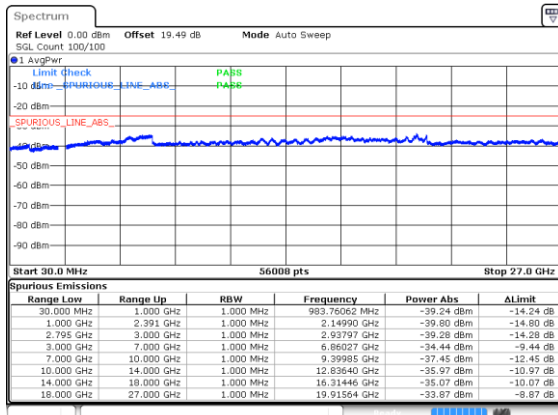
## Highest Channel / 64QAM





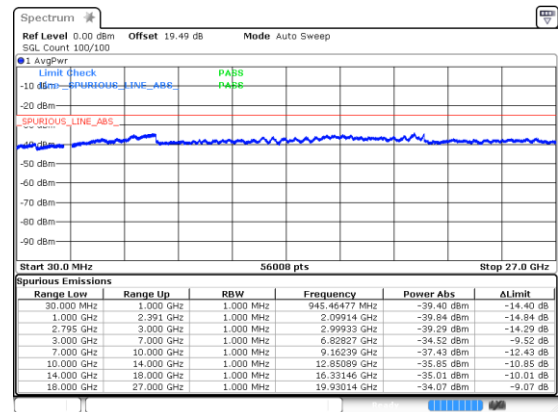
## N41 100MHz

## Lowest Channel / 256QAM

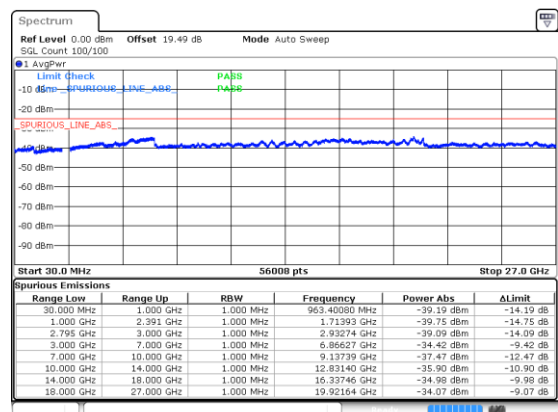


Data: 26. 8/1/2020, 04:33:56

## Middle Channel / 256QAM



## Highest Channel / 256QAM



## Frequency Stability

| Test Conditions  |                   | n41 (BPSK) / Middle Channel | Limit   |
|------------------|-------------------|-----------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | 20MHz                       | Note 2. |
|                  |                   | Deviation (ppm)             | Result  |
| 50               | Normal Voltage    | 0.0018                      | PASS    |
| 40               | Normal Voltage    | 0.0014                      |         |
| 30               | Normal Voltage    | 0.0018                      |         |
| 20(Ref.)         | Normal Voltage    | 0.0013                      |         |
| 10               | Normal Voltage    | 0.0001                      |         |
| 0                | Normal Voltage    | 0.0016                      |         |
| -10              | Normal Voltage    | 0.0005                      |         |
| -20              | Normal Voltage    | 0.0019                      |         |
| -30              | Normal Voltage    | 0.0003                      |         |
| 20               | Maximum Voltage   | 0.0023                      |         |
| 20               | Normal Voltage    | 0.0013                      |         |
| 20               | Battery End Point | 0.0008                      |         |

**Note:**

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

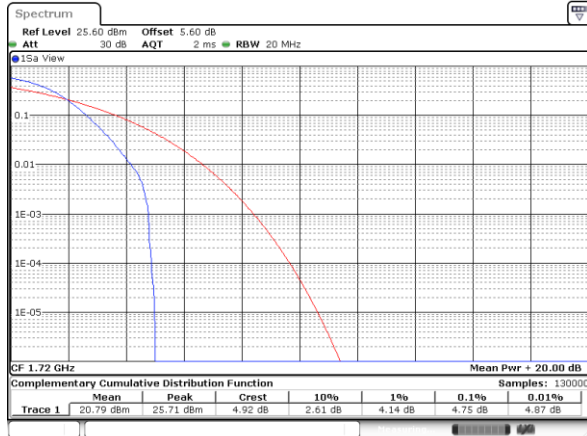


## 5G NR n66

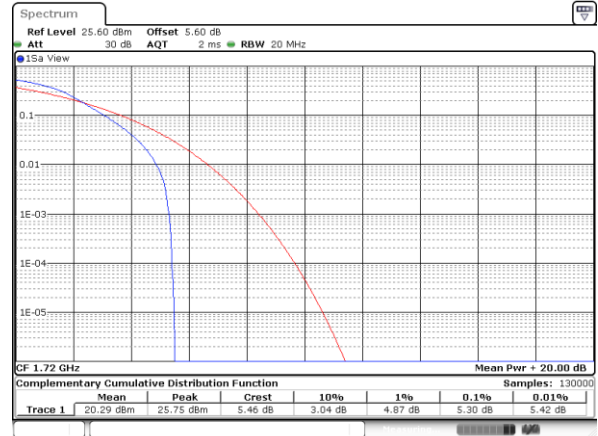
**Peak-to-Average Ratio**

| Mode       | N66 / 20MHz |         |        |         |             |
|------------|-------------|---------|--------|---------|-------------|
| Mod.       | QPSK        |         | 16QAM  |         | Limit: 13dB |
| RB Size    | 1RB         | Full RB | 1RB    | Full RB | Result      |
| Lowest CH  | 4.70        | 5.30    | 5.54   | 6.43    | PASS        |
| Middle CH  | 4.87        | 5.28    | 6.03   | 6.41    |             |
| Highest CH | 4.81        | 5.36    | 5.77   | 6.49    |             |
| Mode       | N66 / 20MHz |         |        |         |             |
| Mod.       | 64QAM       |         | 256QAM |         | Limit: 13dB |
| RB Size    | 1RB         | Full RB | 1RB    | Full RB | Result      |
| Lowest CH  | 6.32        | 6.90    | 6.96   | 7.36    | PASS        |
| Middle CH  | 6.55        | 6.87    | 6.84   | 7.48    |             |
| Highest CH | 6.41        | 6.90    | 7.16   | 7.39    |             |
| Mode       | N66 / 20MHz |         |        |         |             |
| Mod.       | BPSK        |         |        |         | Limit: 13dB |
| RB Size    | 1RB         | Full RB |        |         | Result      |
| Lowest CH  | 4.99        | 4.75    |        |         | PASS        |
| Middle CH  | 5.19        | 4.52    |        |         |             |
| Highest CH | 5.07        | 4.72    |        |         |             |

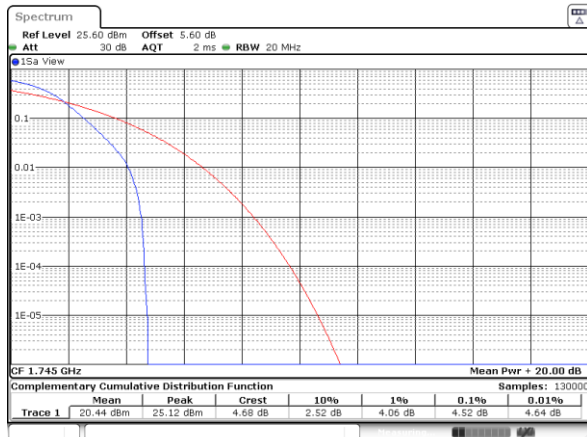


**5G NR n66 / 20MHz / DFT-S OFDM**
**PI/2 BPSK**
**QPSK**
**Lowest Channel / Full RB**
**Lowest Channel / Full RB**


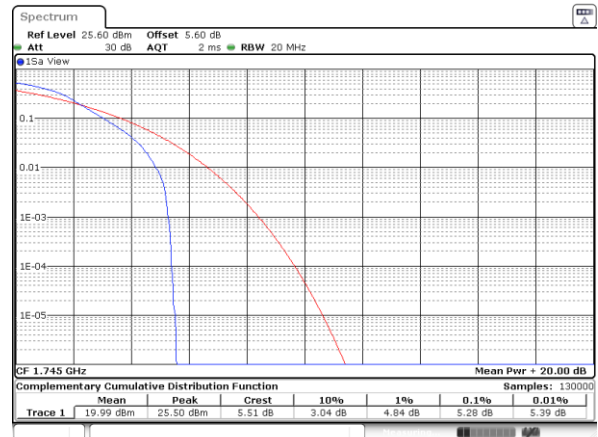
Date: 29 JUN 2020 00:38:22



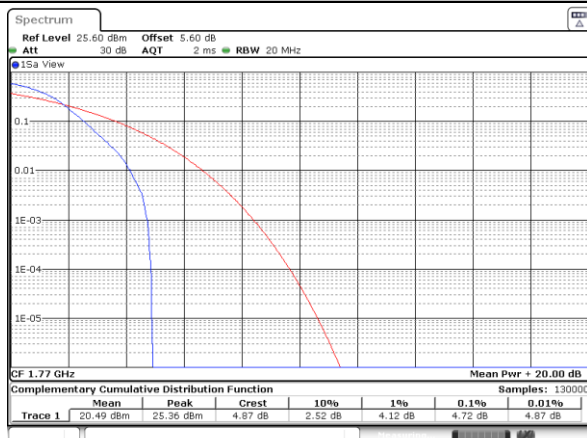
Date: 29 JUN 2020 00:38:52

**Middle Channel / Full RB**
**Middle Channel / Full RB**


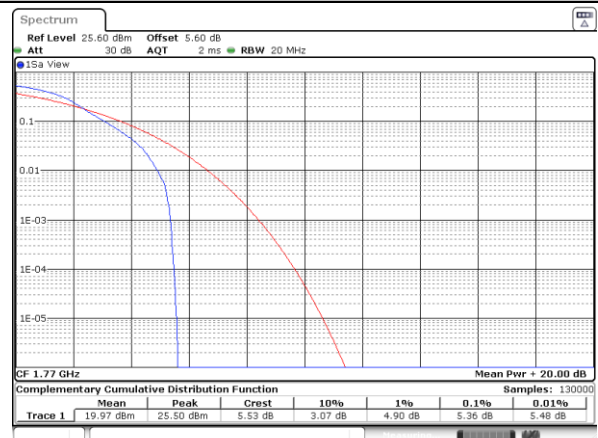
Date: 29 JUN 2020 01:03:45



Date: 29 JUN 2020 01:04:08

**Highest Channel / Full RB**
**Highest Channel / Full RB**


Date: 29 JUN 2020 01:11:07



Date: 29 JUN 2020 01:11:43



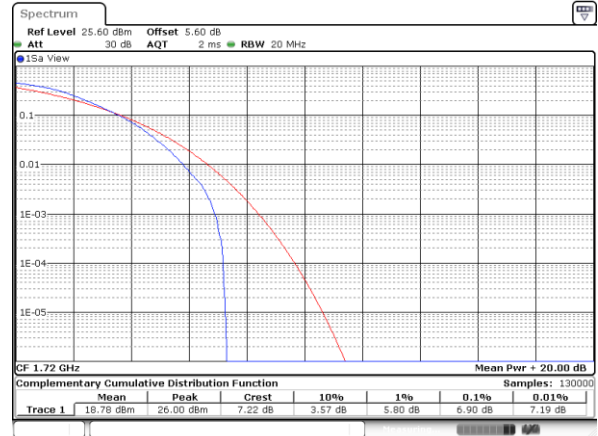
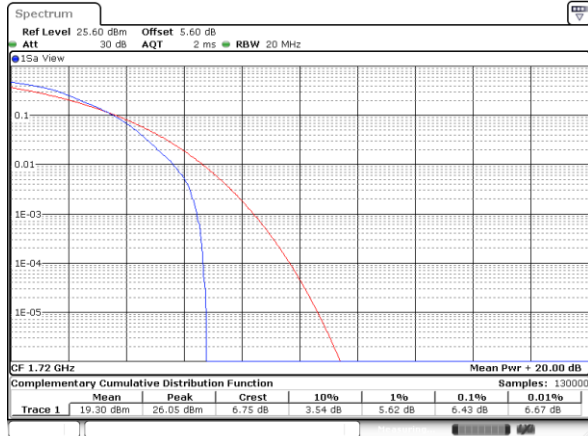
## 5G NR n66 / 20MHz / DFT-S OFDM

## 16QAM

## 64QAM

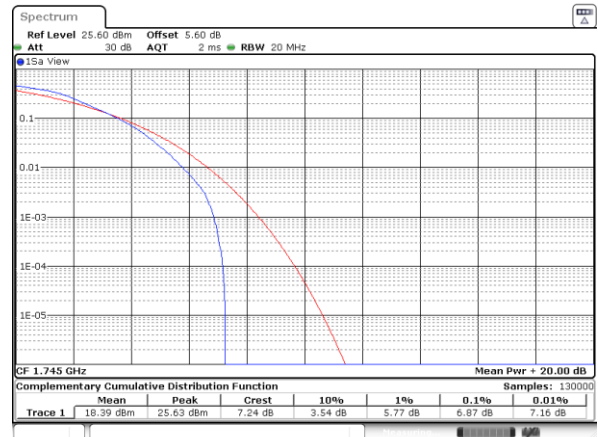
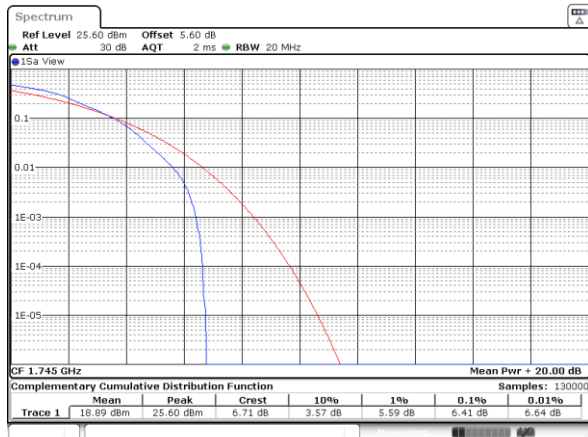
## Lowest Channel / Full RB

## Lowest Channel / Full RB



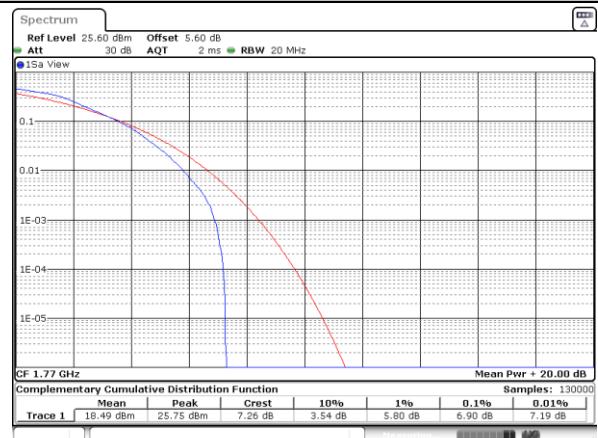
## Middle Channel / Full RB

## Middle Channel / Full RB



## Highest Channel / Full RB

## Highest Channel / Full RB

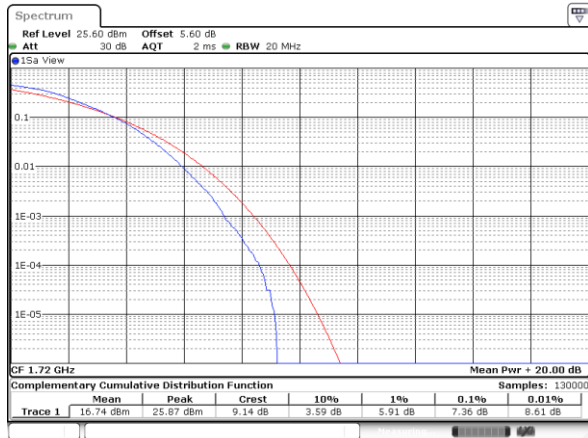


## 5G NR n66 / 20MHz / DFT-S OFDM

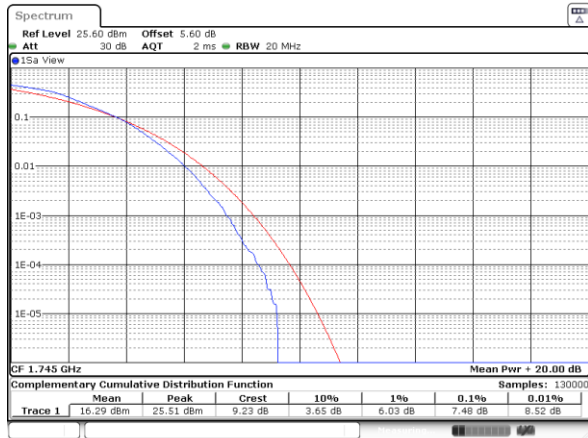


## 256QAM

## Lowest Channel / 1RB0



## Middle Channel / 1RB0



## Highest Channel / 1RB0

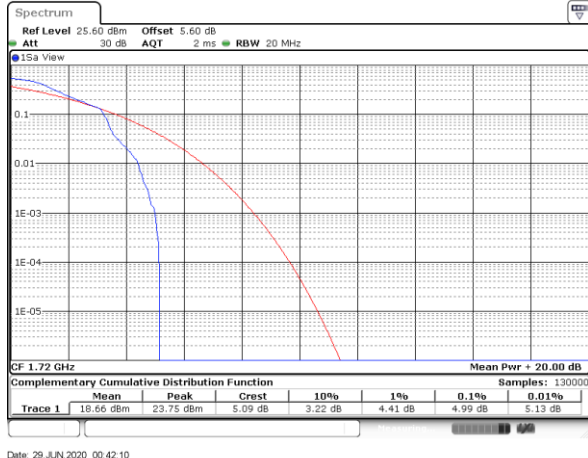




## 5G NR n66 / 20MHz / DFT-S OFDM

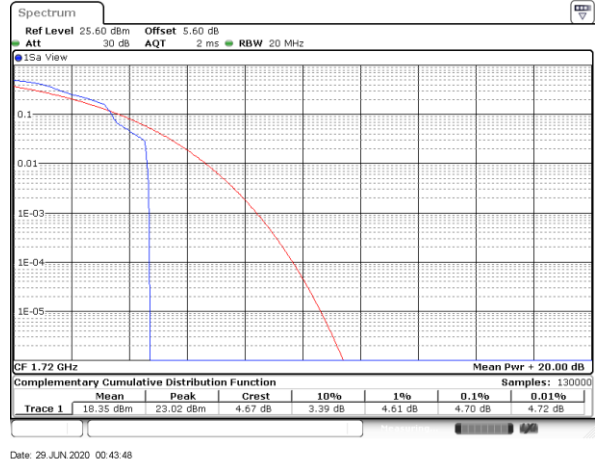
## PI/2 BPSK

## Lowest Channel / 1RB0

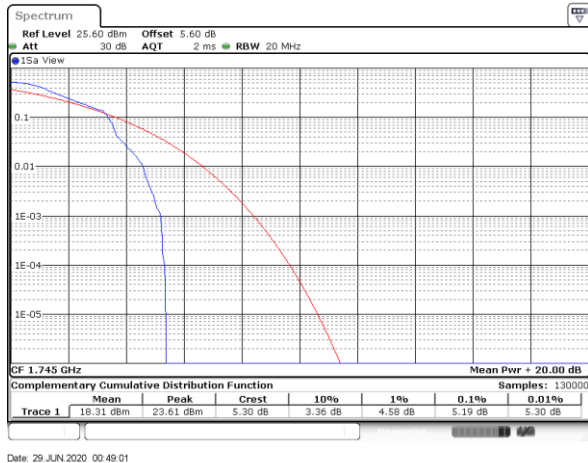


## QPSK

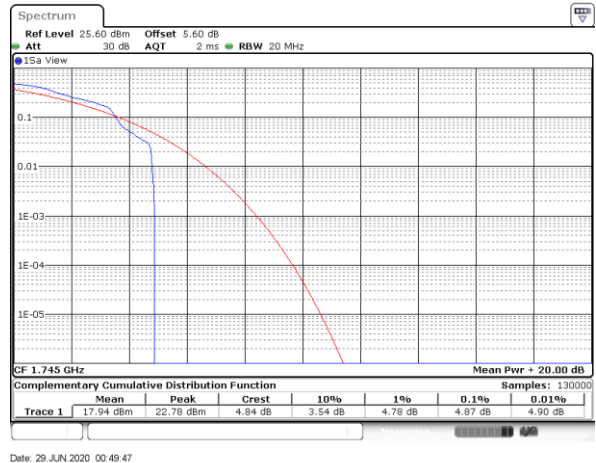
## Lowest Channel / 1RB0



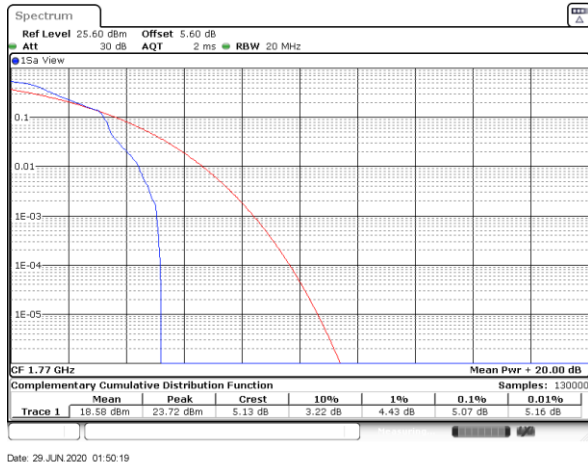
## Middle Channel / 1RB0



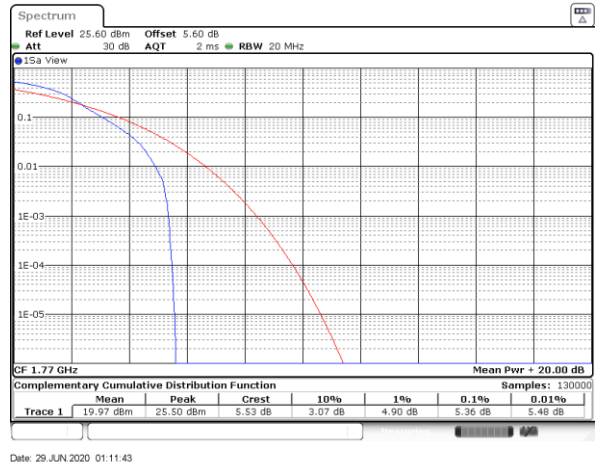
## Middle Channel / 1RB0



## Highest Channel / 1RB0



## Highest Channel / 1RB0





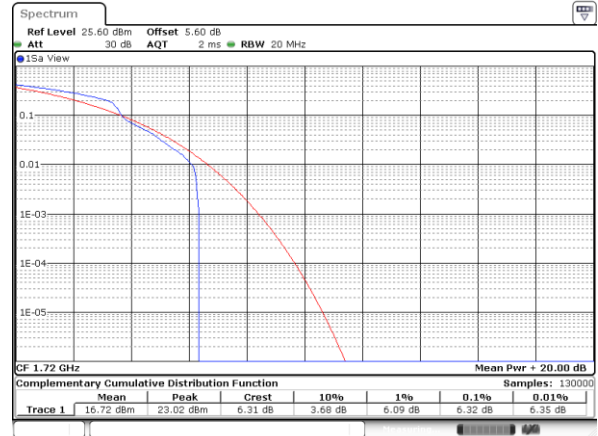
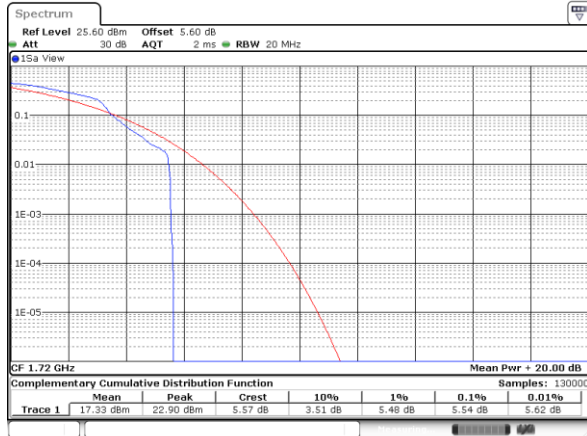
## 5G NR n66 / 20MHz / DFT-S OFDM

## 16QAM

## 64QAM

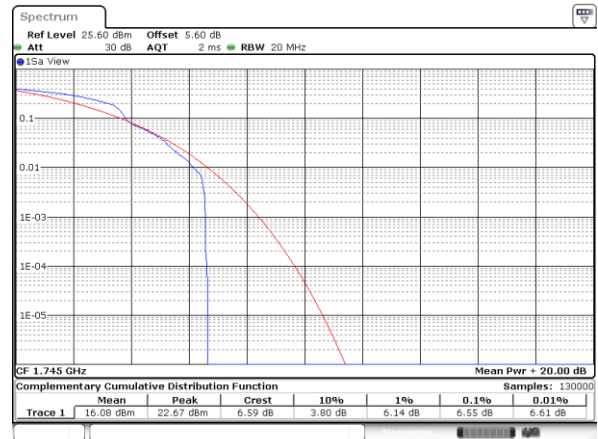
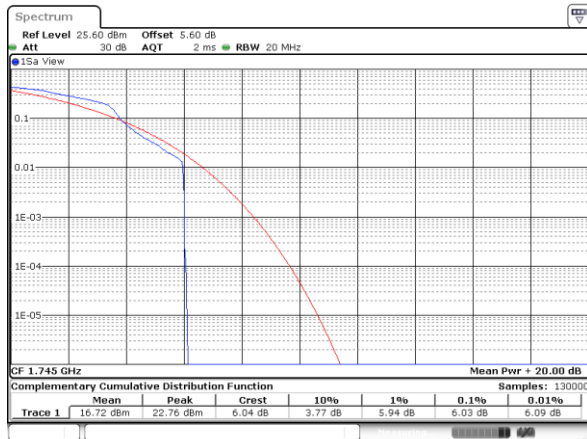
## Lowest Channel / 1RB0

## Lowest Channel / 1RB0



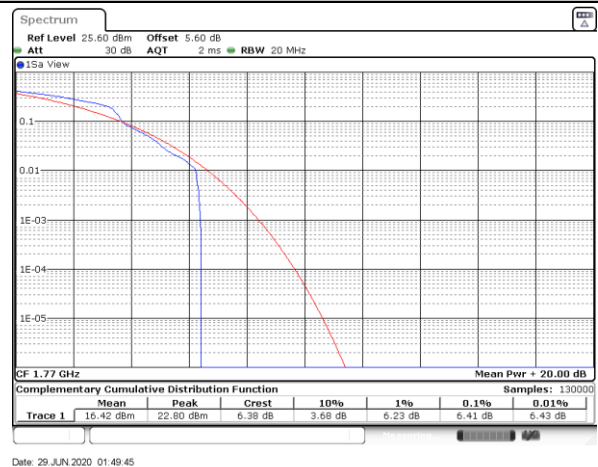
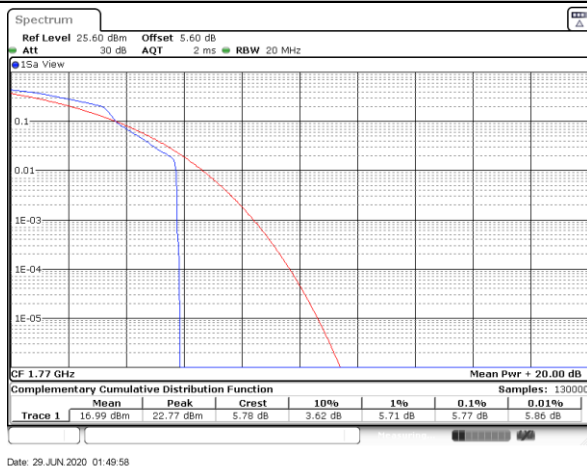
## Middle Channel / 1RB0

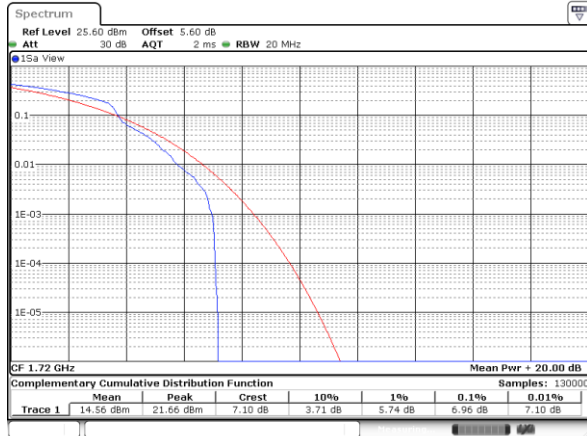
## Middle Channel / 1RB0



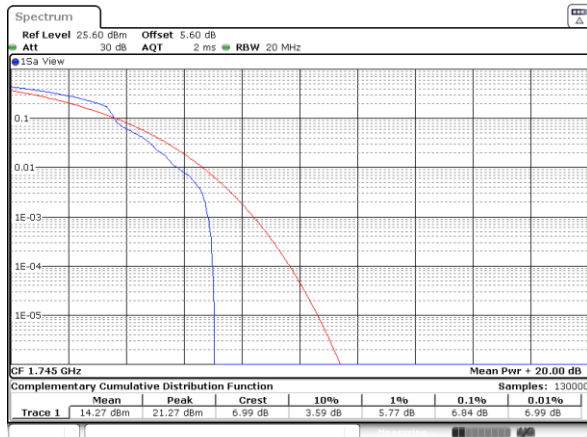
## Highest Channel / 1RB0

## Highest Channel / 1RB0



**5G NR n66 / 20MHz / DFT-S OFDM**
**256QAM**
**Lowest Channel / 1RB0**


Date: 29 JUN 2020 00:47:45

**Middle Channel / 1RB0**


Date: 29 JUN 2020 01:02:31

**Highest Channel / 1RB0**


Date: 29 JUN 2020 01:13:38



**26dB Bandwidth**

| Mode       | 5G NR n66 : 26dB BW(MHz) / DFT-S OFDM |  |           |  |           |  |           |  |
|------------|---------------------------------------|--|-----------|--|-----------|--|-----------|--|
| BW         | 5MHz                                  |  | 10MHz     |  | 15MHz     |  | 20MHz     |  |
| Mod.       | PI / BPSK                             |  | PI / BPSK |  | PI / BPSK |  | PI / BPSK |  |
| Lowest CH  | 5.16                                  |  | 9.75      |  | 14.30     |  | 20.18     |  |
| Middle CH  | 5.12                                  |  | 9.77      |  | 14.18     |  | 20.18     |  |
| Highest CH | 5.08                                  |  | 9.65      |  | 14.21     |  | 20.26     |  |

| Mode       | 5G NR n66 : 26dB BW(MHz) / DFT-S OFDM |       |       |       |       |       |       |       |
|------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                                  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                                  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 5.12                                  | 5.21  | 9.67  | 9.87  | 14.30 | 14.42 | 20.10 | 20.22 |
| Middle CH  | 5.04                                  | 5.21  | 10.23 | 9.89  | 14.18 | 14.39 | 20.26 | 20.18 |
| Highest CH | 5.04                                  | 5.24  | 9.79  | 9.93  | 14.33 | 14.45 | 20.06 | 20.22 |

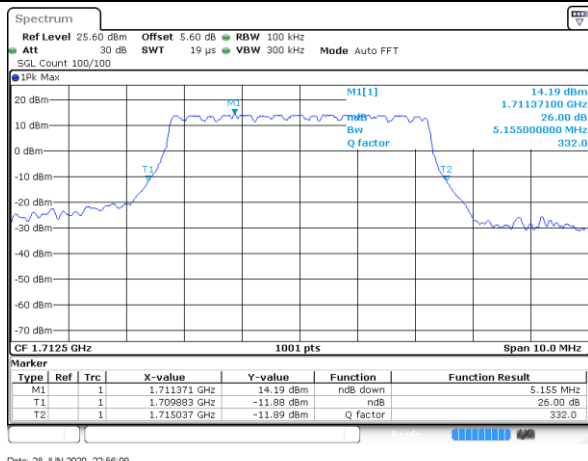
| Mode       | 5G NR n66 : 26dB BW(MHz) / DFT-S OFDM |        |       |        |       |        |       |        |
|------------|---------------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW         | 5MHz                                  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                                 | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | 5.17                                  | 5.09   | 10.07 | 9.79   | 14.45 | 14.54  | 20.10 | 20.14  |
| Middle CH  | 5.05                                  | 5.13   | 9.87  | 9.65   | 14.21 | 14.21  | 20.18 | 20.10  |
| Highest CH | 5.21                                  | 5.05   | 9.71  | 9.99   | 14.54 | 14.27  | 20.14 | 20.26  |



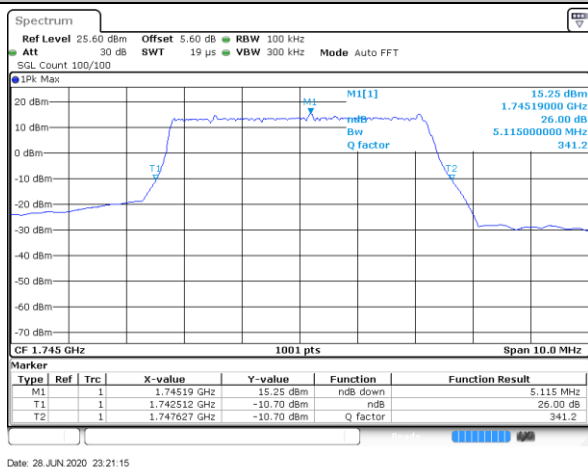
## 5G NR n66 / 5MHz / DFT-S OFDM

## PI / BPSK

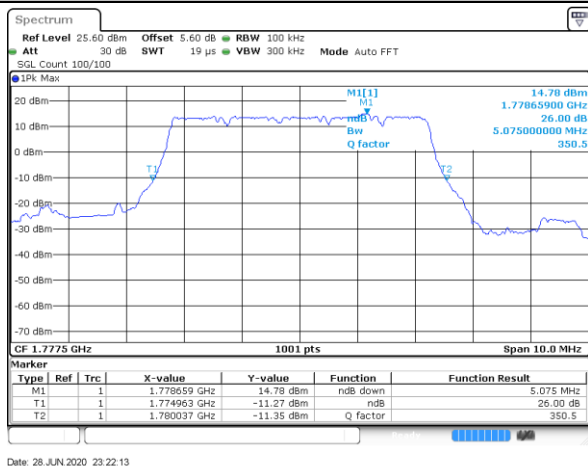
## Lowest Channel



## Middle Channel



## Highest Channel



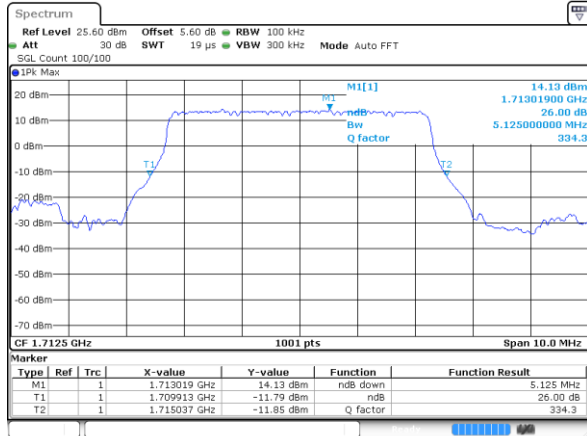




## 5G NR n66 / 5MHz / DFT-S OFDM

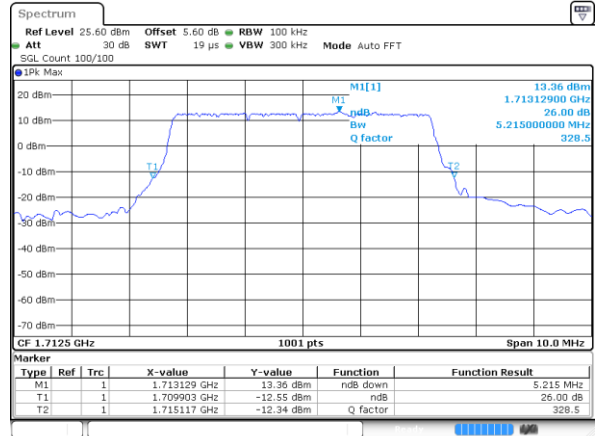
## QPSK

## Lowest Channel

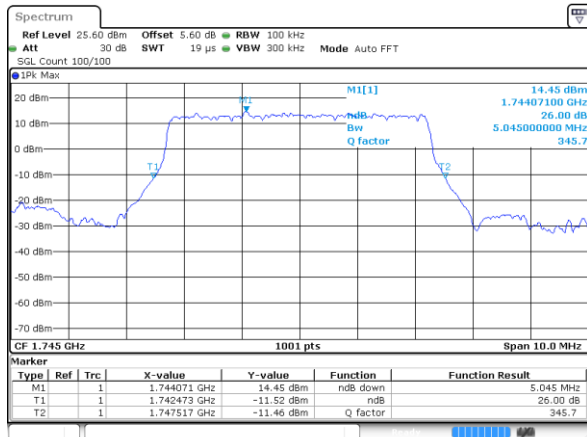


## 16QAM

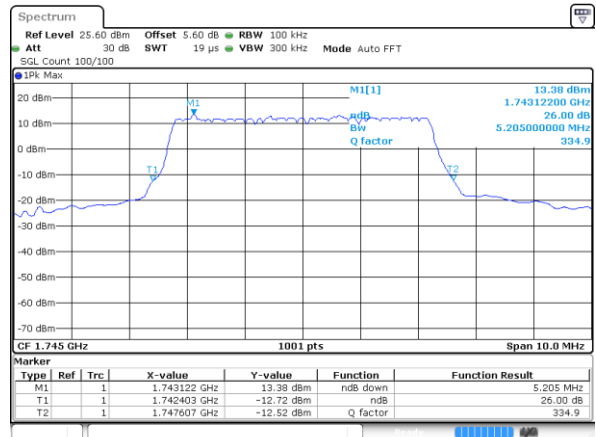
## Lowest Channel



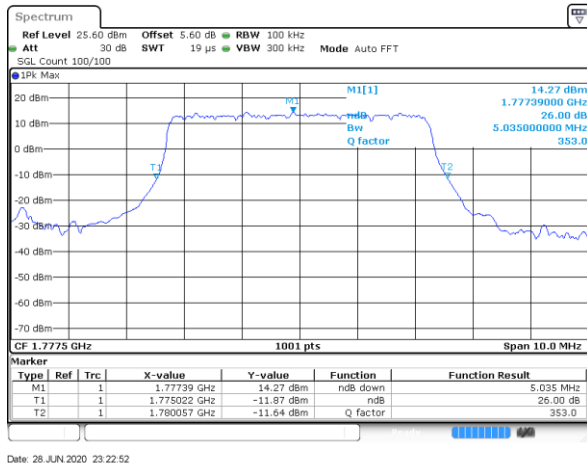
## Middle Channel



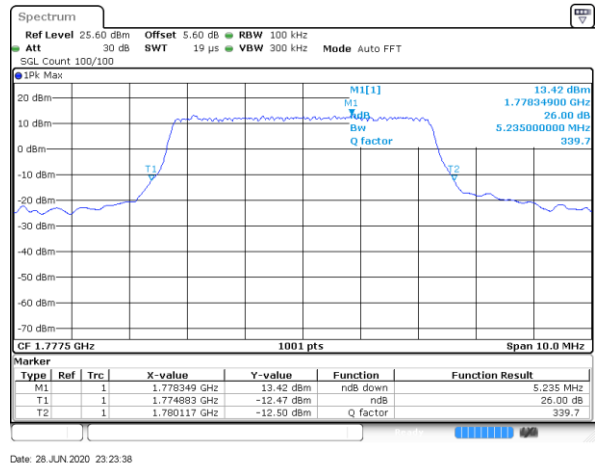
## Middle Channel



## Highest Channel



## Highest Channel

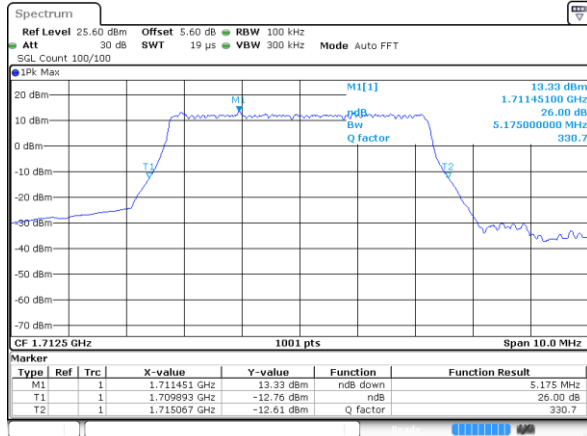




## 5G NR n66 / 5MHz / DFT-S OFDM

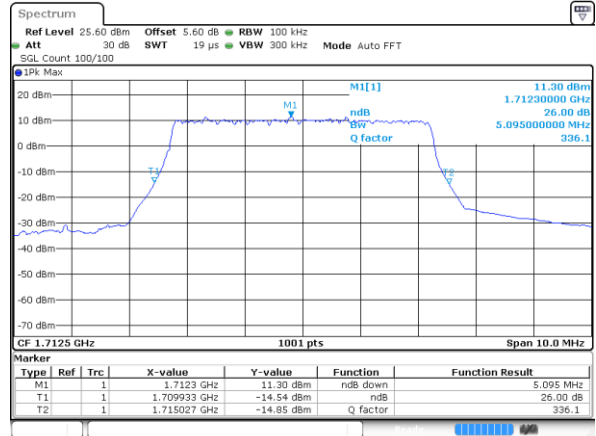
## 64QAM

## Lowest Channel

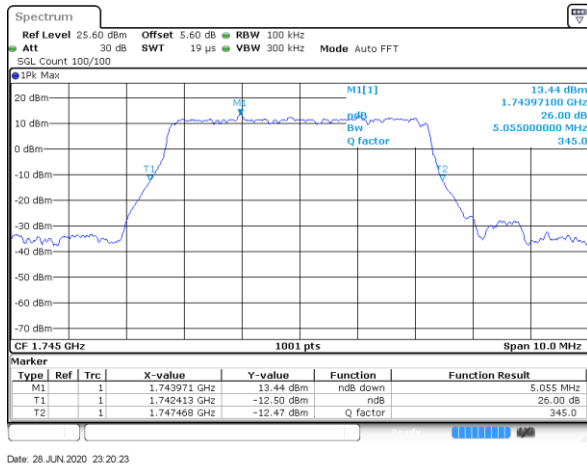


## 256QAM

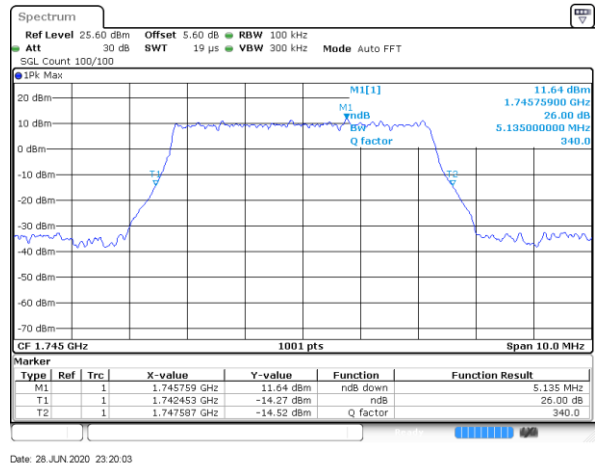
## Lowest Channel



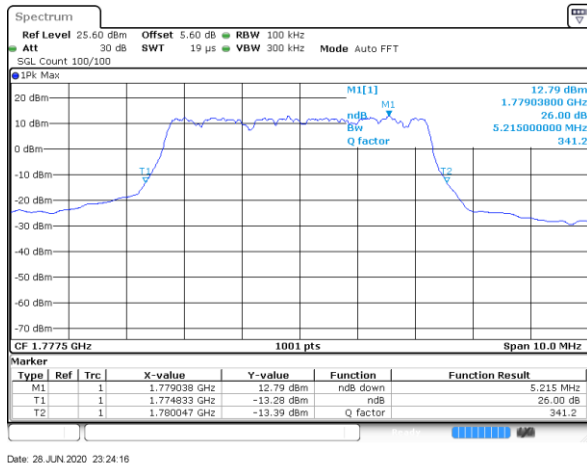
## Middle Channel



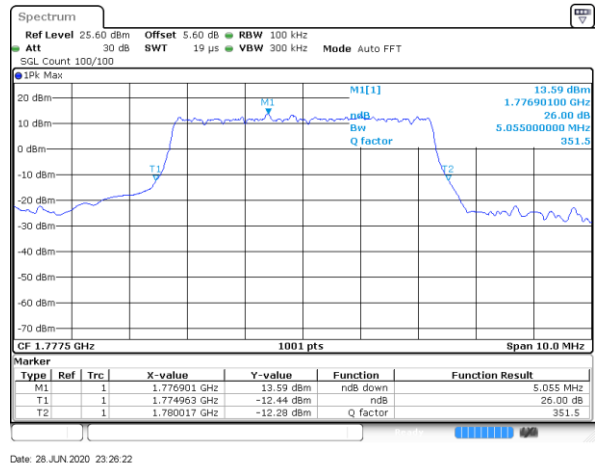
## Middle Channel



## Highest Channel



## Highest Channel

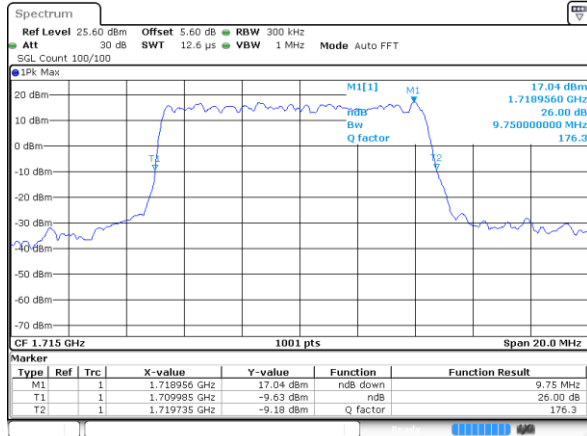




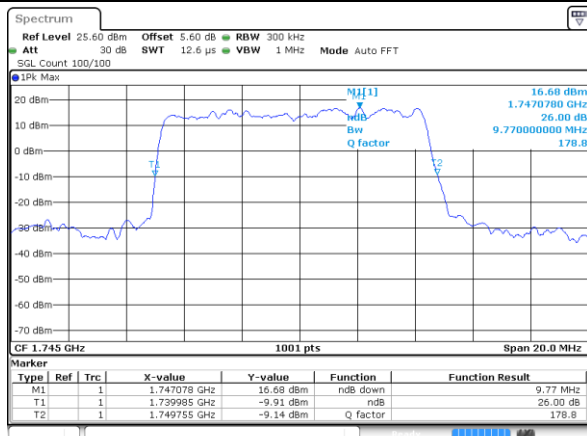
## 5G NR n66 / 10MHz / DFT-S OFDM

## PI / BPSK

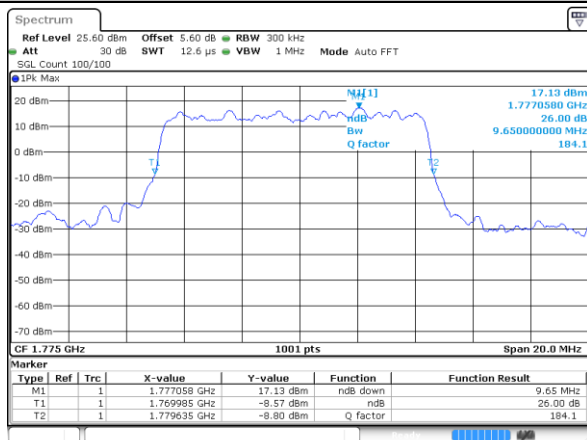
## Lowest Channel



## Middle Channel



## Highest Channel

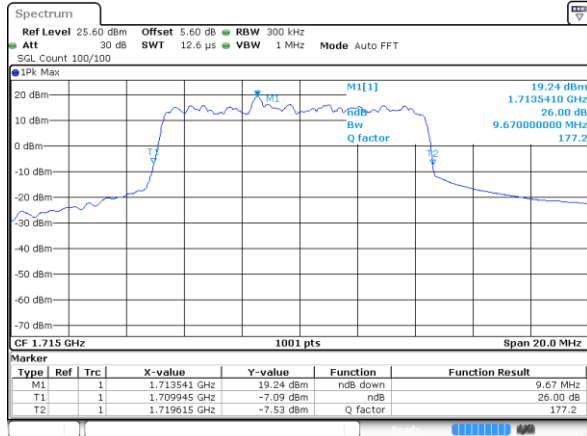




## 5G NR n66 / 10MHz / DFT-S OFDM

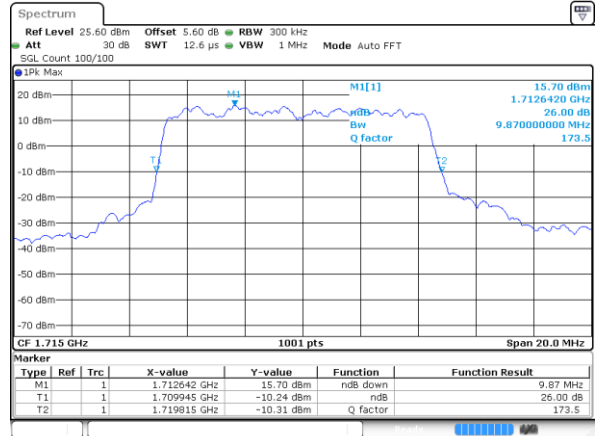
## QPSK

## Lowest Channel

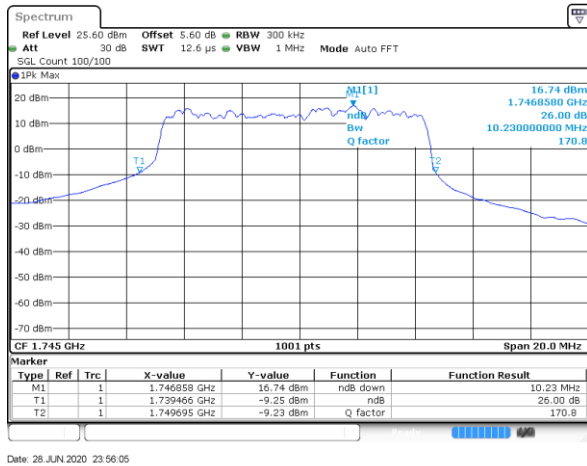


## 16QAM

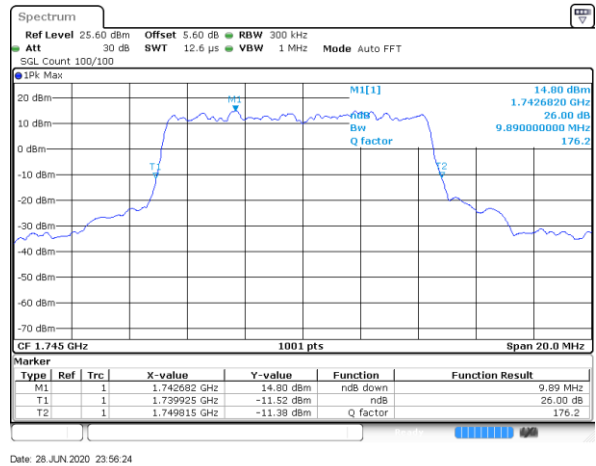
## Lowest Channel



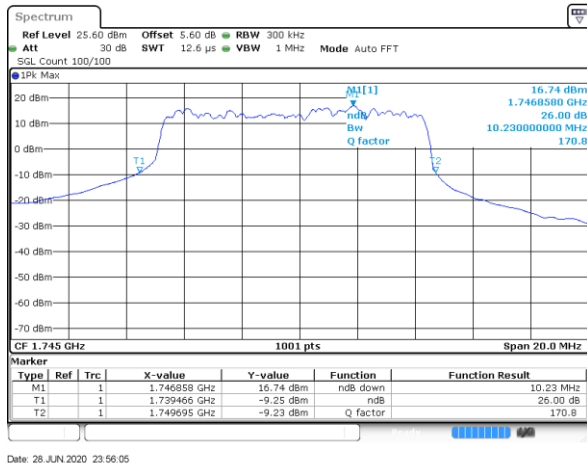
## Middle Channel



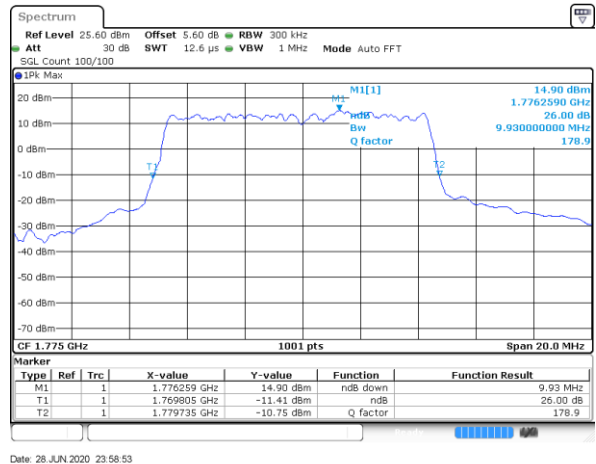
## Middle Channel



## Highest Channel



## Highest Channel

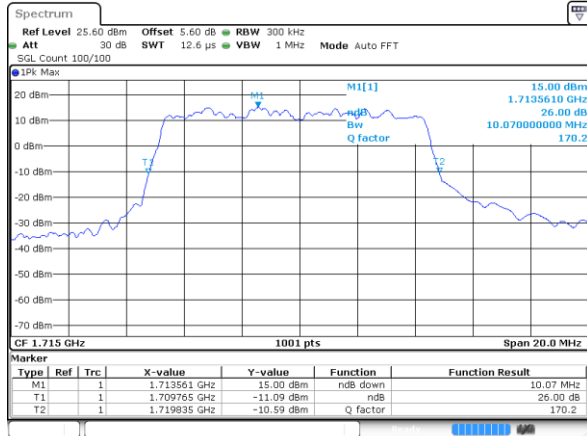




## 5G NR n66 / 10MHz / DFT-S OFDM

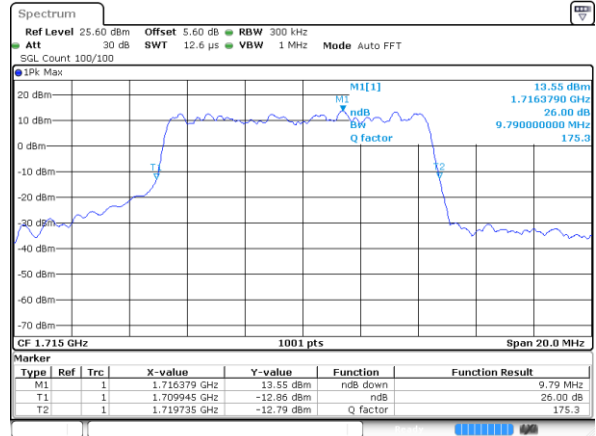
## 64QAM

## Lowest Channel

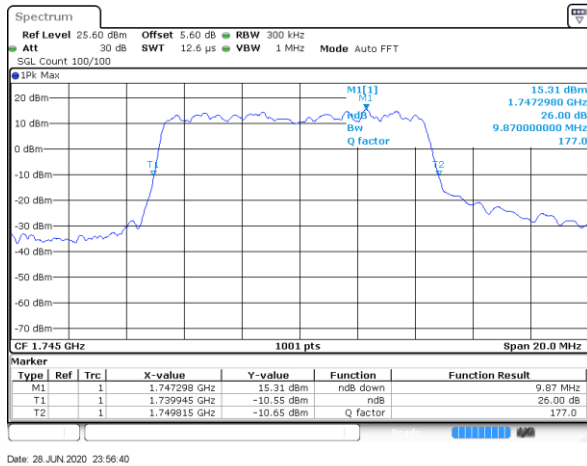


## 256QAM

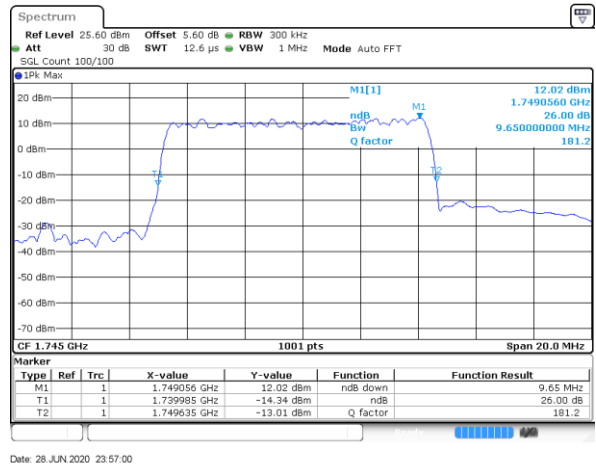
## Lowest Channel



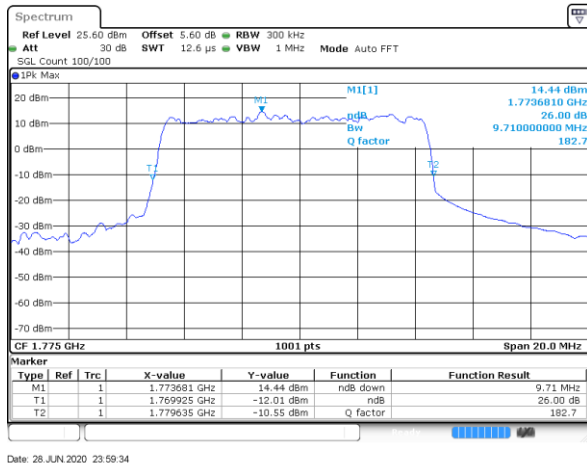
## Middle Channel



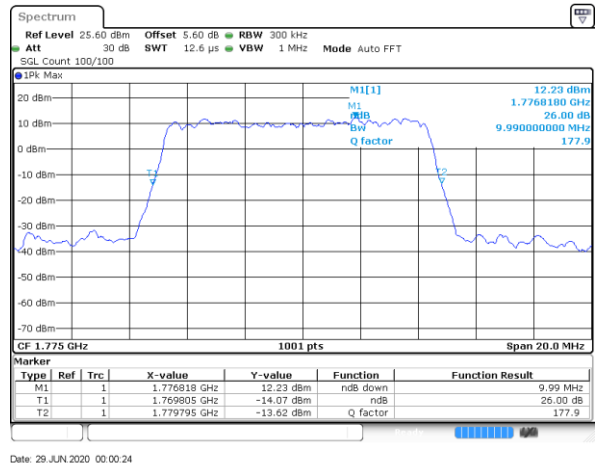
## Middle Channel



## Highest Channel



## Highest Channel

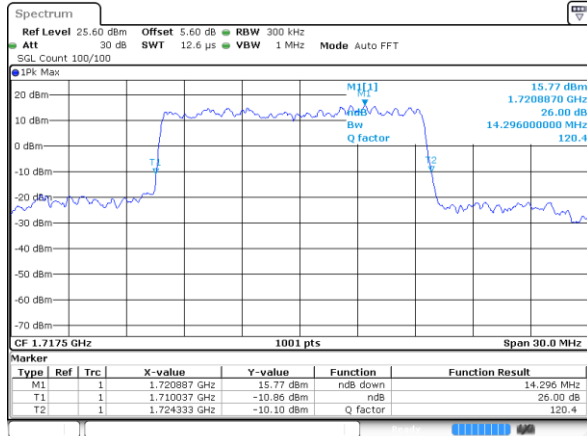




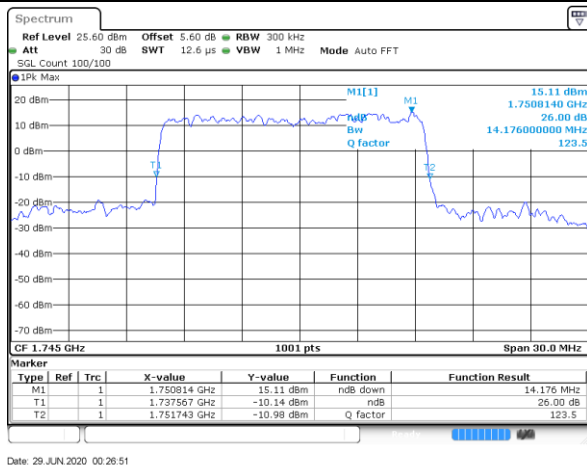
## 5G NR n66 / 15MHz / DFT-S OFDM

## PI / BPSK

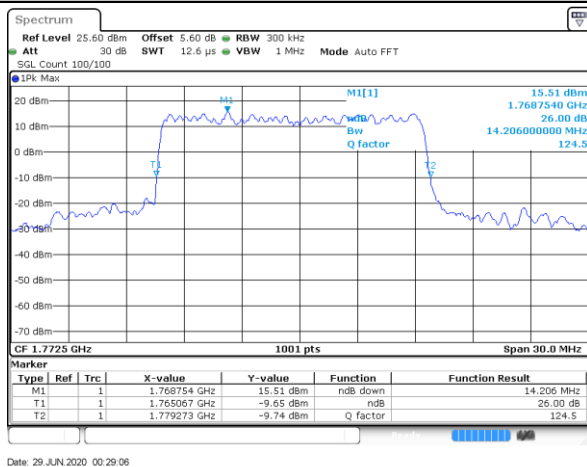
## Lowest Channel



## Middle Channel



## Highest Channel

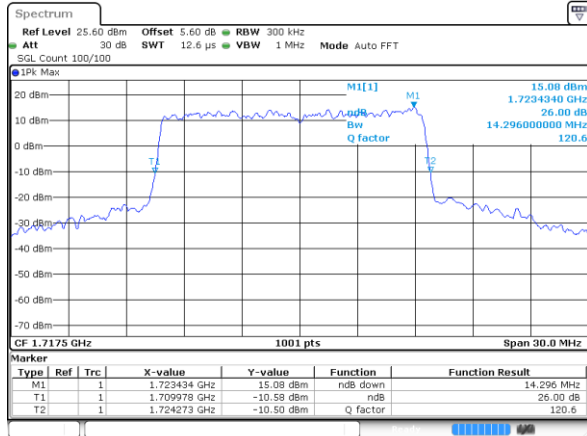




## 5G NR n66 / 15MHz / DFT-S OFDM

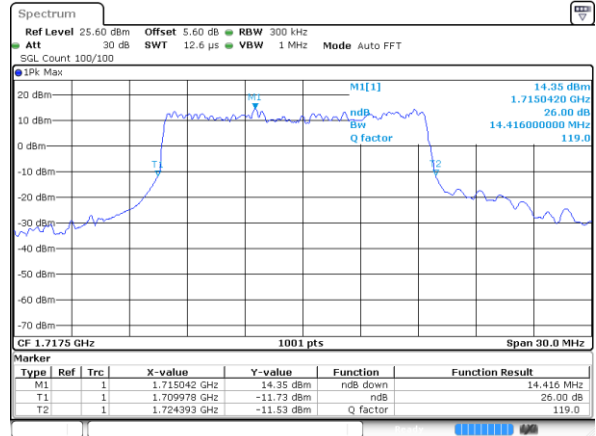
## QPSK

## Lowest Channel

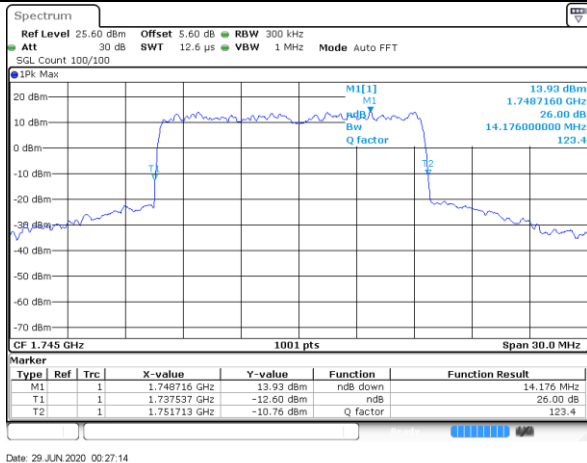


## 16QAM

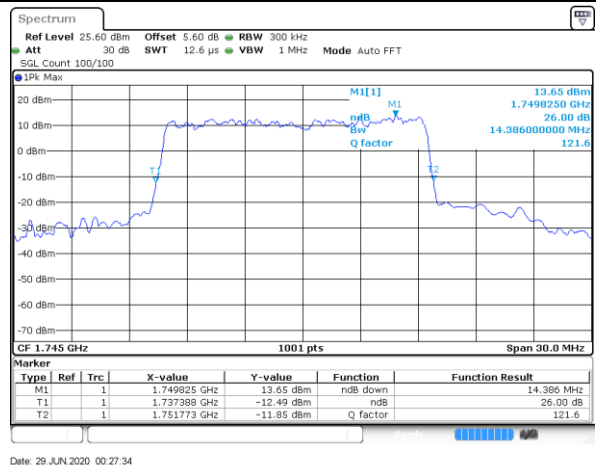
## Lowest Channel



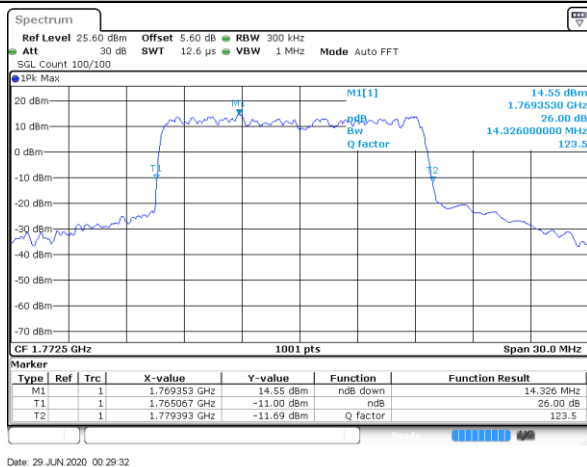
## Middle Channel



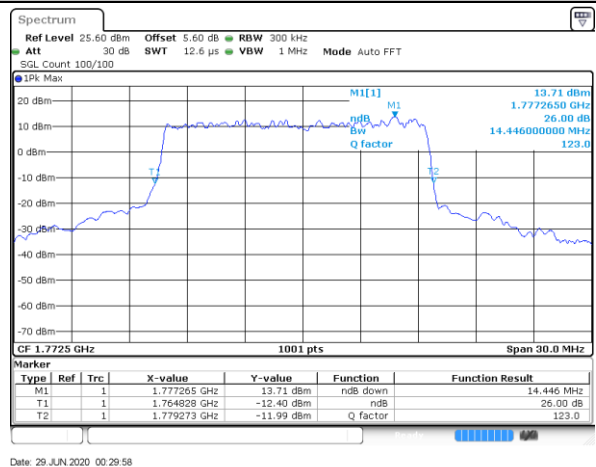
## Middle Channel



## Highest Channel



## Highest Channel

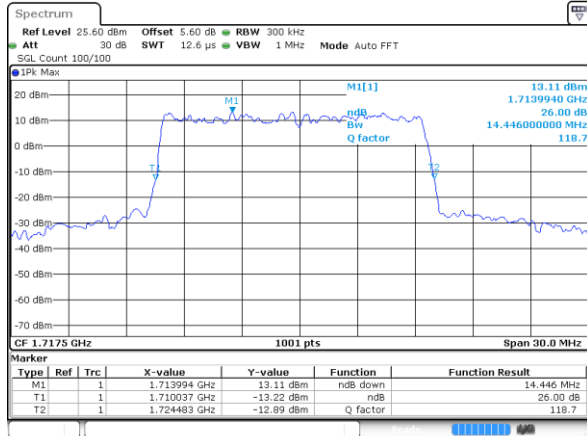




## 5G NR n66 / 15MHz / DFT-S OFDM

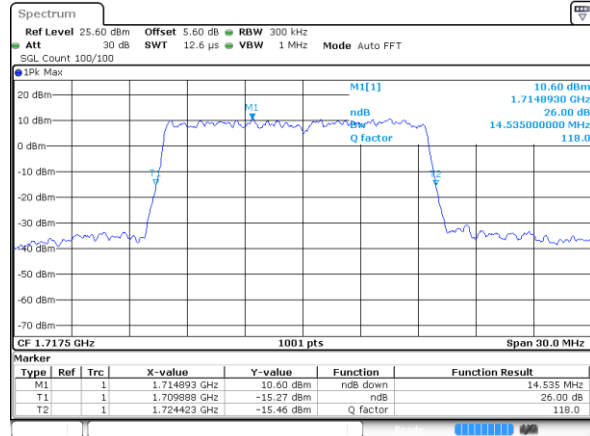
## 64QAM

## Lowest Channel

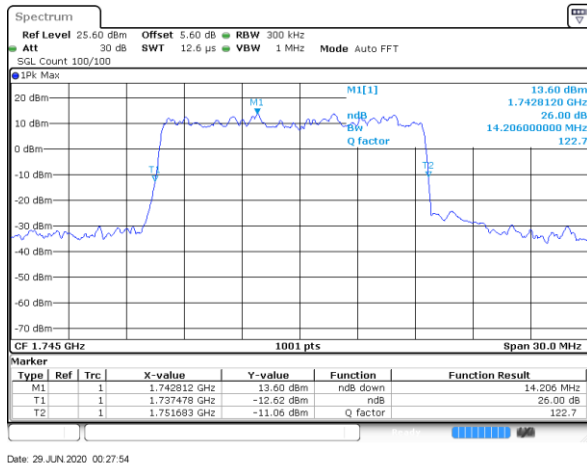


## 256QAM

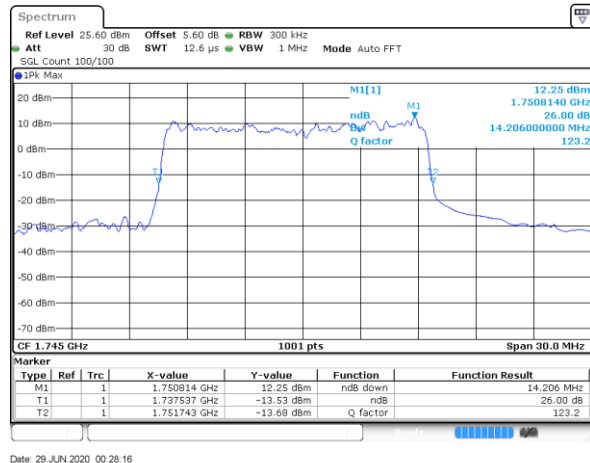
## Lowest Channel



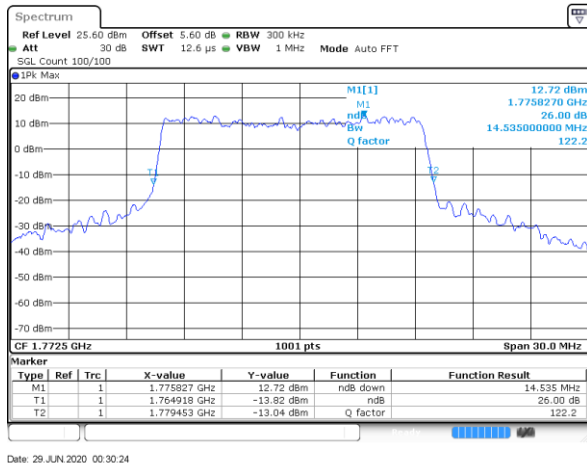
## Middle Channel



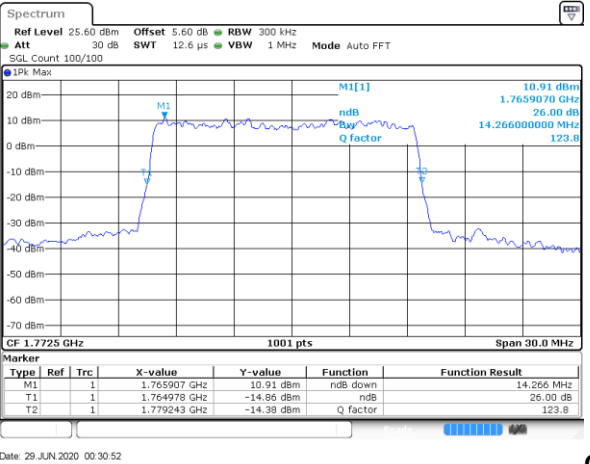
## Middle Channel



## Highest Channel



## Highest Channel



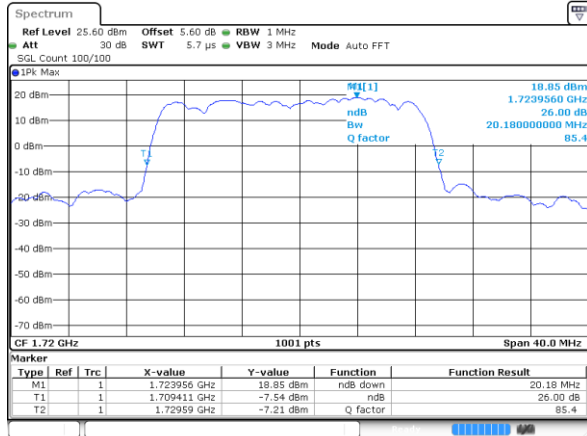




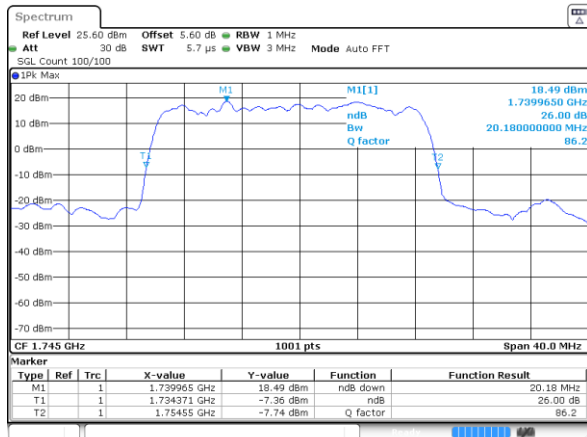
5G NR n66 / 20MHz / DFT-S OFDM

PI / BPSK

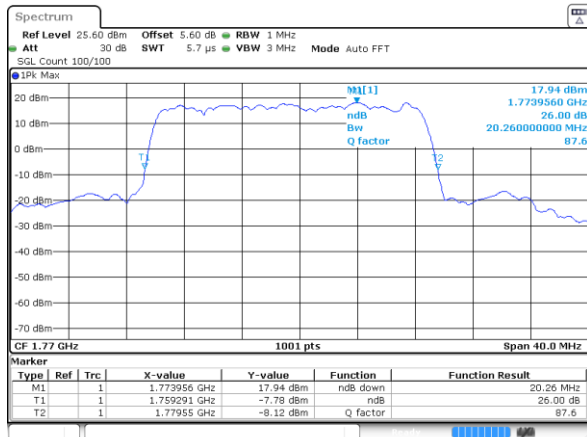
Lowest Channel



Middle Channel



Highest Channel

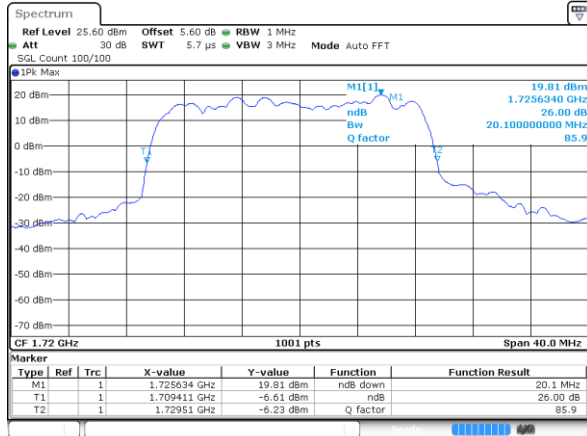




## 5G NR n66 / 20MHz / DFT-S OFDM

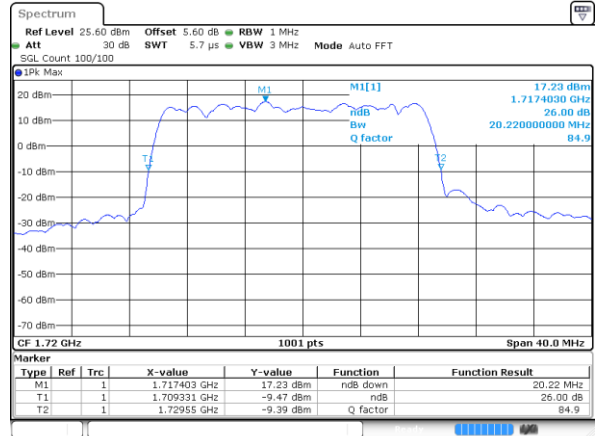
## QPSK

## Lowest Channel

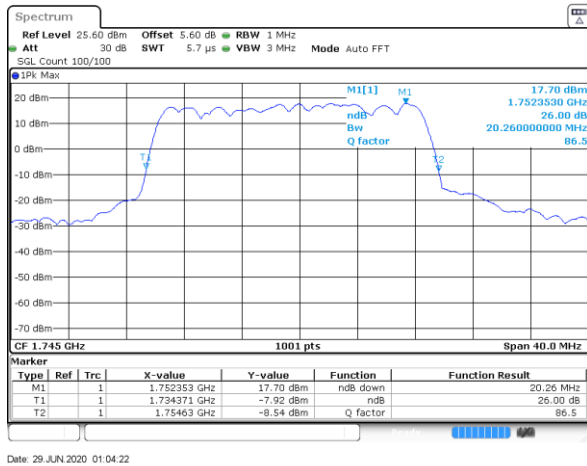


## 16QAM

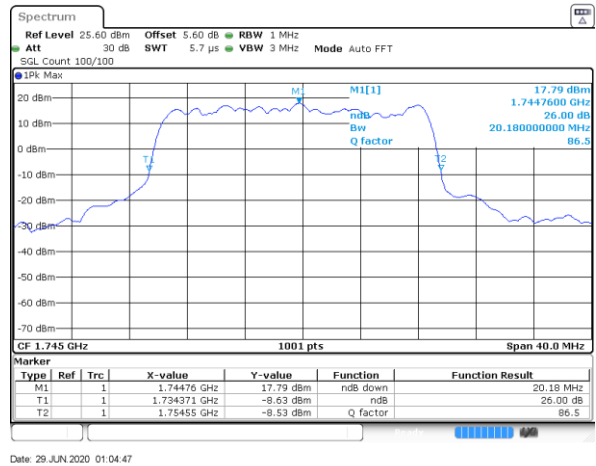
## Lowest Channel



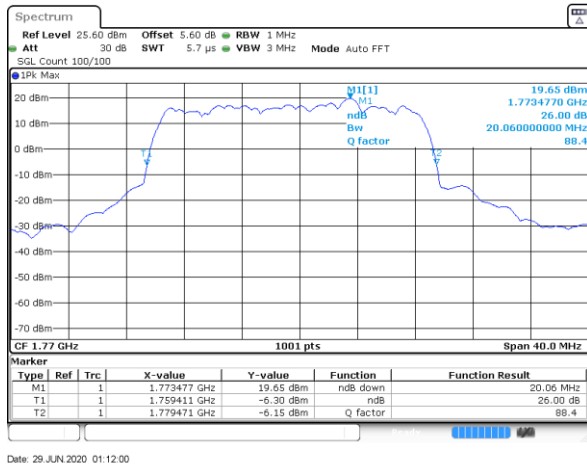
## Middle Channel



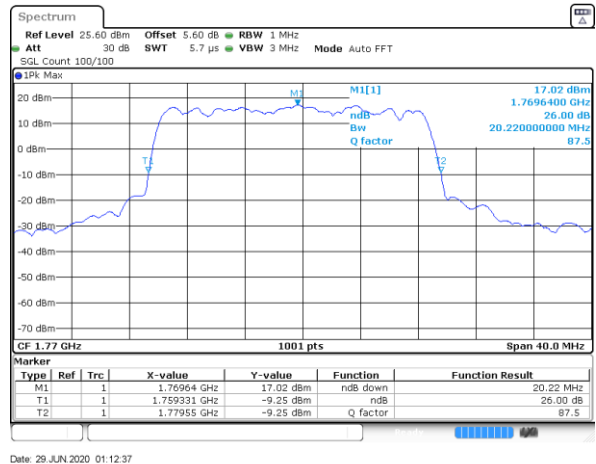
## Middle Channel



## Highest Channel



## Highest Channel

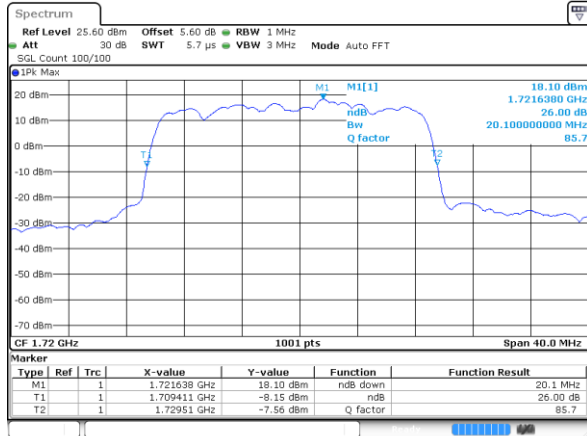




## 5G NR n66 / 20MHz / DFT-S OFDM

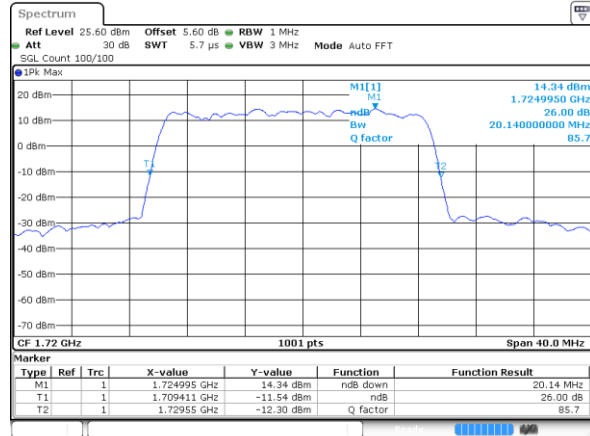
## 64QAM

## Lowest Channel

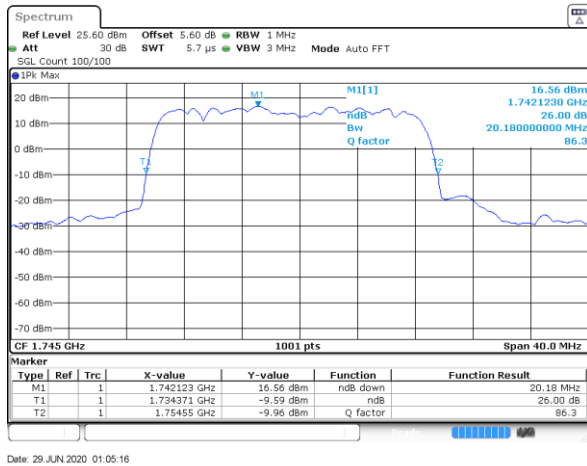


## 256QAM

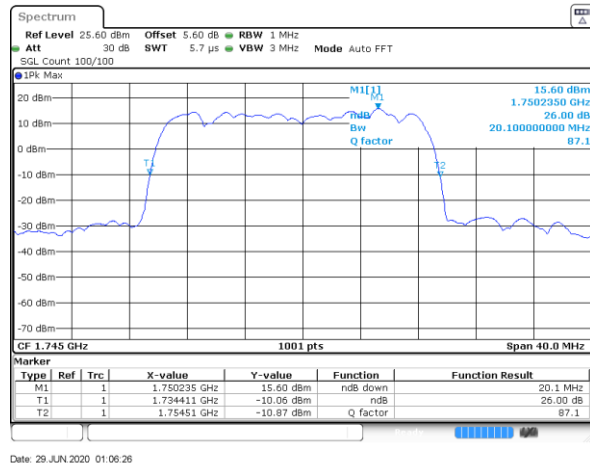
## Lowest Channel



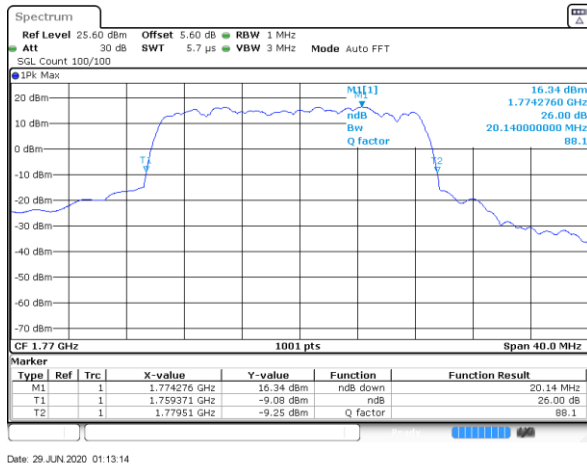
## Middle Channel



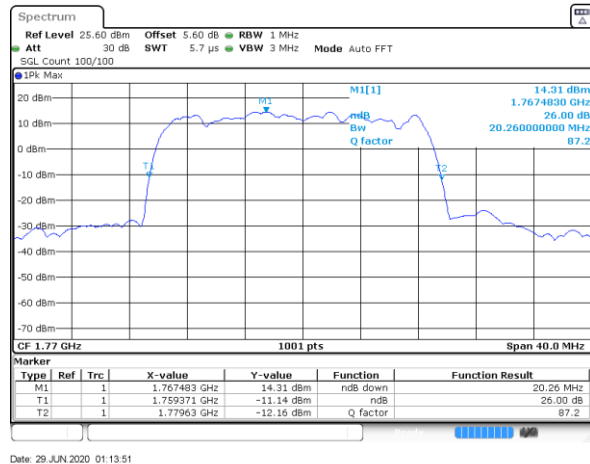
## Middle Channel



## Highest Channel



## Highest Channel



**Occupied Bandwidth**

| Mode       | 5G NR n66 : 99%OBW(MHz) / DFT-S OFDM |  |           |  |           |  |           |  |
|------------|--------------------------------------|--|-----------|--|-----------|--|-----------|--|
| BW         | 5MHz                                 |  | 10MHz     |  | 15MHz     |  | 20MHz     |  |
| Mod.       | PI / BPSK                            |  | PI / BPSK |  | PI / BPSK |  | PI / BPSK |  |
| Lowest CH  | 4.51                                 |  | 9.09      |  | 13.49     |  | 18.38     |  |
| Middle CH  | 4.48                                 |  | 9.05      |  | 13.49     |  | 18.50     |  |
| Highest CH | 4.50                                 |  | 9.03      |  | 13.52     |  | 18.38     |  |

| Mode       | 5G NR n66 : 99%OBW (MHz) / DFT-S OFDM |       |       |       |       |       |       |       |
|------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                                  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                                  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 4.51                                  | 4.49  | 9.01  | 9.07  | 13.55 | 13.55 | 18.34 | 18.42 |
| Middle CH  | 4.48                                  | 4.49  | 9.03  | 9.07  | 13.52 | 13.52 | 18.42 | 18.42 |
| Highest CH | 4.52                                  | 4.50  | 9.05  | 9.05  | 13.40 | 13.52 | 18.38 | 18.46 |

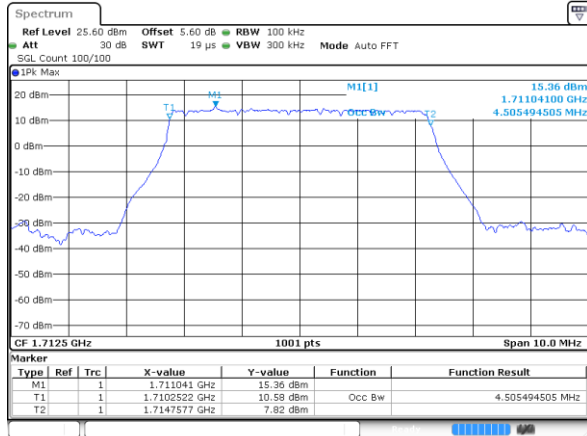
| Mode       | 5G NR n66 : 99%OBW (MHz) / DFT-S OFDM |        |       |        |       |        |       |        |
|------------|---------------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW         | 5MHz                                  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                                 | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | 4.52                                  | 4.50   | 9.03  | 9.03   | 13.52 | 13.49  | 18.34 | 18.42  |
| Middle CH  | 4.47                                  | 4.49   | 9.03  | 9.01   | 13.49 | 13.46  | 18.34 | 18.34  |
| Highest CH | 4.48                                  | 4.51   | 9.05  | 9.05   | 13.49 | 13.43  | 18.34 | 18.30  |



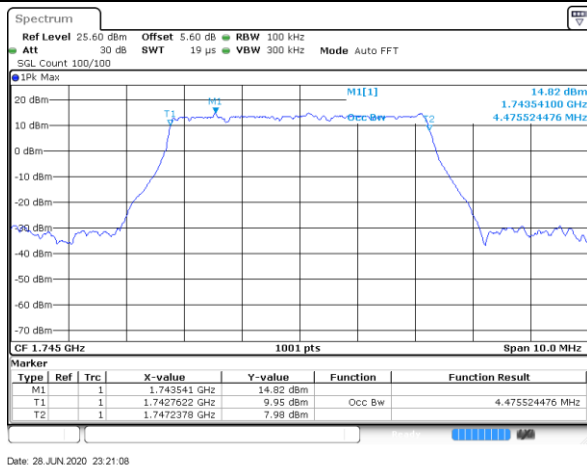
5G NR n66 / 5MHz / DFT-S OFDM

PI / BPSK

Lowest Channel



Middle Channel



Highest Channel

