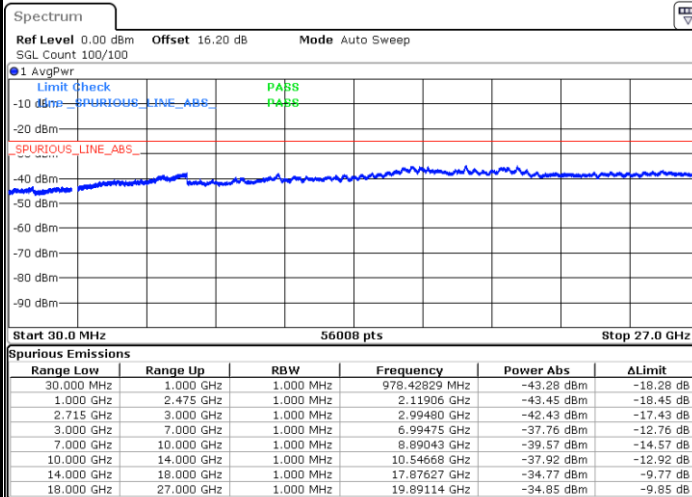




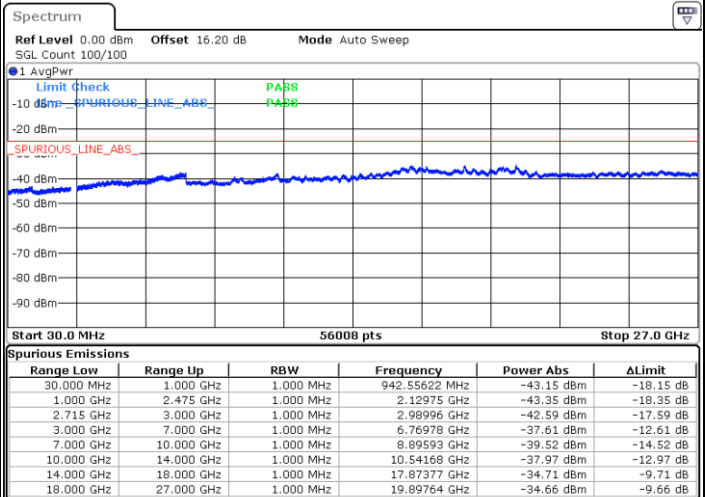
## LTE Band 41 / 15MHz

## Lowest Channel / QPSK



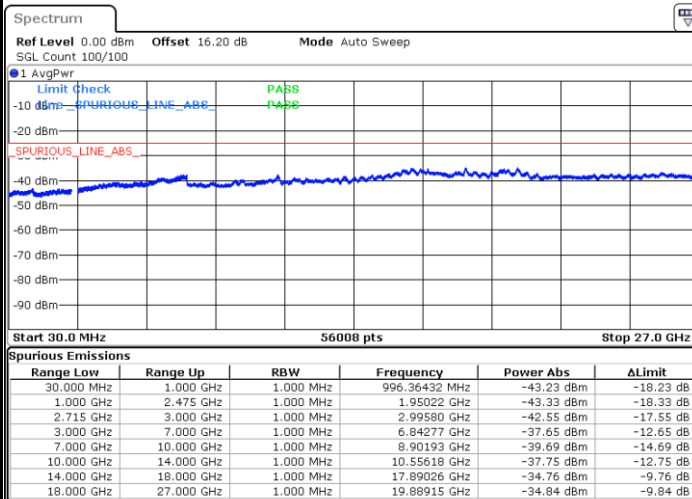
Date: 27 MAY 2020 19:30:04

## Lowest Channel / 16QAM



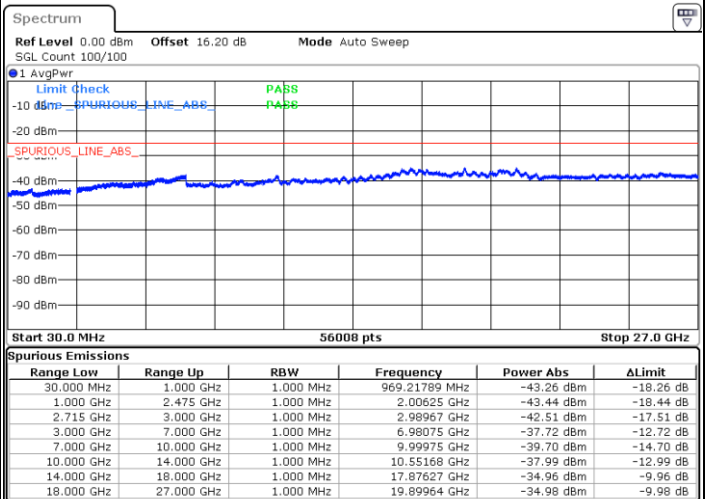
Date: 27 MAY 2020 19:31:05

## Middle Channel / QPSK



Date: 27 MAY 2020 19:32:06

## Middle Channel / 16QAM

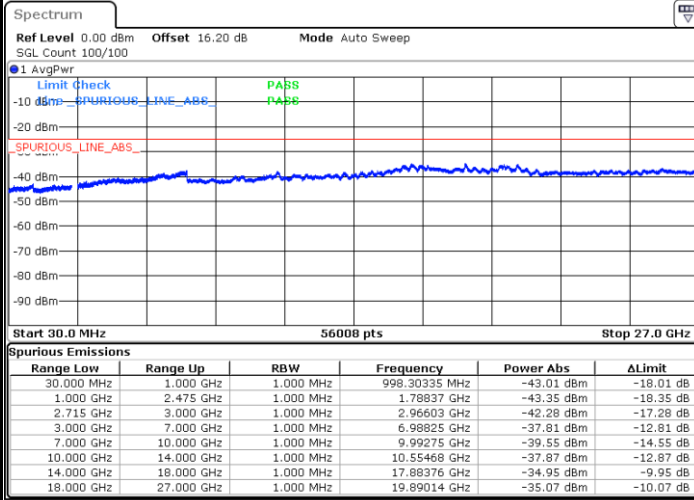


Date: 27 MAY 2020 19:33:07



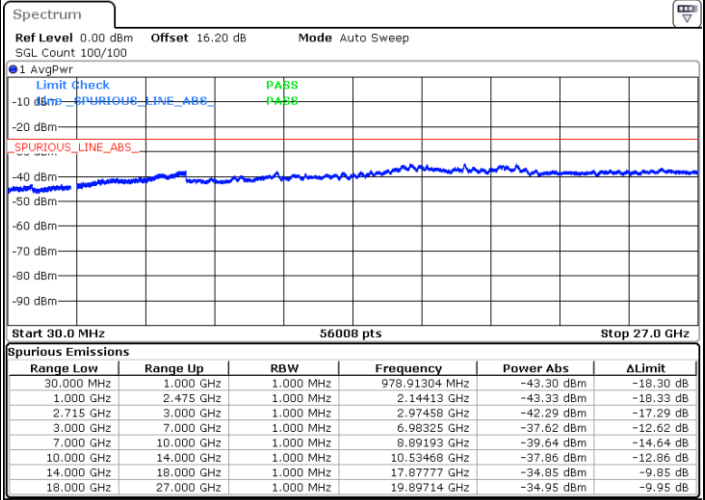
## LTE Band 41 / 15MHz

## Highest Channel / QPSK



Date: 27 MAY.2020 19:34:08

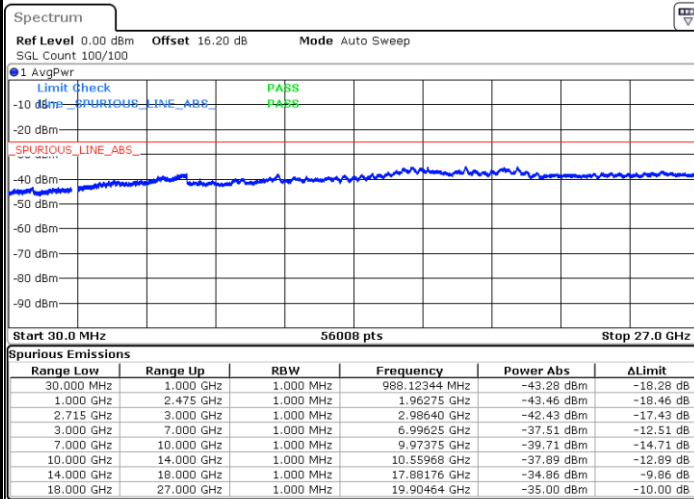
## Highest Channel / 16QAM



Date: 27 MAY.2020 19:35:09

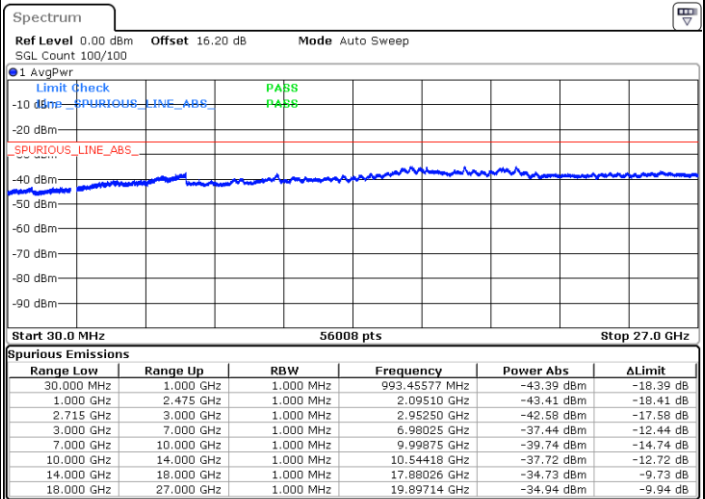
## LTE Band 41 / 20MHz

## Lowest Channel / QPSK



Date: 27 MAY.2020 19:42:15

## Lowest Channel / 16QAM

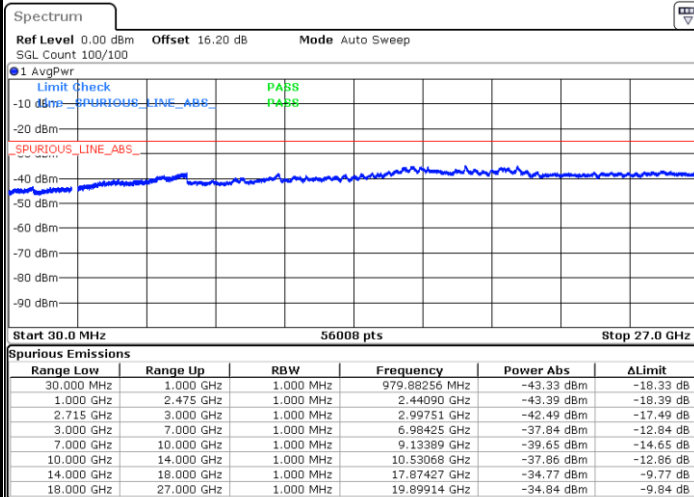


Date: 27 MAY.2020 19:43:16



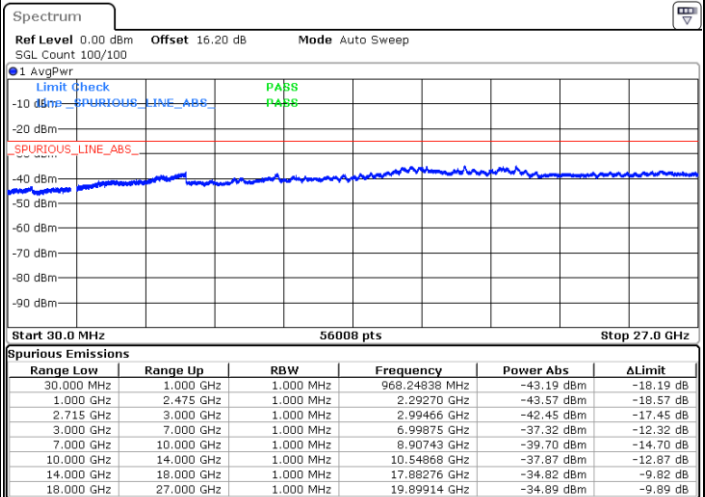
## LTE Band 41 / 20MHz

## Middle Channel / QPSK



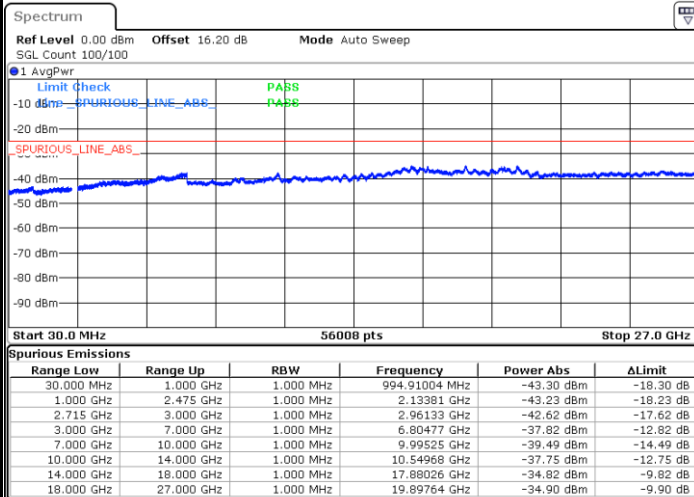
Date: 27 MAY 2020 19:44:17

## Middle Channel / 16QAM



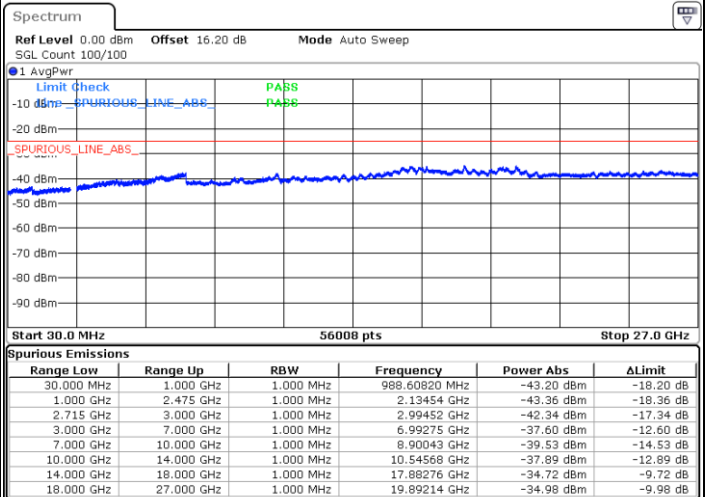
Date: 27 MAY 2020 19:45:18

## Highest Channel / QPSK



Date: 27 MAY 2020 19:46:19

## Highest Channel / 16QAM

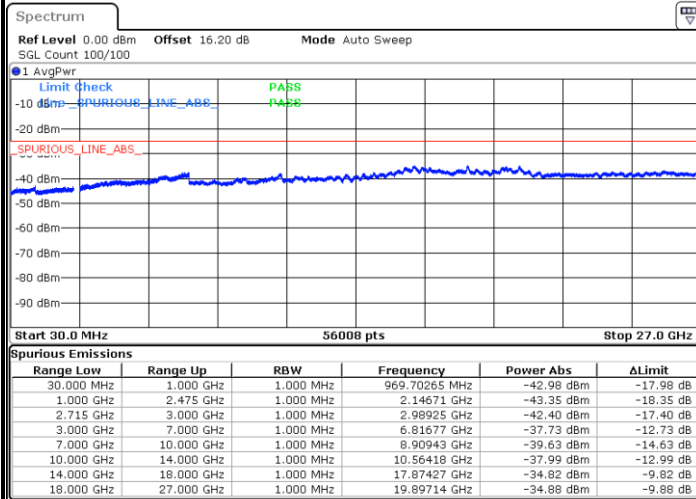


Date: 27 MAY 2020 19:47:20



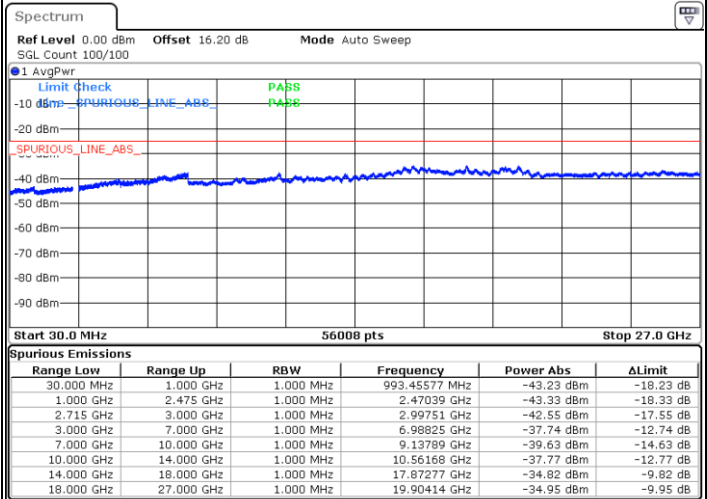
## LTE Band 41 / 5MHz

## Lowest Channel / 64QAM



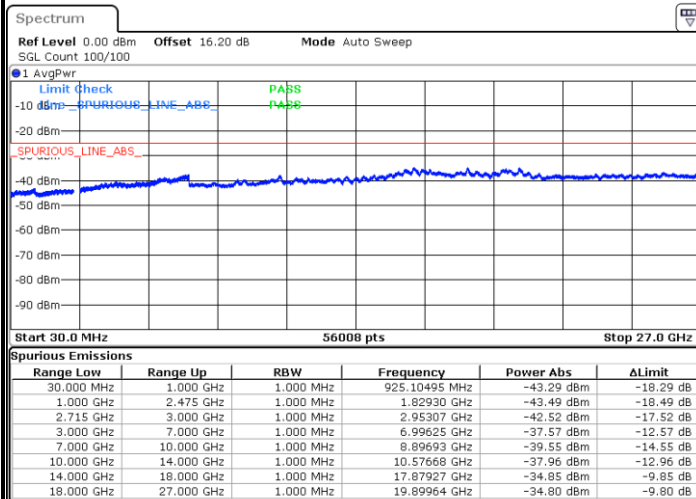
Date: 27.MAY.2020 19:11:47

## Middle Channel / 64QAM



Date: 27.MAY.2020 19:12:47

## Highest Channel / 64QAM

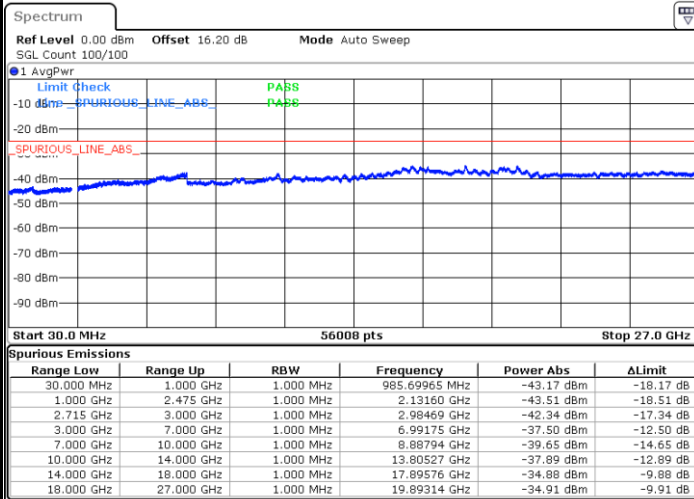


Date: 27.MAY.2020 19:13:48



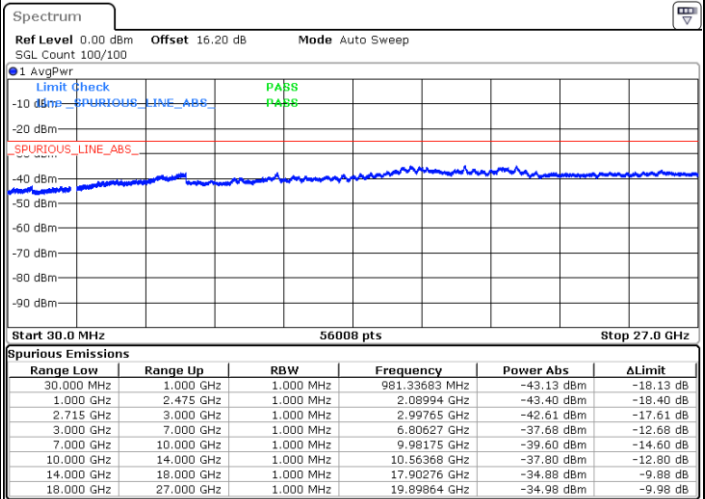
## LTE Band 41 / 10MHz

## Lowest Channel / 64QAM



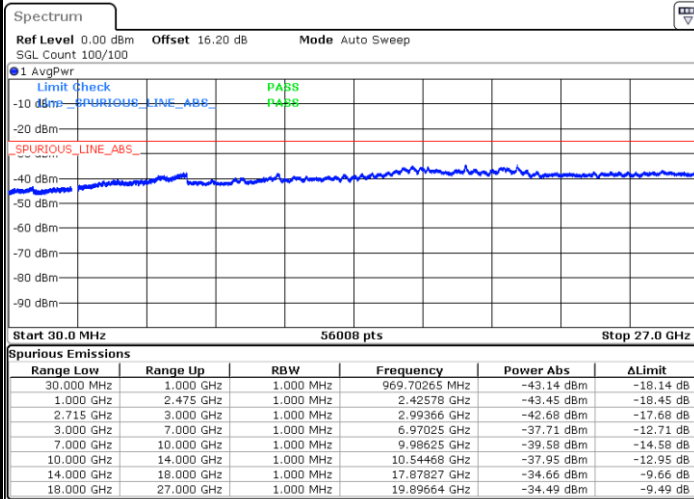
Date: 27.MAY.2020 19:20:55

## Middle Channel / 64QAM



Date: 27.MAY.2020 19:21:56

## Highest Channel / 64QAM



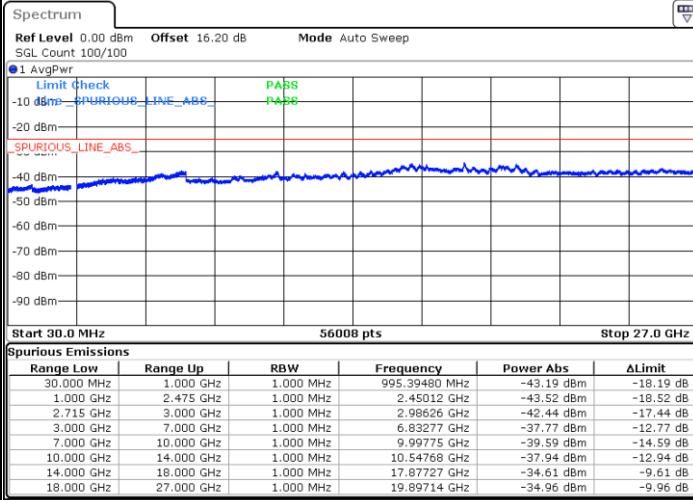
Date: 27.MAY.2020 19:22:57



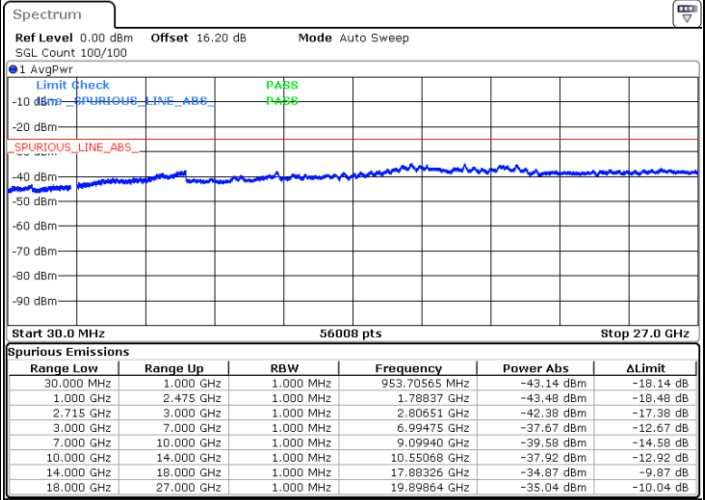
## LTE Band 41 / 15MHz

## Lowest Channel / 64QAM

## Middle Channel / 64QAM

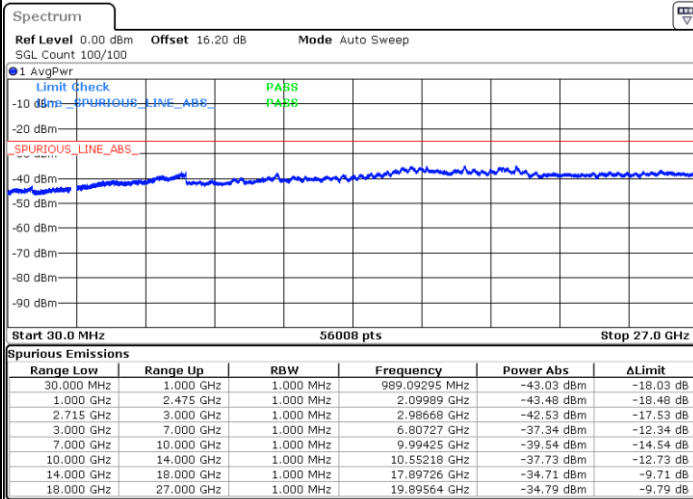


Date: 27.MAY.2020 19:36:10



Date: 27.MAY.2020 19:37:10

## Highest Channel / 64QAM

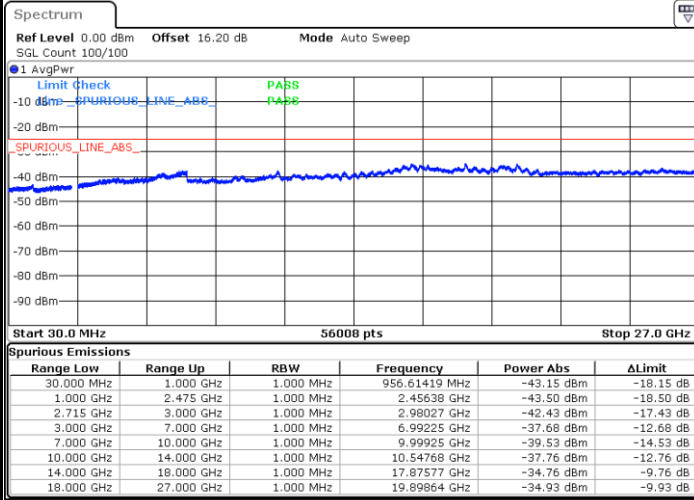


Date: 27.MAY.2020 19:38:11



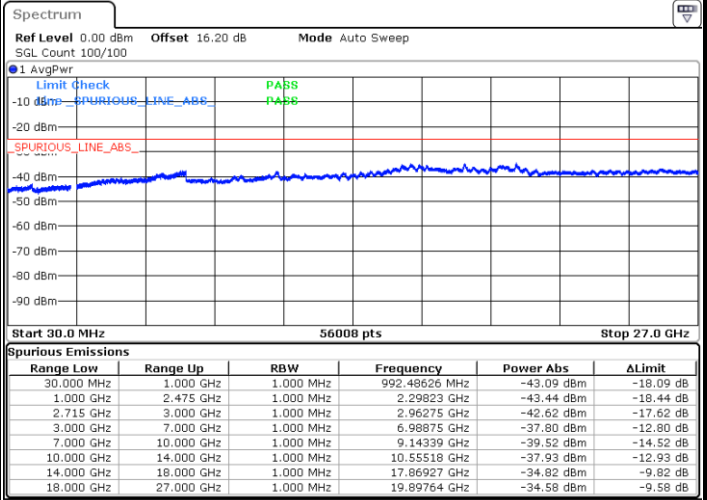
## LTE Band 41 / 20MHz

## Lowest Channel / 64QAM



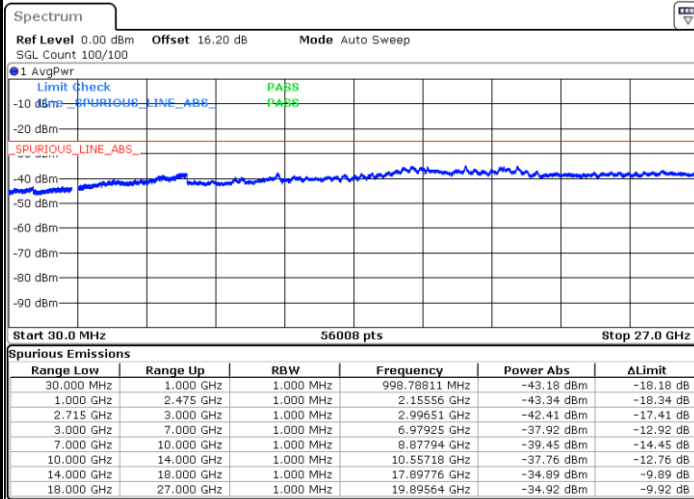
Date: 27.MAY.2020 19:39:13

## Middle Channel / 64QAM



Date: 27.MAY.2020 19:40:13

## Highest Channel / 64QAM



Date: 27.MAY.2020 19:41:14

## Frequency Stability

| Test Conditions  |                   | LTE Band 41 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0057                              | PASS    |
| 40               | Normal Voltage    | 0.0003                              |         |
| 30               | Normal Voltage    | 0.0004                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0049                              |         |
| 0                | Normal Voltage    | 0.0056                              |         |
| -10              | Normal Voltage    | 0.0014                              |         |
| -20              | Normal Voltage    | 0.0056                              |         |
| -30              | Normal Voltage    | 0.0062                              |         |
| 20               | Maximum Voltage   | 0.0037                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0011                              |         |

**Note:**

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 41C

## 26dB Bandwidth

| Mode       | LTE Band 41C : 26dB BW(MHz) |             |             |             |             |
|------------|-----------------------------|-------------|-------------|-------------|-------------|
| QPSK       |                             |             |             |             |             |
| BW         | 5MHz+20MHz                  | 10MHz+15MHz | 10MHz+20MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH  | 24.73                       | 25.08       | 29.85       | 25.13       | 30.69       |
| Middle CH  | 24.73                       | 25.03       | 29.97       | 25.18       | 30.51       |
| Highest CH | 24.73                       | 25.03       | 29.79       | 25.13       | 30.45       |
| BW         | 15MHz+20MHz                 | 20MHz+5MHz  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 34.90                       | 24.83       | 30.03       | 34.69       | 39.72       |
| Middle CH  | 34.76                       | 24.83       | 29.85       | 34.83       | 39.72       |
| Highest CH | 34.69                       | 24.88       | 30.03       | 34.90       | 39.72       |

| Mode       | LTE Band 41C : 26dB BW(MHz) |             |             |             |             |
|------------|-----------------------------|-------------|-------------|-------------|-------------|
| 16QAM      |                             |             |             |             |             |
| BW         | 5MHz+20MHz                  | 10MHz+15MHz | 10MHz+20MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH  | 24.58                       | 25.03       | 29.73       | 24.93       | 30.57       |
| Middle CH  | 24.73                       | 24.98       | 29.73       | 25.03       | 30.39       |
| Highest CH | 24.58                       | 25.08       | 29.79       | 25.18       | 30.45       |
| BW         | 15MHz+20MHz                 | 20MHz+5MHz  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 34.76                       | 24.88       | 30.03       | 34.76       | 39.72       |
| Middle CH  | 34.48                       | 24.78       | 30.03       | 34.83       | 39.80       |
| Highest CH | 34.76                       | 24.88       | 29.97       | 34.83       | 39.56       |

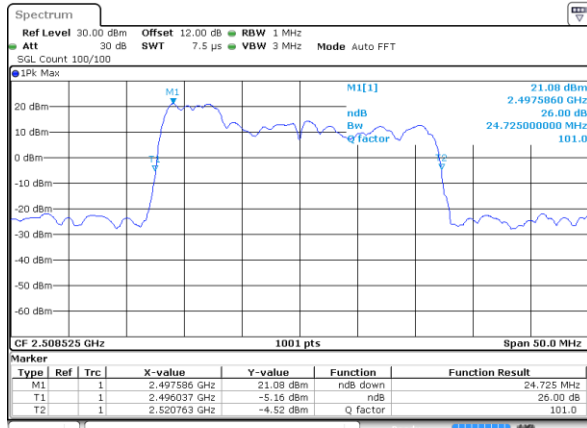
| Mode       | LTE Band 41C : 26dB BW(MHz) |             |             |             |             |
|------------|-----------------------------|-------------|-------------|-------------|-------------|
| 64QAM      |                             |             |             |             |             |
| BW         | 5MHz+20MHz                  | 10MHz+15MHz | 10MHz+20MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH  | 24.68                       | 24.98       | 29.79       | 24.93       | 30.33       |
| Middle CH  | 24.63                       | 24.93       | 29.73       | 25.08       | 30.57       |
| Highest CH | 24.83                       | 25.03       | 29.67       | 24.98       | 30.51       |
| BW         | 15MHz+20MHz                 | 20MHz+5MHz  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 34.76                       | 24.73       | 29.97       | 34.83       | 39.72       |
| Middle CH  | 34.76                       | 24.73       | 30.09       | 35.04       | 39.72       |
| Highest CH | 34.62                       | 24.78       | 29.91       | 34.90       | 39.88       |



## LTE Band 41C

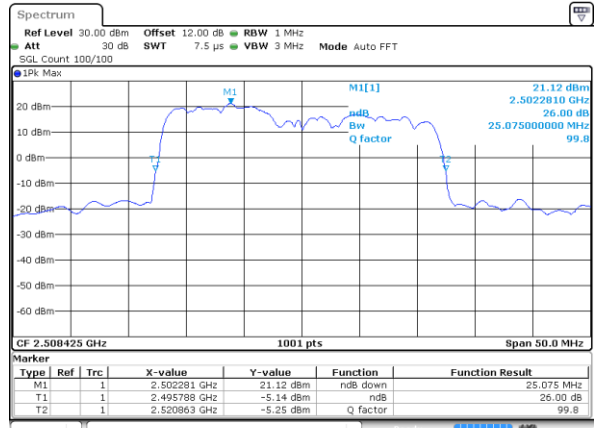
## QPSK

## Lowest Channel / 5MHz+20MHz



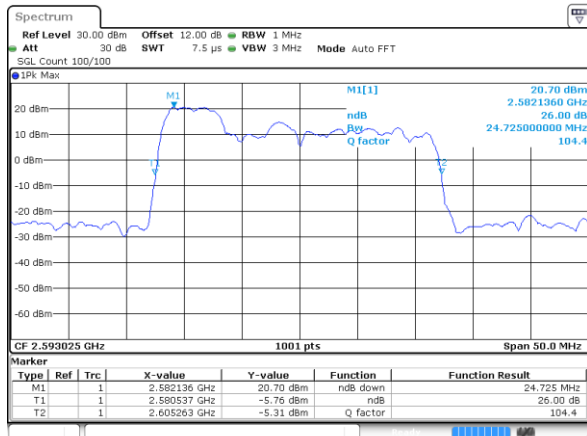
Date: 16 JUN 2020 10:12:04

## Lowest Channel / 10MHz+15MHz



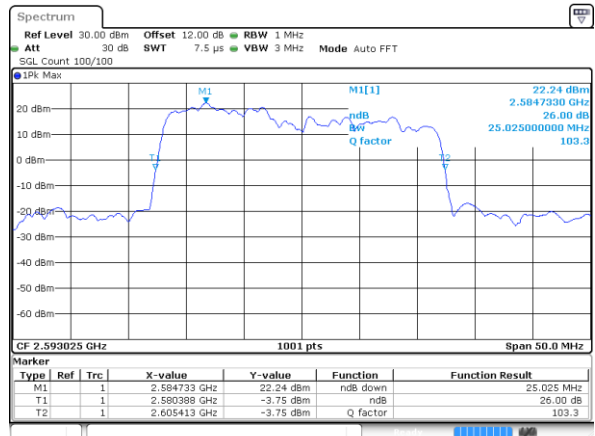
Date: 16 JUN 2020 14:23:40

## Middle Channel / 5MHz+20MHz



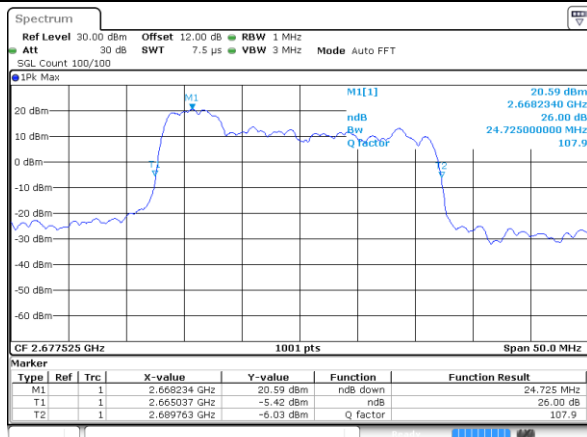
Date: 16 JUN 2020 10:35:48

## Middle Channel / 10MHz+15MHz



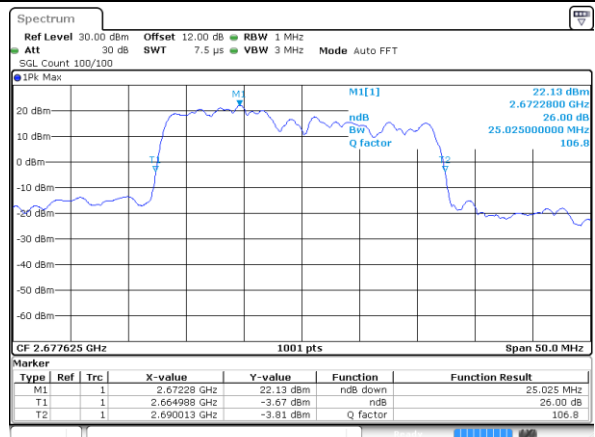
Date: 16 JUN 2020 16:09:22

## Highest Channel / 5MHz+20MHz



Date: 16 JUN 2020 10:55:35

## Highest Channel / 10MHz+15MHz



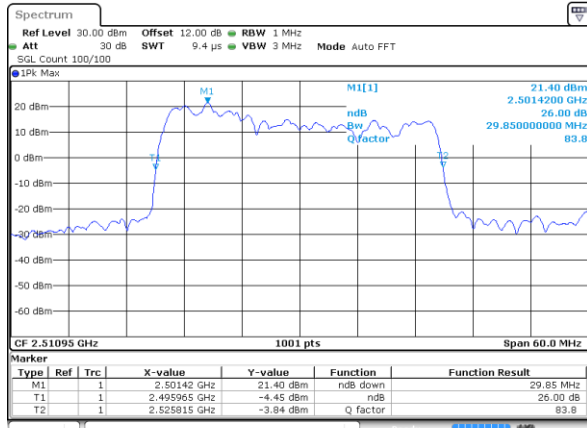
Date: 16 JUN 2020 16:34:21



## LTE Band 41C

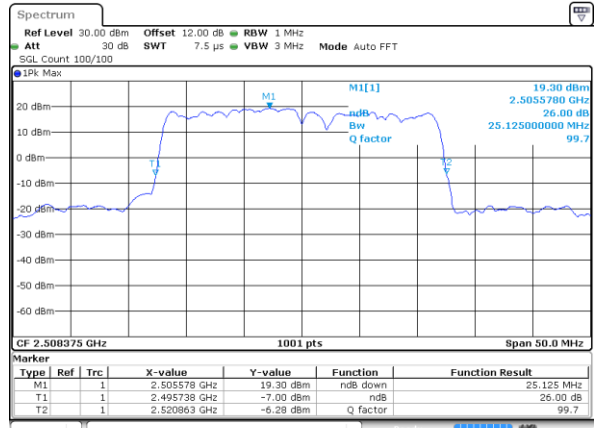
## QPSK

## Lowest Channel / 10MHz+20MHz



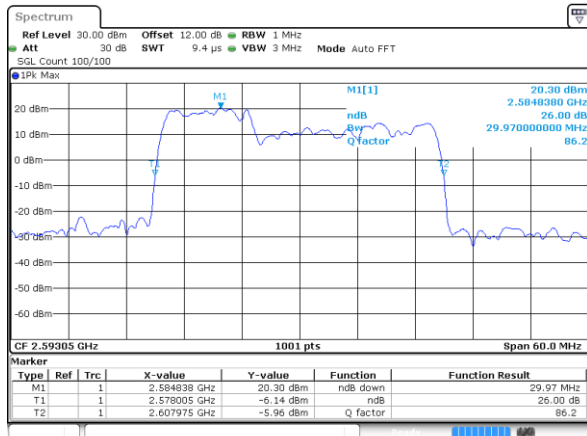
Date: 16 JUN 2020 17:42:48

## Lowest Channel / 15MHz+10MHz



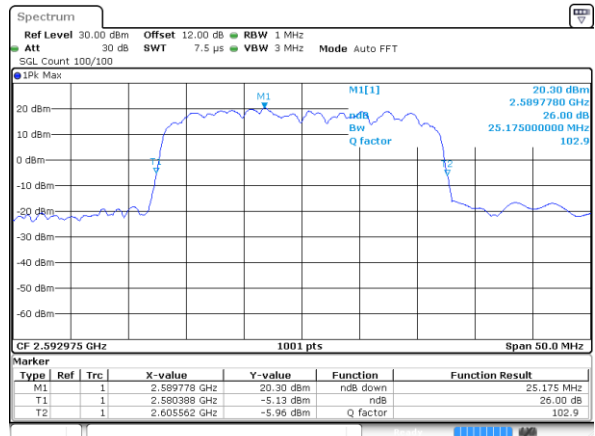
Date: 16 JUN 2020 19:04:25

## Middle Channel / 10MHz+20MHz



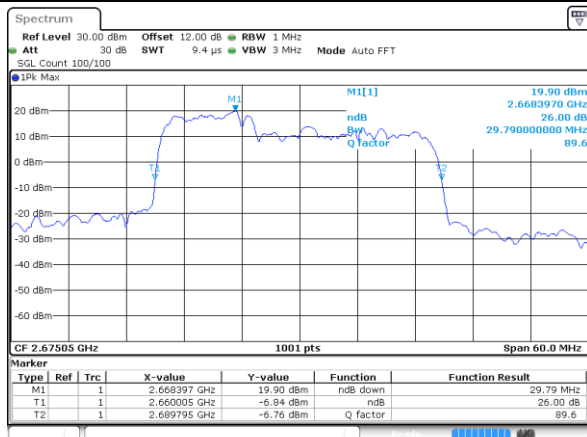
Date: 16 JUN 2020 18:02:42

## Middle Channel / 15MHz+10MHz



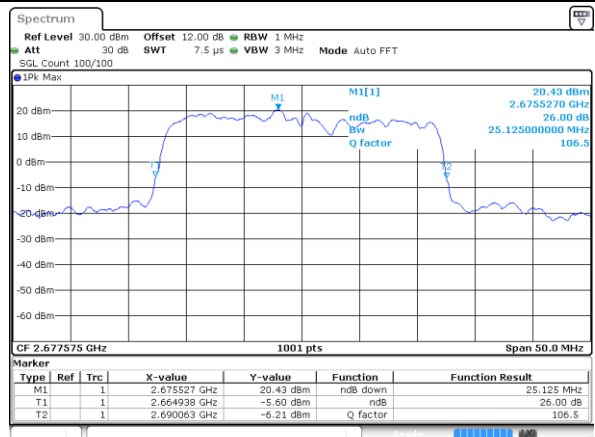
Date: 16 JUN 2020 19:24:04

## Highest Channel / 10MHz+20MHz



Date: 16 JUN 2020 18:15:33

## Highest Channel / 15MHz+10MHz



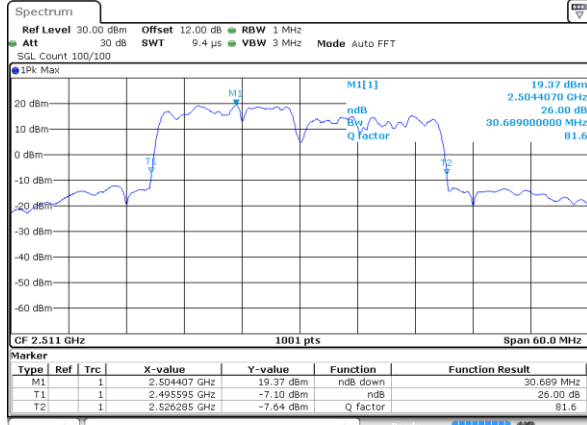
Date: 16 JUN 2020 19:38:00



## LTE Band 41C

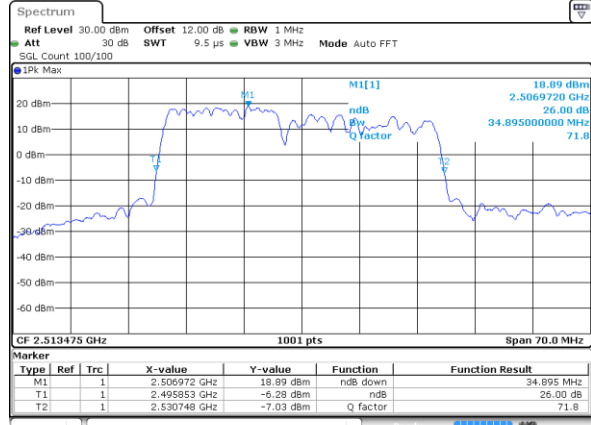
## QPSK

## Lowest Channel / 15MHz+15MHz



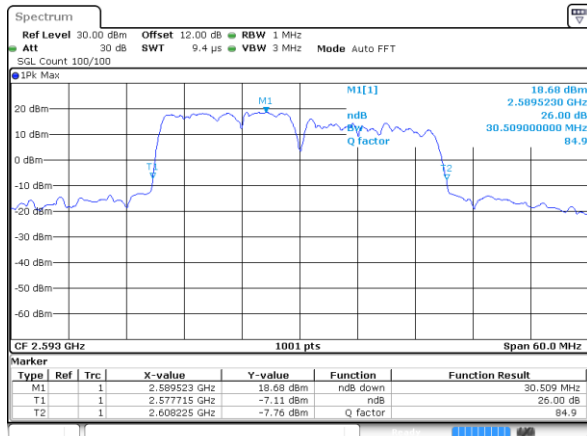
Date: 16 JUN 2020 04:44:44

## Lowest Channel / 15MHz+20MHz



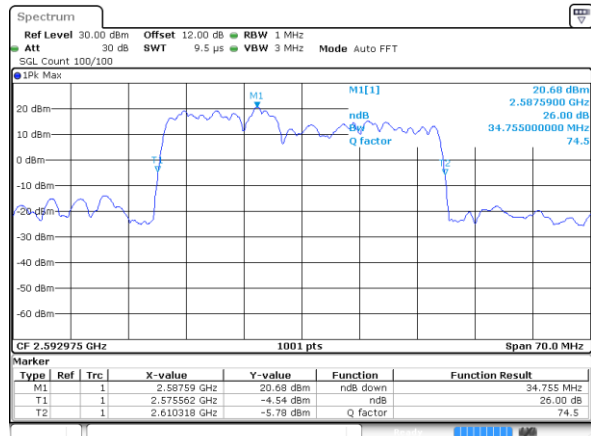
Date: 16 JUN 2020 03:12:10

## Middle Channel / 15MHz+15MHz



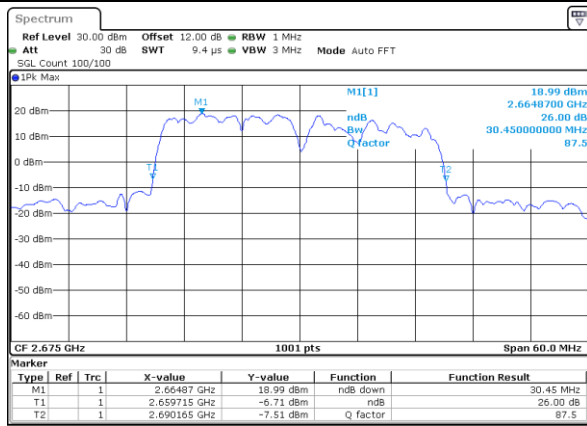
Date: 16 JUN 2020 04:49:32

## Middle Channel / 15MHz+20MHz



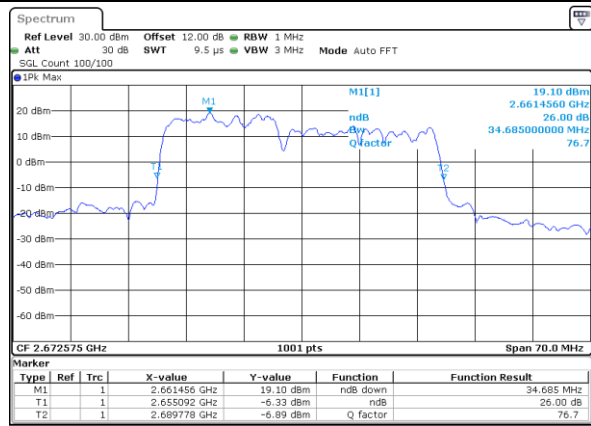
Date: 16 JUN 2020 03:16:04

## Highest Channel / 15MHz+15MHz



Date: 16 JUN 2020 05:32:14

## Highest Channel / 15MHz+20MHz



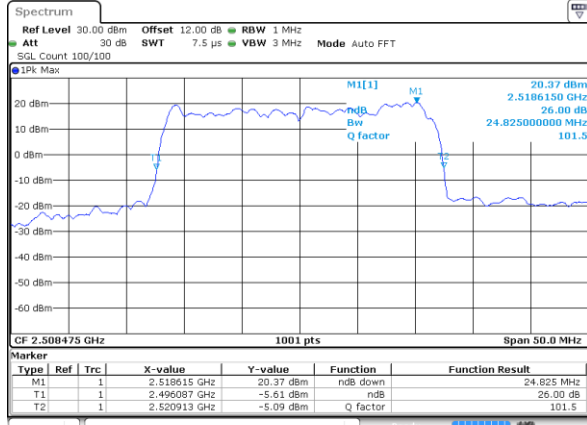
Date: 16 JUN 2020 04:01:39



## LTE Band 41C

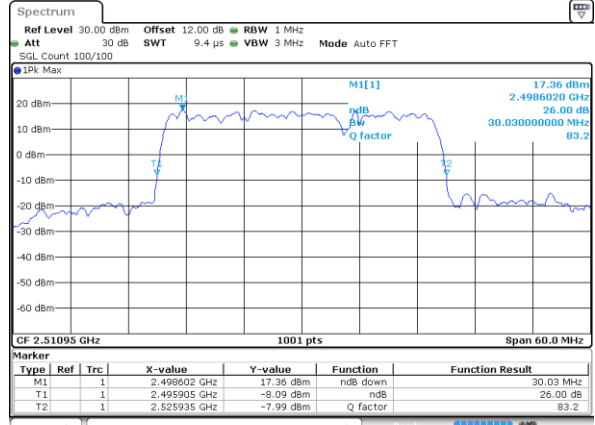
## QPSK

## Lowest Channel / 20MHz+5MHz



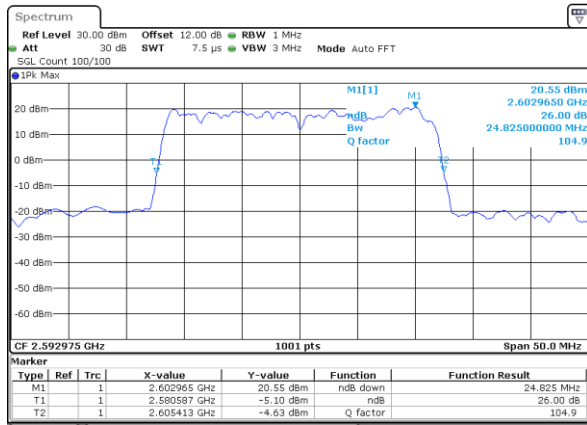
Date: 16 JUN 2020 11:21:07

## Lowest Channel / 20MHz+10MHz



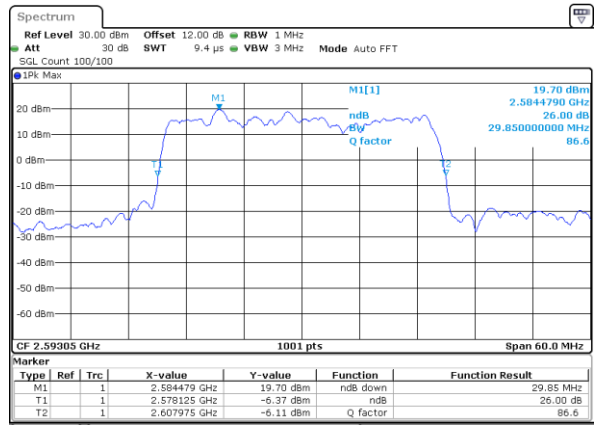
Date: 16 JUN 2020 06:07:31

## Middle Channel / 20MHz+5MHz



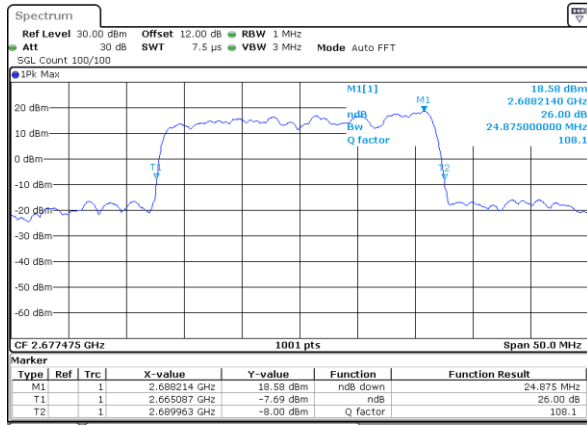
Date: 16 JUN 2020 13:44:35

## Middle Channel / 20MHz+10MHz



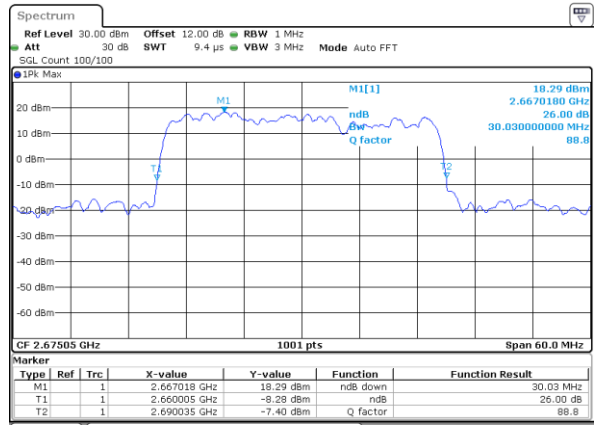
Date: 16 JUN 2020 06:10:05

## Highest Channel / 20MHz+5MHz



Date: 16 JUN 2020 14:00:28

## Highest Channel / 20MHz+10MHz



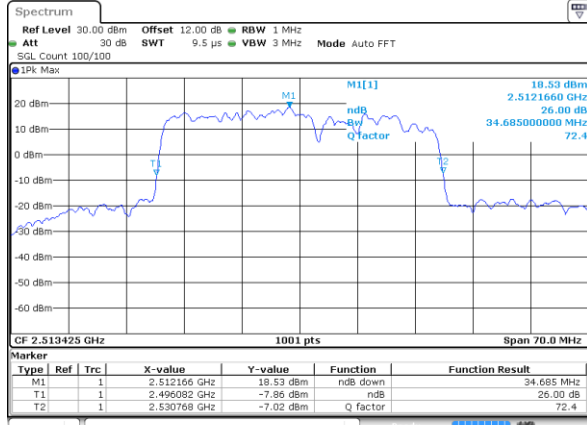
Date: 16 JUN 2020 08:21:59



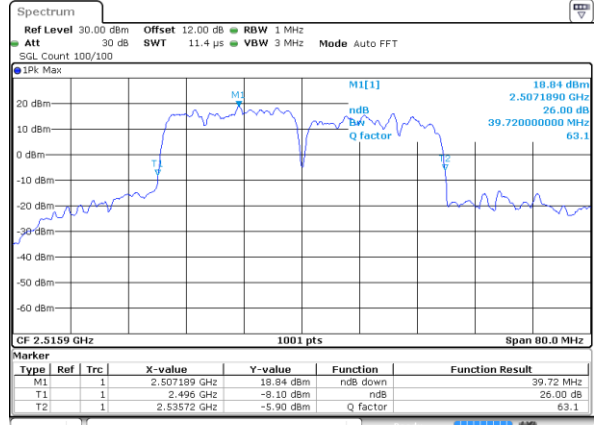
## LTE Band 41C

## QPSK

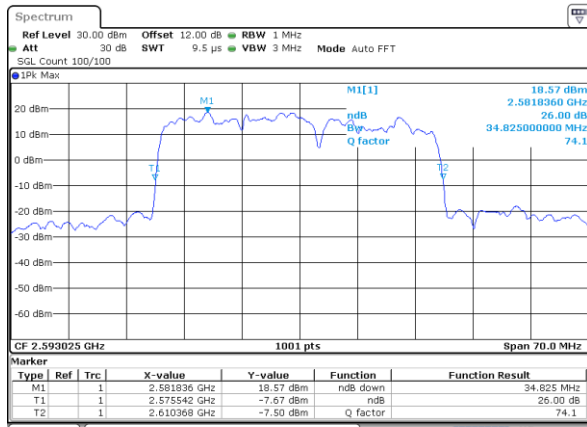
## Lowest Channel / 20MHz+15MHz



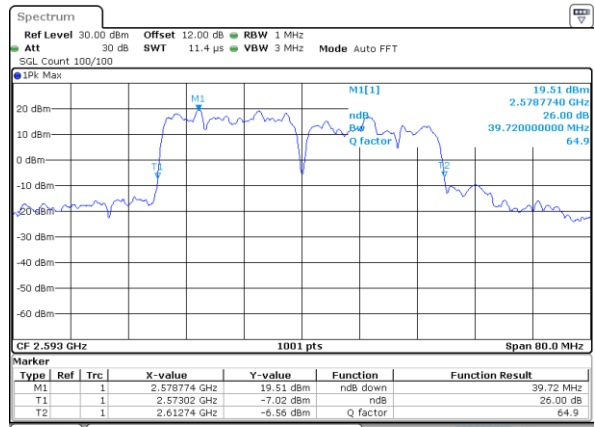
## Lowest Channel / 20MHz+20MHz



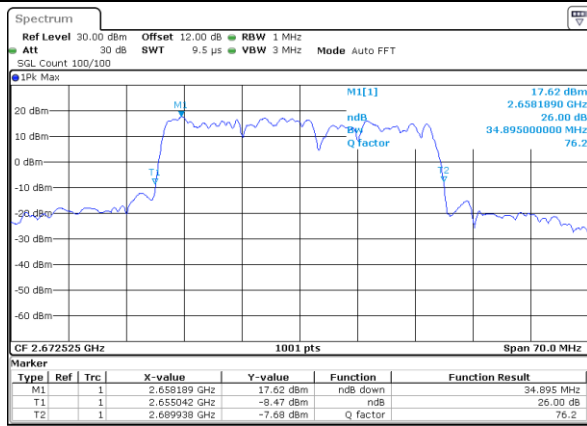
## Middle Channel / 20MHz+15MHz



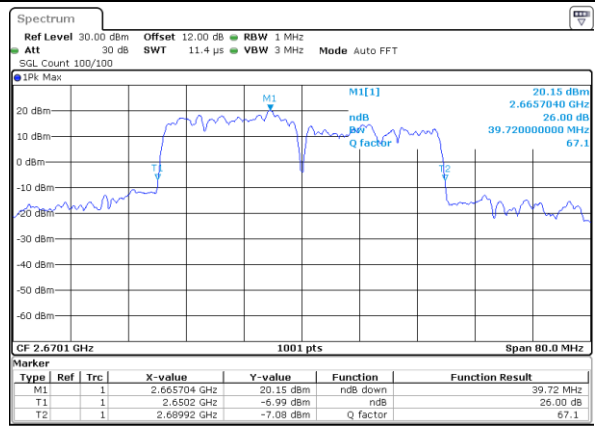
## Middle Channel / 20MHz+20MHz



## Highest Channel / 20MHz+15MHz



## Highest Channel / 20MHz+20MHz

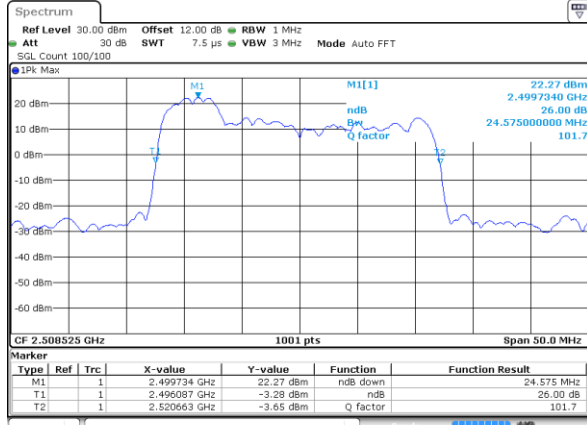




## LTE Band 41C

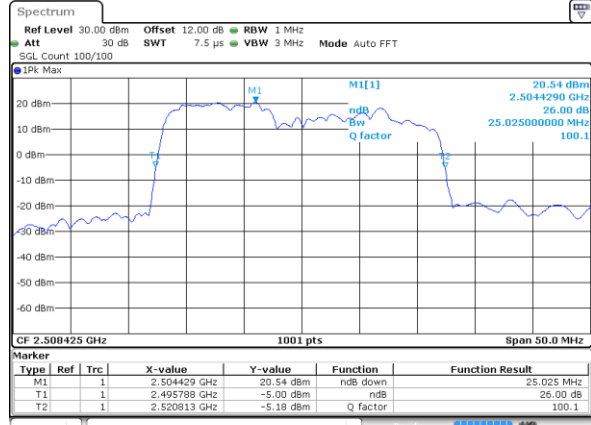
## 16QAM

## Lowest Channel / 5MHz+20MHz



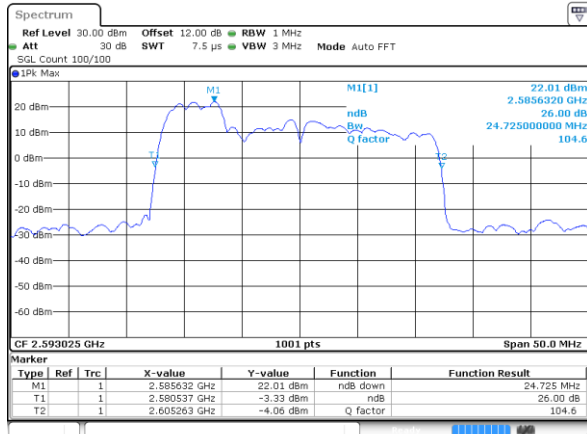
Date: 16 JUN 2020 10:11:42

## Lowest Channel / 10MHz+15MHz



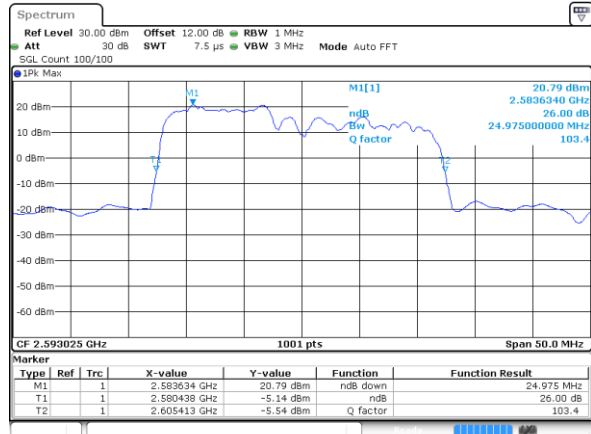
Date: 16 JUN 2020 14:23:17

## Middle Channel / 5MHz+20MHz



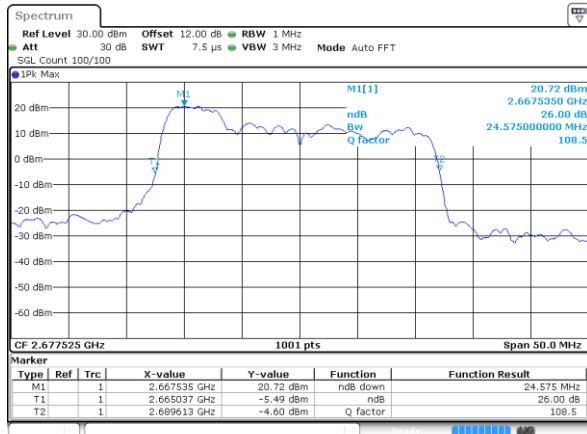
Date: 16 JUN 2020 10:35:26

## Middle Channel / 10MHz+15MHz



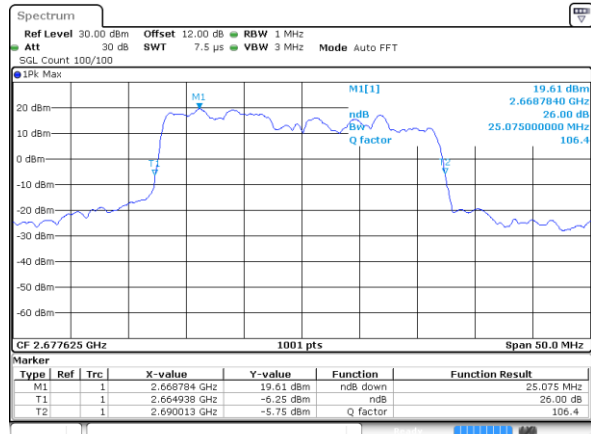
Date: 16 JUN 2020 16:08:59

## Highest Channel / 5MHz+20MHz



Date: 16 JUN 2020 10:55:57

## Highest Channel / 10MHz+15MHz



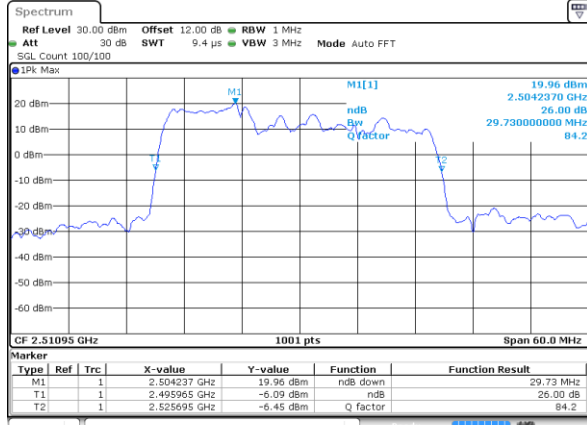
Date: 16 JUN 2020 16:34:43



## LTE Band 41C

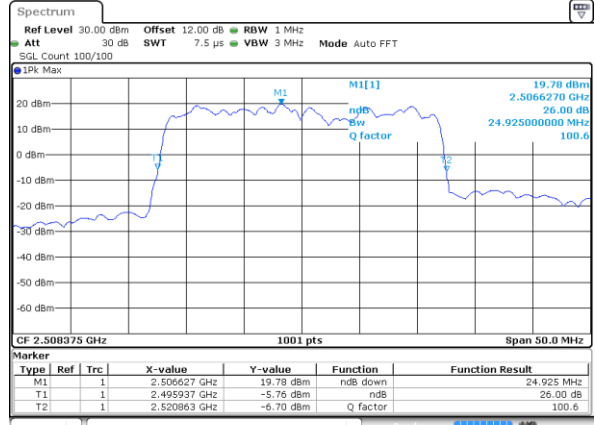
## 16QAM

## Lowest Channel / 10MHz+20MHz



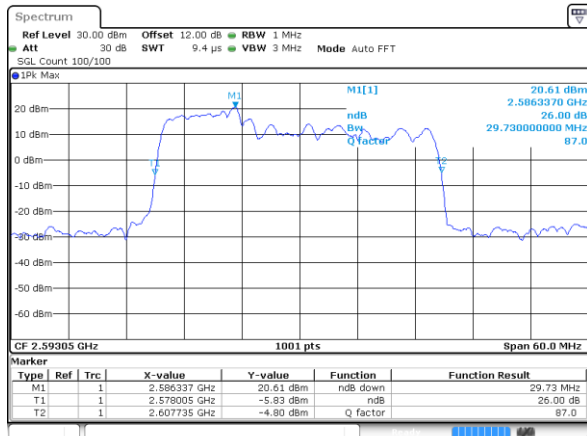
Date: 16 JUN 2020 17:42:26

## Lowest Channel / 15MHz+10MHz



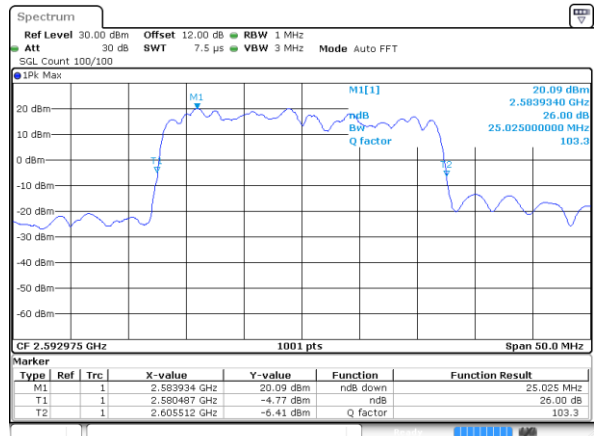
Date: 16 JUN 2020 19:04:02

## Middle Channel / 10MHz+20MHz



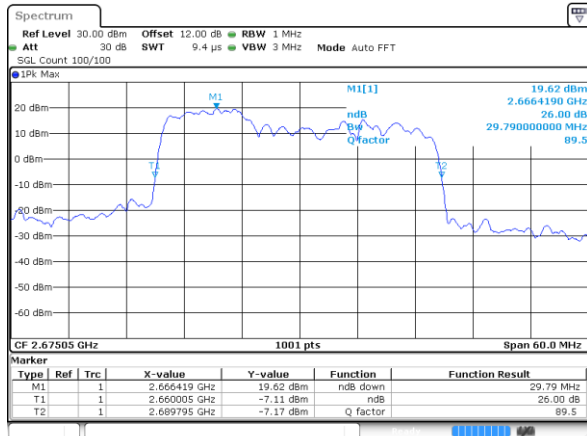
Date: 16 JUN 2020 18:02:20

## Middle Channel / 15MHz+10MHz



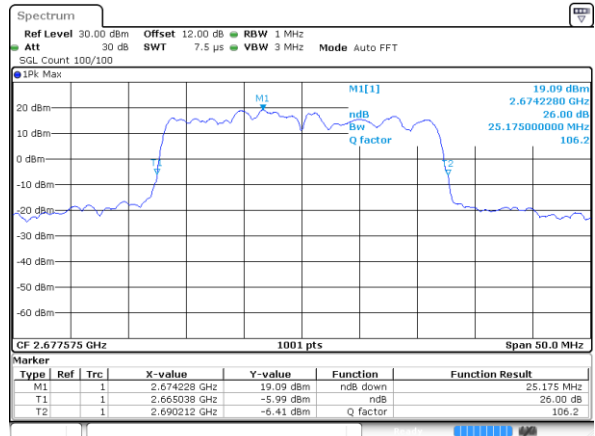
Date: 16 JUN 2020 19:23:41

## Highest Channel / 10MHz+20MHz



Date: 16 JUN 2020 18:15:55

## Highest Channel / 15MHz+10MHz



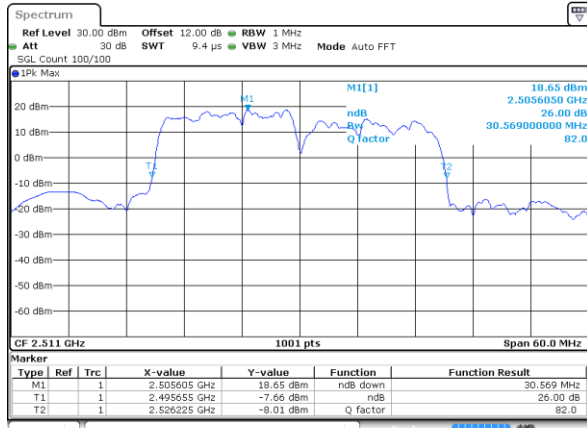
Date: 16 JUN 2020 19:38:22



## LTE Band 41C

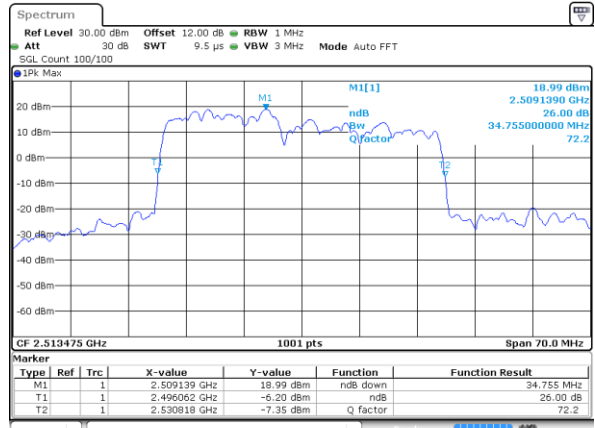
## 16QAM

## Lowest Channel / 15MHz+15MHz



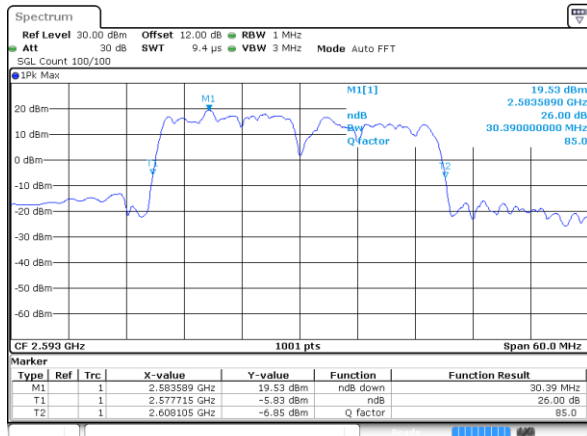
Date: 16 JUN 2020 04:44:21

## Lowest Channel / 15MHz+20MHz



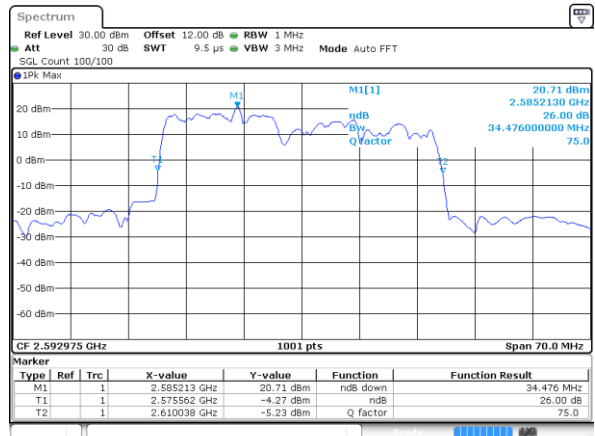
Date: 16 JUN 2020 03:11:48

## Middle Channel / 15MHz+15MHz



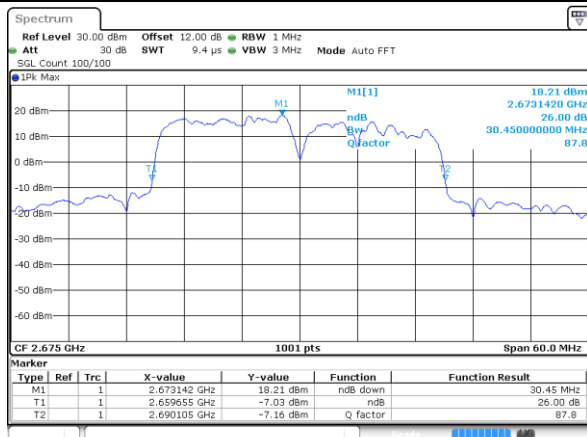
Date: 16 JUN 2020 04:49:09

## Middle Channel / 15MHz+20MHz



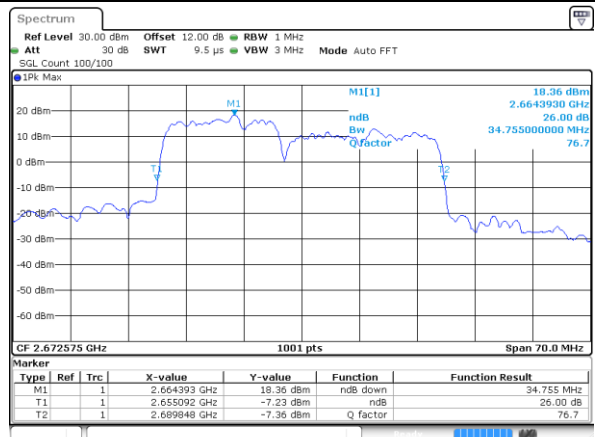
Date: 16 JUN 2020 03:15:42

## Highest Channel / 15MHz+15MHz



Date: 16 JUN 2020 05:32:36

## Highest Channel / 15MHz+20MHz



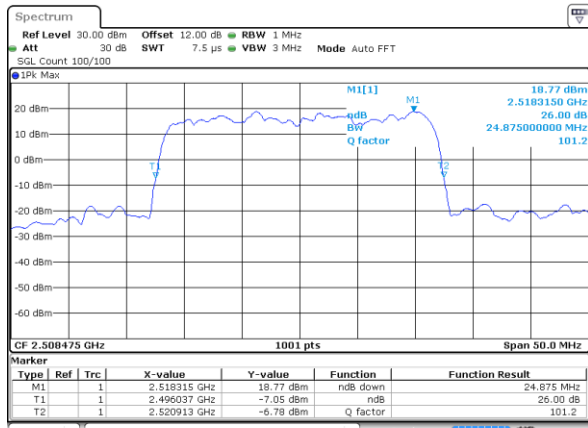
Date: 16 JUN 2020 04:02:02



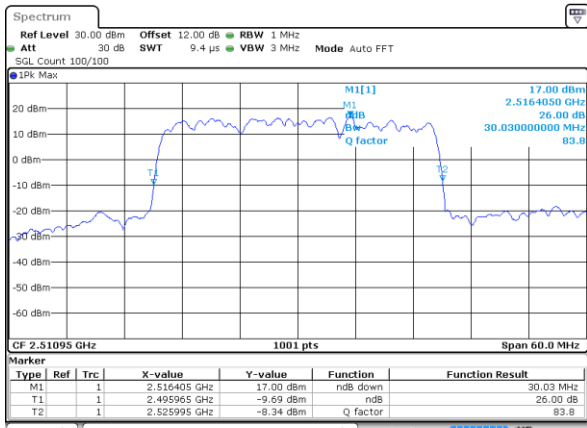
## LTE Band 41C

## 16QAM

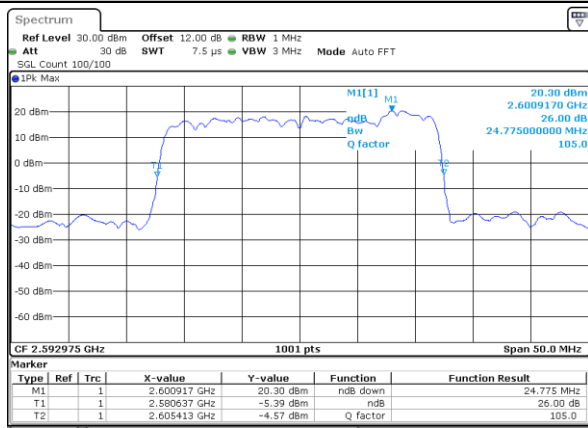
## Lowest Channel / 20MHz+5MHz



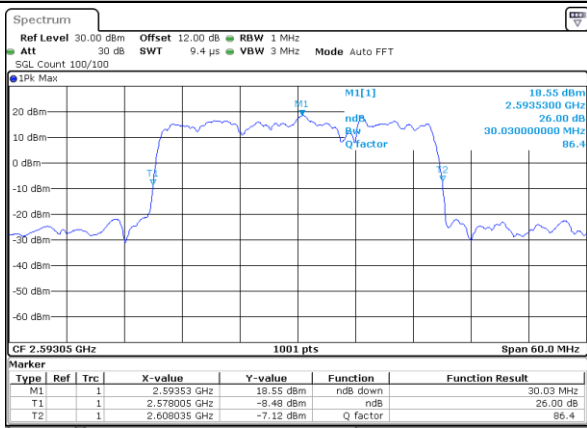
## Lowest Channel / 20MHz+10MHz



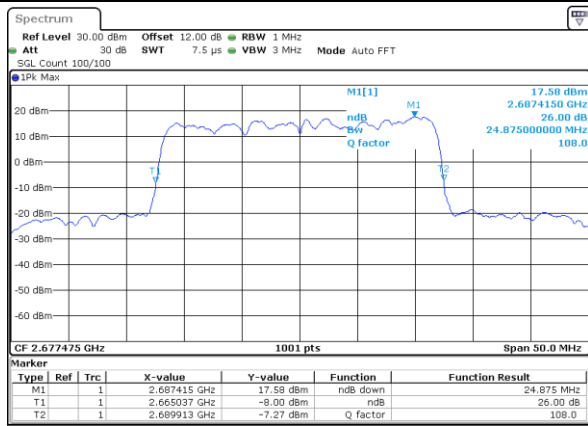
## Middle Channel / 20MHz+5MHz



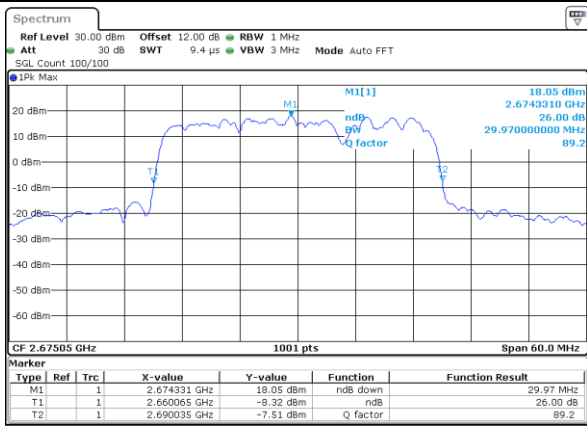
## Middle Channel / 20MHz+10MHz



## Highest Channel / 20MHz+5MHz



## Highest Channel / 20MHz+10MHz

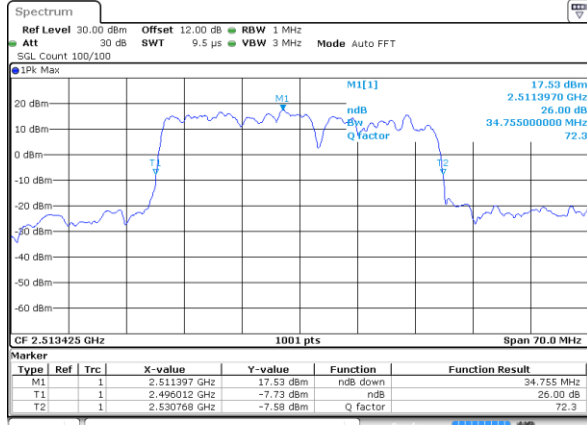




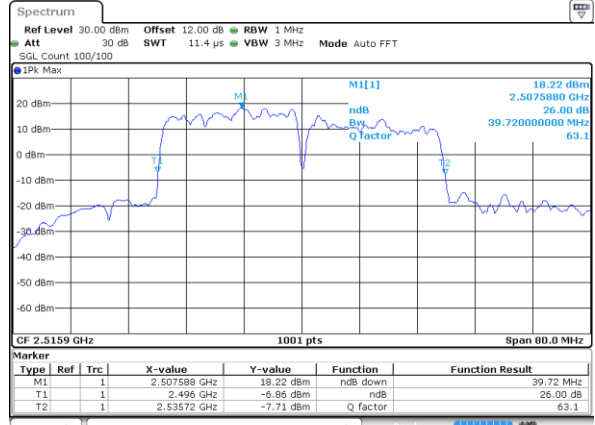
## LTE Band 41C

## 16QAM

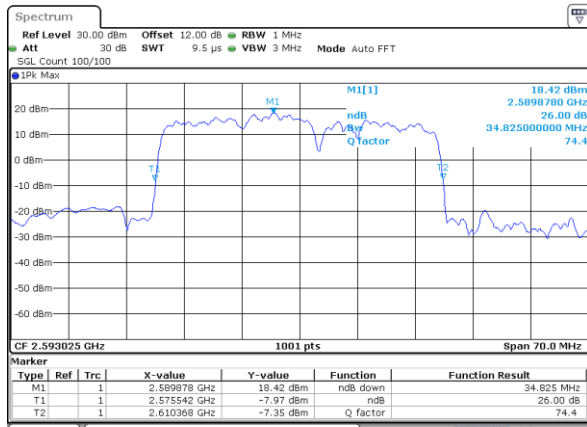
## Lowest Channel / 20MHz+15MHz



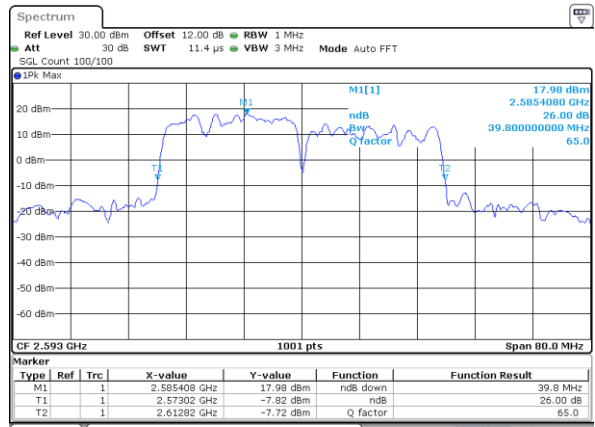
## Lowest Channel / 20MHz+20MHz



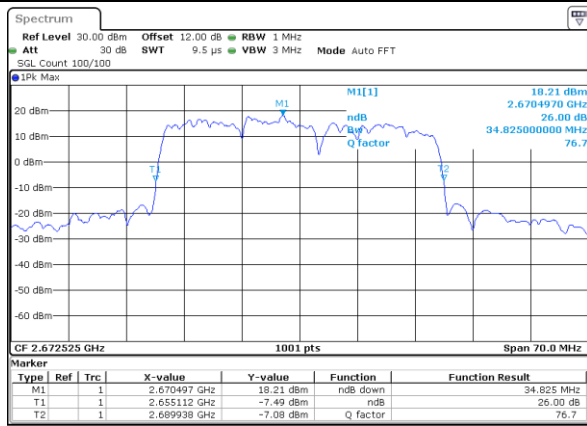
## Middle Channel / 20MHz+15MHz



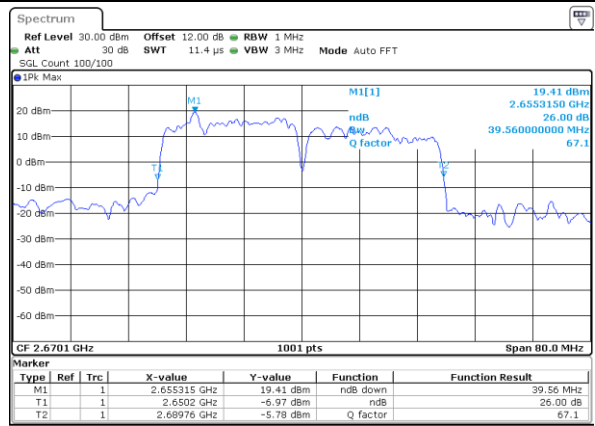
## Middle Channel / 20MHz+20MHz



## Highest Channel / 20MHz+15MHz



## Highest Channel / 20MHz+20MHz

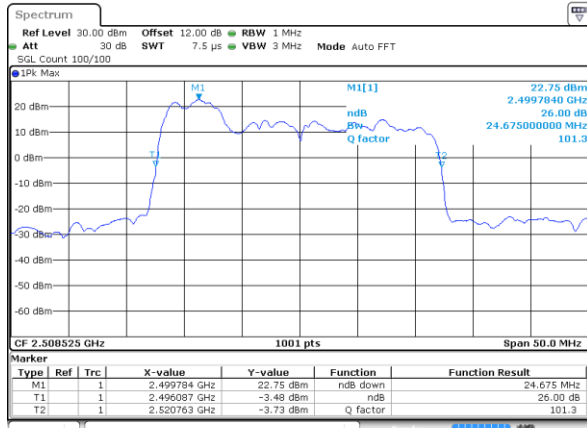




## LTE Band 41C

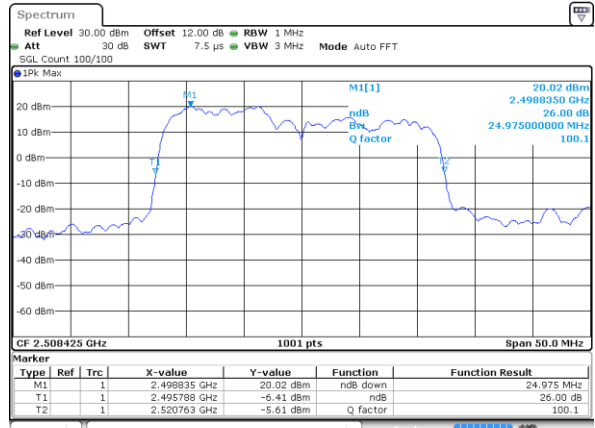
## 64QAM

## Lowest Channel / 5MHz+20MHz



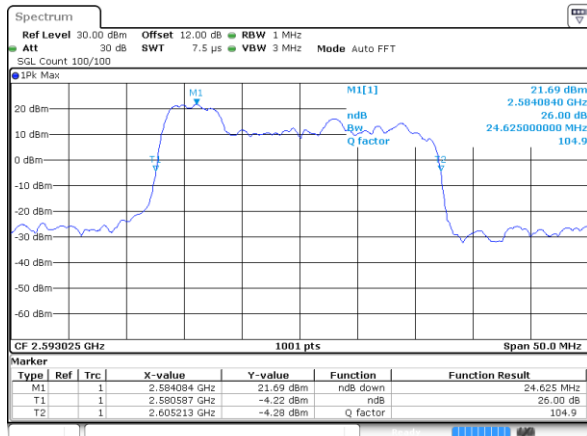
Date: 16 JUN 2020 10:11:19

## Lowest Channel / 10MHz+15MHz



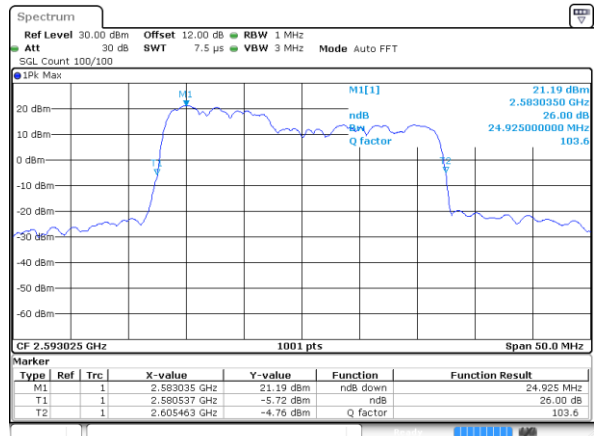
Date: 16 JUN 2020 14:22:55

## Middle Channel / 5MHz+20MHz



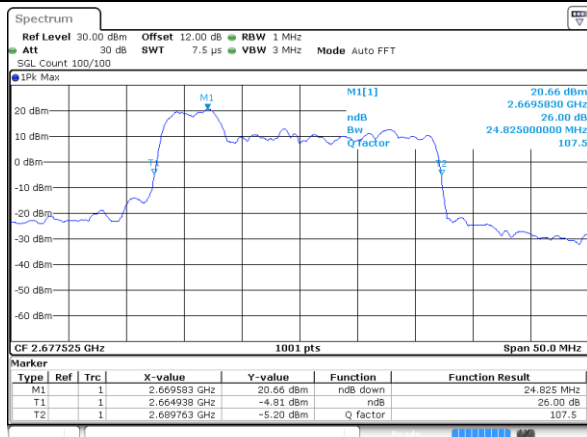
Date: 16 JUN 2020 10:35:03

## Middle Channel / 10MHz+15MHz



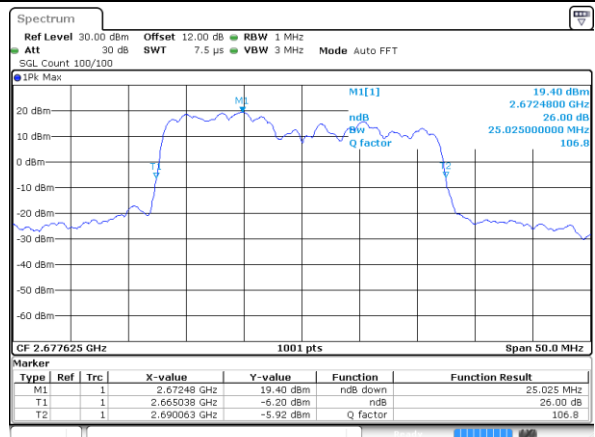
Date: 16 JUN 2020 16:08:37

## Highest Channel / 5MHz+20MHz



Date: 16 JUN 2020 10:56:20

## Highest Channel / 10MHz+15MHz



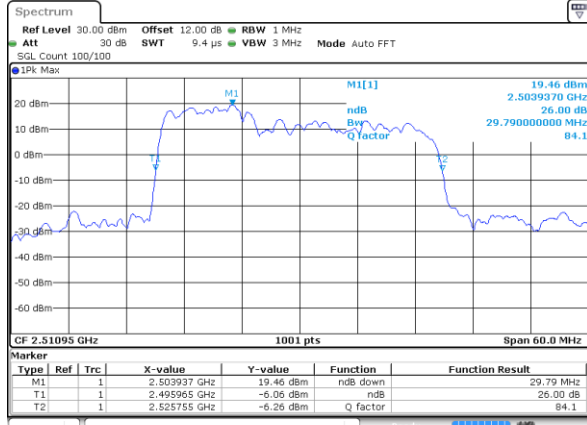
Date: 16 JUN 2020 16:35:06



## LTE Band 41C

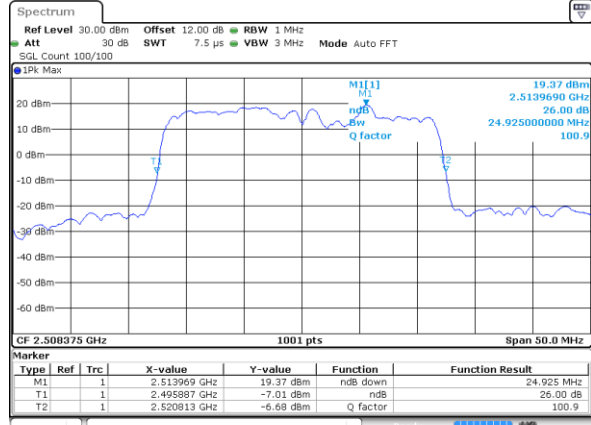
## 64QAM

## Lowest Channel / 10MHz+20MHz



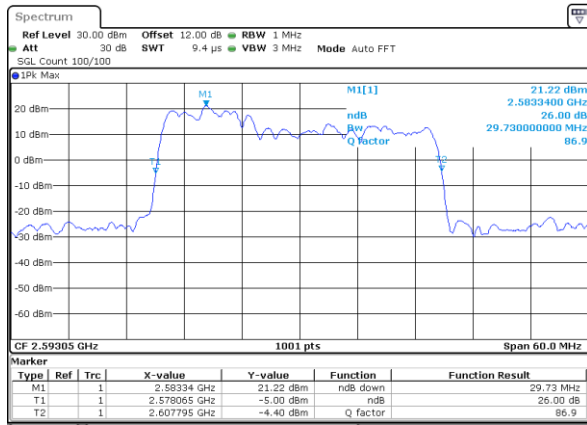
Date: 16 JUN 2020 17:42:03

## Lowest Channel / 15MHz+10MHz



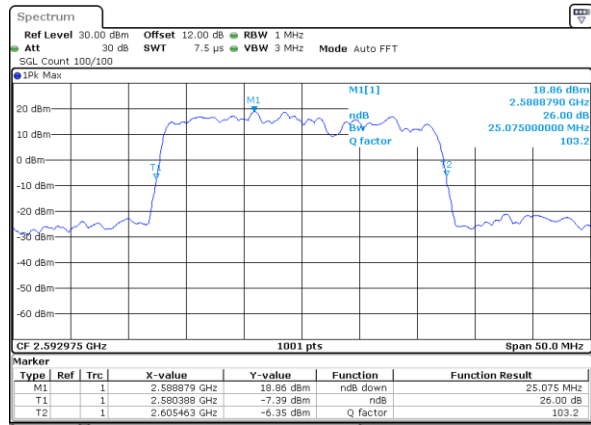
Date: 16 JUN 2020 19:03:39

## Middle Channel / 10MHz+20MHz



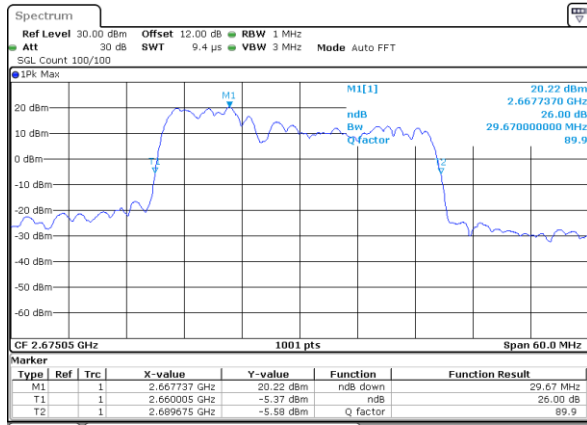
Date: 16 JUN 2020 18:01:58

## Middle Channel / 15MHz+10MHz



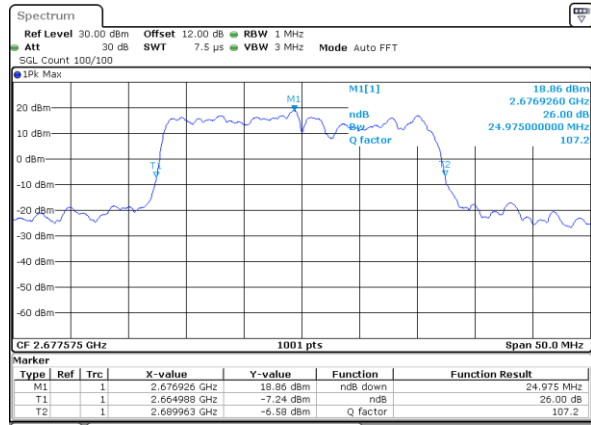
Date: 16 JUN 2020 19:23:19

## Highest Channel / 10MHz+20MHz



Date: 16 JUN 2020 18:16:17

## Highest Channel / 15MHz+10MHz



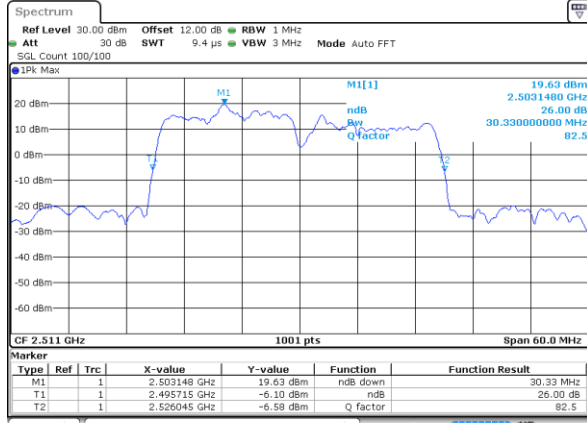
Date: 16 JUN 2020 19:38:45



## LTE Band 41C

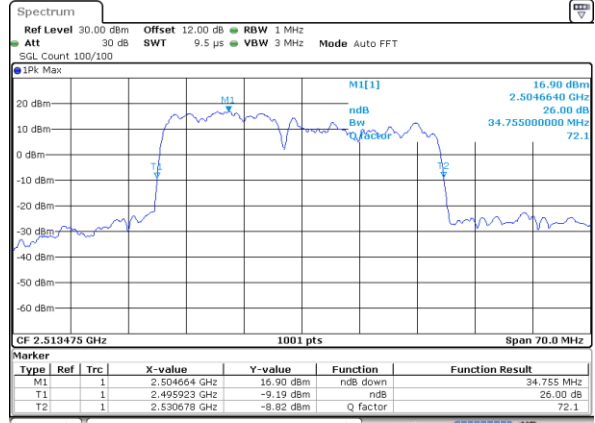
## 64QAM

## Lowest Channel / 15MHz+15MHz



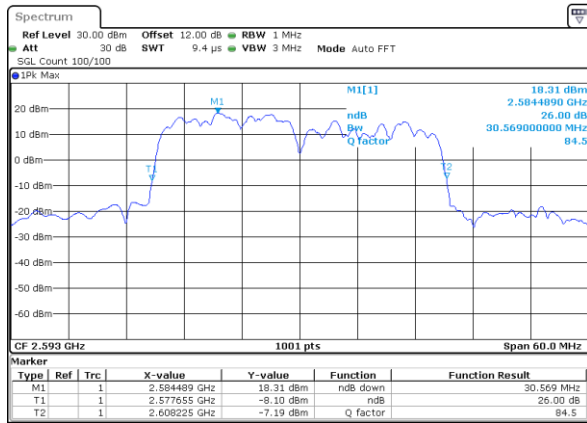
Date: 16 JUN 2020 04:43:59

## Lowest Channel / 15MHz+20MHz



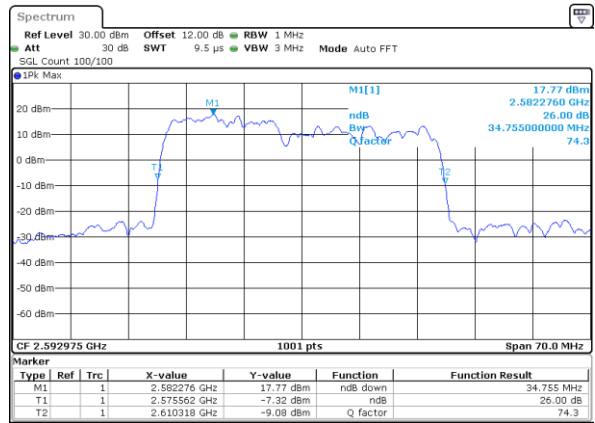
Date: 16 JUN 2020 03:11:26

## Middle Channel / 15MHz+15MHz



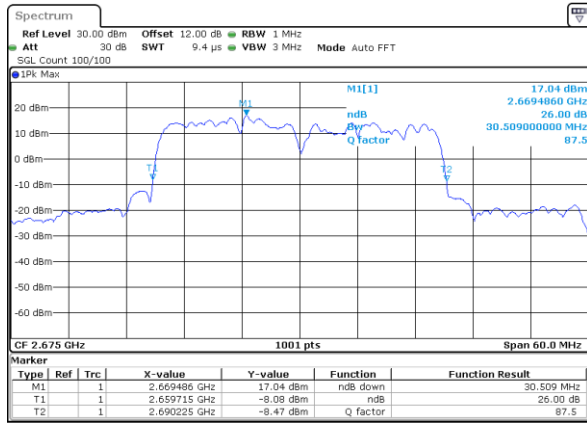
Date: 16 JUN 2020 04:48:47

## Middle Channel / 15MHz+20MHz



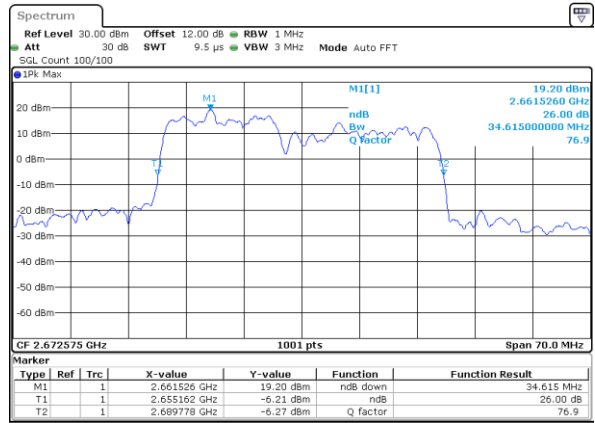
Date: 16 JUN 2020 03:15:19

## Highest Channel / 15MHz+15MHz



Date: 16 JUN 2020 05:32:59

## Highest Channel / 15MHz+20MHz



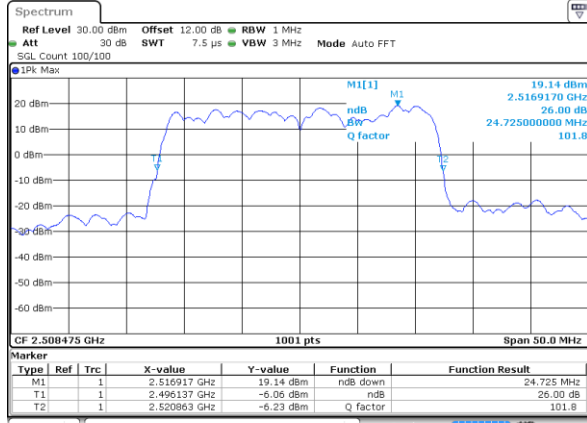
Date: 16 JUN 2020 04:02:24



## LTE Band 41C

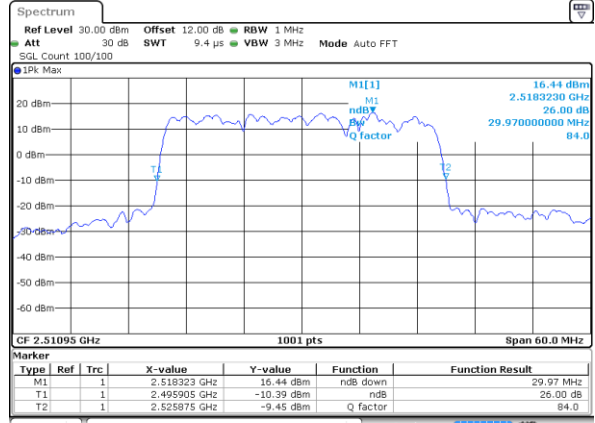
## 64QAM

## Lowest Channel / 20MHz+5MHz



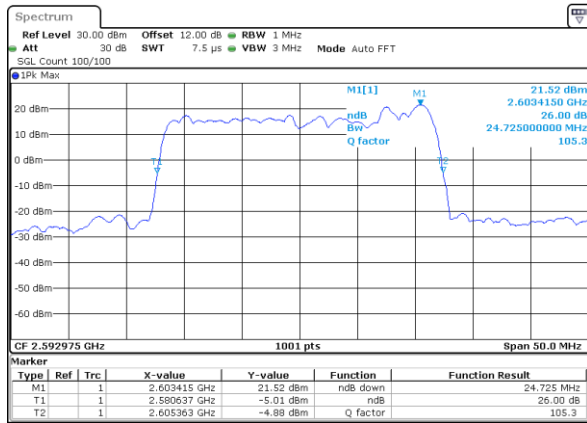
Date: 16 JUN 2020 11:20:22

## Lowest Channel / 20MHz+10MHz



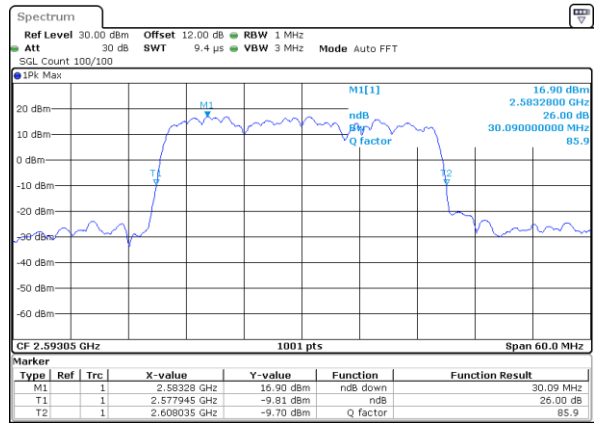
Date: 16 JUN 2020 06:06:46

## Middle Channel / 20MHz+5MHz



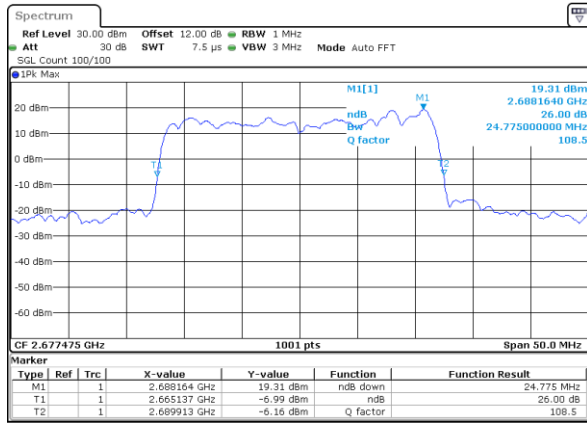
Date: 16 JUN 2020 13:43:50

## Middle Channel / 20MHz+10MHz



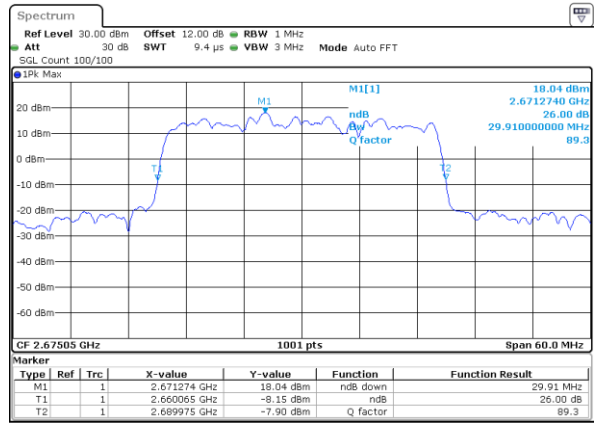
Date: 16 JUN 2020 06:12:20

## Highest Channel / 20MHz+5MHz



Date: 16 JUN 2020 14:01:14

## Highest Channel / 20MHz+10MHz



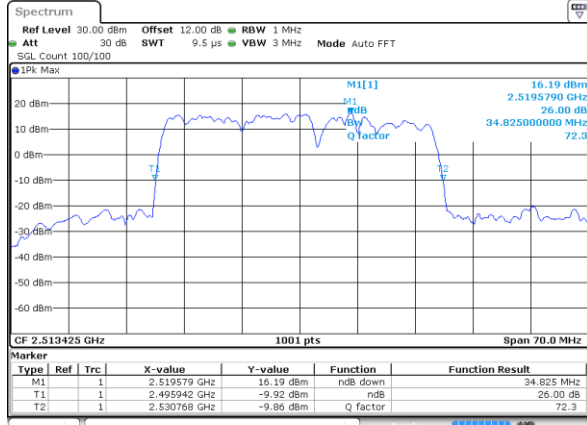
Date: 16 JUN 2020 08:22:44



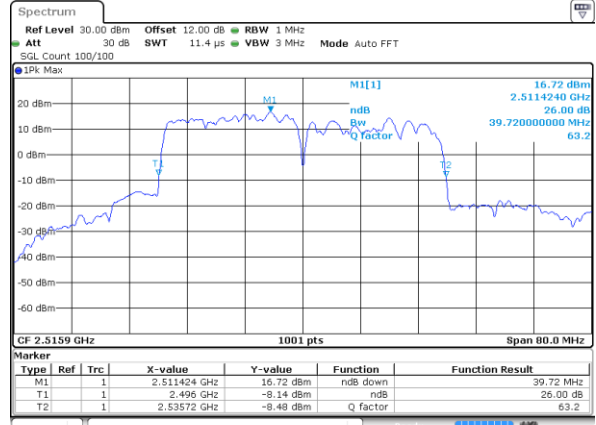
## LTE Band 41C

## 64QAM

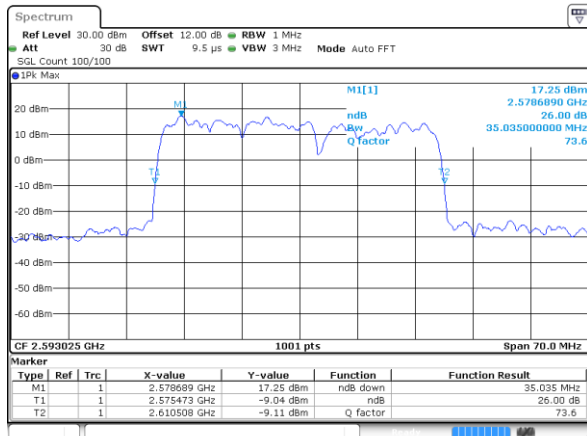
## Lowest Channel / 20MHz+15MHz



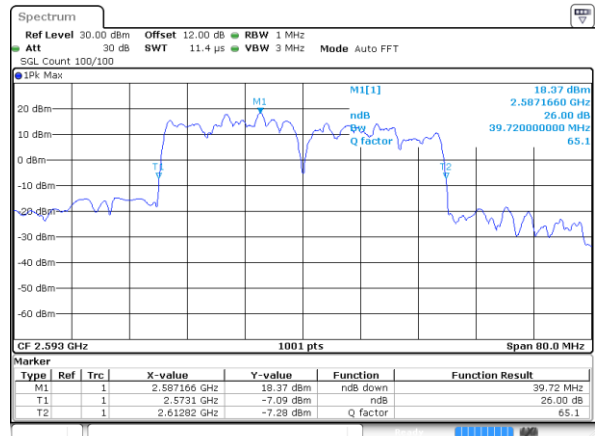
## Lowest Channel / 20MHz+20MHz



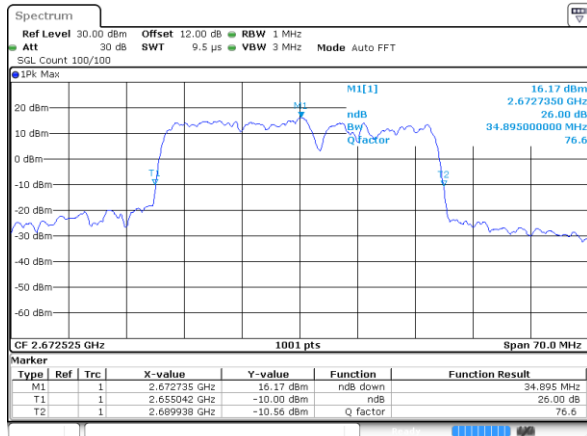
## Middle Channel / 20MHz+15MHz



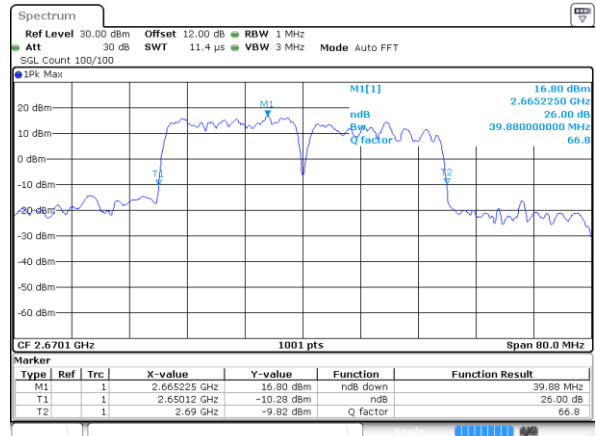
## Middle Channel / 20MHz+20MHz



## Highest Channel / 20MHz+15MHz



## Highest Channel / 20MHz+20MHz



**Occupied Bandwidth**

| Mode       | LTE Band 41C : 99%OBW(MHz) |             |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|-------------|
| QPSK       |                            |             |             |             |             |
| BW         | 5MHz+20MHz                 | 10MHz+15MHz | 10MHz+20MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH  | 22.93                      | 23.23       | 27.87       | 23.48       | 28.17       |
| Middle CH  | 23.13                      | 23.23       | 27.39       | 23.28       | 28.53       |
| Highest CH | 23.08                      | 23.43       | 27.63       | 23.23       | 28.59       |
| BW         | 15MHz+20MHz                | 20MHz+5MHz  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 32.73                      | 23.38       | 27.99       | 32.73       | 37.48       |
| Middle CH  | 32.87                      | 23.38       | 27.99       | 33.08       | 37.64       |
| Highest CH | 32.80                      | 23.23       | 28.05       | 32.59       | 37.16       |

| Mode       | LTE Band 41C : 99%OBW(MHz) |             |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|-------------|
| 16QAM      |                            |             |             |             |             |
| BW         | 5MHz+20MHz                 | 10MHz+15MHz | 10MHz+20MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH  | 23.23                      | 23.28       | 28.11       | 23.33       | 28.41       |
| Middle CH  | 23.03                      | 23.33       | 28.05       | 23.43       | 28.71       |
| Highest CH | 23.03                      | 23.23       | 27.93       | 23.58       | 28.41       |
| BW         | 15MHz+20MHz                | 20MHz+5MHz  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 32.45                      | 23.28       | 27.87       | 32.45       | 37.40       |
| Middle CH  | 32.66                      | 22.98       | 27.93       | 32.73       | 37.72       |
| Highest CH | 32.59                      | 23.38       | 27.99       | 32.73       | 37.56       |

| Mode       | LTE Band 41C : 99%OBW(MHz) |             |             |             |             |
|------------|----------------------------|-------------|-------------|-------------|-------------|
| 64QAM      |                            |             |             |             |             |
| BW         | 5MHz+20MHz                 | 10MHz+15MHz | 10MHz+20MHz | 15MHz+10MHz | 15MHz+15MHz |
| Lowest CH  | 22.98                      | 23.28       | 27.75       | 23.08       | 28.65       |
| Middle CH  | 23.03                      | 23.23       | 27.63       | 23.18       | 28.11       |
| Highest CH | 22.78                      | 23.03       | 27.75       | 23.38       | 28.47       |
| BW         | 15MHz+20MHz                | 20MHz+5MHz  | 20MHz+10MHz | 20MHz+15MHz | 20MHz+20MHz |
| Lowest CH  | 32.59                      | 23.23       | 27.81       | 32.87       | 37.48       |
| Middle CH  | 32.38                      | 23.28       | 27.93       | 32.52       | 37.24       |
| Highest CH | 32.80                      | 23.18       | 27.75       | 32.80       | 37.64       |