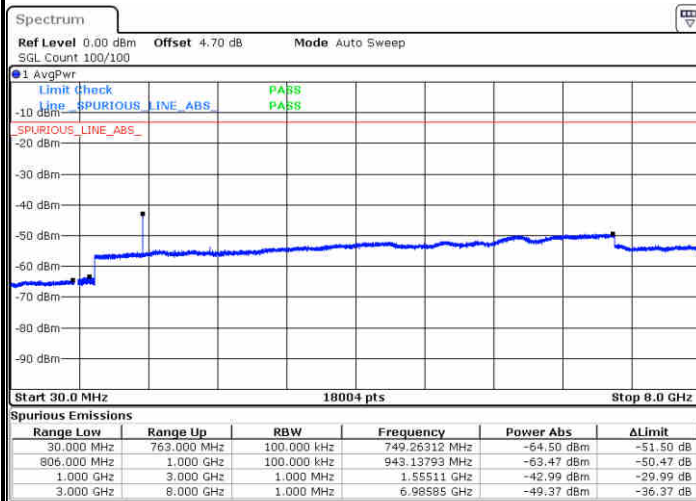




# Conducted Spurious Emission

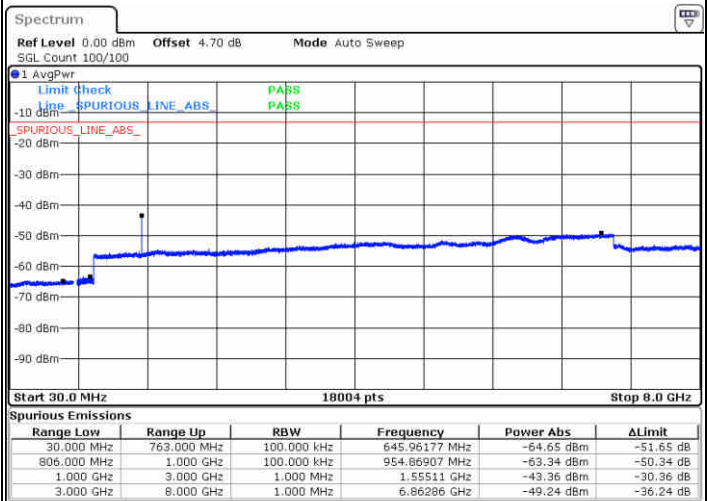
## LTE Band 13 / 5MHz

### Lowest Channel / QPSK



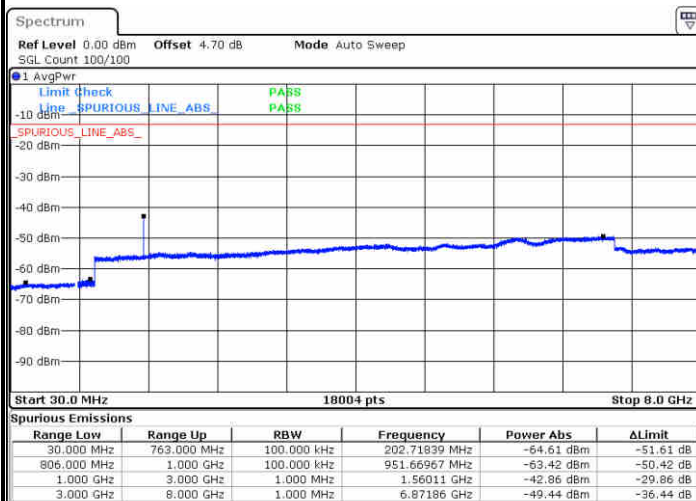
Date: 26 JUL 2020 04:33:26

### Lowest Channel / 16QAM



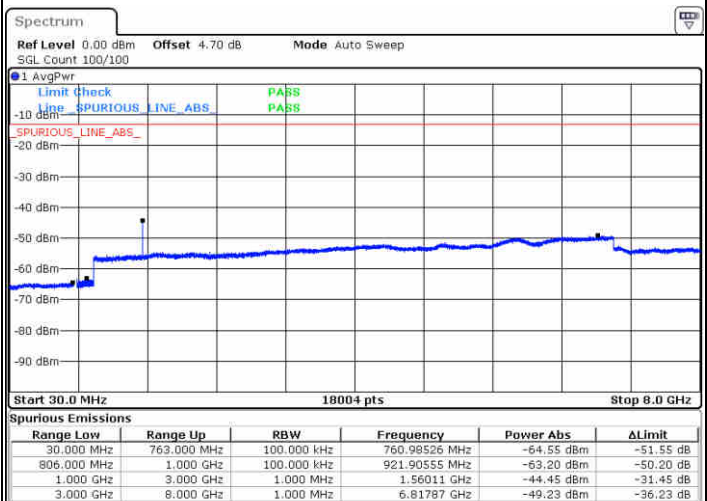
Date: 26 JUL 2020 04:31:00

### Middle Channel / QPSK



Date: 26 JUL 2020 04:34:52

### Middle Channel / 16QAM

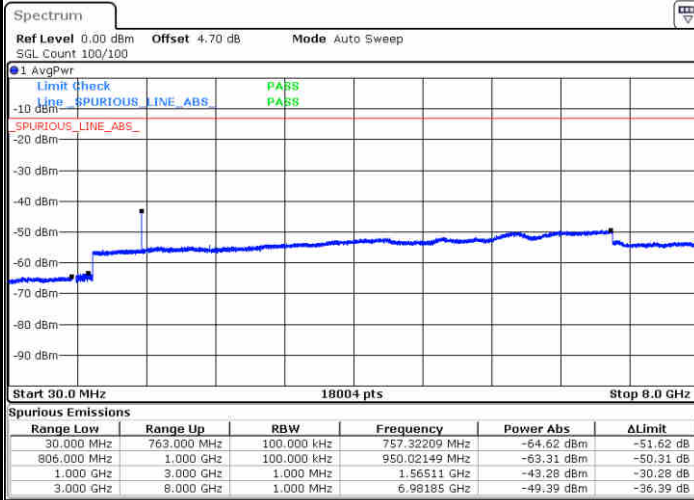


Date: 26 JUL 2020 04:36:04



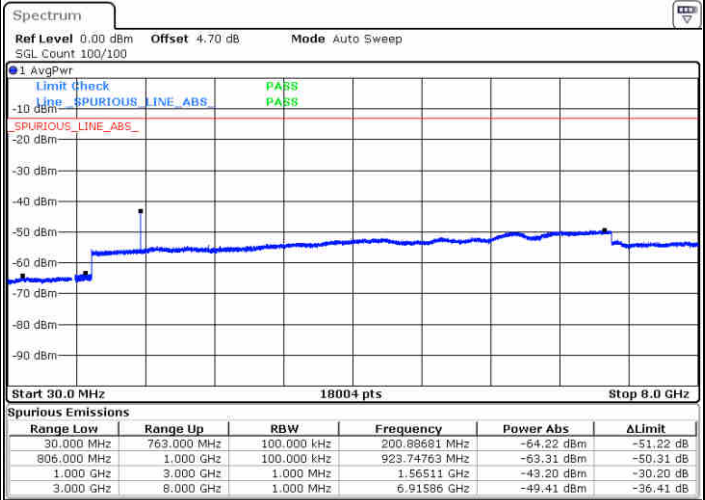
## LTE Band 13 / 5MHz

## Highest Channel / QPSK



Date: 26 JUL 2020 04:49:35

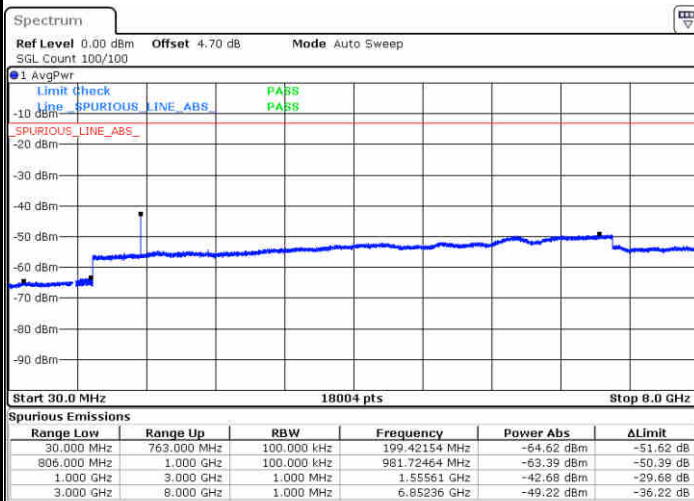
## Highest Channel / 16QAM



Date: 26 JUL 2020 04:48:03

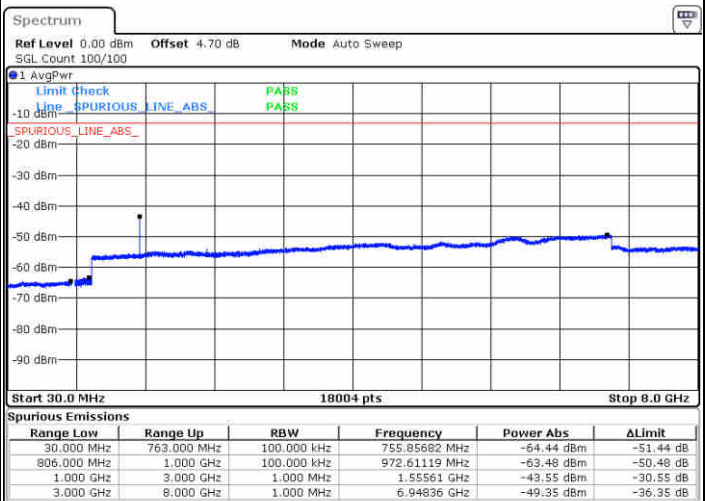
## LTE Band 13 / 10MHz

## Middle Channel / QPSK



Date: 26 JUL 2020 05:00:46

## Middle Channel / 16QAM

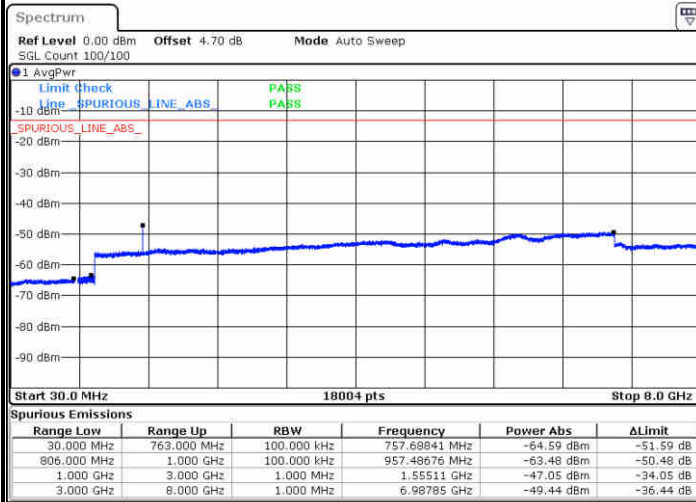


Date: 26 JUL 2020 05:02:10



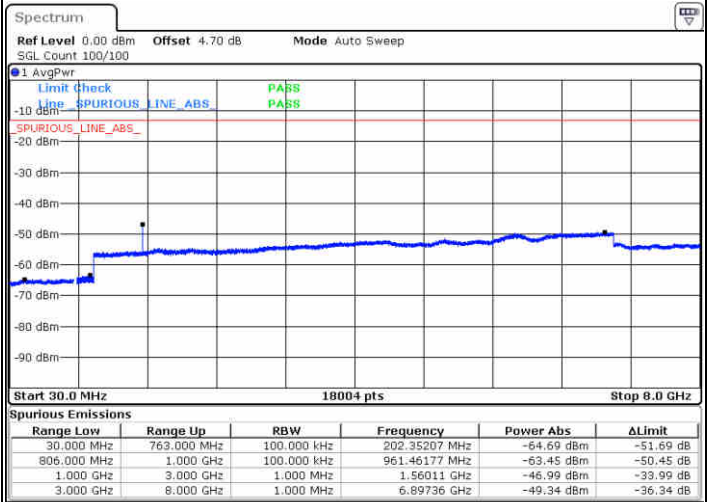
## LTE Band 13 / 5MHz

## Lowest Channel / 64QAM



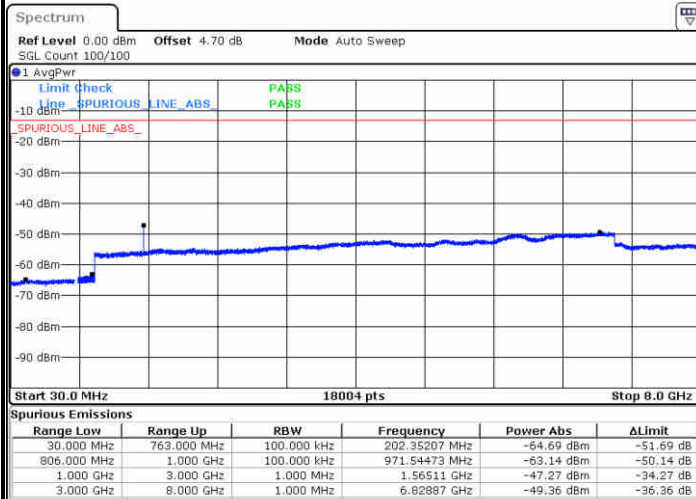
Date: 26 JUL 2020 04:28:45

## Middle Channel / 64QAM

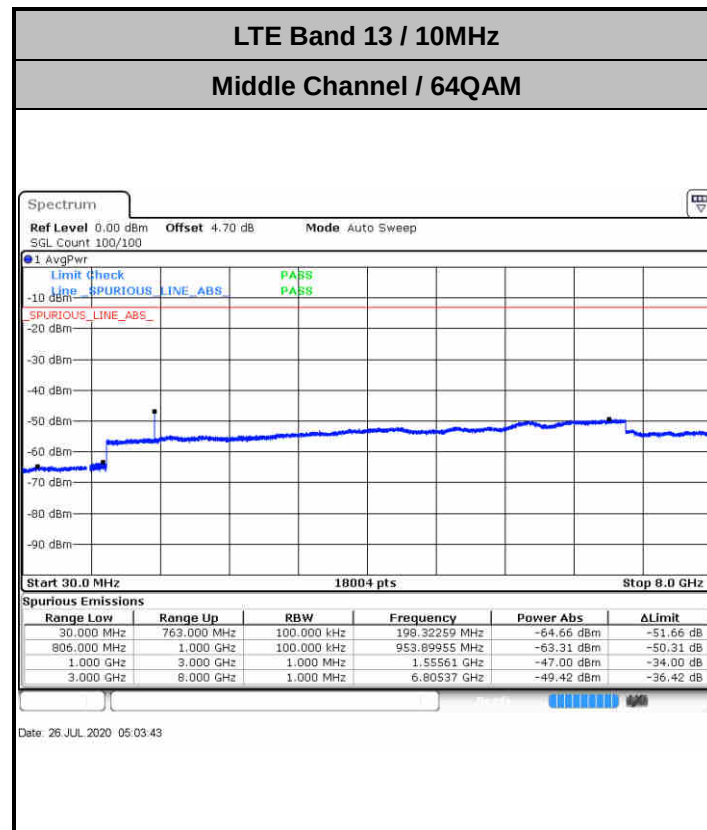


Date: 26 JUL 2020 04:37:15

## Highest Channel / 64QAM



Date: 26 JUL 2020 04:47:02



## Frequency Stability

| Test Conditions  |                   | LTE Band 13 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0014                              | PASS    |
| 40               | Normal Voltage    | 0.0004                              |         |
| 30               | Normal Voltage    | 0.0047                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0054                              |         |
| 0                | Normal Voltage    | 0.0063                              |         |
| -10              | Normal Voltage    | 0.0010                              |         |
| -20              | Normal Voltage    | 0.0058                              |         |
| -30              | Normal Voltage    | 0.0066                              |         |
| 20               | Maximum Voltage   | 0.0006                              |         |
| 20               | Normal Voltage    | 0.0009                              |         |
| 20               | Battery End Point | 0.0046                              |         |

**Note:**

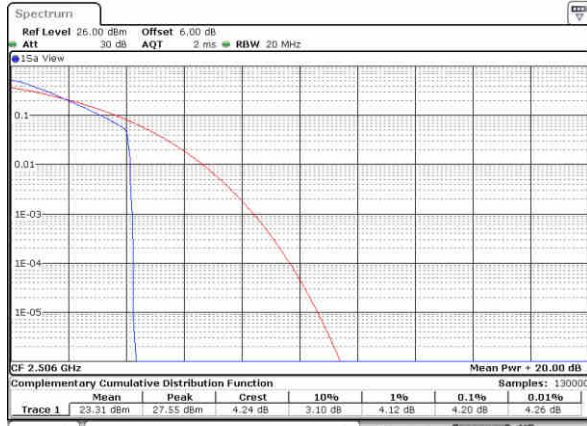
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



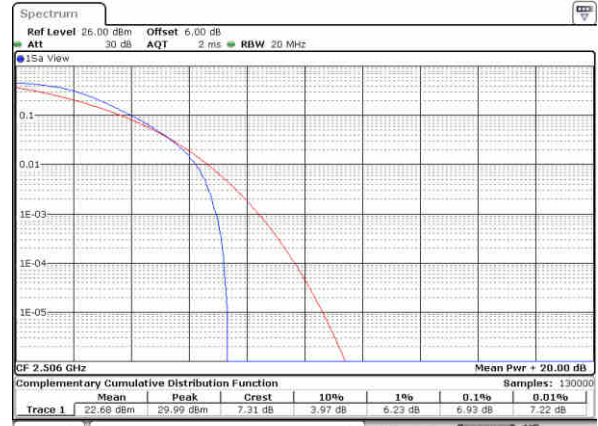
## LTE Band 41

## Peak-to-Average Ratio

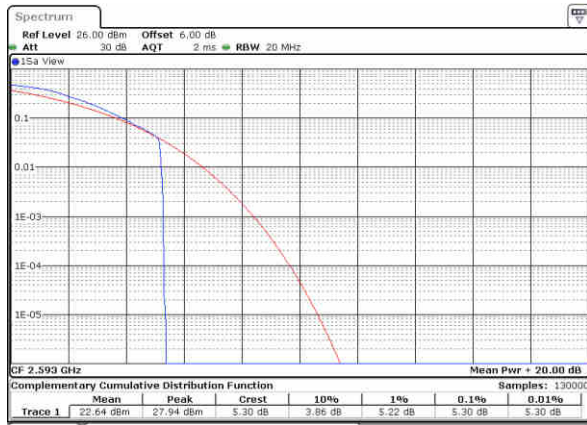
| Mode       | LTE Band 41 / 20MHz |         |       |         |             |
|------------|---------------------|---------|-------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 4.20                | 6.93    | 6.49  | 6.43    | PASS        |
| Middle CH  | 5.30                | 4.84    | 6.17  | 8.26    |             |
| Highest CH | 3.74                | 5.07    | 6.87  | 8.26    |             |
| Mode       | LTE Band 41 / 20MHz |         |       |         |             |
| Mod.       | 64QAM               |         |       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB |       |         | Result      |
| Lowest CH  | 7.71                | 7.59    | -     | -       | PASS        |
| Middle CH  | 6.23                | 7.39    | -     | -       |             |
| Highest CH | 8.03                | 6.06    | -     | -       |             |

**LTE Band 41 / 20MHz / QPSK**
**Lowest Channel / 1RB**


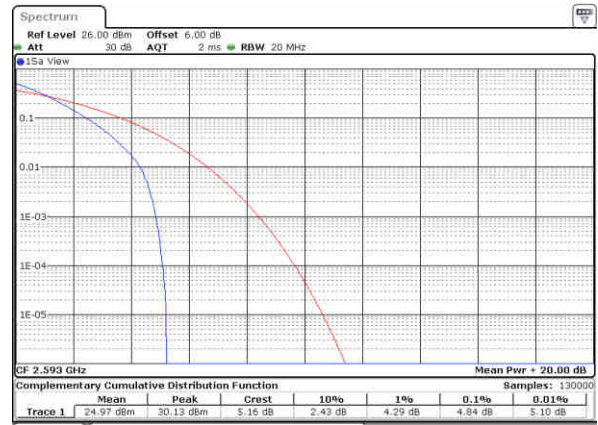
Date: 6 AUG 2020 02:45:46

**Lowest Channel / Full RB**


Date: 6 AUG 2020 02:45:56

**Middle Channel / 1RB**


Date: 6 AUG 2020 02:46:05

**Middle Channel / Full RB**


Date: 6 AUG 2020 02:46:15

**Highest Channel / 1RB**


Date: 6 AUG 2020 02:46:24

**Highest Channel / Full RB**

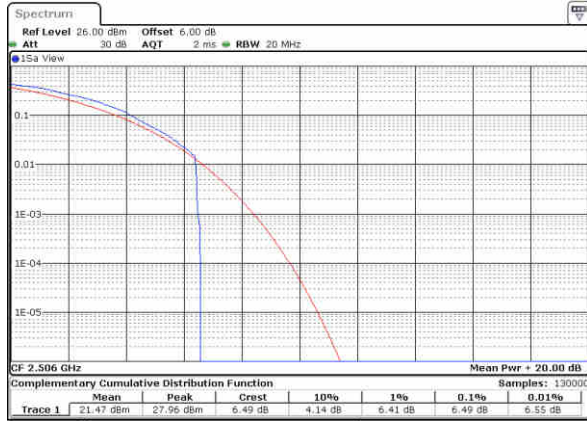

Date: 6 AUG 2020 02:46:39





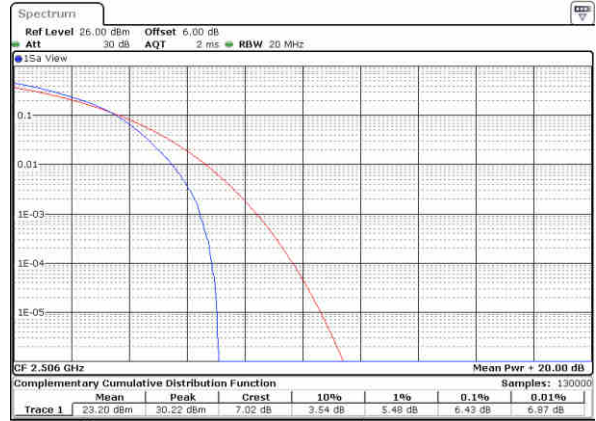
## LTE Band 41 / 20MHz / 16QAM

## Lowest Channel / 1RB



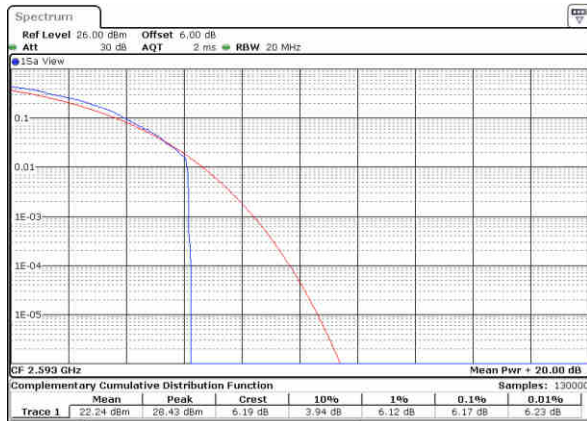
Date: 6 AUG 2020 02:44:19

## Lowest Channel / Full RB



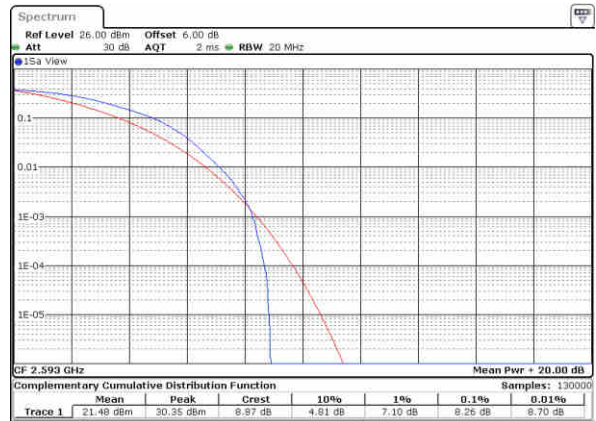
Date: 6 AUG 2020 02:44:29

## Middle Channel / 1RB



Date: 6 AUG 2020 02:44:45

## Middle Channel / Full RB



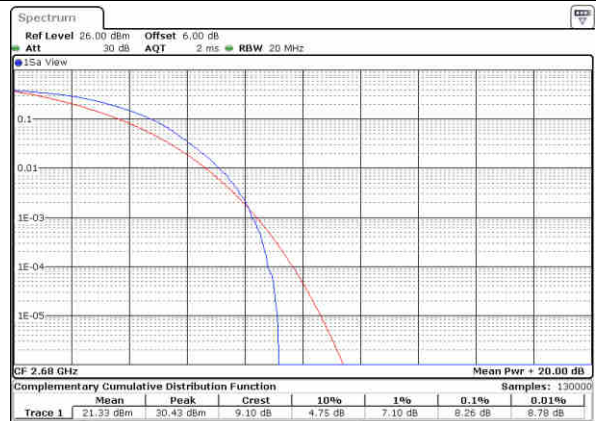
Date: 6 AUG 2020 02:45:07

## Highest Channel / 1RB



Date: 6 AUG 2020 02:45:17

## Highest Channel / Full RB



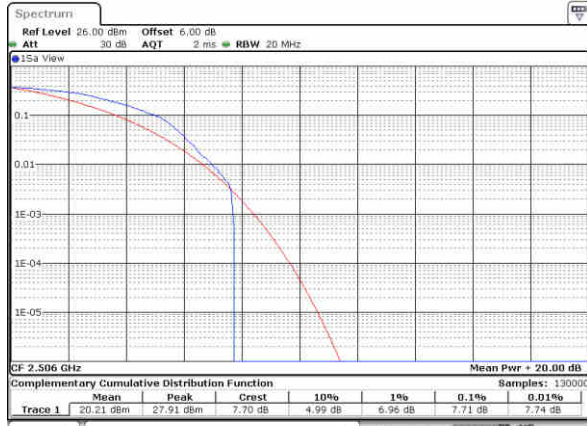
Date: 6 AUG 2020 02:45:27





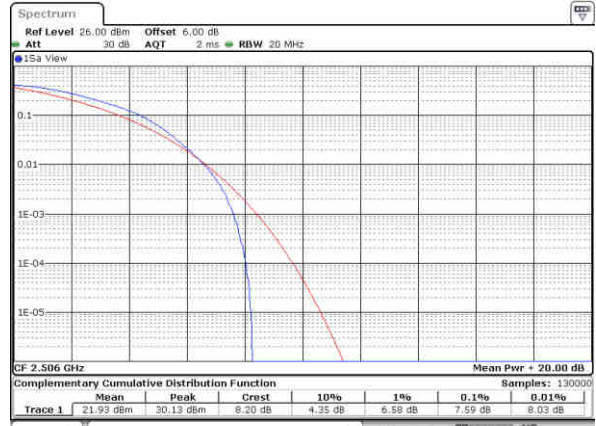
## LTE Band 41 / 20MHz / 64QAM

## Lowest Channel / 1RB



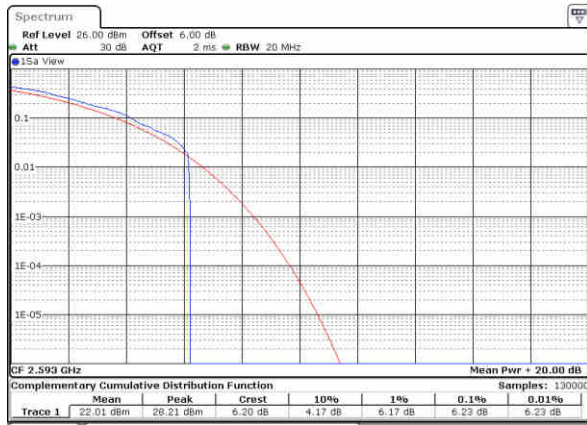
Date: 6 AUG 2020 02:46:59

## Lowest Channel / Full RB



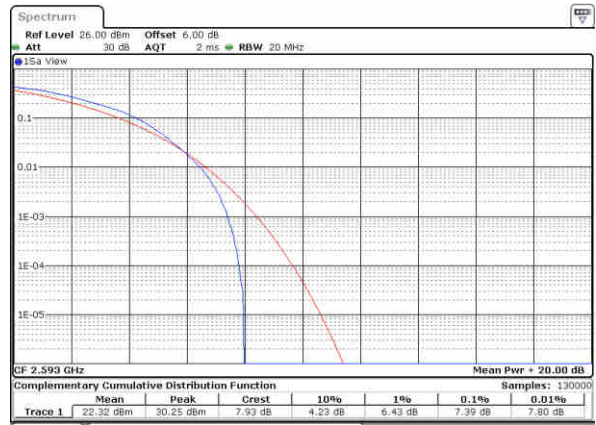
Date: 6 AUG 2020 02:46:49

## Middle Channel / 1RB



Date: 6 AUG 2020 02:47:08

## Middle Channel / Full RB



Date: 6 AUG 2020 02:47:33

## Highest Channel / 1RB



Date: 6 AUG 2020 02:47:52

## Highest Channel / Full RB



Date: 6 AUG 2020 02:47:42

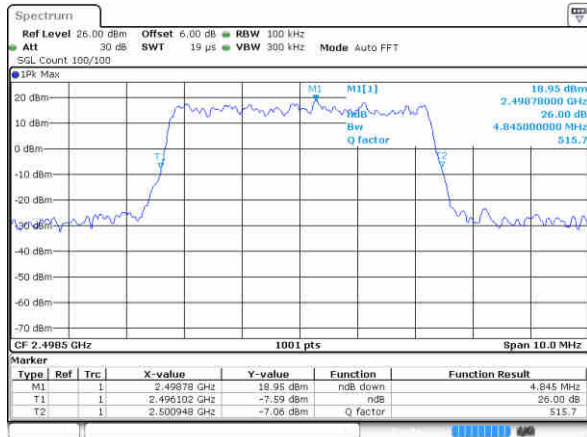
**26dB Bandwidth**

| Mode       | LTE Band 41 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                       | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                          | -     | -     | -     | 4.85  | 4.88  | 9.73  | 9.73  | 14.42 | 14.12 | 20.10 | 20.14 |
| Middle CH  | -                          | -     | -     | -     | 4.92  | 4.78  | 9.65  | 9.69  | 14.30 | 14.15 | 20.22 | 20.06 |
| Highest CH | -                          | -     | -     | -     | 4.74  | 4.86  | 9.63  | 9.73  | 14.30 | 14.15 | 20.10 | 20.06 |
| Mode       | LTE Band 41 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                      |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                          | -     | -     | -     | 4.81  | -     | 9.65  | -     | 14.12 | -     | 20.02 | -     |
| Middle CH  | -                          | -     | -     | -     | 4.73  | -     | 9.71  | -     | 14.33 | -     | 20.10 | -     |
| Highest CH | -                          | -     | -     | -     | 4.86  | -     | 9.87  | -     | 14.54 | -     | 20.14 | -     |



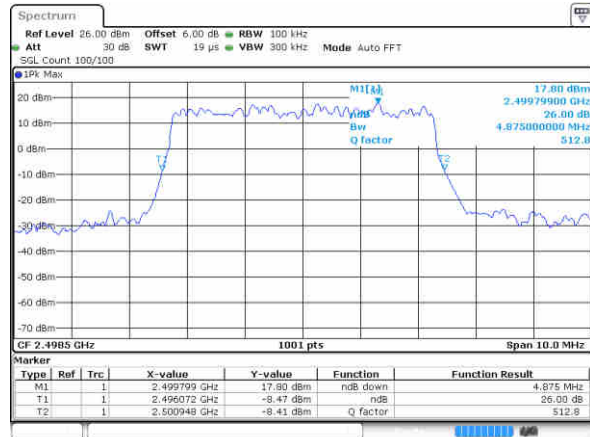
## LTE Band 41

## Lowest Channel / 5MHz / QPSK



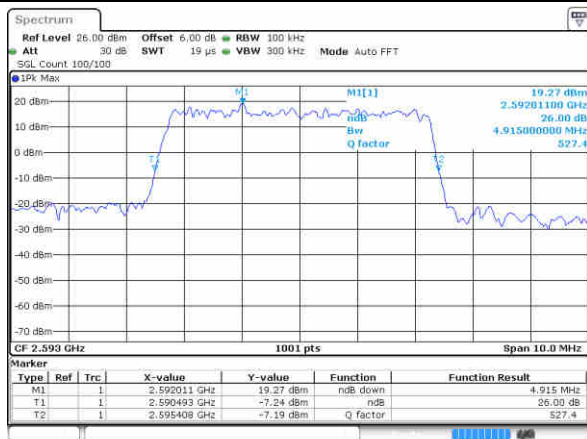
Date: 6 AUG 2020 02:36:31

## Lowest Channel / 5MHz / 16QAM



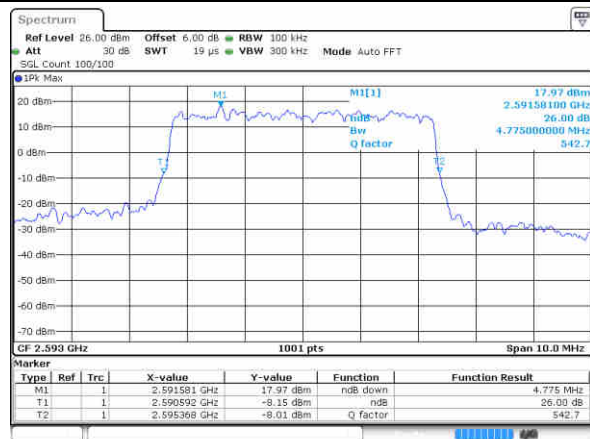
Date: 6 AUG 2020 02:36:41

## Middle Channel / 5MHz / QPSK



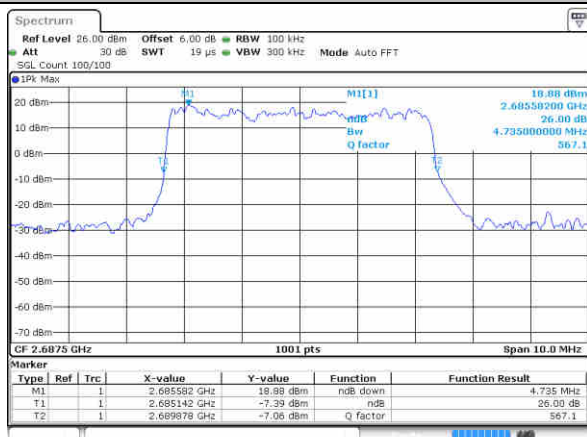
Date: 6 AUG 2020 02:37:11

## Middle Channel / 5MHz / 16QAM



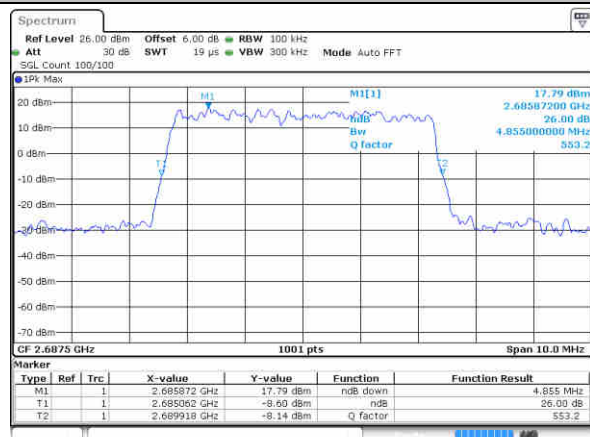
Date: 6 AUG 2020 02:37:20

## Highest Channel / 5MHz / QPSK



Date: 6 AUG 2020 02:37:50

## Highest Channel / 5MHz / 16QAM

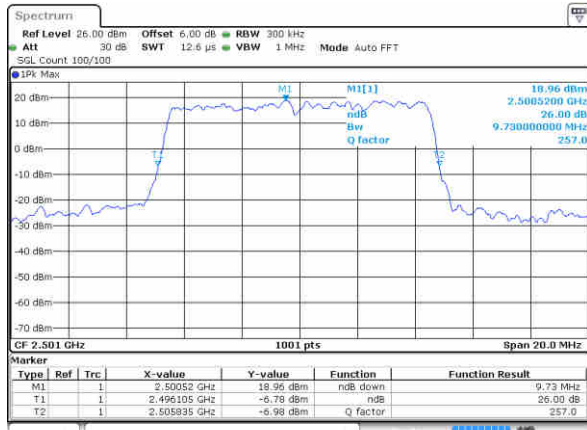


Date: 6 AUG 2020 02:38:00



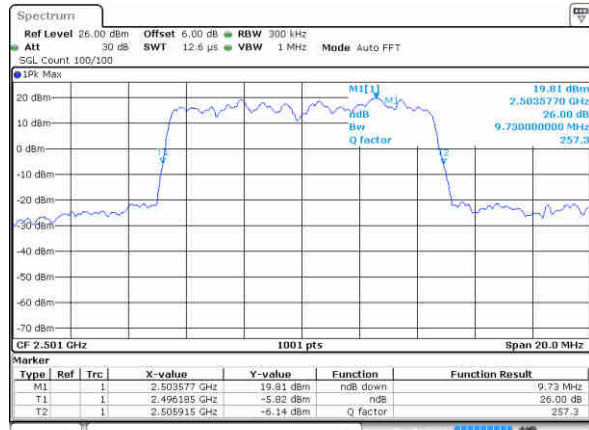
## LTE Band 41

## Lowest Channel / 10MHz / QPSK



Date: 6 AUG 2020 02:38:30

## Lowest Channel / 10MHz / 16QAM



Date: 6 AUG 2020 02:38:40

## Middle Channel / 10MHz / QPSK



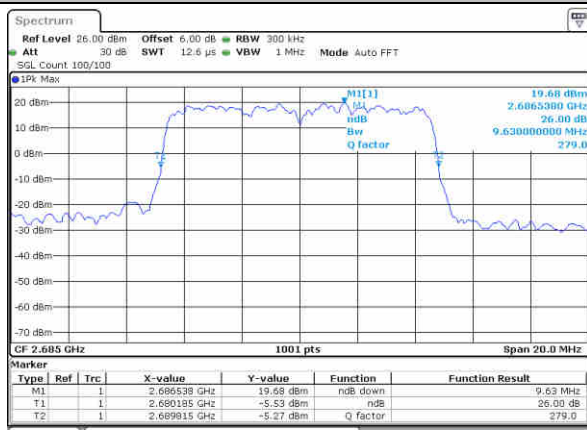
Date: 6 AUG 2020 02:39:09

## Middle Channel / 10MHz / 16QAM



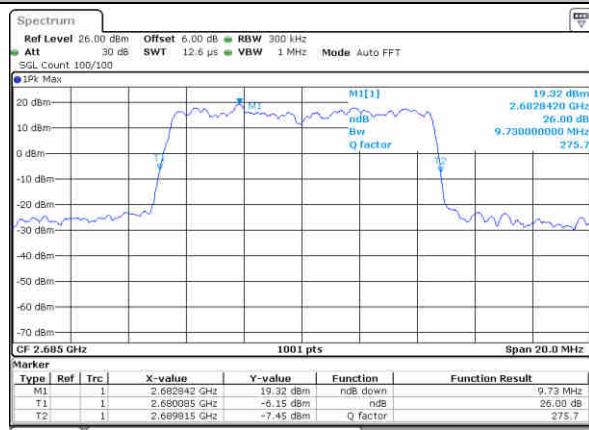
Date: 6 AUG 2020 02:39:19

## Highest Channel / 10MHz / QPSK



Date: 6 AUG 2020 02:39:49

## Highest Channel / 10MHz / 16QAM

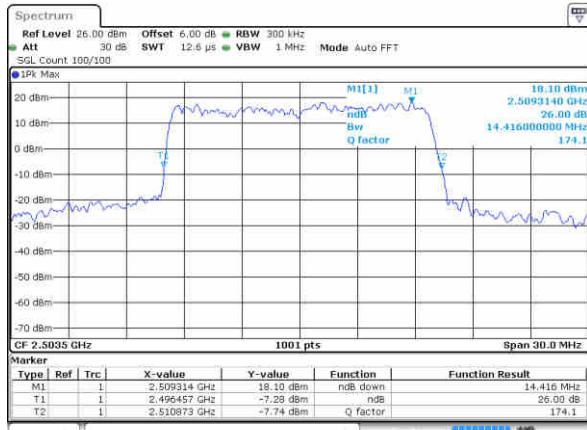


Date: 6 AUG 2020 02:39:59



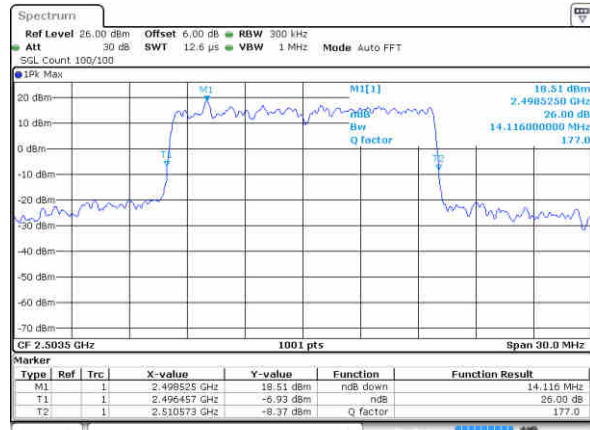
## LTE Band 41

## Lowest Channel / 15MHz / QPSK



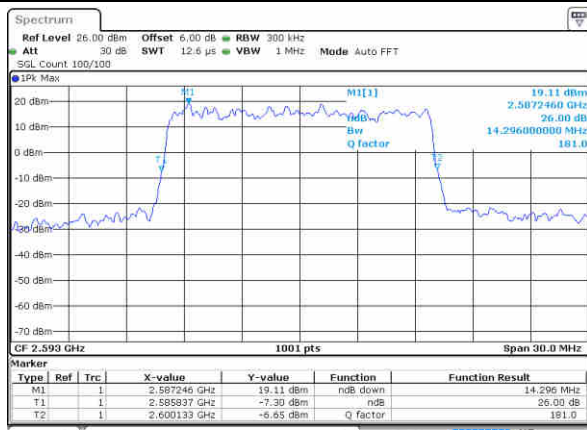
Date: 6 AUG 2020 02:40:28

## Lowest Channel / 15MHz / 16QAM



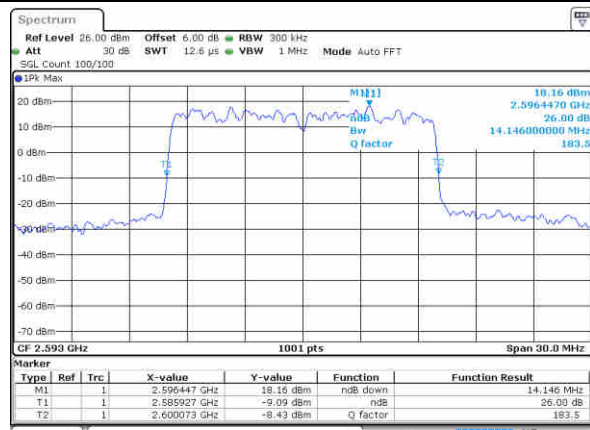
Date: 6 AUG 2020 02:40:38

## Middle Channel / 15MHz / QPSK



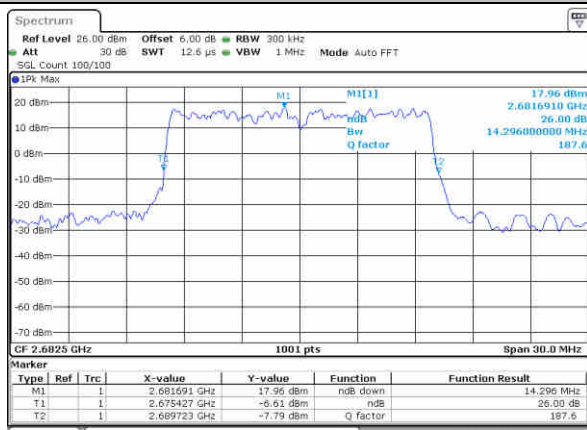
Date: 6 AUG 2020 02:41:08

## Middle Channel / 15MHz / 16QAM



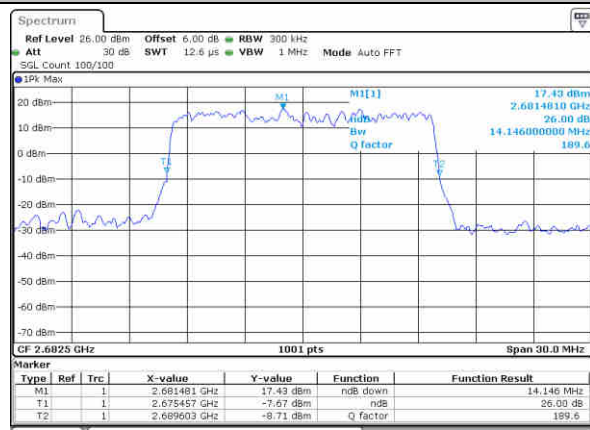
Date: 6 AUG 2020 02:41:18

## Highest Channel / 15MHz / QPSK



Date: 6 AUG 2020 02:41:47

## Highest Channel / 15MHz / 16QAM



Date: 6 AUG 2020 02:41:57



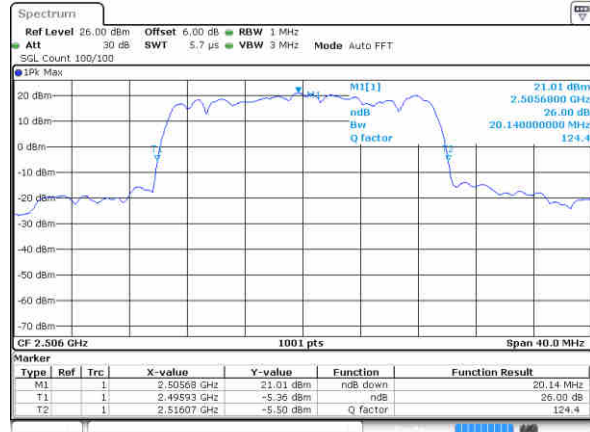


## LTE Band 41

## Lowest Channel / 20MHz / QPSK



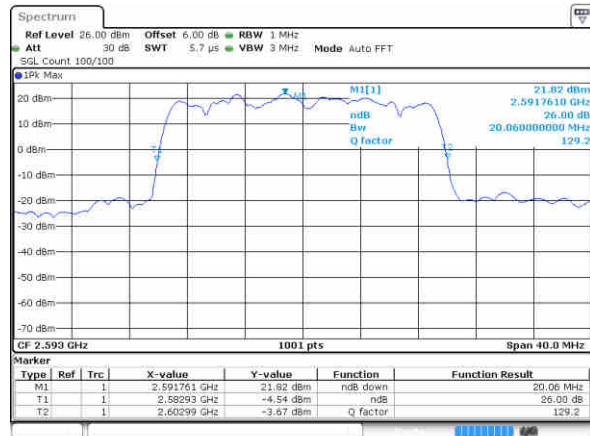
## Lowest Channel / 20MHz / 16QAM



## Middle Channel / 20MHz / QPSK



## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



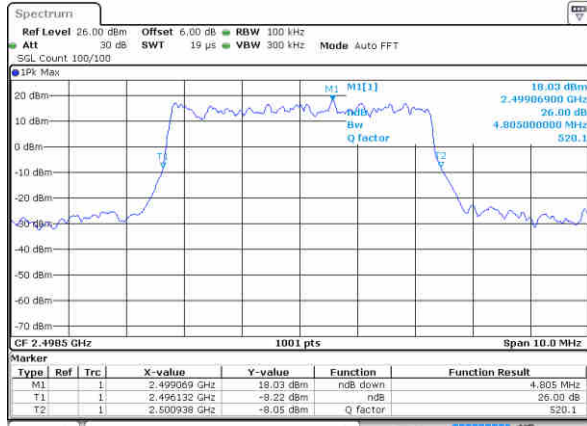
## Highest Channel / 20MHz / 16QAM



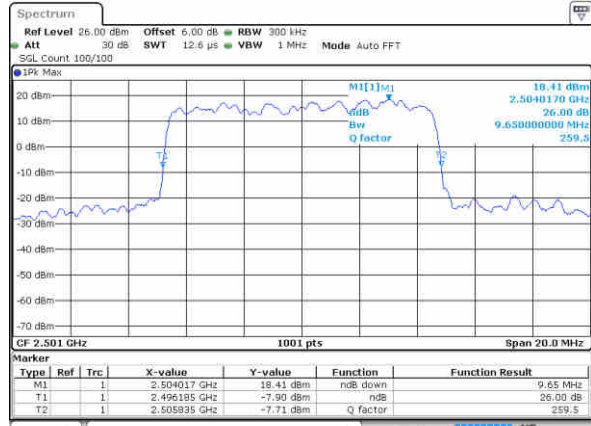


## LTE Band 41

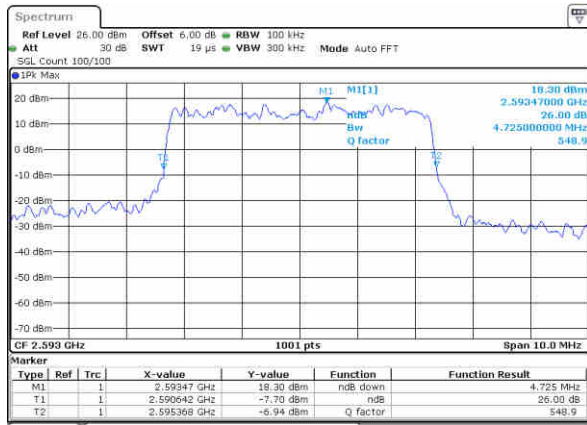
## Lowest Channel / 5MHz / 64QAM



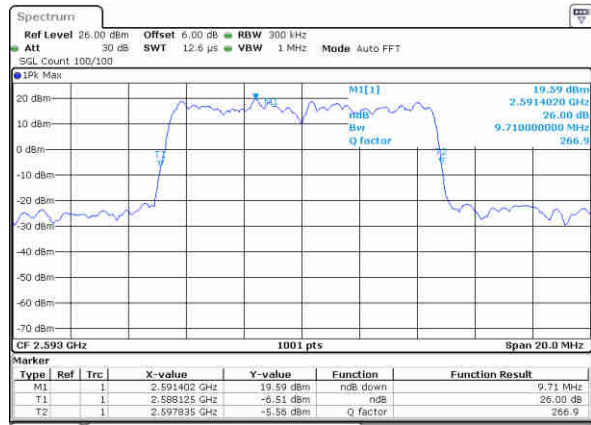
## Lowest Channel / 10MHz / 64QAM



## Middle Channel / 5MHz / 64QAM



## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



## Highest Channel / 10MHz / 64QAM





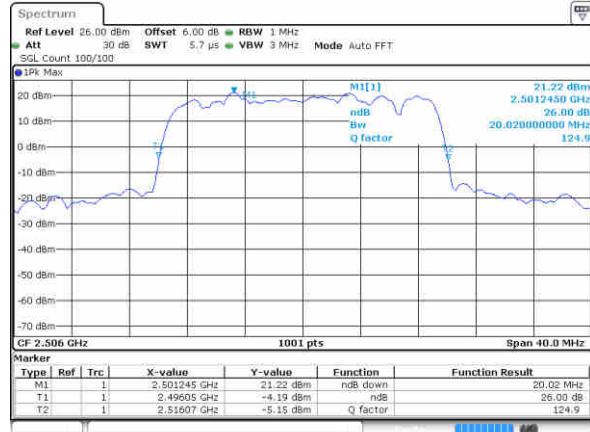


## LTE Band 41

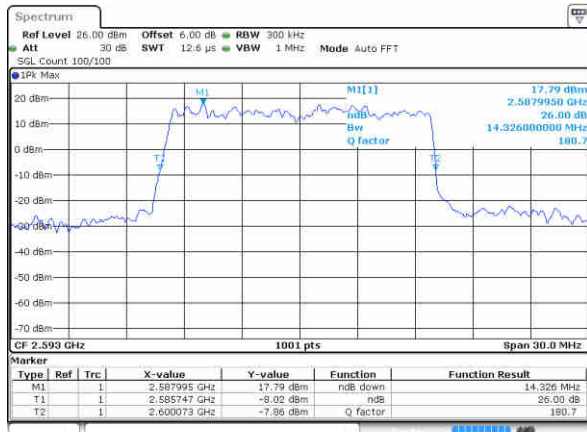
## Lowest Channel / 15MHz / 64QAM



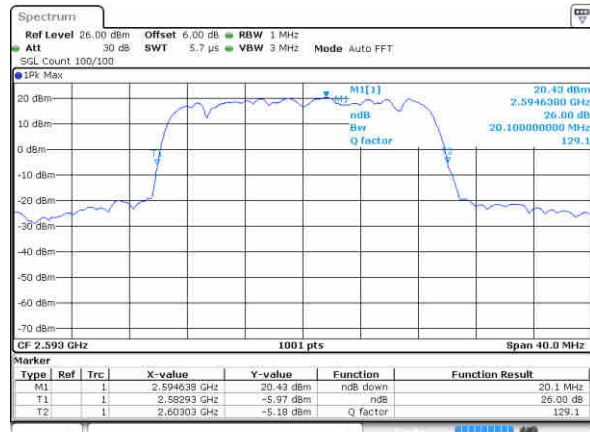
## Lowest Channel / 20MHz / 64QAM



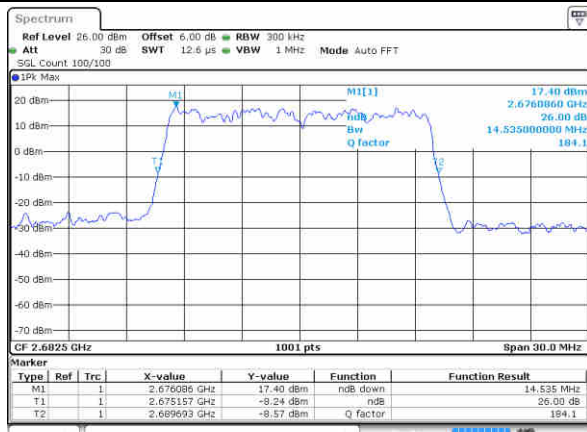
## Middle Channel / 15MHz / 64QAM



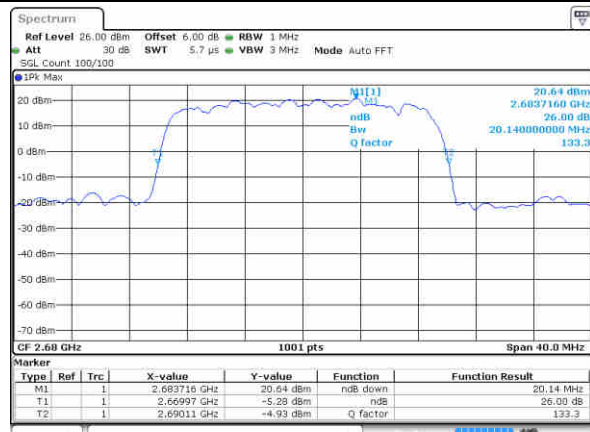
## Middle Channel / 20MHz / 64QAM



## Highest Channel / 15MHz / 64QAM



## Highest Channel / 20MHz / 64QAM



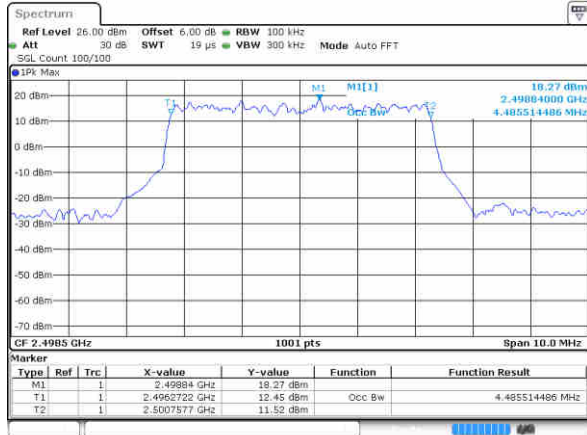
**Occupied Bandwidth**

| Mode       | LTE Band 41 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -     | -     | 4.49  | 4.49  | 9.05  | 9.03  | 13.43 | 13.43 | 18.30 | 18.34 |
| Middle CH  | -                         | -     | -     | -     | 4.49  | 4.49  | 8.99  | 9.05  | 13.43 | 13.43 | 18.30 | 18.46 |
| Highest CH | -                         | -     | -     | -     | 4.49  | 4.49  | 9.07  | 9.01  | 13.46 | 13.40 | 18.38 | 18.50 |
| Mode       | LTE Band 41 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.50  | -     | 9.01  | -     | 13.37 | -     | 18.26 | -     |
| Middle CH  | -                         | -     | -     | -     | 4.50  | -     | 8.99  | -     | 13.40 | -     | 18.22 | -     |
| Highest CH | -                         | -     | -     | -     | 4.50  | -     | 9.05  | -     | 13.46 | -     | 18.34 | -     |

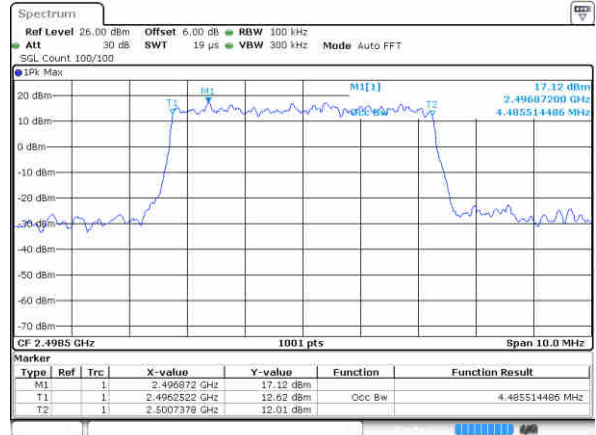


## LTE Band 41

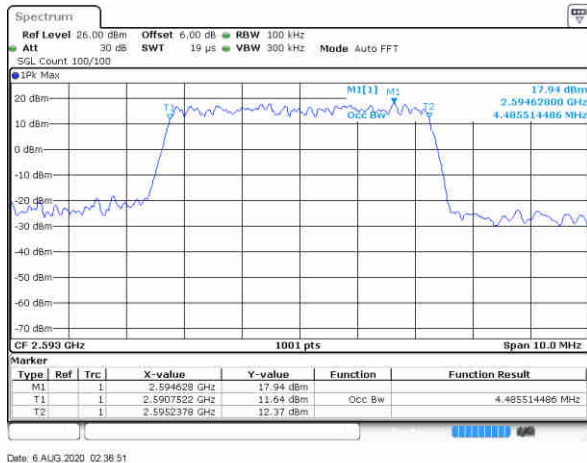
## Lowest Channel / 5MHz / QPSK



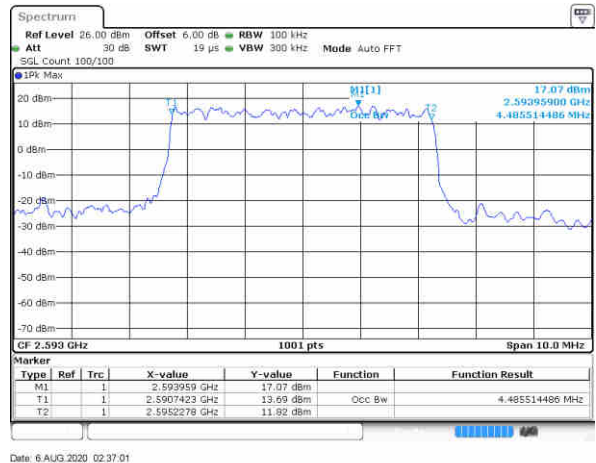
## Lowest Channel / 5MHz / 16QAM



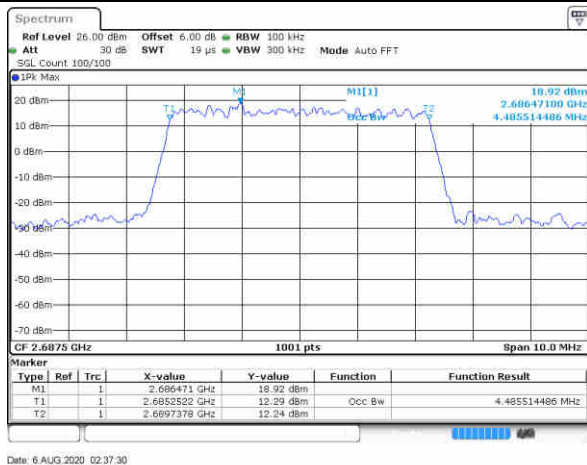
## Middle Channel / 5MHz / QPSK



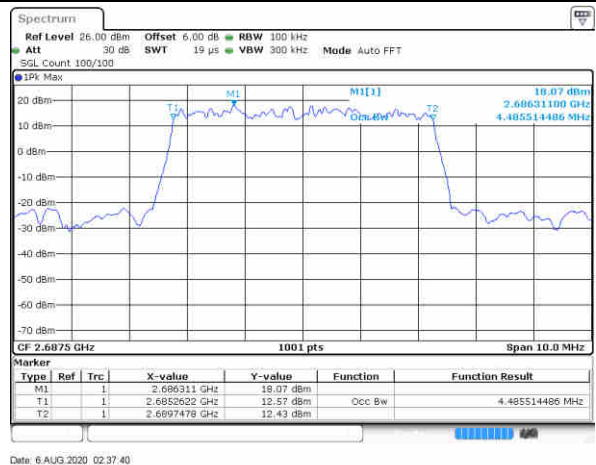
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



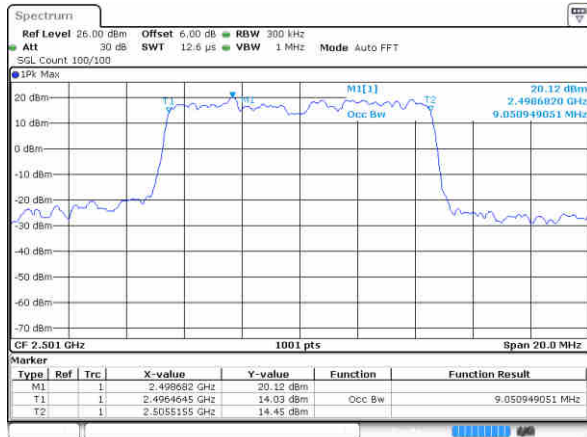
## Highest Channel / 5MHz / 16QAM



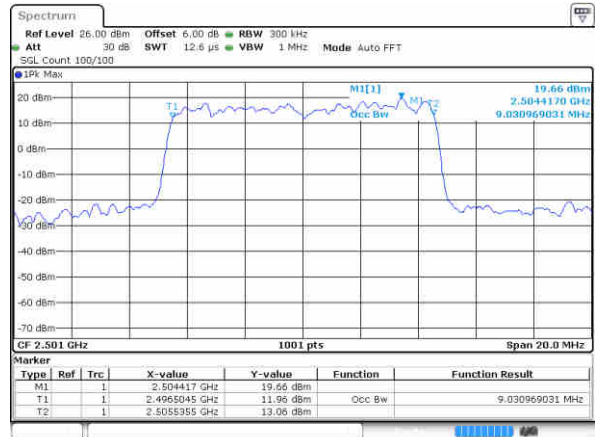


## LTE Band 41

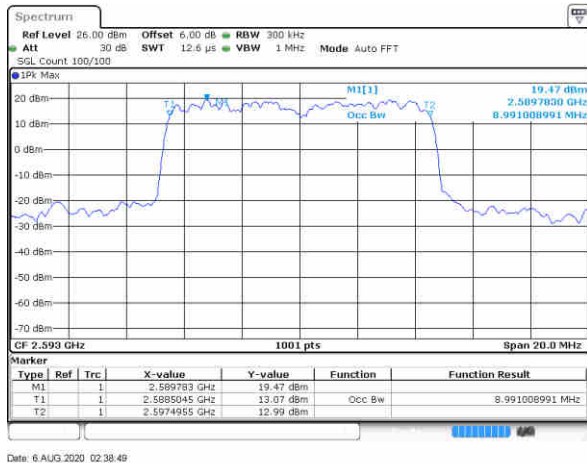
## Lowest Channel / 10MHz / QPSK



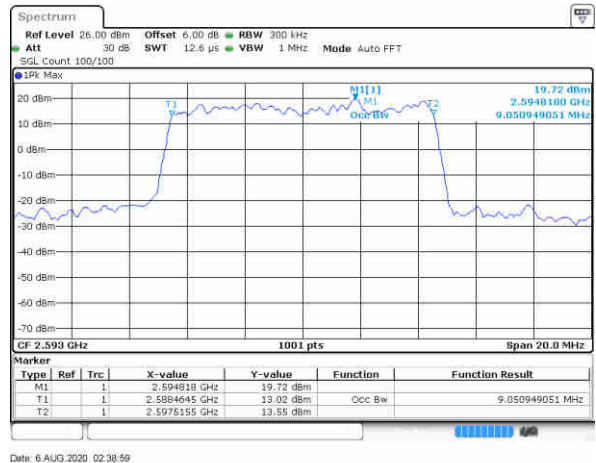
## Lowest Channel / 10MHz / 16QAM



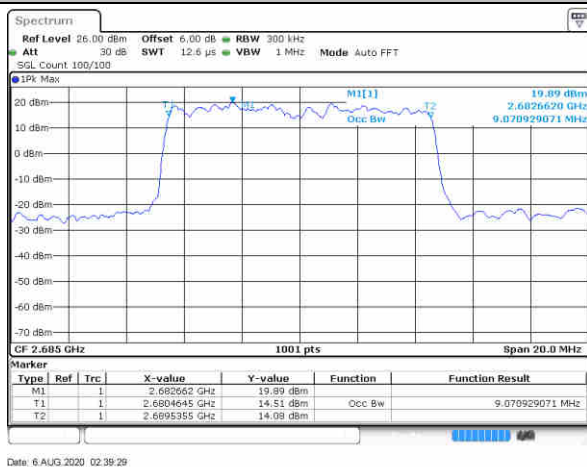
## Middle Channel / 10MHz / QPSK



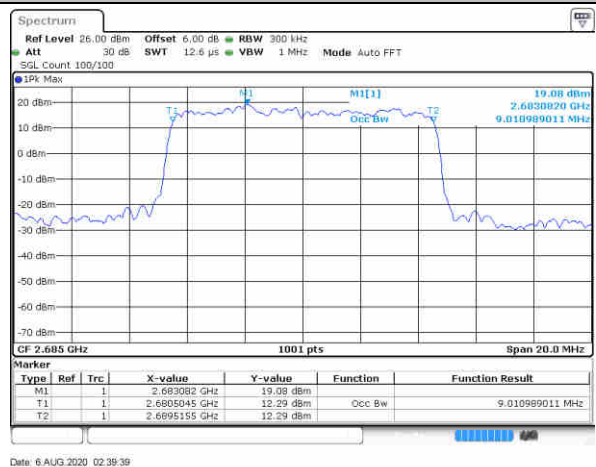
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



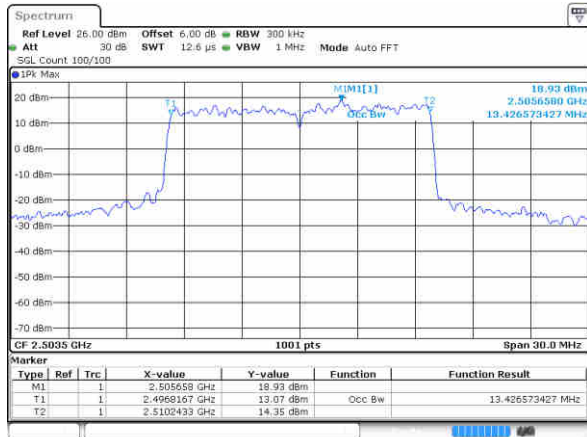
## Highest Channel / 10MHz / 16QAM



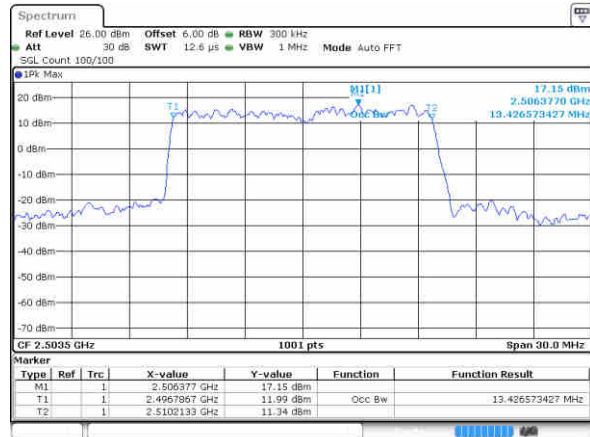


## LTE Band 41

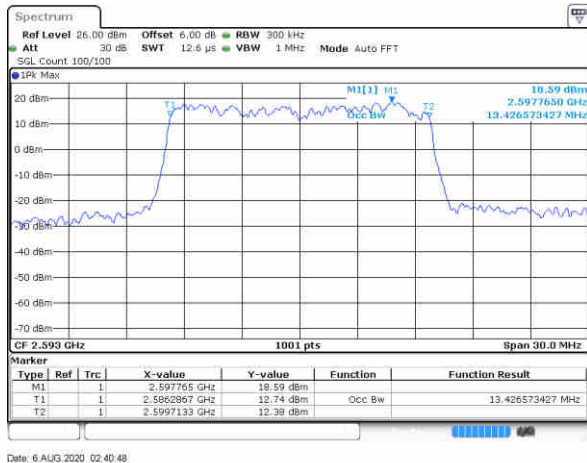
## Lowest Channel / 15MHz / QPSK



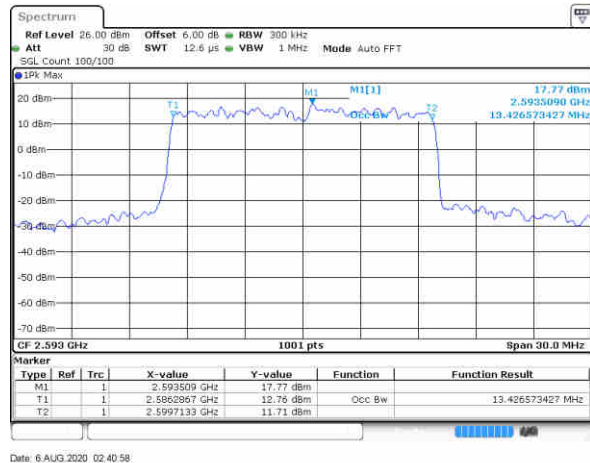
## Lowest Channel / 15MHz / 16QAM



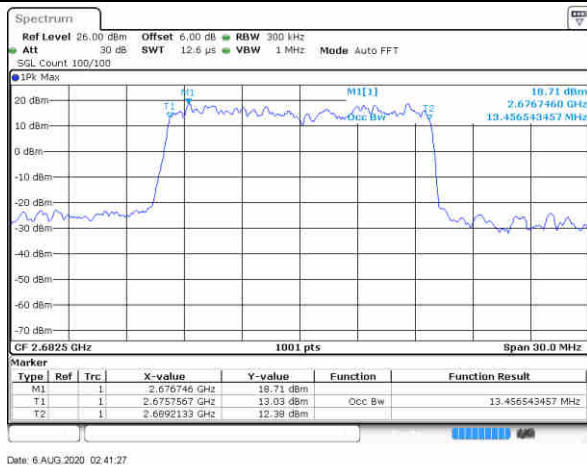
## Middle Channel / 15MHz / QPSK



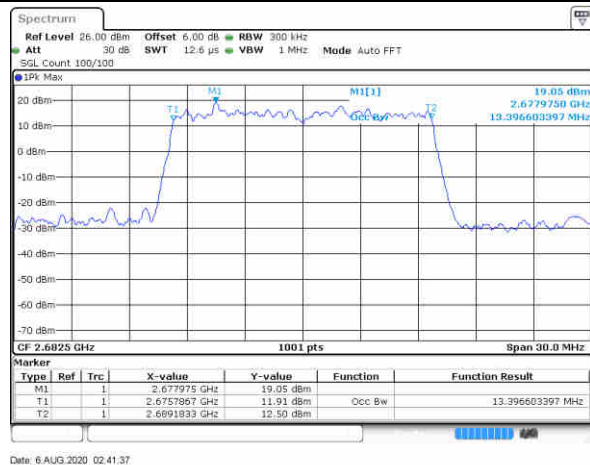
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



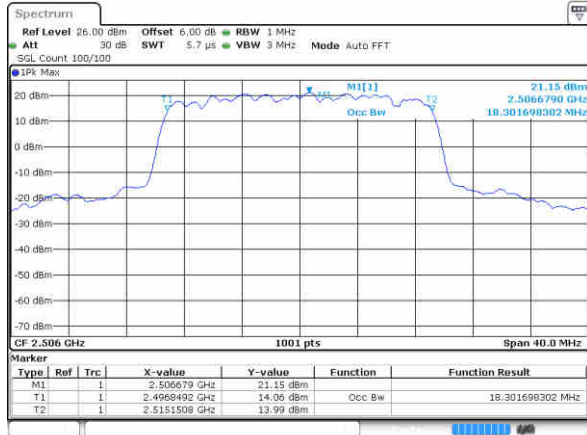
## Highest Channel / 15MHz / 16QAM



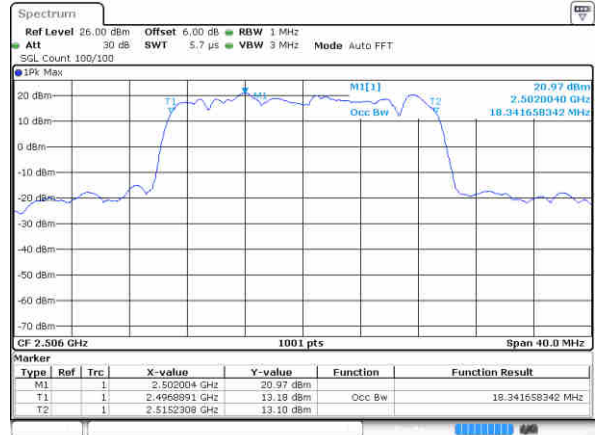


## LTE Band 41

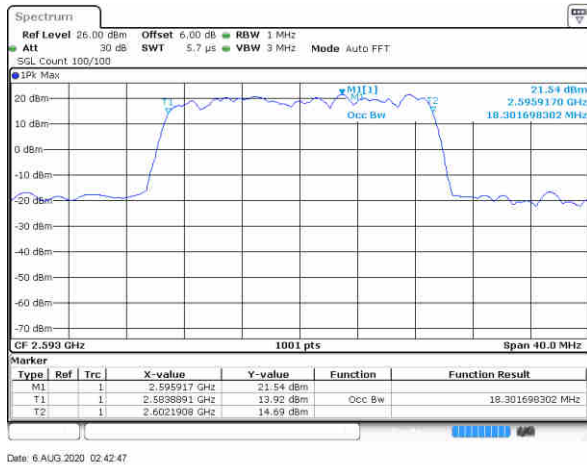
## Lowest Channel / 20MHz / QPSK



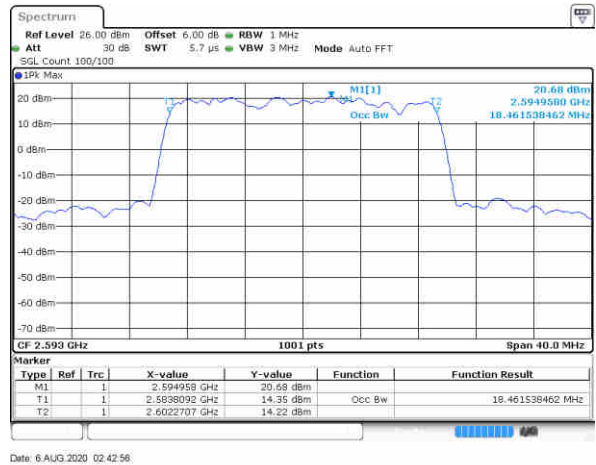
## Lowest Channel / 20MHz / 16QAM



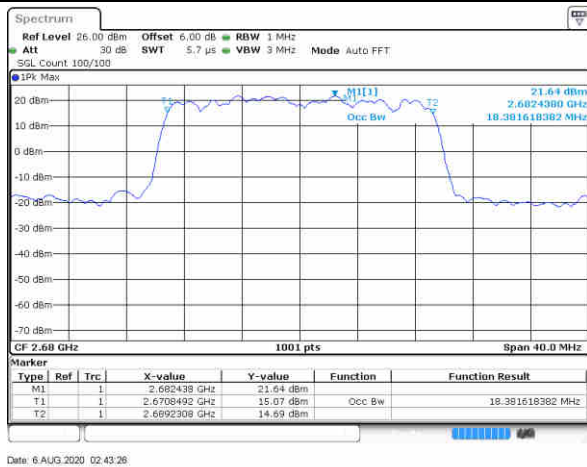
## Middle Channel / 20MHz / QPSK



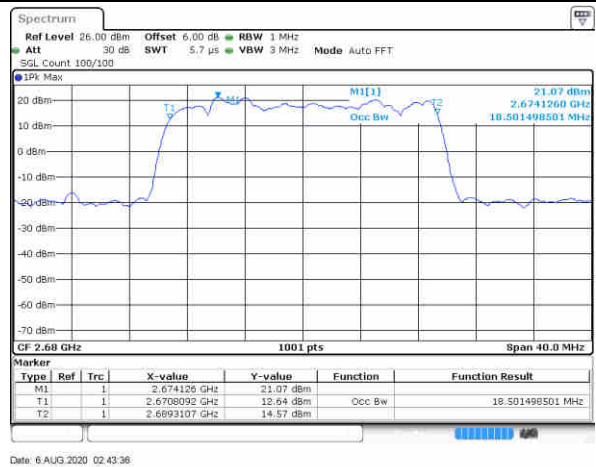
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM

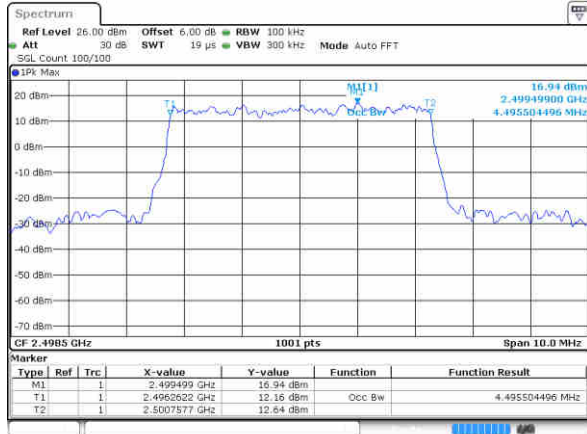






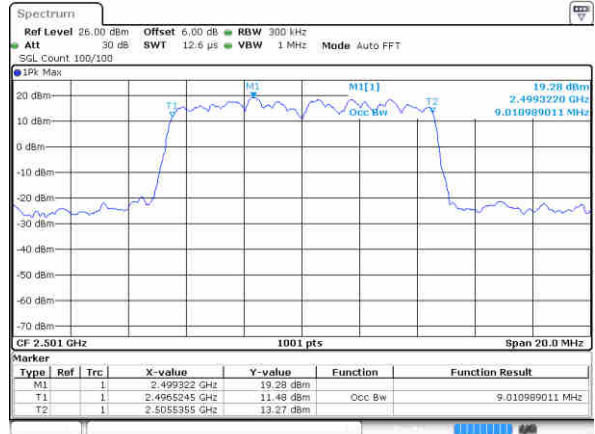
## LTE Band 41

## Lowest Channel / 5MHz / 64QAM



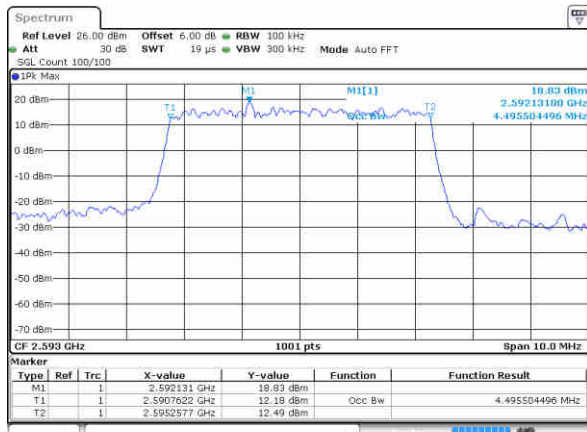
Date: 6 AUG 2020 02:48:02

## Lowest Channel / 10MHz / 64QAM



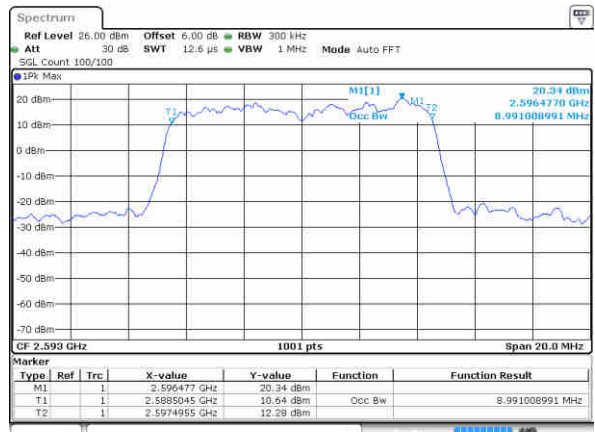
Date: 6 AUG 2020 02:49:01

## Middle Channel / 5MHz / 64QAM



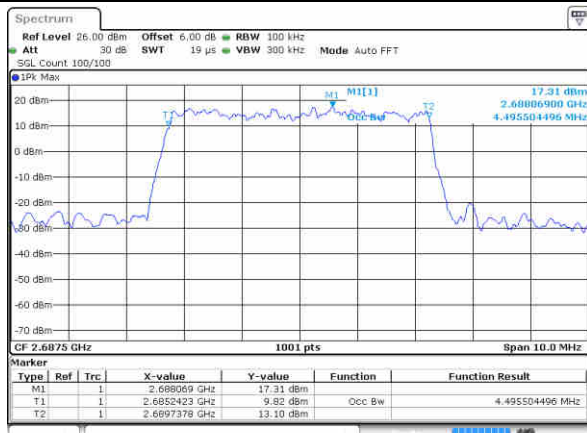
Date: 6 AUG 2020 02:48:22

## Middle Channel / 10MHz / 64QAM



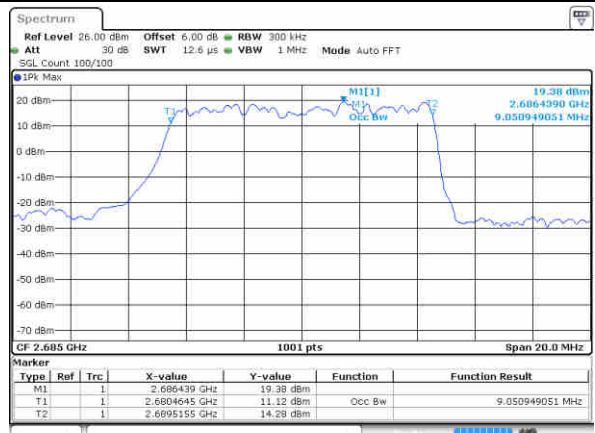
Date: 6 AUG 2020 02:49:21

## Highest Channel / 5MHz / 64QAM



Date: 6 AUG 2020 02:48:42

## Highest Channel / 10MHz / 64QAM

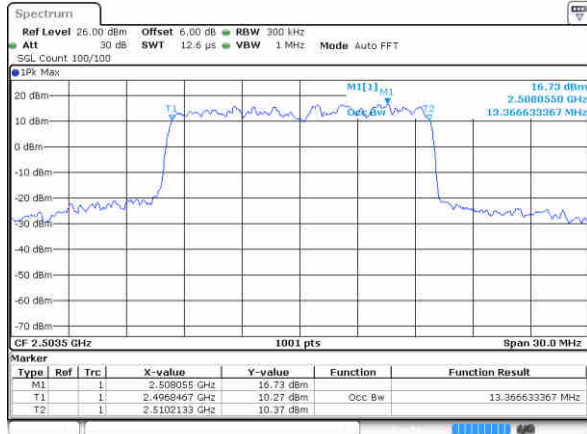


Date: 6 AUG 2020 02:49:41



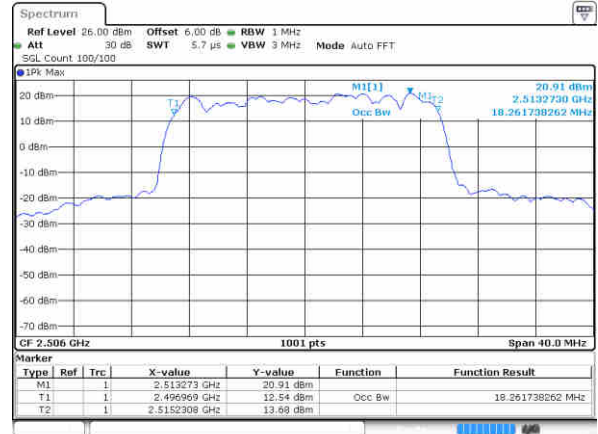
## LTE Band 41

## Lowest Channel / 15MHz / 64QAM



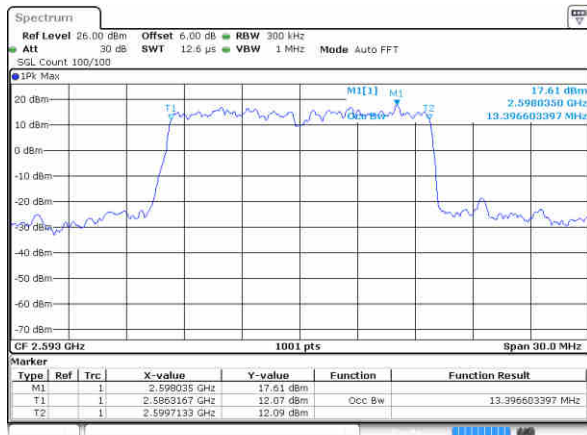
Date: 6 AUG 2020 02:50:01

## Lowest Channel / 20MHz / 64QAM



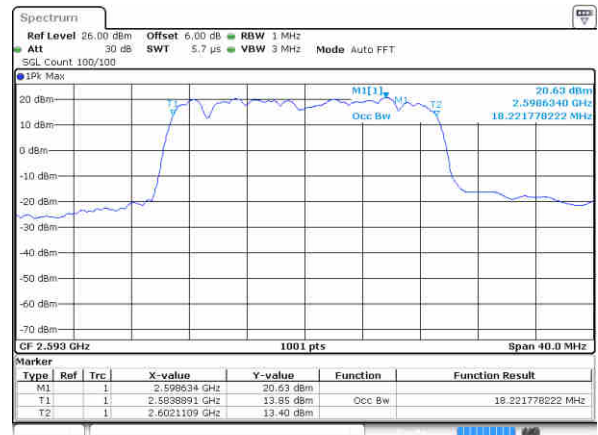
Date: 6 AUG 2020 02:51:00

## Middle Channel / 15MHz / 64QAM



Date: 6 AUG 2020 02:50:20

## Middle Channel / 20MHz / 64QAM



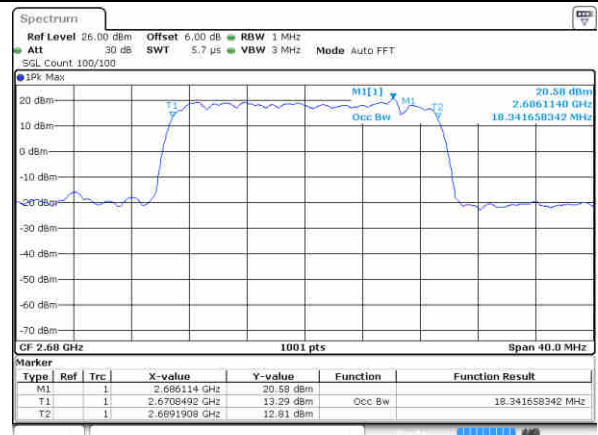
Date: 6 AUG 2020 02:51:20

## Highest Channel / 15MHz / 64QAM

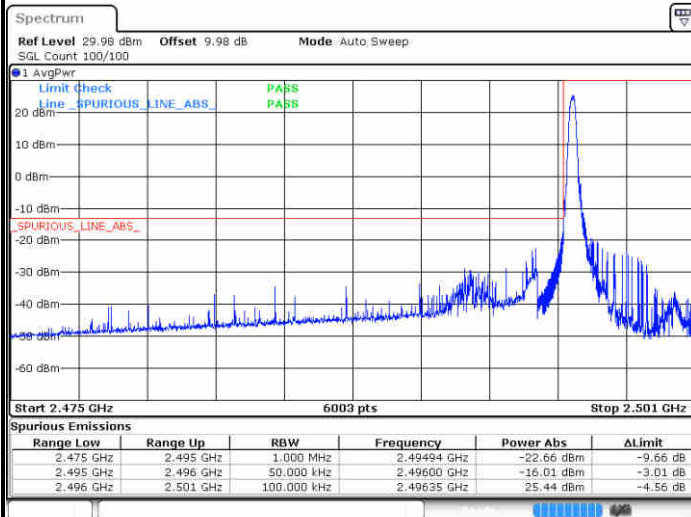
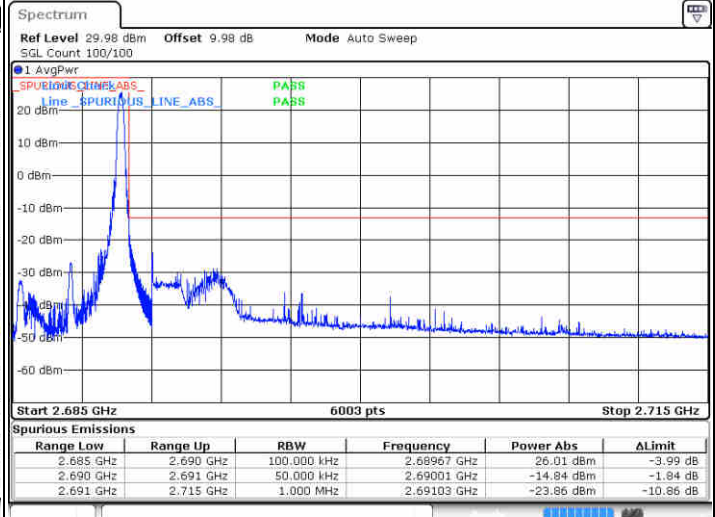
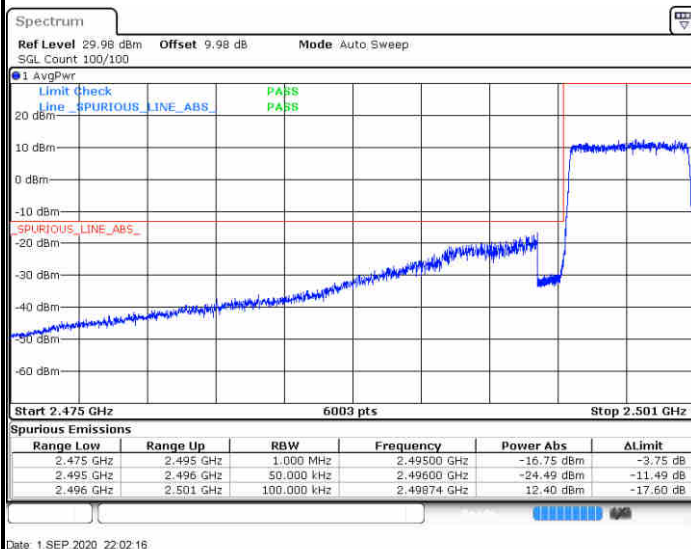
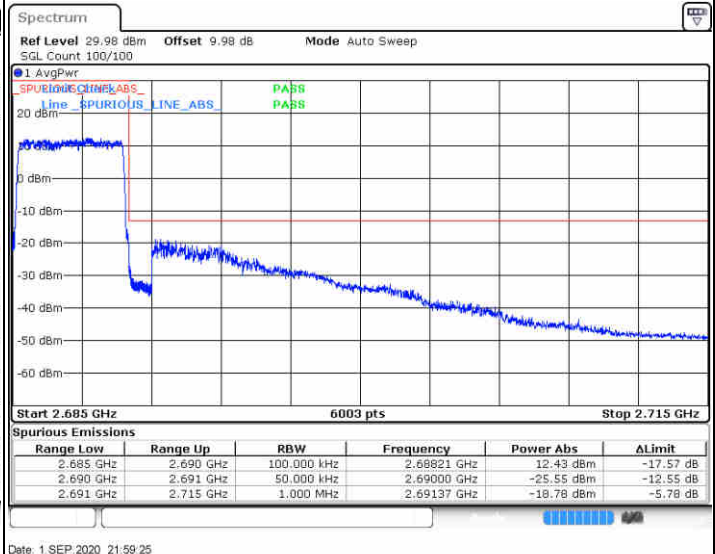


Date: 6 AUG 2020 02:50:40

## Highest Channel / 20MHz / 64QAM



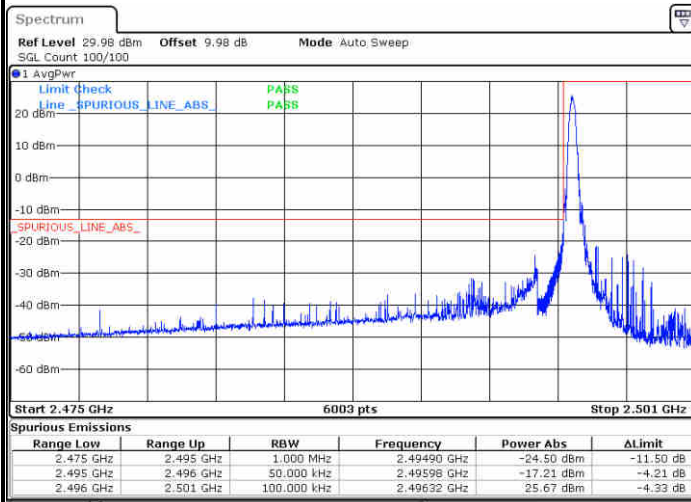
Date: 6 AUG 2020 02:51:39

**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

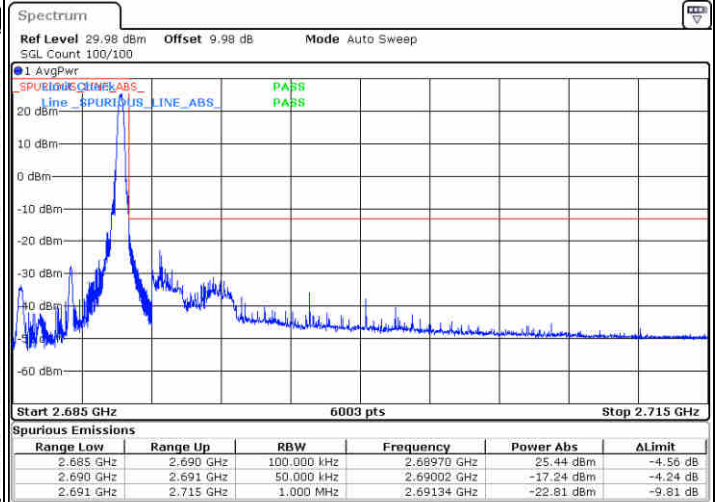


## LTE Band 41 / 5MHz / 16QAM

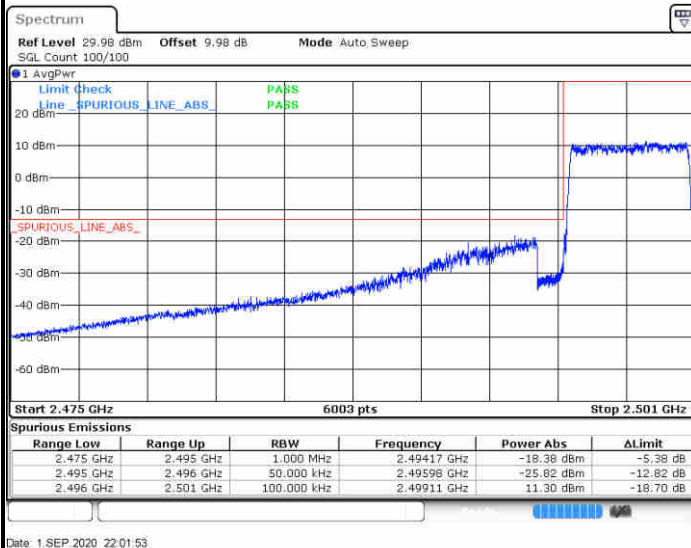
## Lowest Band Edge / 1RB



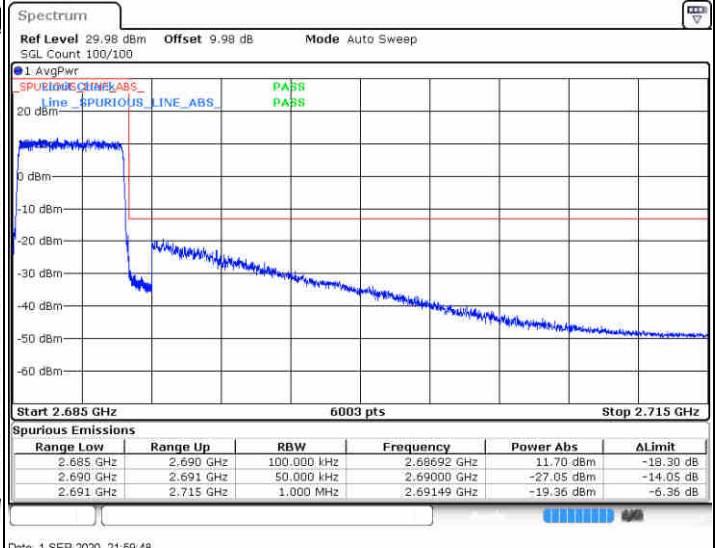
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

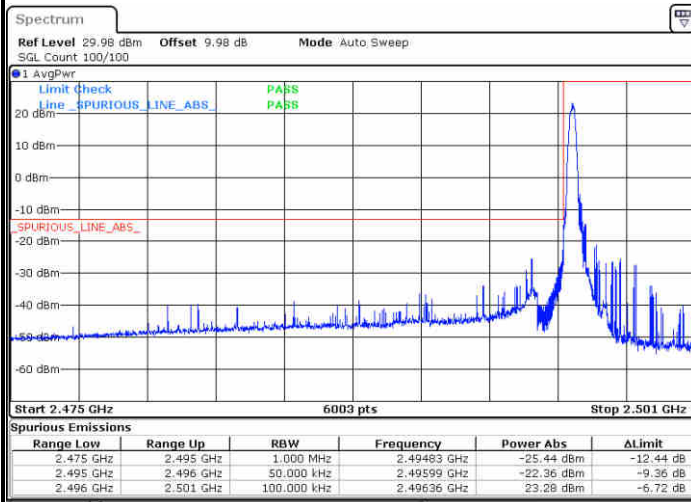




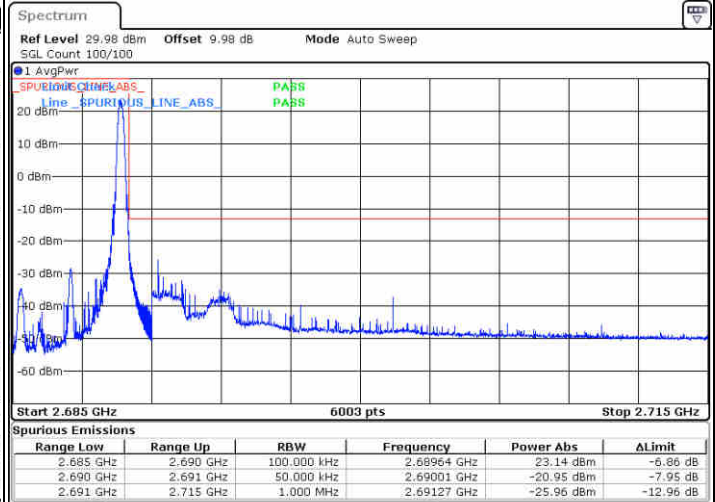


## LTE Band 41 / 5MHz / 64QAM

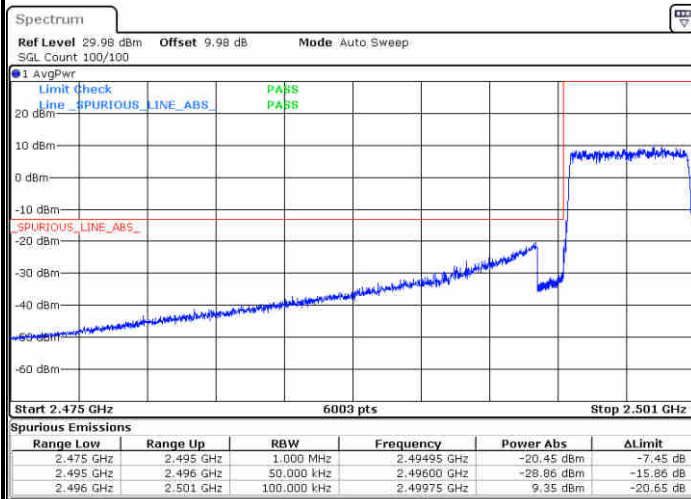
## Lowest Band Edge / 1RB



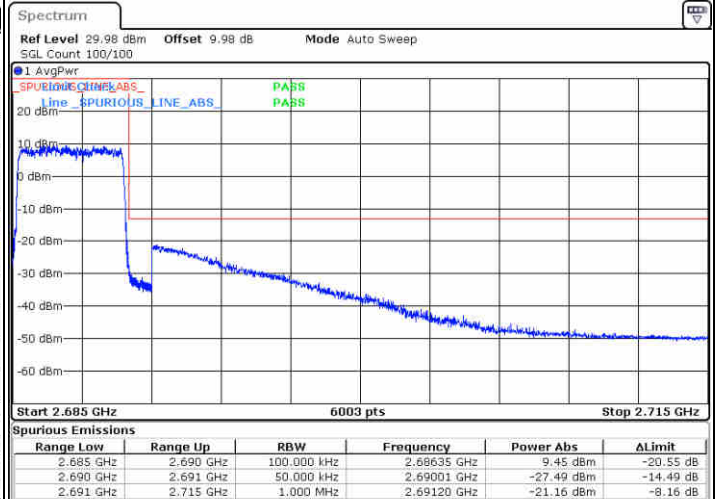
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



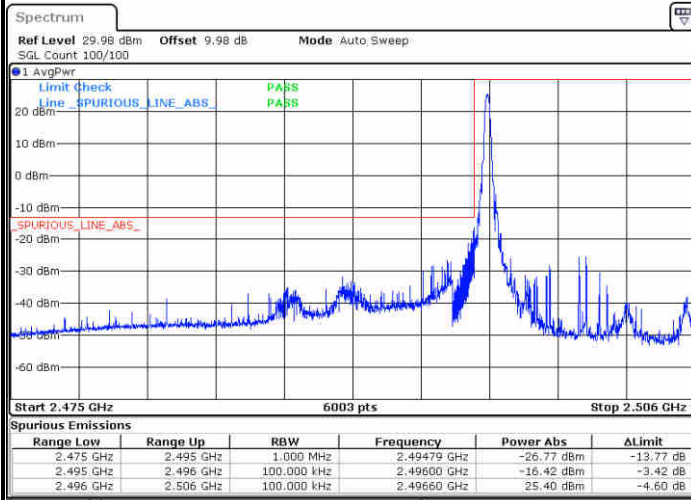
## Highest Band Edge / Full RB



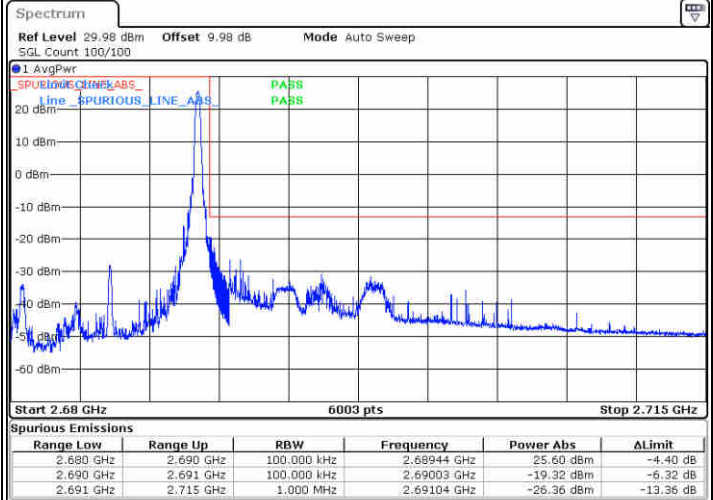


## LTE Band 41 / 10MHz / QPSK

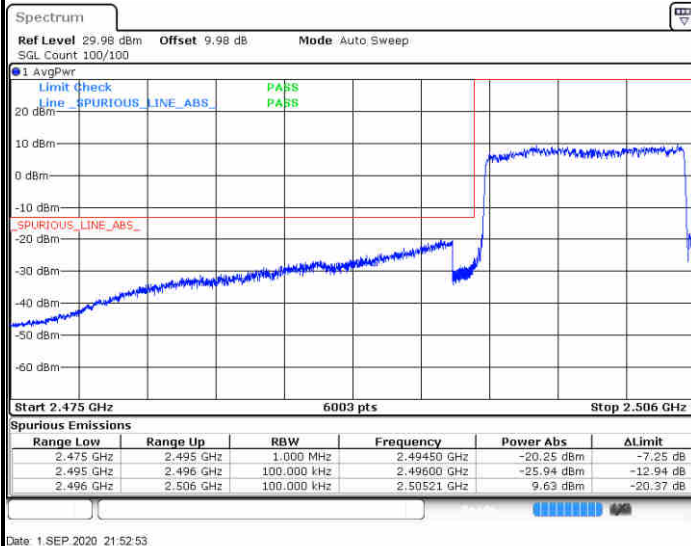
## Lowest Band Edge / 1 RB



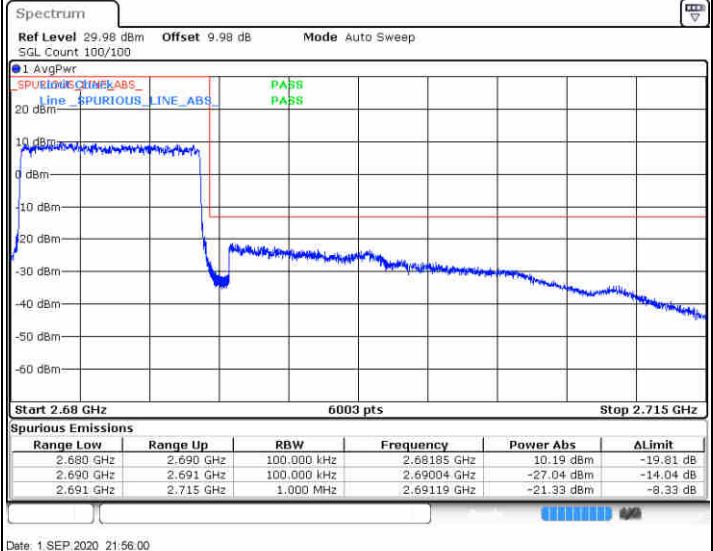
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

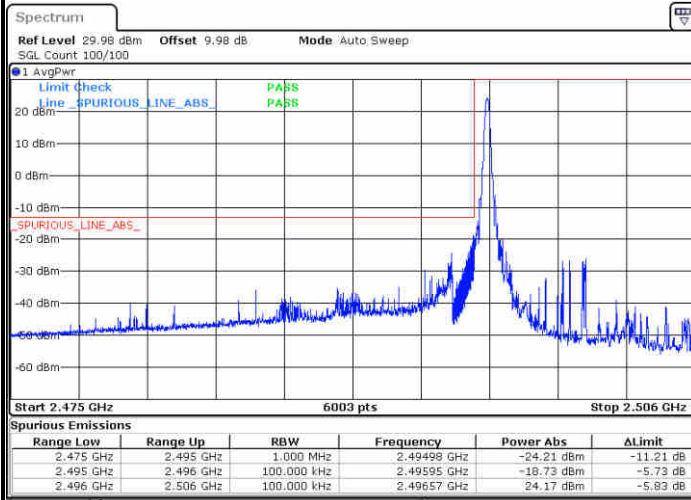




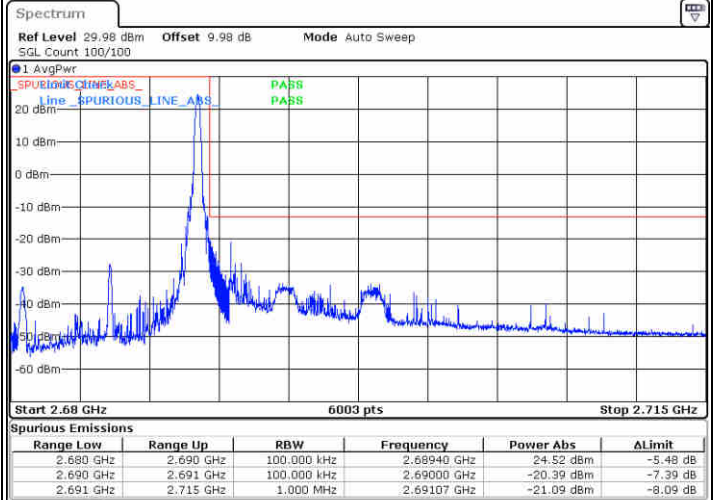


## LTE Band 41 / 10MHz / 16QAM

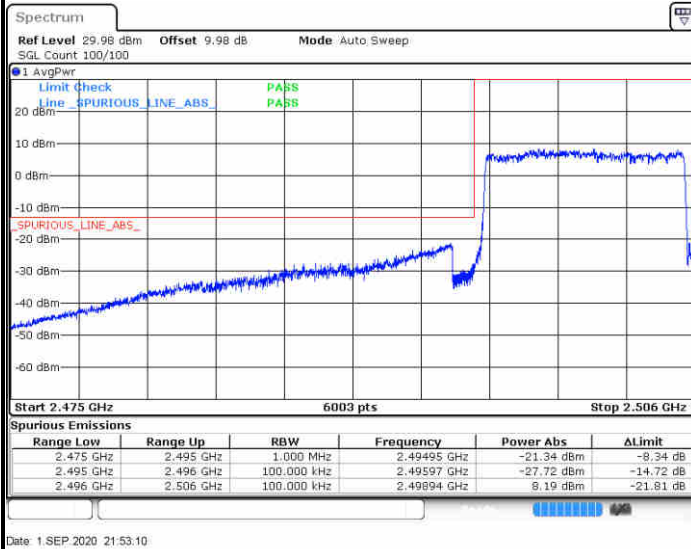
## Lowest Band Edge / 1 RB



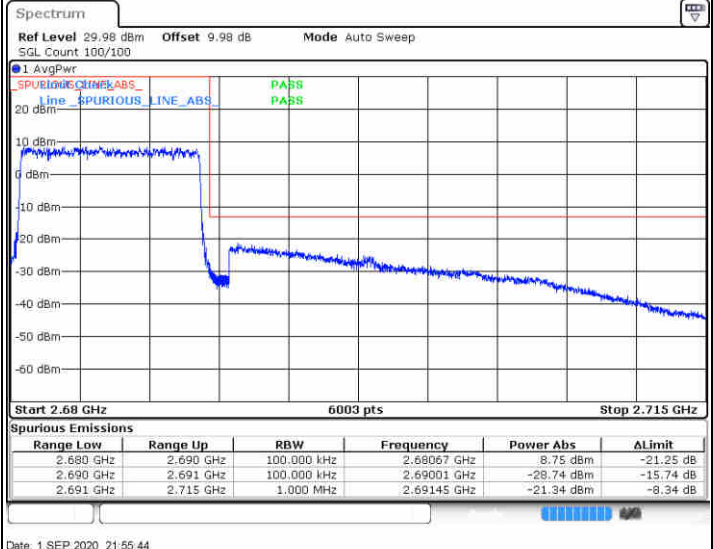
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



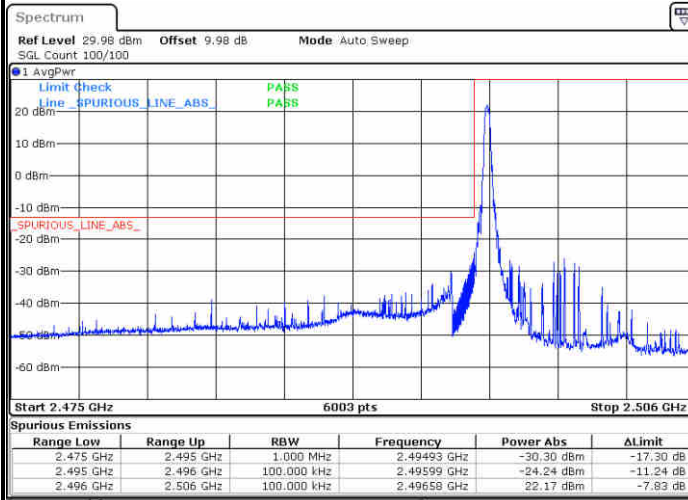
## Highest Band Edge / Full RB



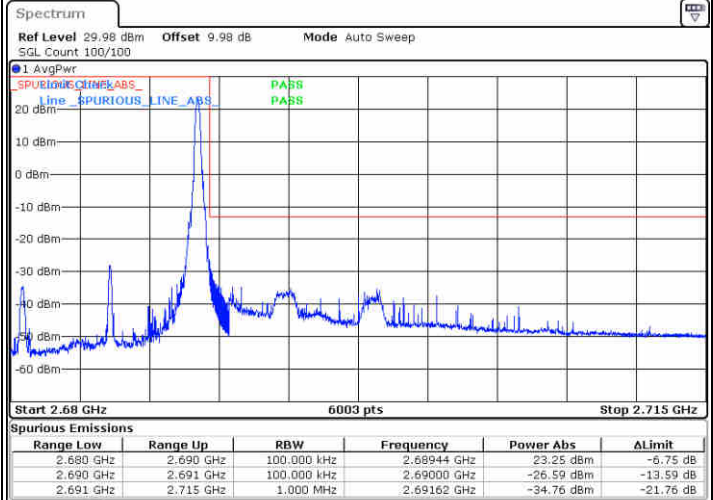


## LTE Band 41 / 10MHz / 64QAM

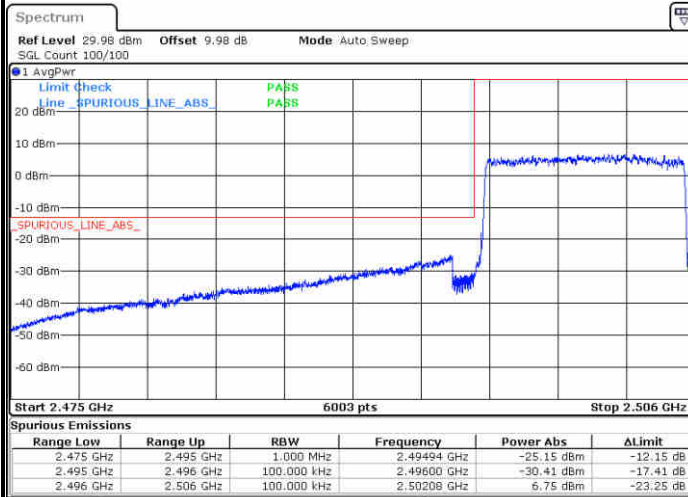
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



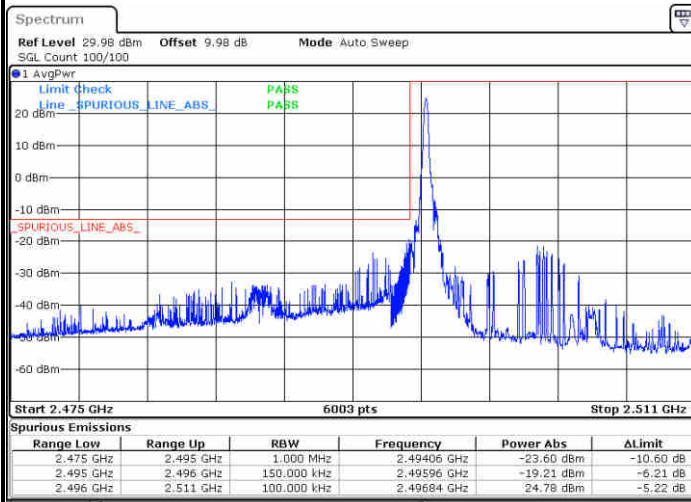
## Highest Band Edge / Full RB



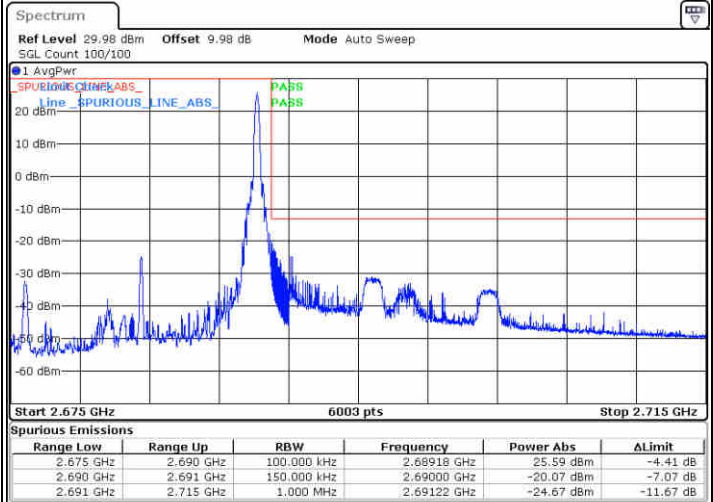


## LTE Band 41 / 15MHz / QPSK

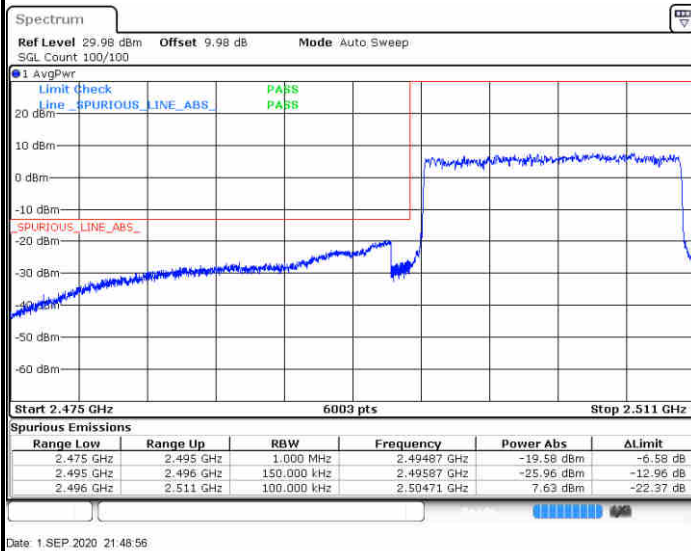
## Lowest Band Edge / 1 RB



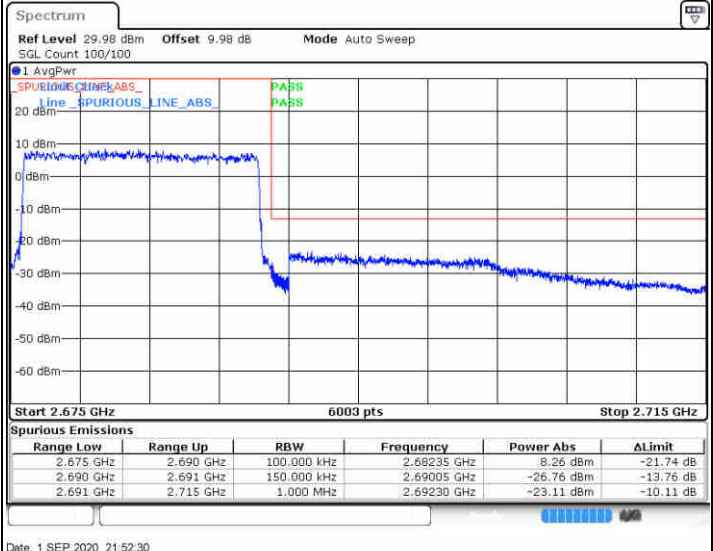
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



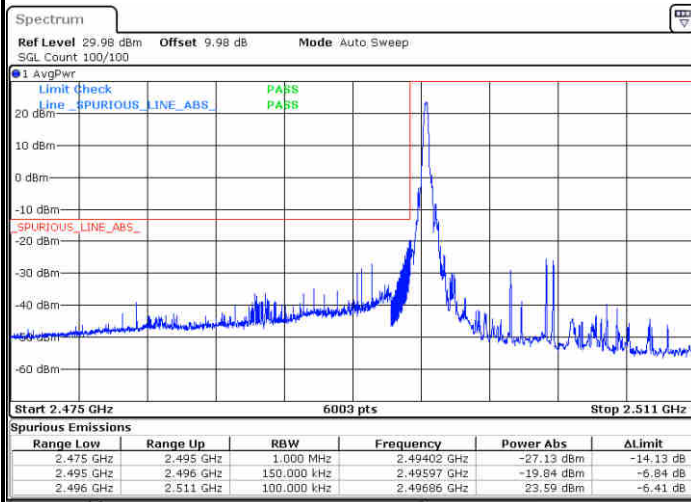
## Highest Band Edge / Full RB



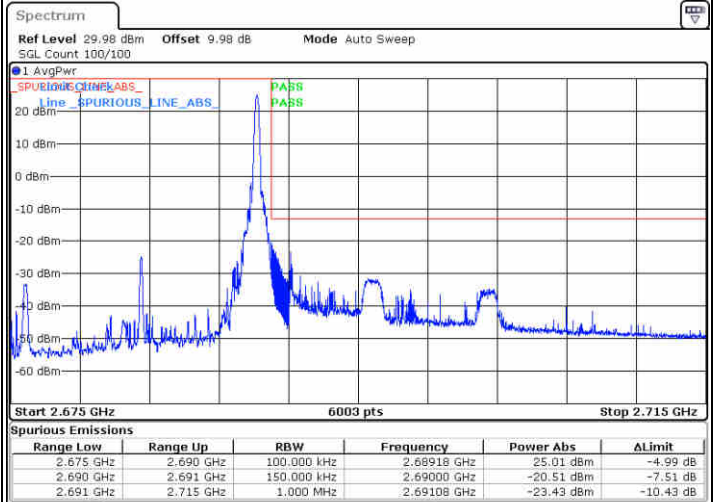


## LTE Band 41 / 15MHz / 16QAM

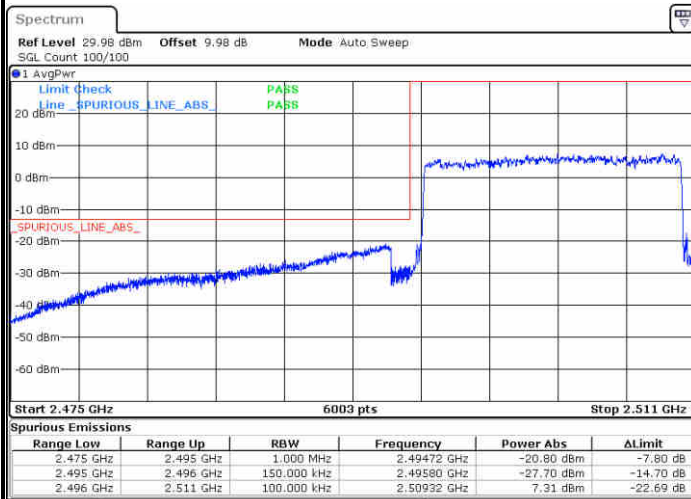
## Lowest Band Edge / 1 RB



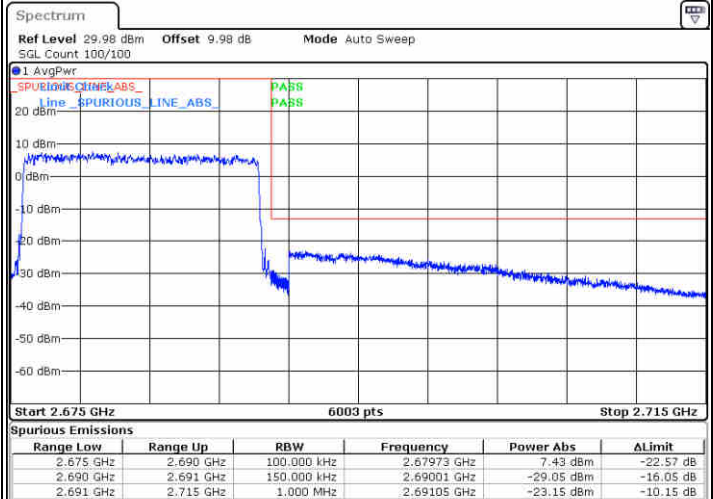
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

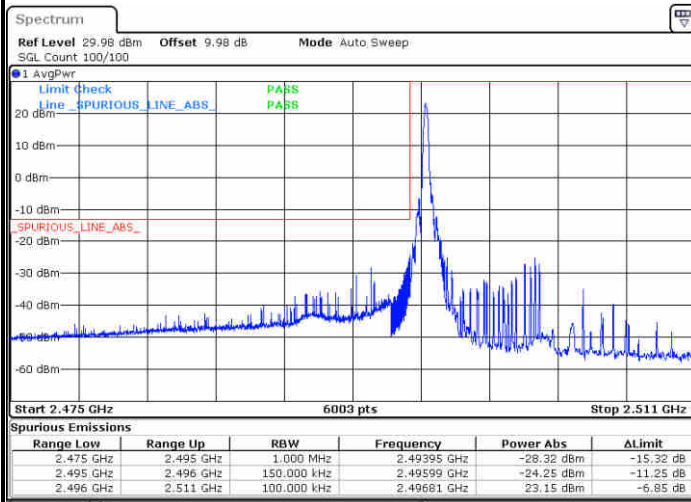






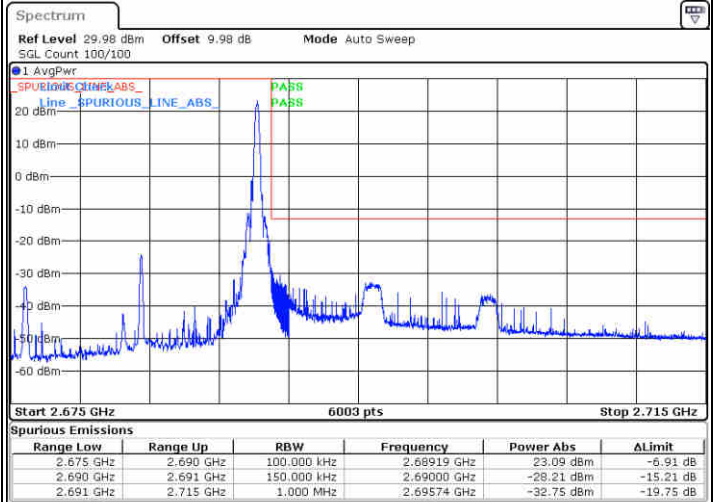
## LTE Band 41 / 15MHz / 64QAM

## Lowest Band Edge / 1 RB



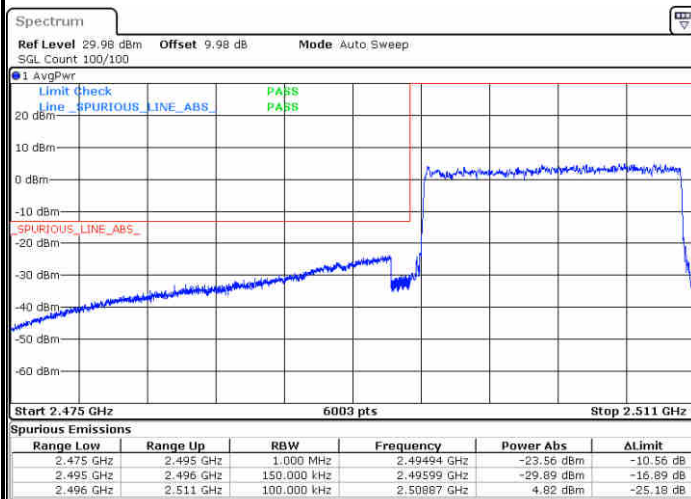
Date: 1 SEP. 2020 21:50:57

## Highest Band Edge / 1 RB



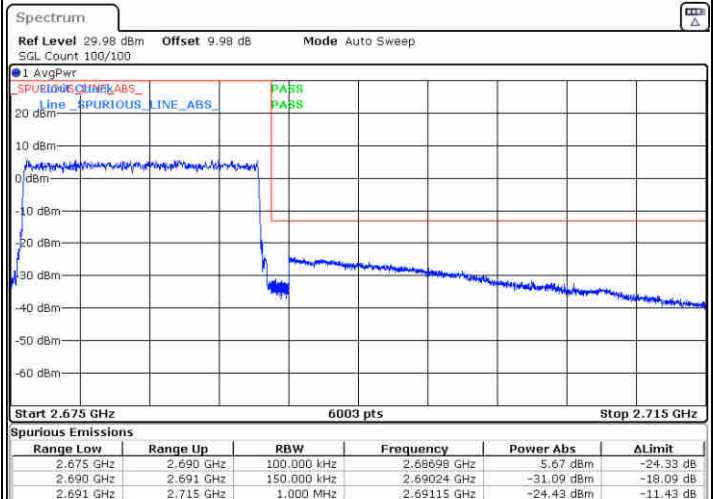
Date: 1 SEP. 2020 21:51:13

## Lowest Band Edge / Full RB



Date: 1 SEP. 2020 21:47:59

## Highest Band Edge / Full RB

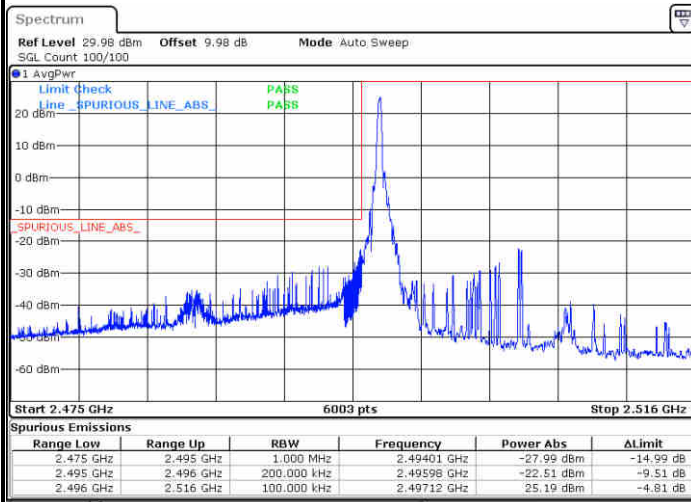


Date: 1 SEP. 2020 23:02:55

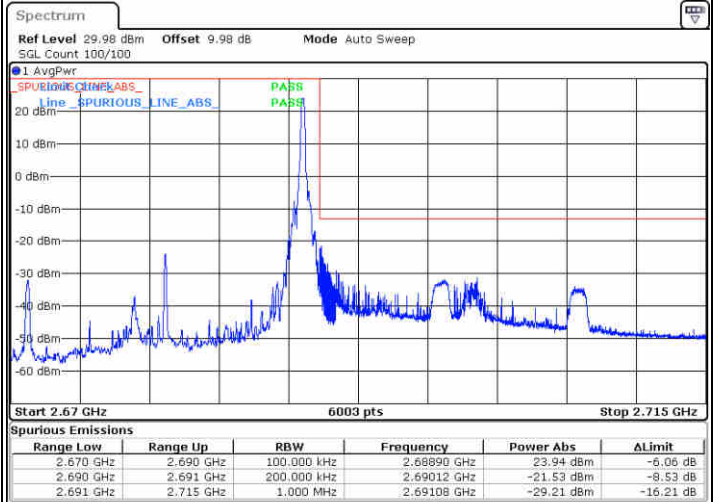


## LTE Band 41 / 20MHz / QPSK

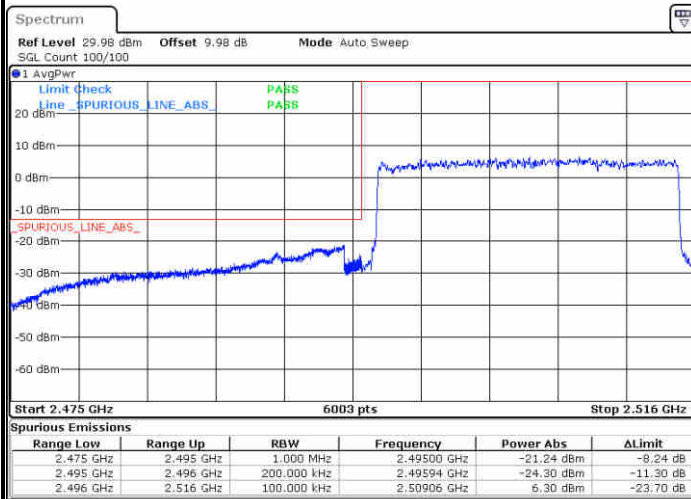
## Lowest Band Edge / 1 RB



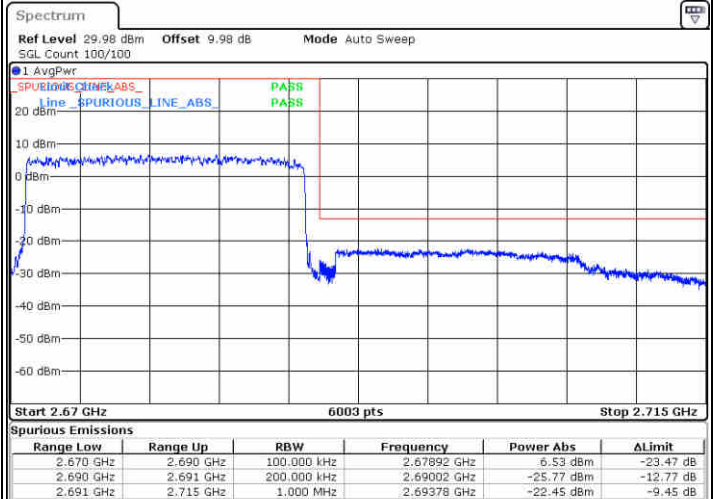
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

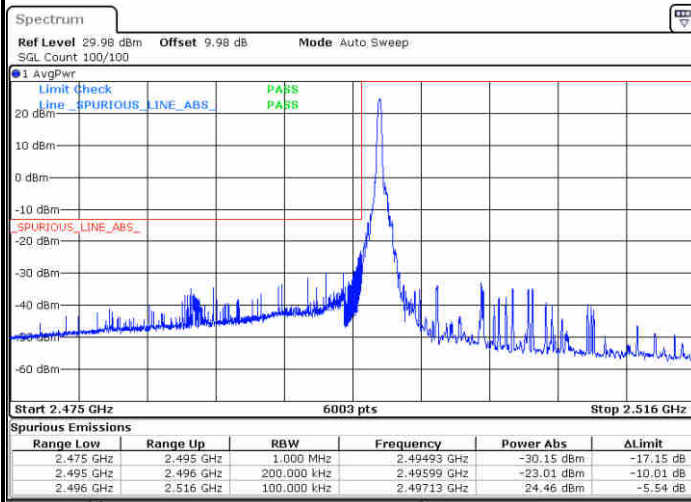




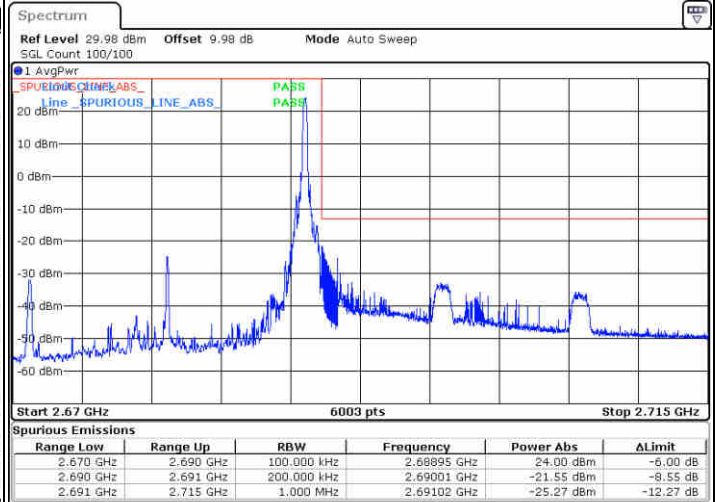


## LTE Band 41 / 20MHz / 16QAM

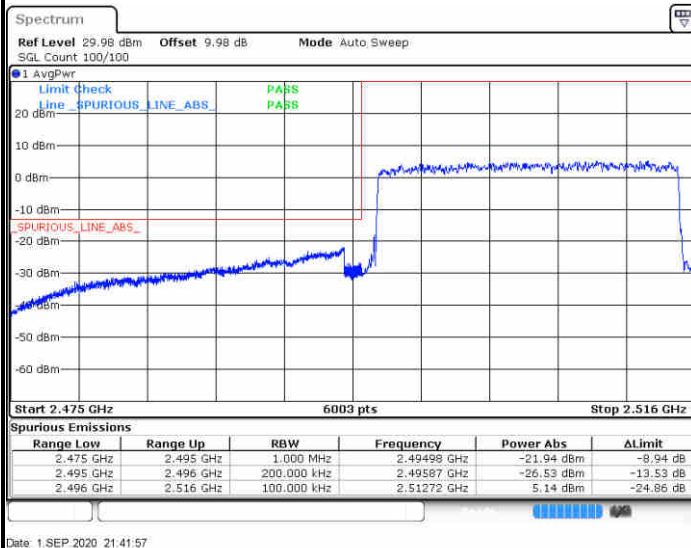
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

