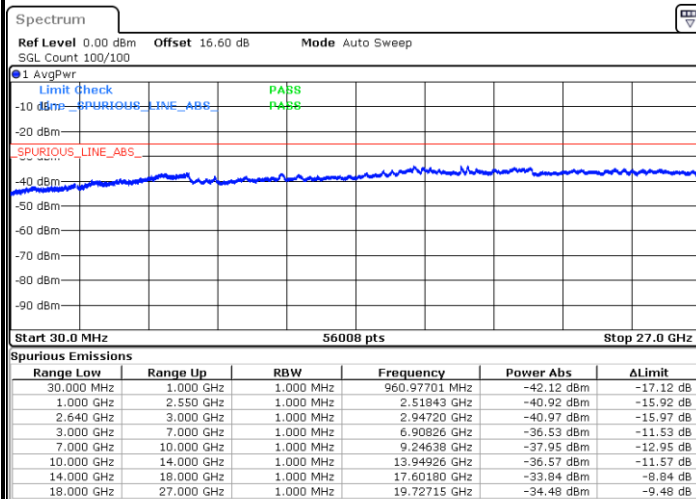




# Conducted Spurious Emission

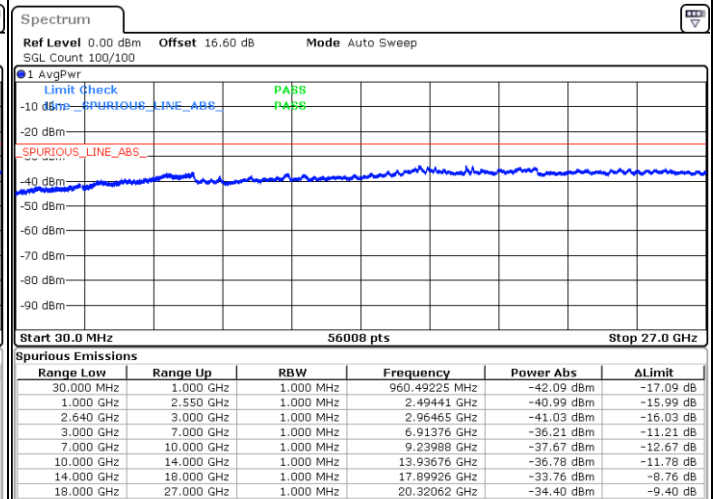
## LTE Band 38 / 5MHz

### Lowest Channel / QPSK



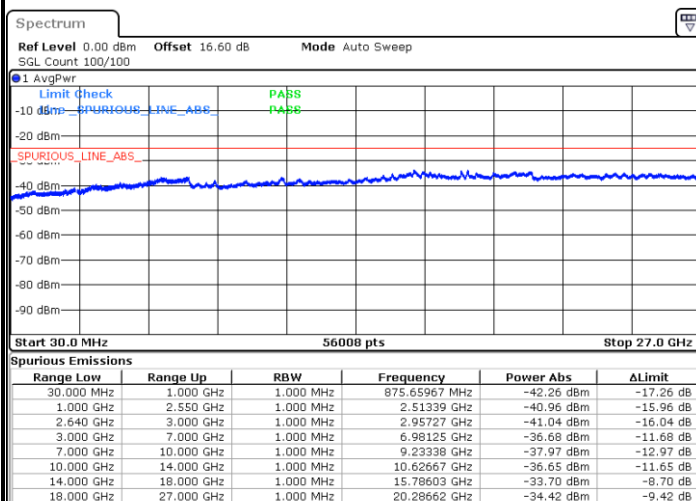
Date: 22.MAY.2020 20:42:20

### Lowest Channel / 16QAM



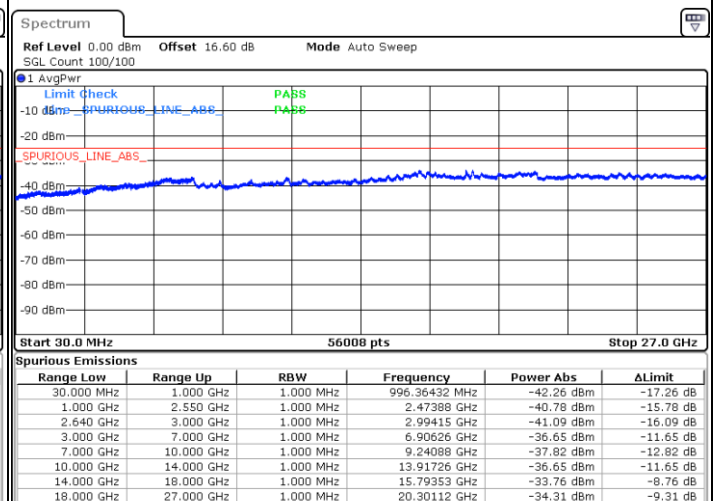
Date: 22.MAY.2020 20:43:41

### Middle Channel / QPSK



Date: 22.MAY.2020 20:45:00

### Middle Channel / 16QAM

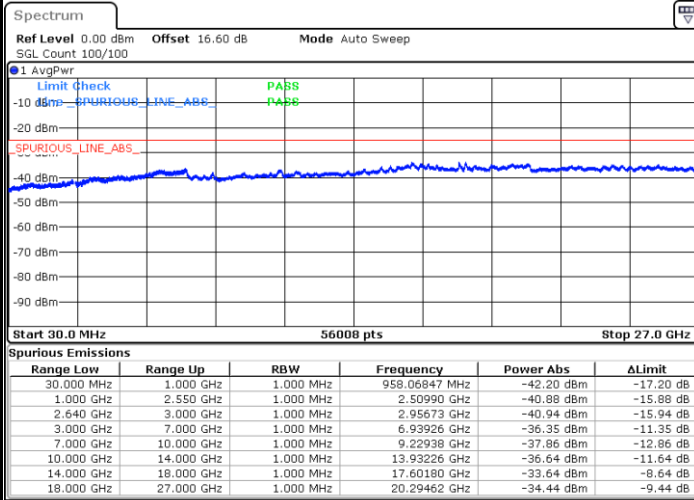


Date: 22.MAY.2020 20:46:20



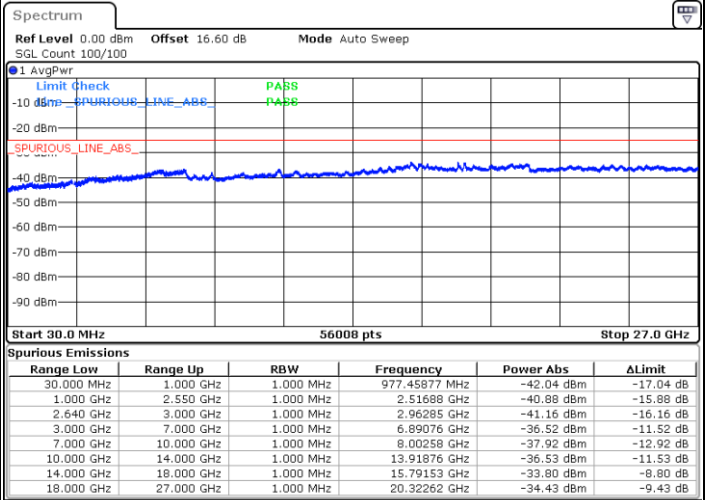
## LTE Band 38 / 5MHz

## Highest Channel / QPSK



Date: 22.MAY.2020 20:47:40

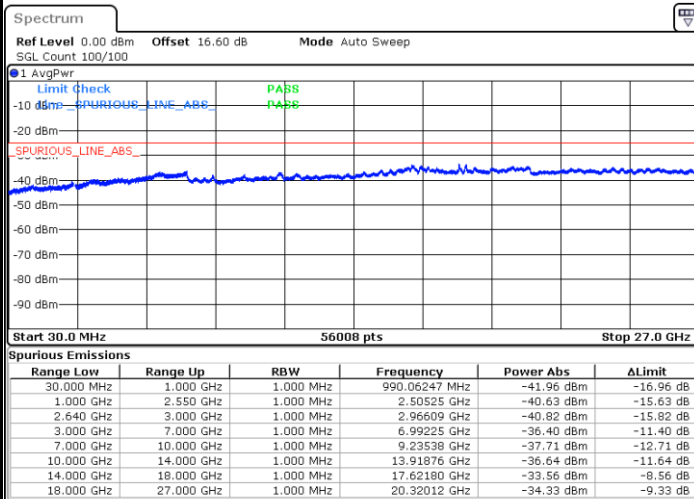
## Highest Channel / 16QAM



Date: 22.MAY.2020 20:49:00

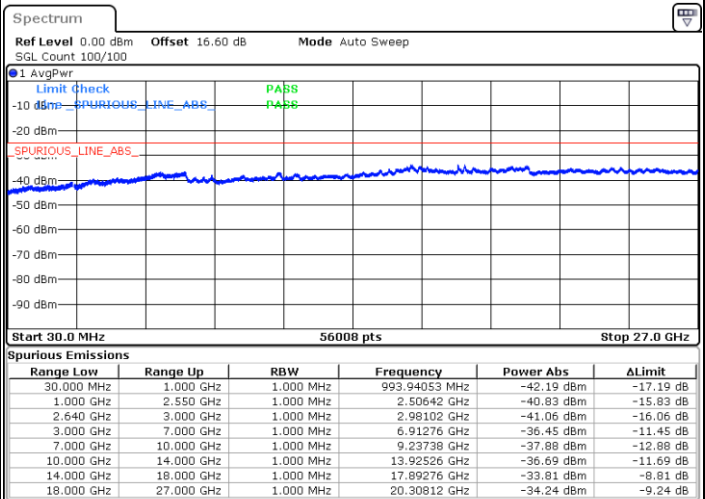
## LTE Band 38 / 10MHz

## Lowest Channel / QPSK



Date: 22.MAY.2020 20:54:21

## Lowest Channel / 16QAM

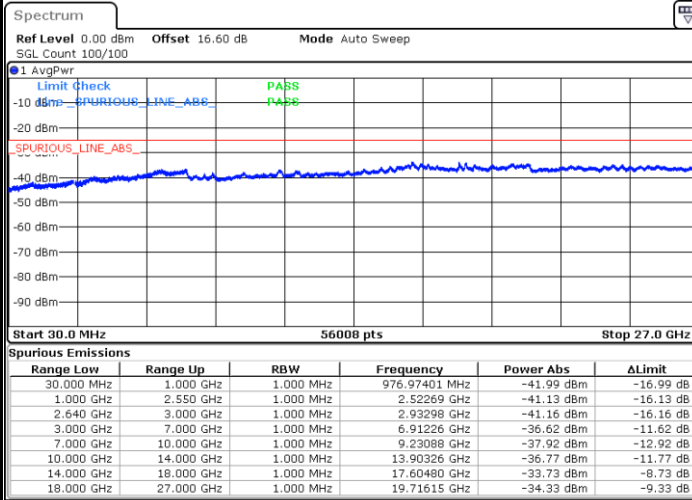


Date: 22.MAY.2020 20:55:42



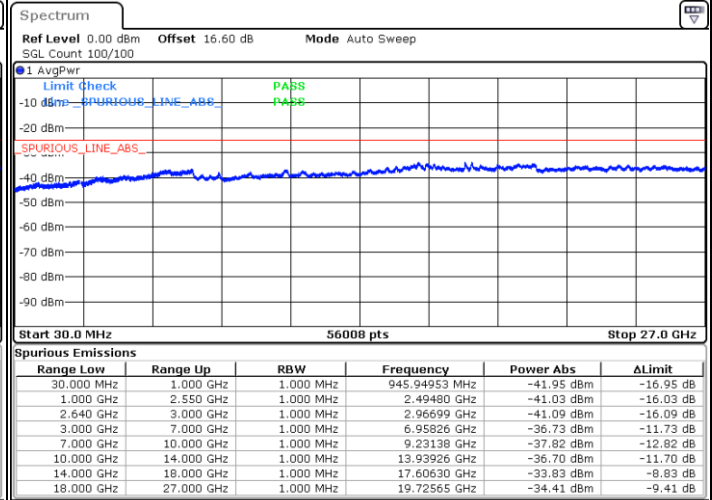
## LTE Band 38 / 10MHz

## Middle Channel / QPSK



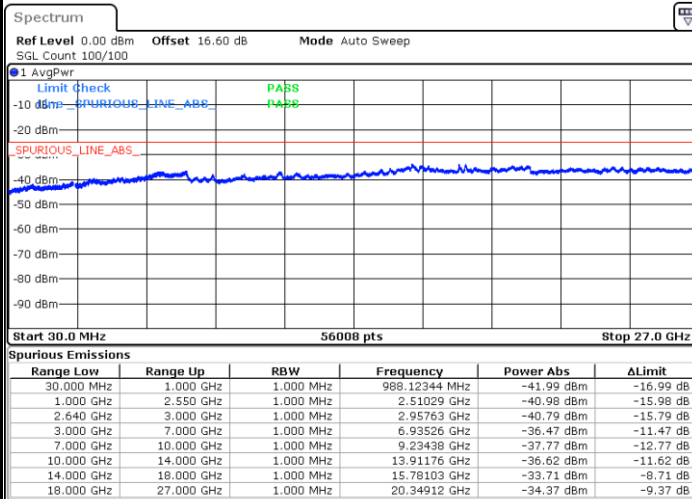
Date: 22.MAY.2020 20:57:01

## Middle Channel / 16QAM



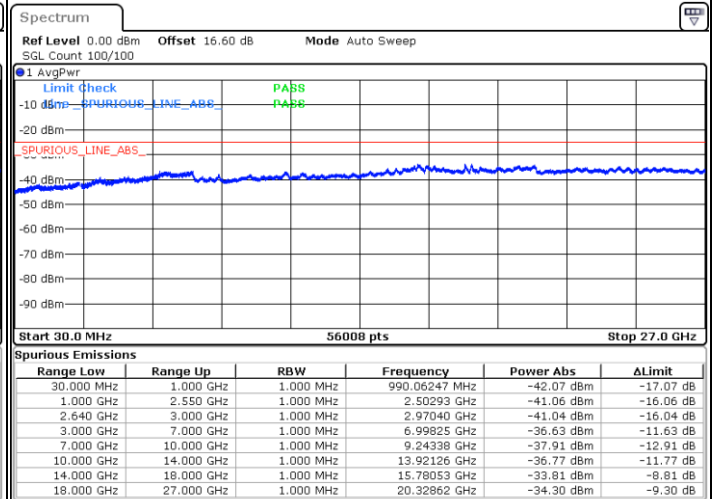
Date: 22.MAY.2020 20:58:21

## Highest Channel / QPSK



Date: 22.MAY.2020 20:59:41

## Highest Channel / 16QAM

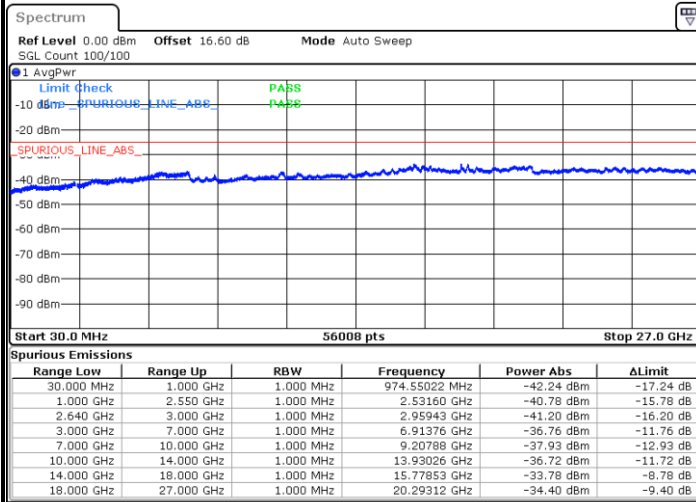


Date: 22.MAY.2020 21:01:01



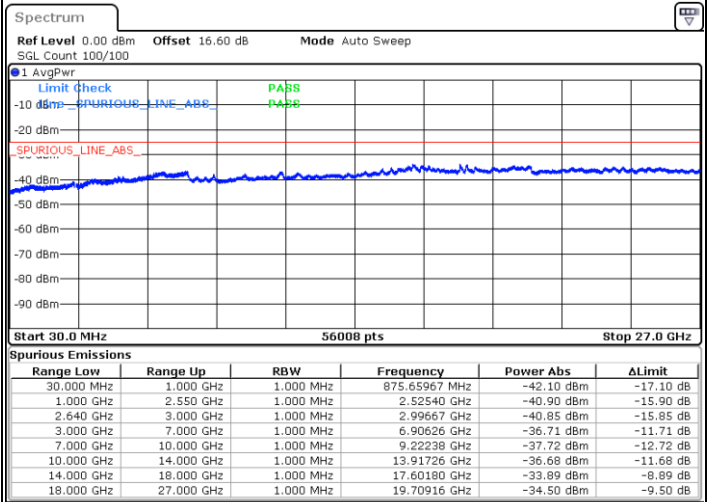
## LTE Band 38 / 15MHz

## Lowest Channel / QPSK



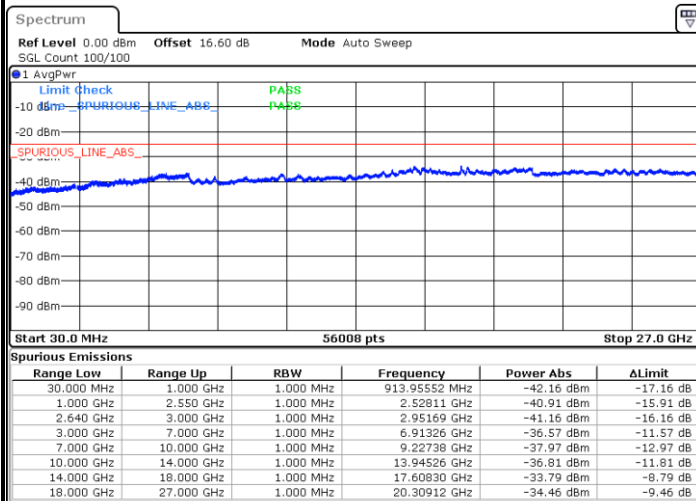
Date: 22.MAY.2020 21:02:22

## Lowest Channel / 16QAM



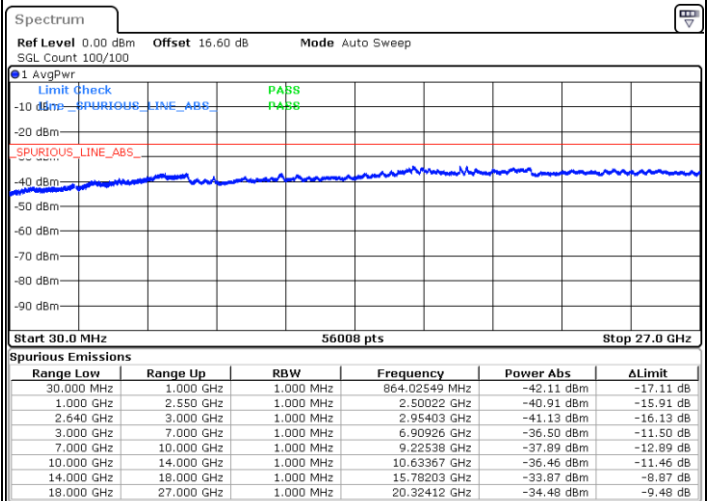
Date: 22.MAY.2020 21:03:42

## Middle Channel / QPSK



Date: 22.MAY.2020 21:05:02

## Middle Channel / 16QAM

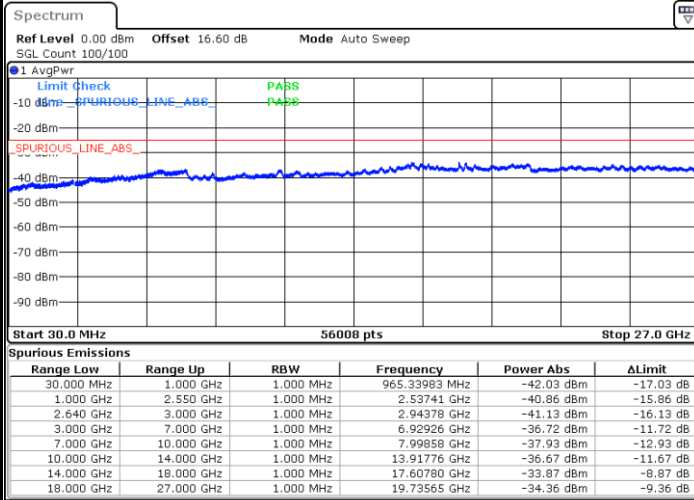


Date: 22.MAY.2020 21:06:22



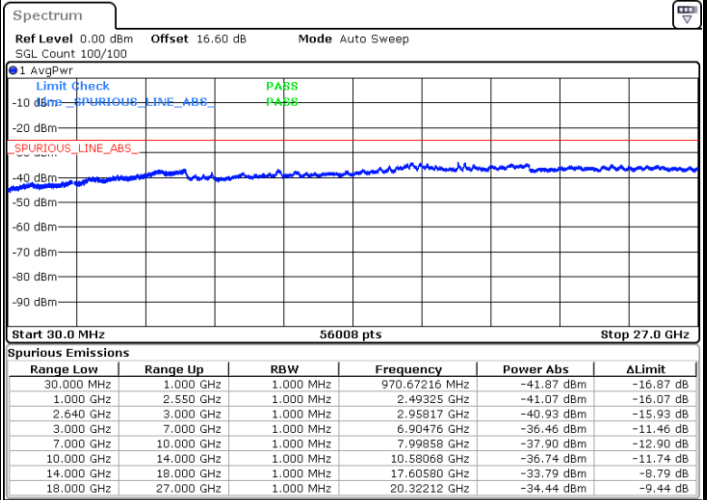
## LTE Band 38 / 15MHz

## Highest Channel / QPSK



Date: 22.MAY.2020 21:07:42

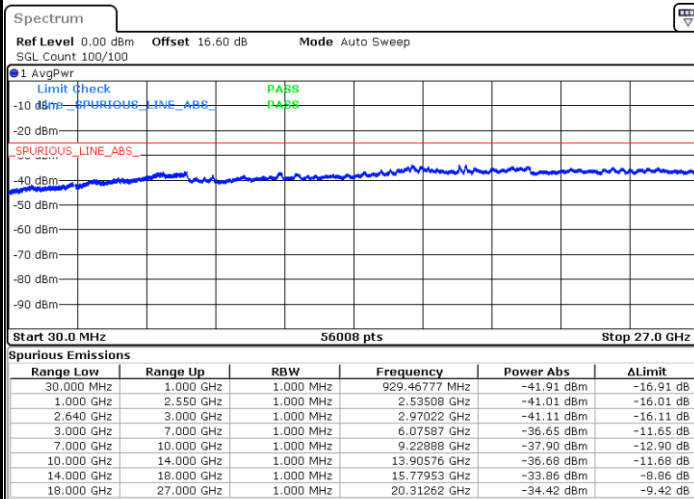
## Highest Channel / 16QAM



Date: 22.MAY.2020 21:09:02

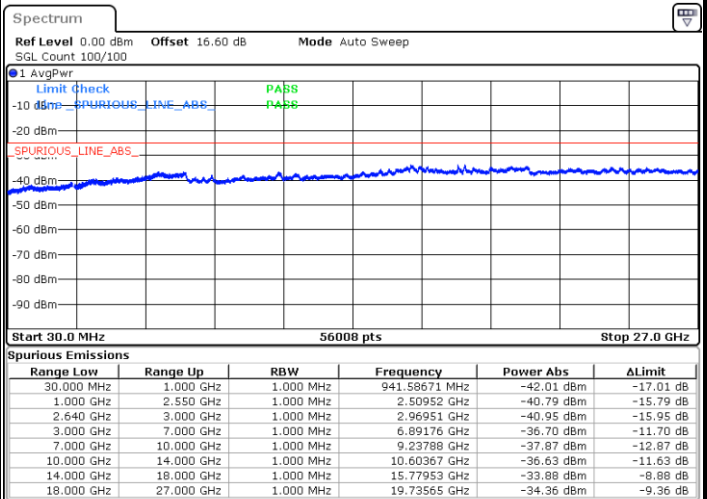
## LTE Band 38 / 20MHz

## Lowest Channel / QPSK



Date: 22.MAY.2020 21:14:23

## Lowest Channel / 16QAM

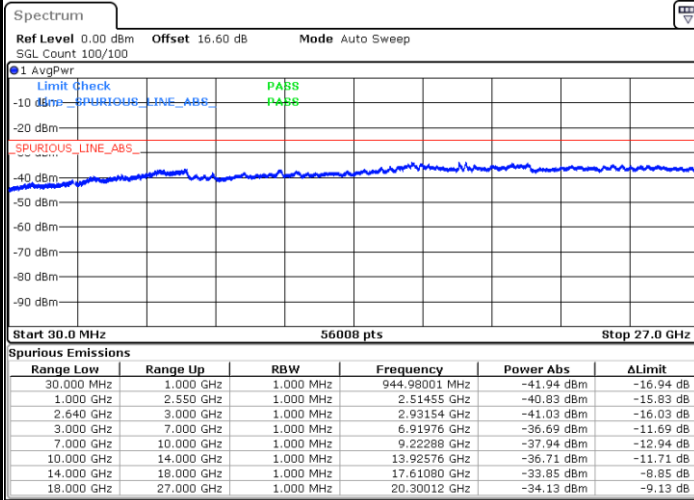


Date: 22.MAY.2020 21:15:43



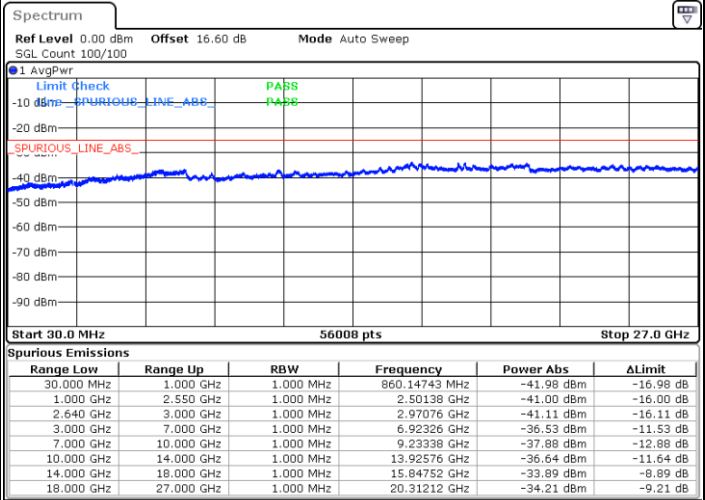
## LTE Band 38 / 20MHz

## Middle Channel / QPSK



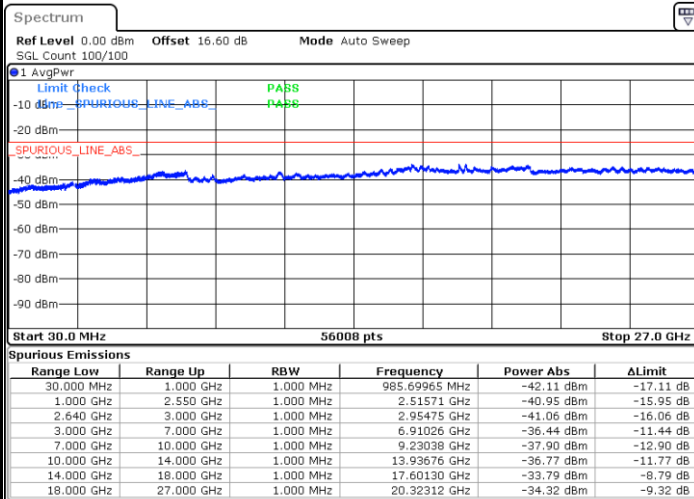
Date: 22.MAY.2020 21:17:04

## Middle Channel / 16QAM



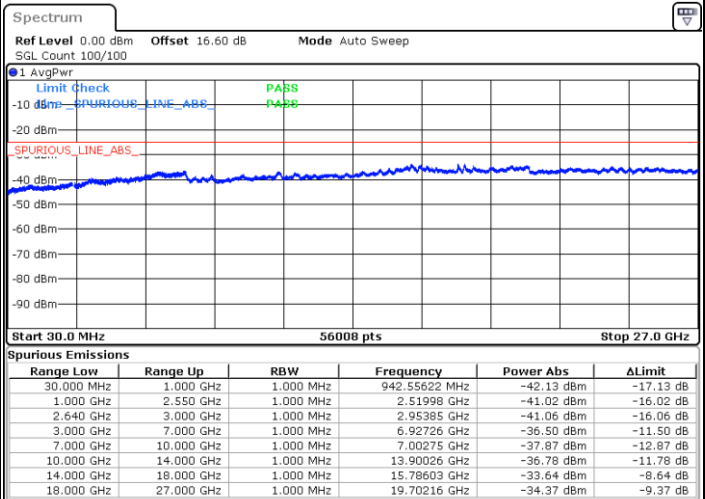
Date: 22.MAY.2020 21:18:23

## Highest Channel / QPSK



Date: 22.MAY.2020 21:19:43

## Highest Channel / 16QAM

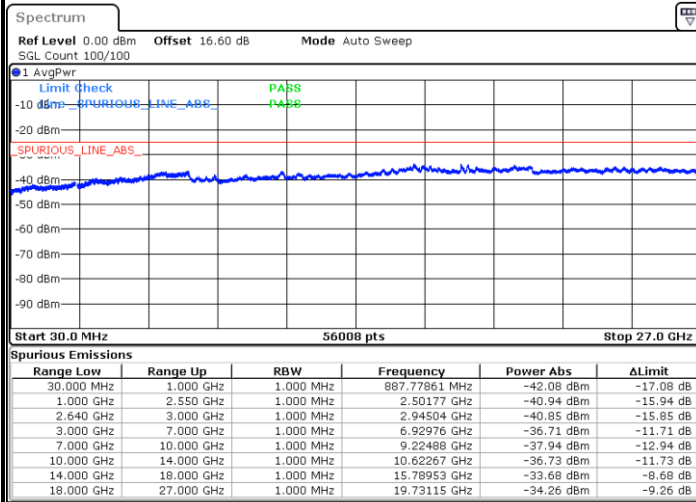


Date: 22.MAY.2020 21:21:03



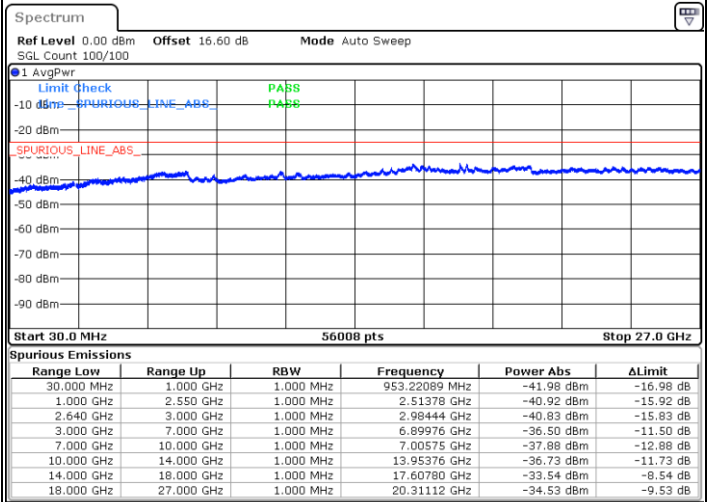
## LTE Band 38 / 5MHz

## Lowest Channel / 64QAM



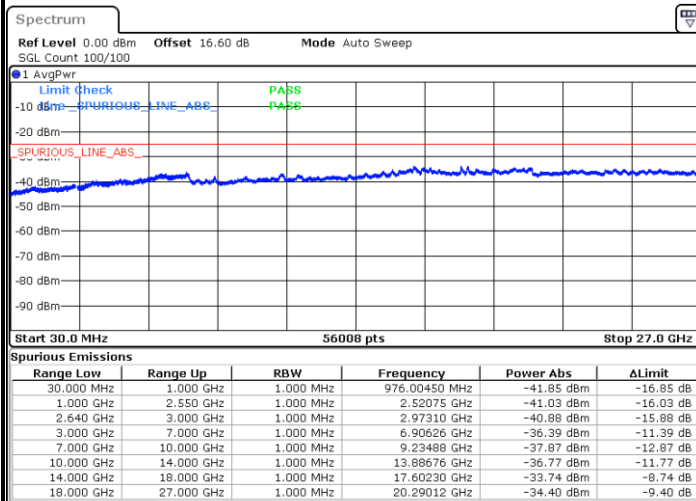
Date: 22.MAY.2020 20:38:20

## Middle Channel / 64QAM



Date: 22.MAY.2020 20:39:40

## Highest Channel / 64QAM

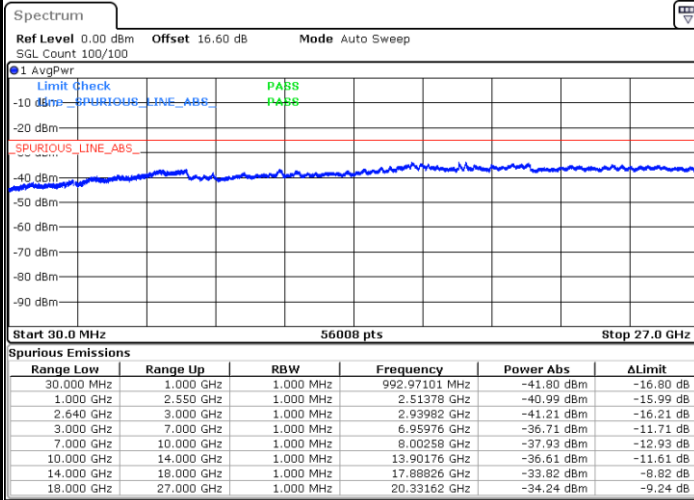


Date: 22.MAY.2020 20:41:00



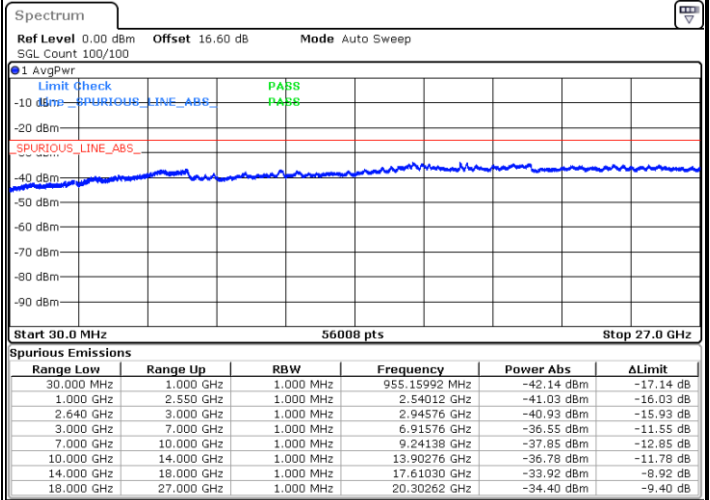
## LTE Band 38 / 10MHz

## Lowest Channel / 64QAM



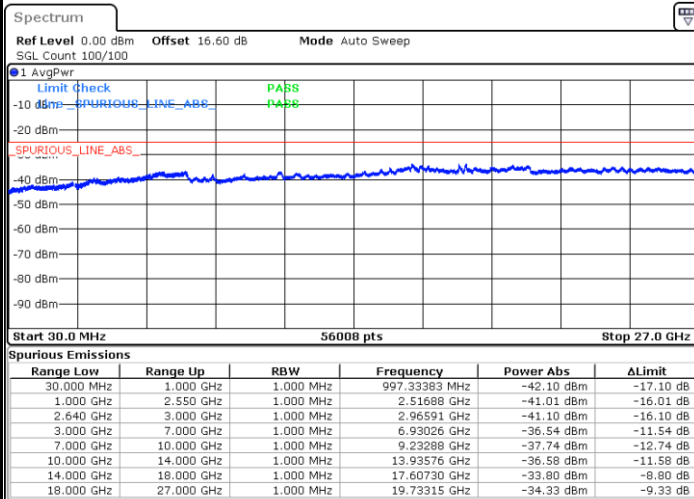
Date: 22.MAY.2020 20:50:21

## Middle Channel / 64QAM



Date: 22.MAY.2020 20:51:41

## Highest Channel / 64QAM

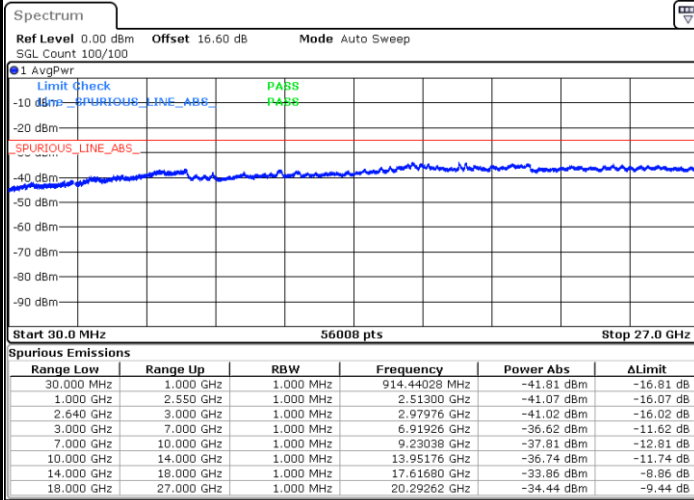


Date: 22.MAY.2020 20:53:01



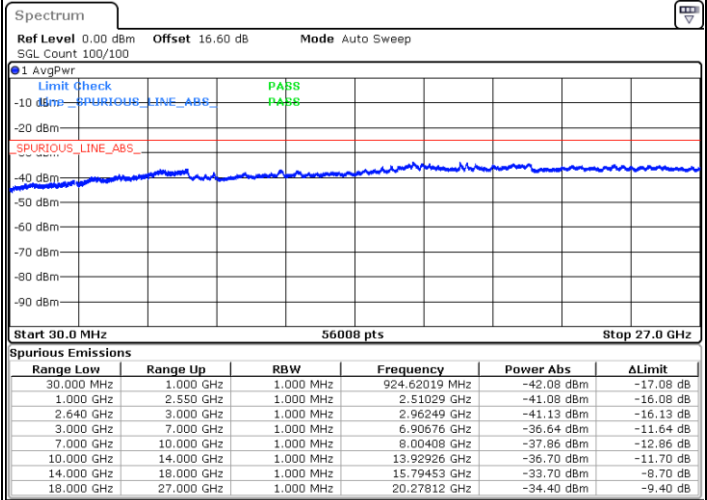
## LTE Band 38 / 15MHz

## Lowest Channel / 64QAM



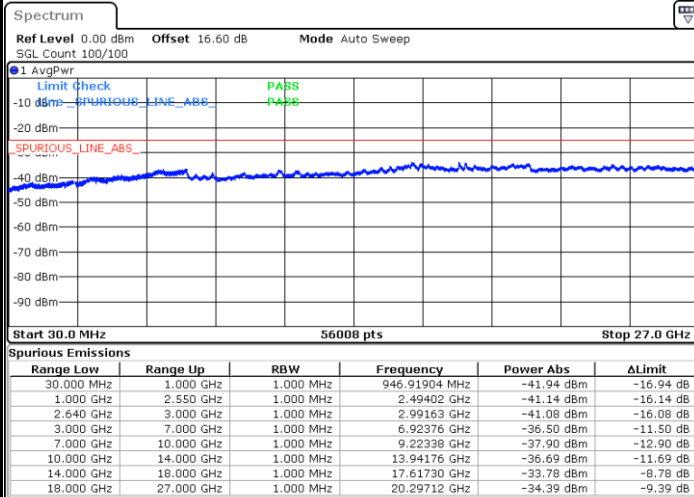
Date: 22.MAY.2020 21:10:23

## Middle Channel / 64QAM



Date: 22.MAY.2020 21:11:43

## Highest Channel / 64QAM

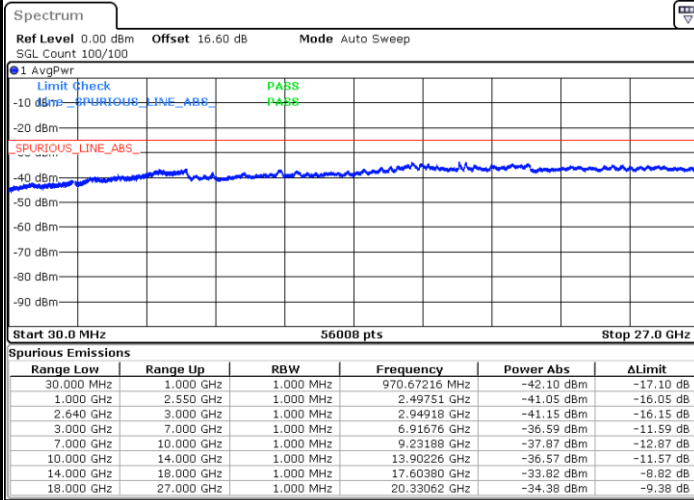


Date: 22.MAY.2020 21:13:02



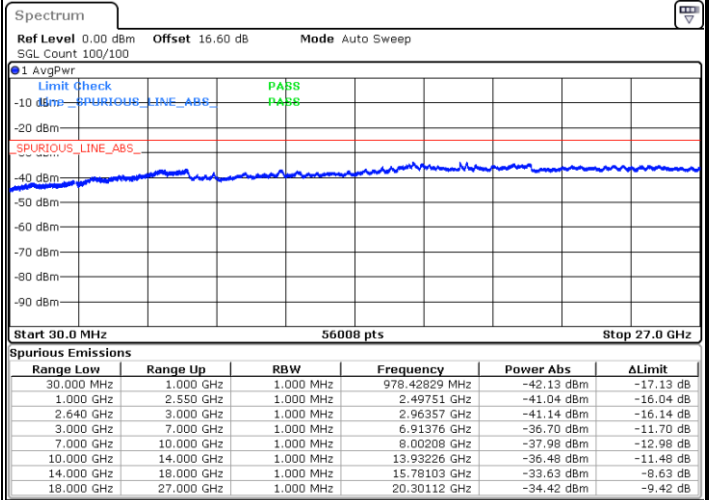
## LTE Band 38 / 20MHz

## Lowest Channel / 64QAM



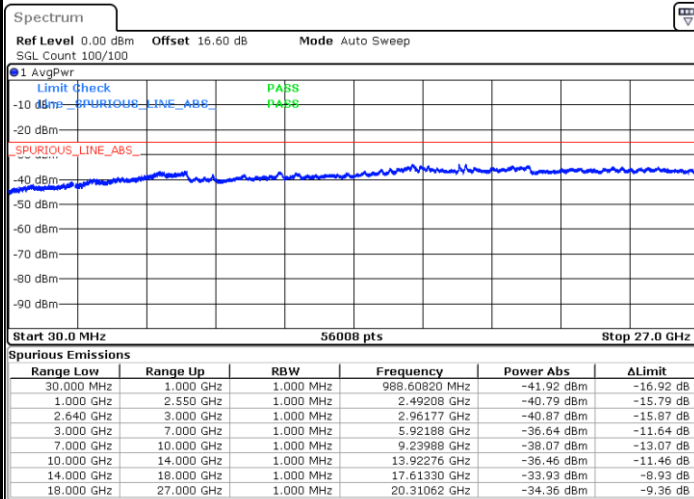
Date: 22.MAY.2020 21:22:24

## Middle Channel / 64QAM



Date: 22.MAY.2020 21:23:43

## Highest Channel / 64QAM



Date: 22.MAY.2020 21:25:03

## Frequency Stability

| Test Conditions  |                   | LTE Band 38 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0080                              | PASS    |
| 40               | Normal Voltage    | 0.0081                              |         |
| 30               | Normal Voltage    | 0.0074                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0077                              |         |
| 0                | Normal Voltage    | 0.0071                              |         |
| -10              | Normal Voltage    | 0.0076                              |         |
| -20              | Normal Voltage    | 0.0070                              |         |
| -30              | Normal Voltage    | 0.0078                              |         |
| 20               | Maximum Voltage   | 0.0063                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0004                              |         |

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 38C

### 26dB Bandwidth

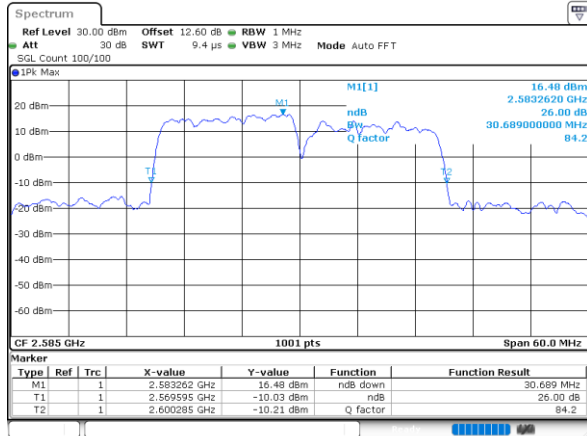
| Mode       | LTE Band 38C : 26dB BW(MHz) |             |             |
|------------|-----------------------------|-------------|-------------|
|            | QPSK                        | 16QAM       | 64QAM       |
| BW         | 15MHz+15MHz                 | 15MHz+15MHz | 15MHz+15MHz |
| Lowest CH  | 30.69                       | 30.75       | 30.45       |
| Middle CH  | 30.57                       | 30.57       | 30.57       |
| Highest CH | 30.51                       | 30.51       | 30.45       |
| BW         | 20MHz+20MHz                 | 20MHz+20MHz | 20MHz+20MHz |
| Lowest CH  | 39.64                       | 39.64       | 39.80       |
| Middle CH  | 39.72                       | 39.80       | 39.88       |
| Highest CH | 39.96                       | 39.72       | 39.72       |



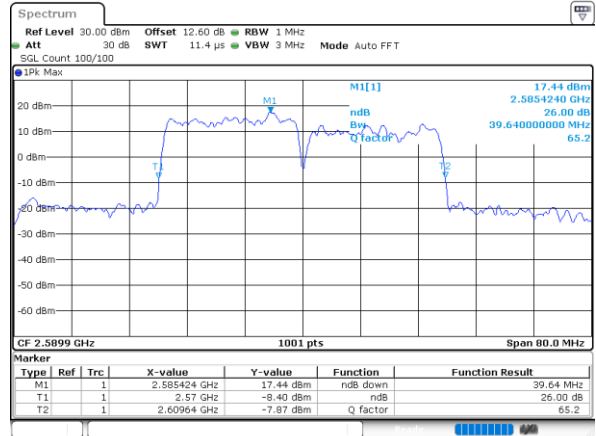
## LTE Band 38C

## QPSK

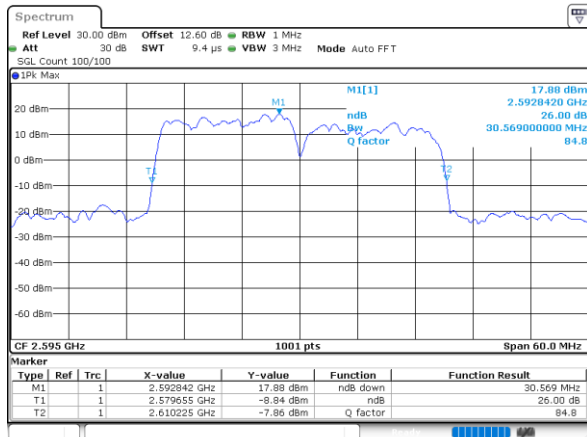
## Lowest Channel / 15MHz+15MHz



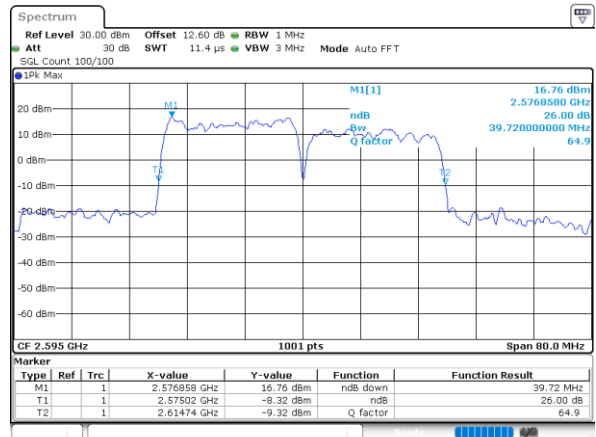
## Lowest Channel / 20MHz+20MHz



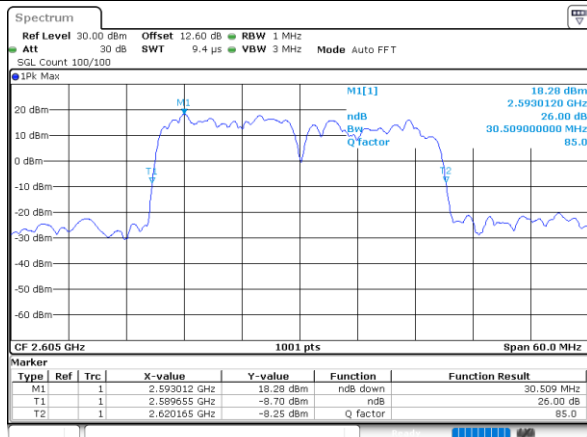
## Middle Channel / 15MHz+15MHz



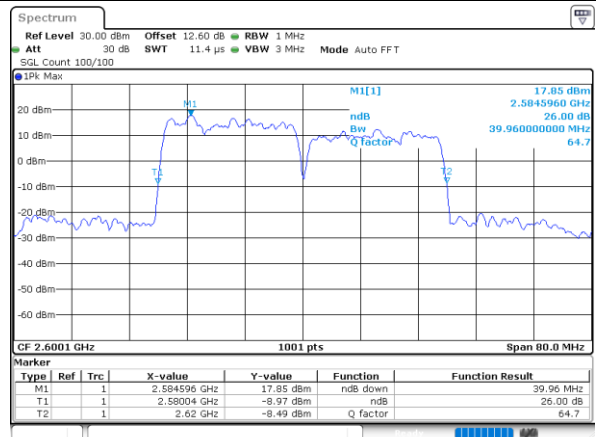
## Middle Channel / 20MHz+20MHz



## Highest Channel / 15MHz+15MHz



## Highest Channel / 20MHz+20MHz

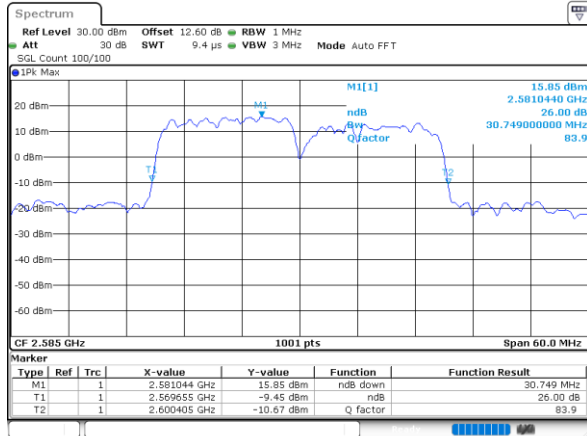




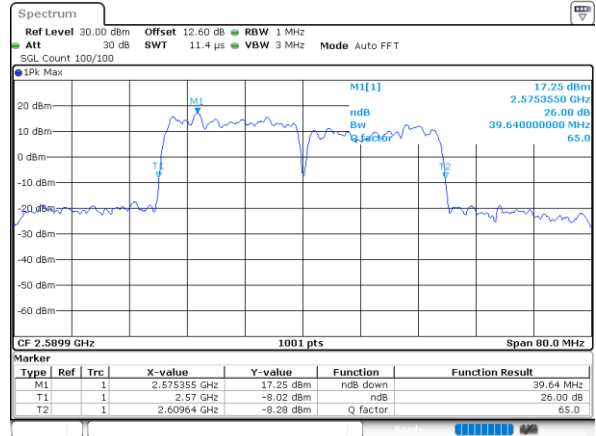
## LTE Band 38C

## 16QAM

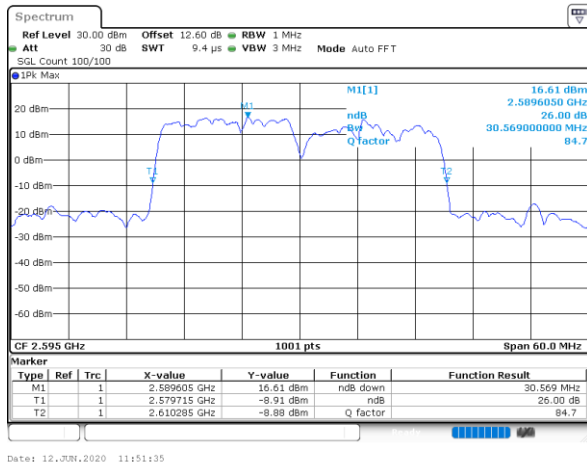
## Lowest Channel / 15MHz+15MHz



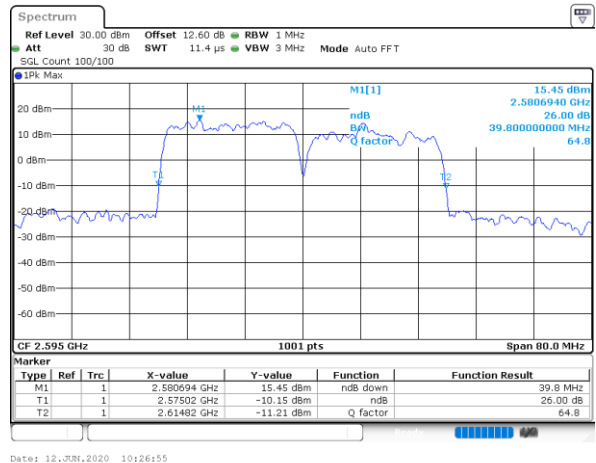
## Lowest Channel / 20MHz+20MHz



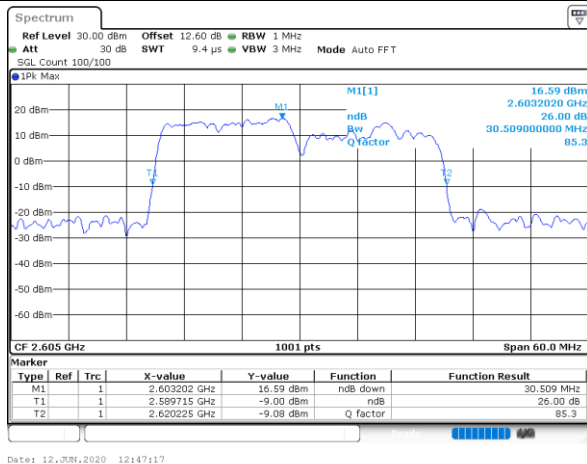
## Middle Channel / 15MHz+15MHz



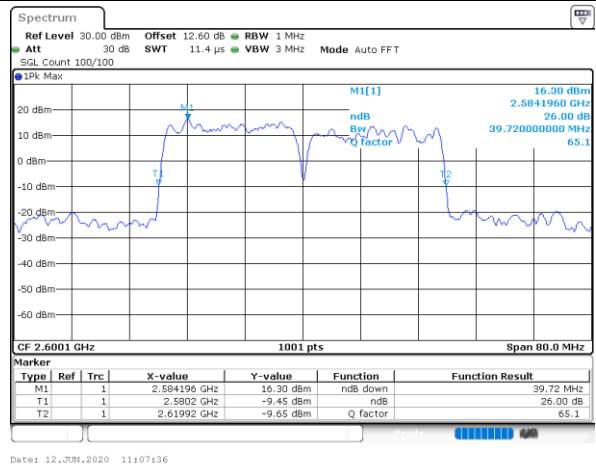
## Middle Channel / 20MHz+20MHz



## Highest Channel / 15MHz+15MHz



## Highest Channel / 20MHz+20MHz

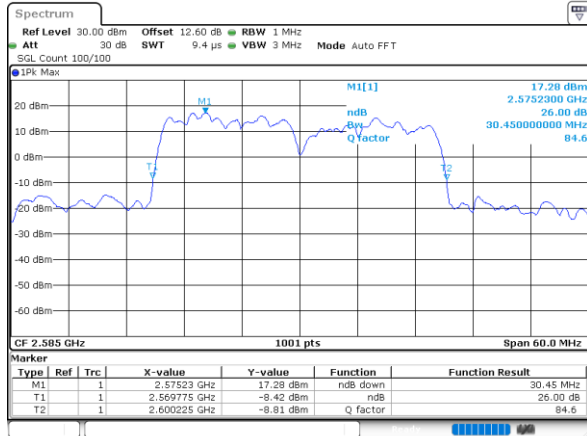




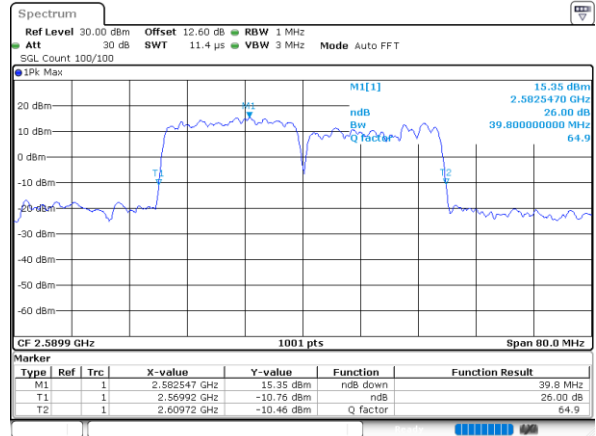
## LTE Band 38C

## 64QAM

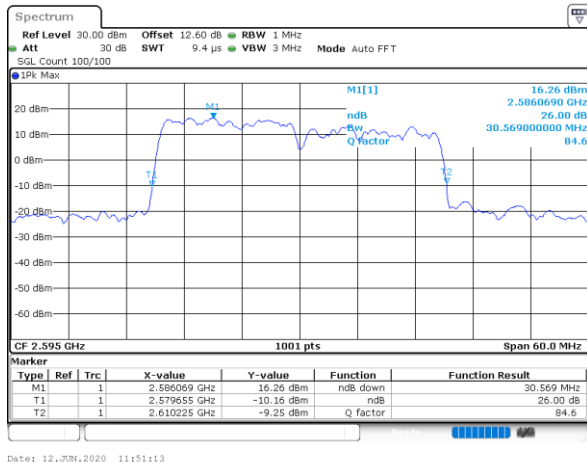
## Lowest Channel / 15MHz+15MHz



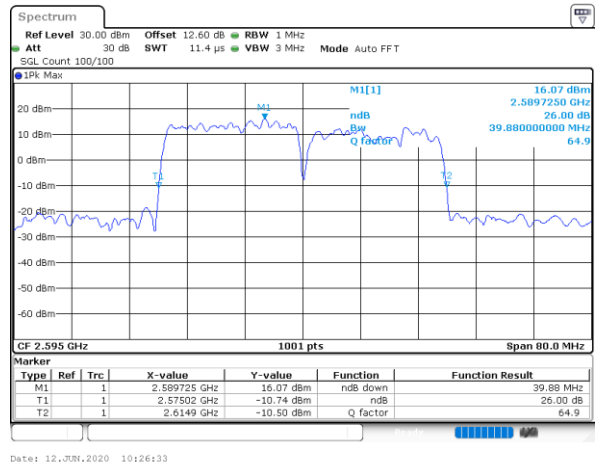
## Lowest Channel / 20MHz+20MHz



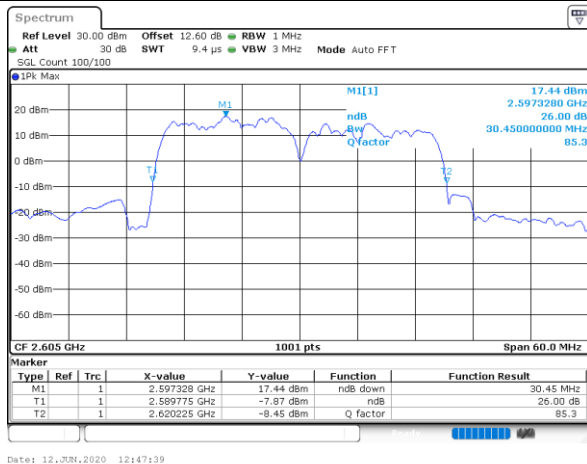
## Middle Channel / 15MHz+15MHz



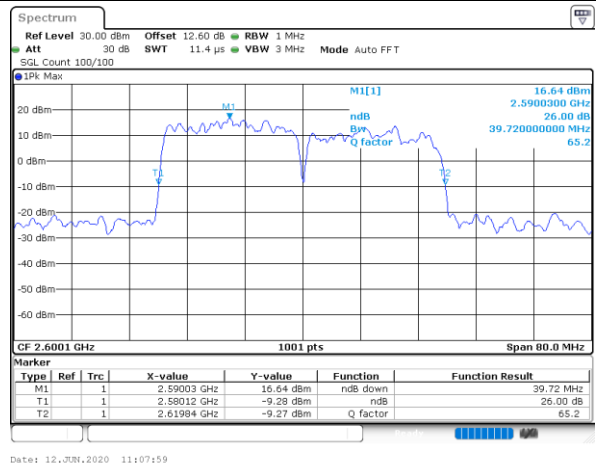
## Middle Channel / 20MHz+20MHz



## Highest Channel / 15MHz+15MHz



## Highest Channel / 20MHz+20MHz



**Occupied Bandwidth**

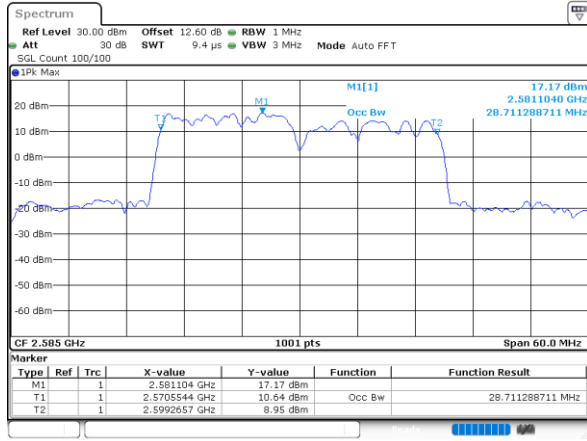
| Mode       | LTE Band 38C : 99%OBW(MHz) |             |             |
|------------|----------------------------|-------------|-------------|
|            | QPSK                       | 16QAM       | 64QAM       |
| BW         | 15MHz+15MHz                | 15MHz+15MHz | 15MHz+15MHz |
| Lowest CH  | 28.71                      | 28.59       | 28.41       |
| Middle CH  | 28.65                      | 28.71       | 28.53       |
| Highest CH | 28.41                      | 28.23       | 28.53       |
| BW         | 20MHz+20MHz                | 20MHz+20MHz | 20MHz+20MHz |
| Lowest CH  | 37.32                      | 37.64       | 37.88       |
| Middle CH  | 37.48                      | 37.48       | 37.88       |
| Highest CH | 37.80                      | 37.72       | 37.56       |



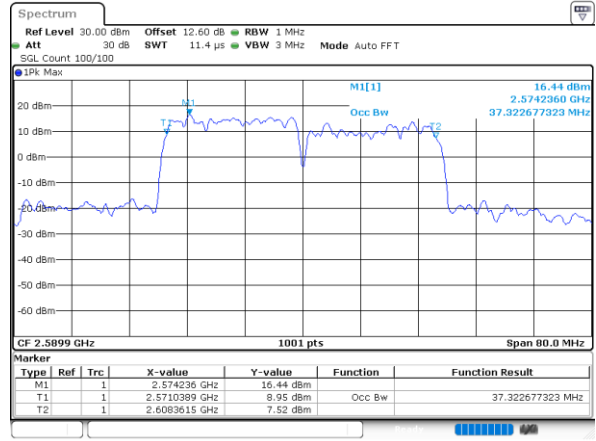
## LTE Band 38C

## QPSK

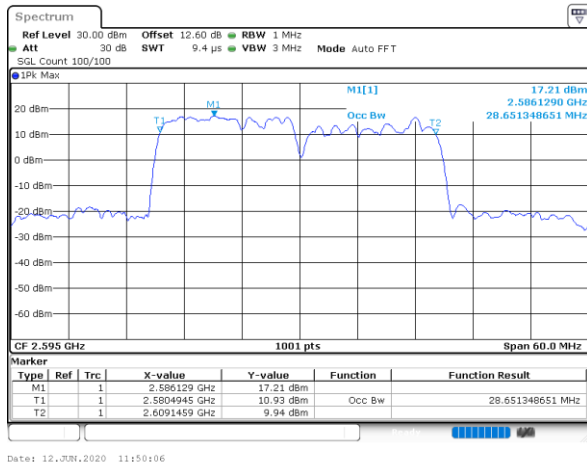
## Lowest Channel / 15MHz+15MHz



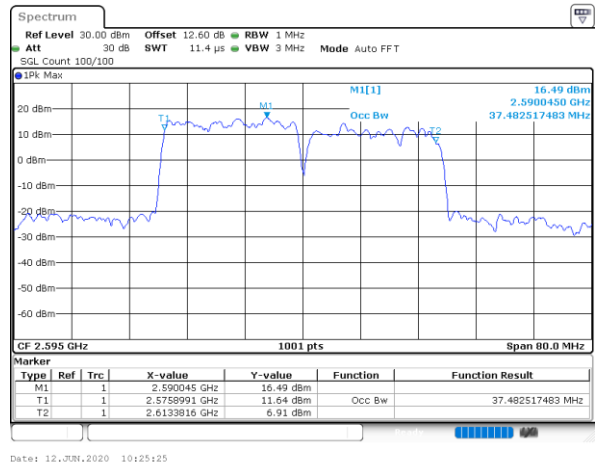
## Lowest Channel / 20MHz+20MHz



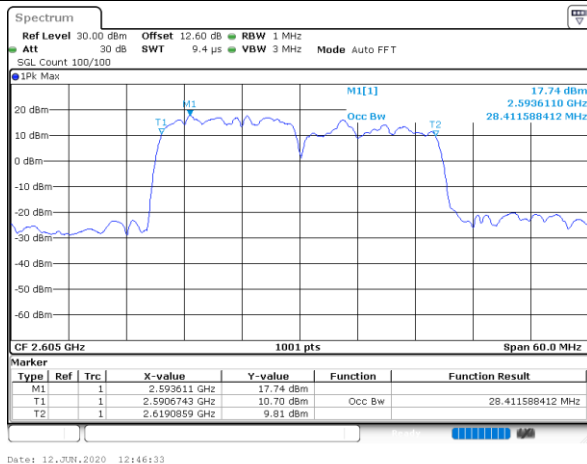
## Middle Channel / 15MHz+15MHz



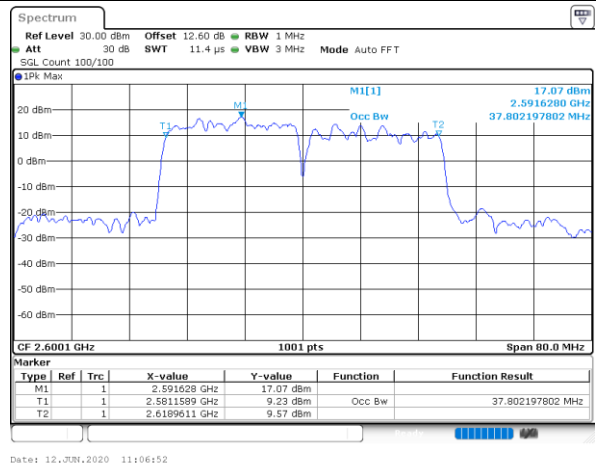
## Middle Channel / 20MHz+20MHz



## Highest Channel / 15MHz+15MHz



## Highest Channel / 20MHz+20MHz

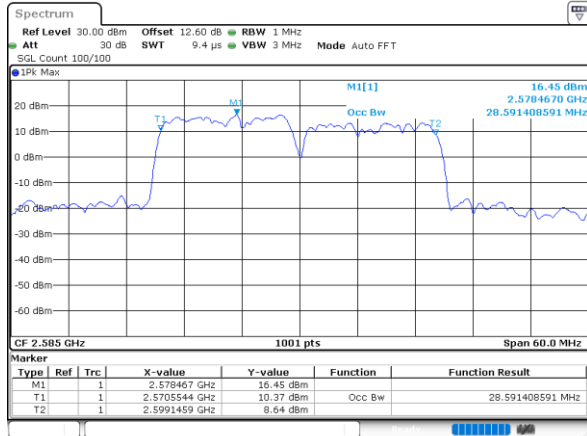




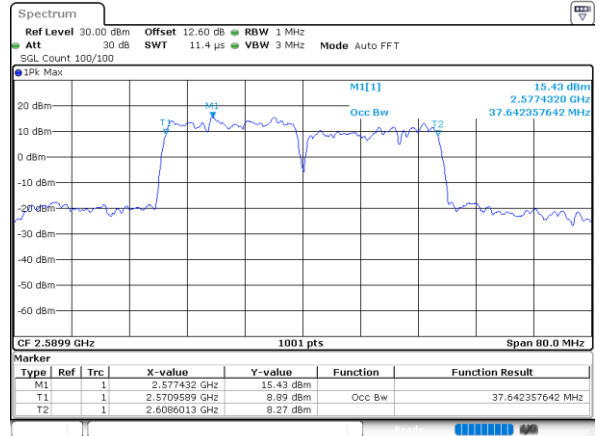
## LTE Band 38C

## 16QAM

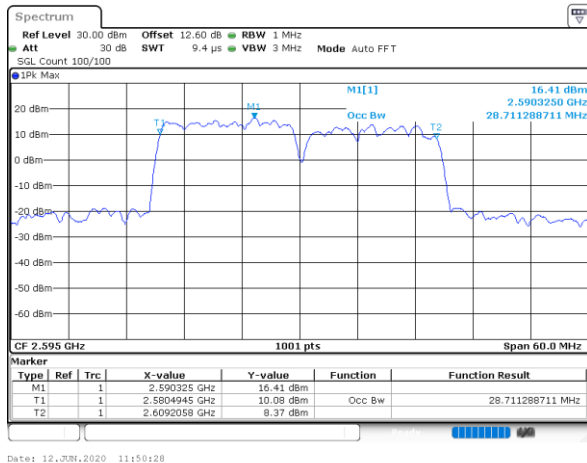
## Lowest Channel / 15MHz+15MHz



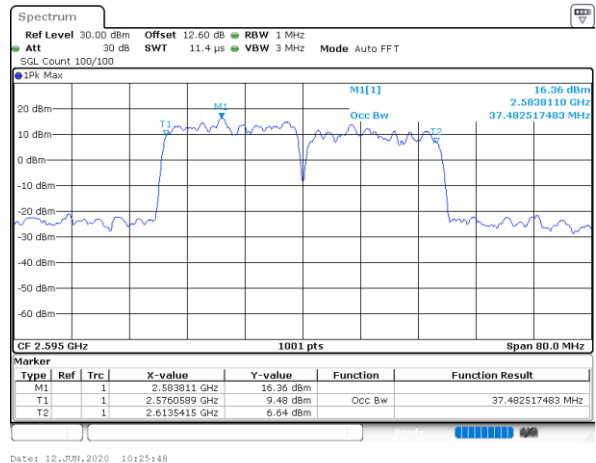
## Lowest Channel / 20MHz+20MHz



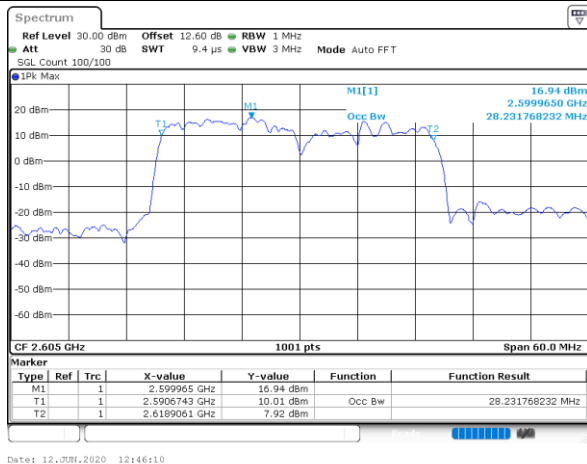
## Middle Channel / 15MHz+15MHz



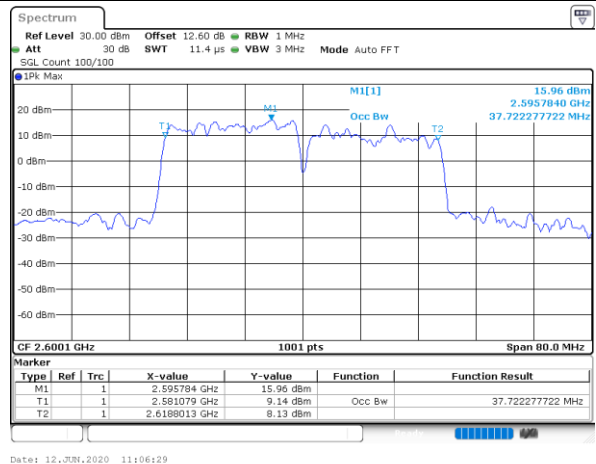
## Middle Channel / 20MHz+20MHz



## Highest Channel / 15MHz+15MHz



## Highest Channel / 20MHz+20MHz

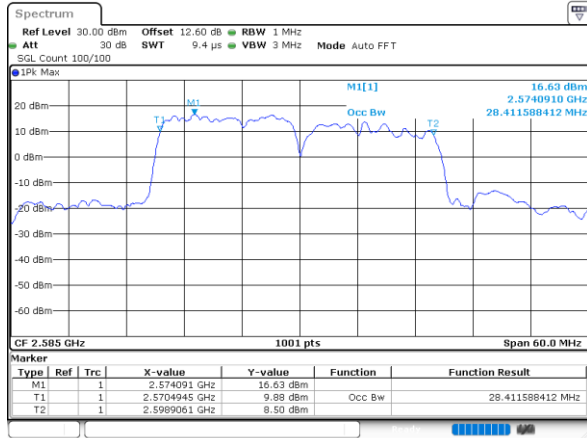




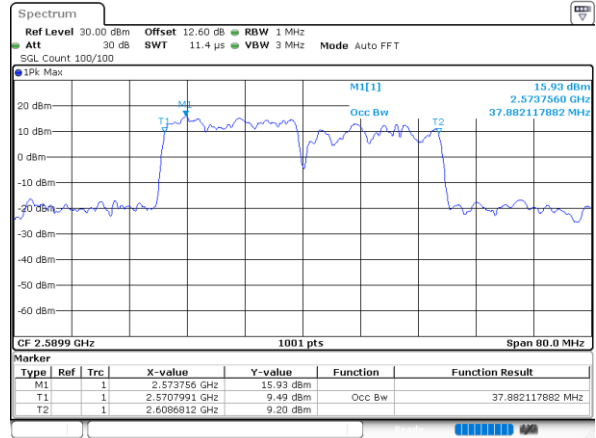
## LTE Band 38C

## 64QAM

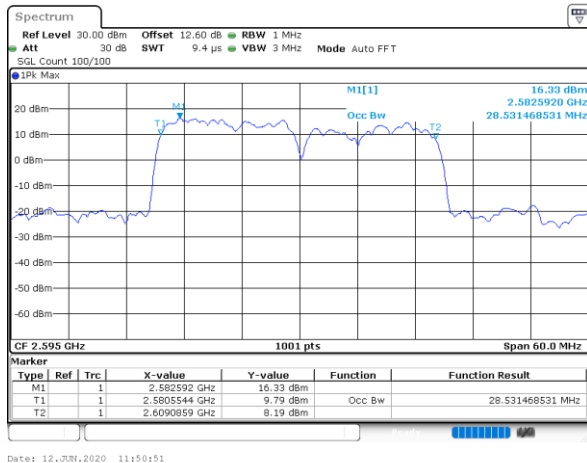
## Lowest Channel / 15MHz+15MHz



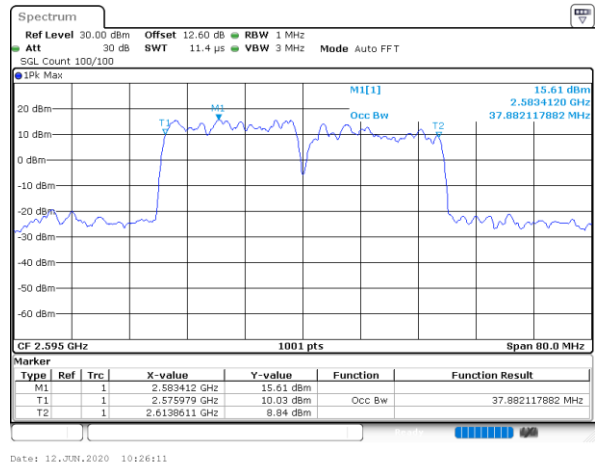
## Lowest Channel / 20MHz+20MHz



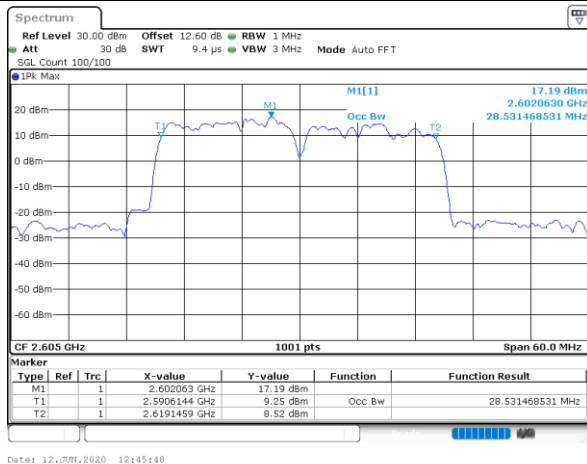
## Middle Channel / 15MHz+15MHz



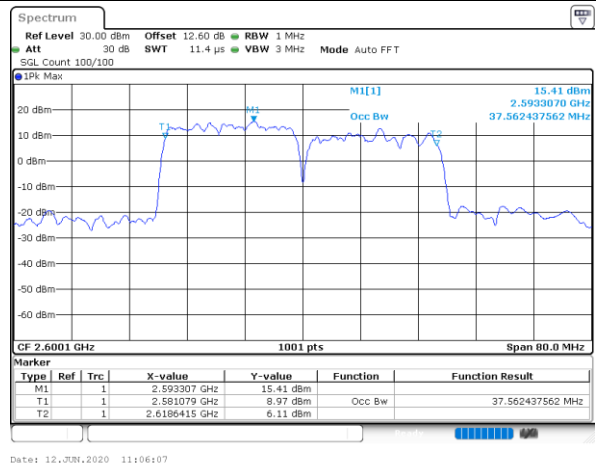
## Middle Channel / 20MHz+20MHz



## Highest Channel / 15MHz+15MHz



## Highest Channel / 20MHz+20MHz



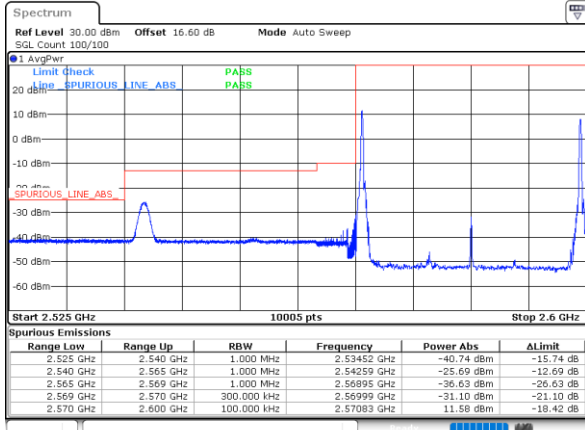


# Conducted Band Edge

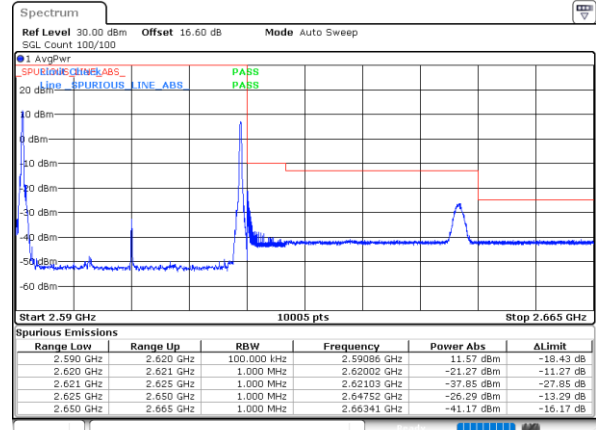
## LTE Band 38C / 15MHz+15MHz

### QPSK

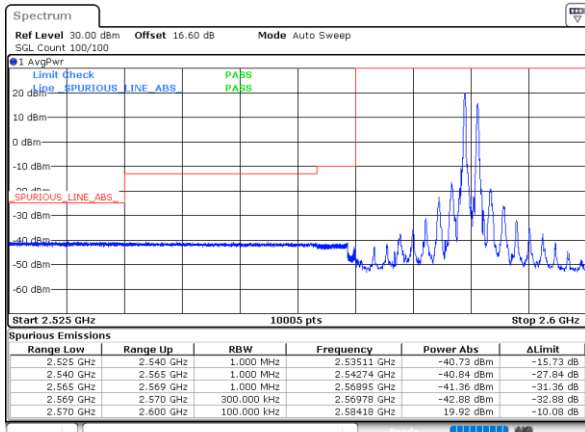
#### Lowest Band Edge / 1RB0 and 1RB74



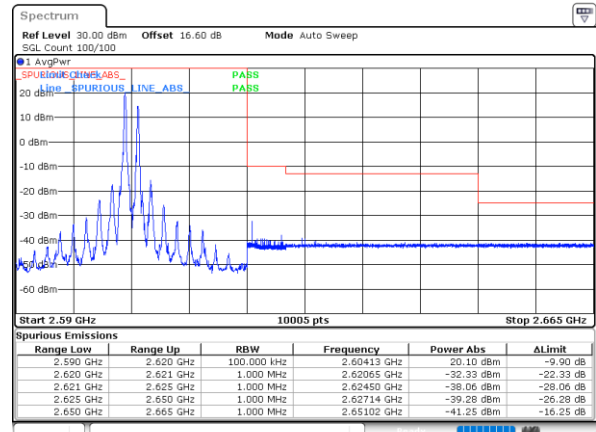
#### Highest Band Edge / 1RB0 and 1RB74



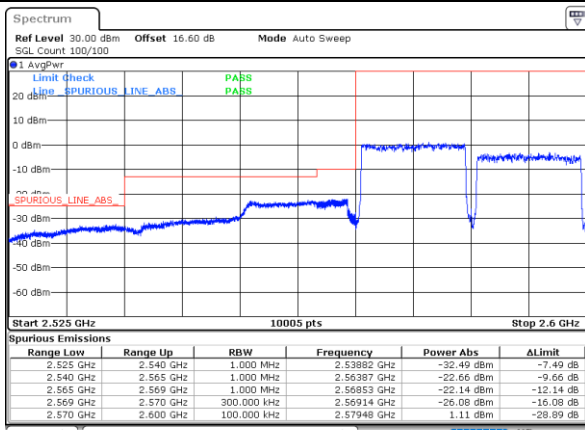
#### Lowest Band Edge / 1RB74 and 1RB0



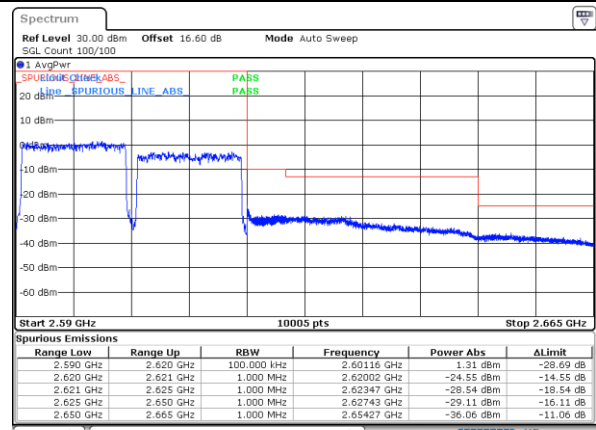
#### Highest Band Edge / 1RB74 and 1RB0



#### Lowest Band Edge / Full RB



#### Highest Band Edge / Full RB

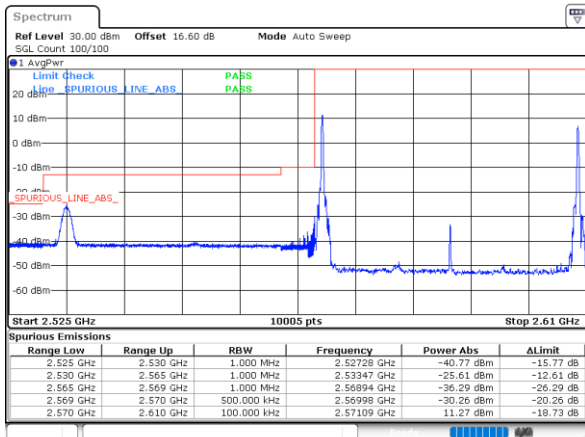




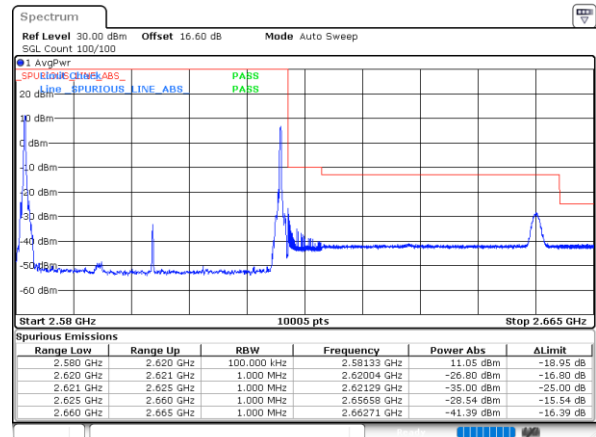
## LTE Band 38C / 20MHz+20MHz

## QPSK

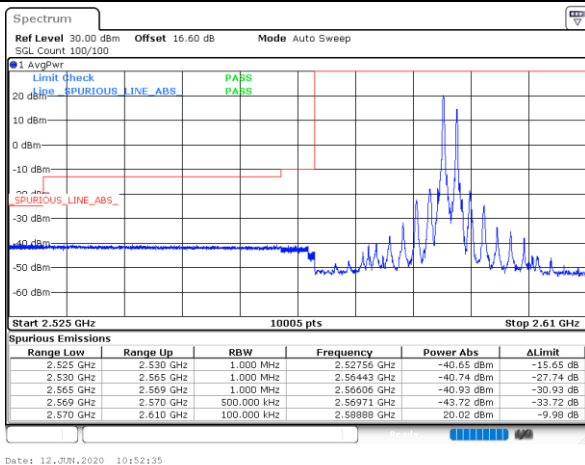
## Lowest Band Edge / 1RB0 and 1RB99



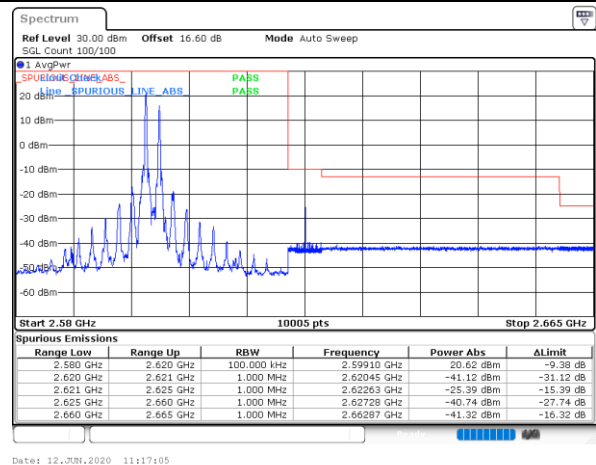
## Highest Band Edge / 1RB0 and 1RB99



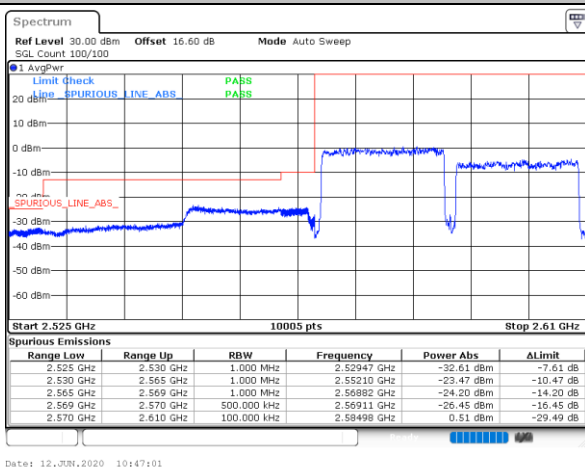
## Lowest Band Edge / 1RB99 and 1RB0



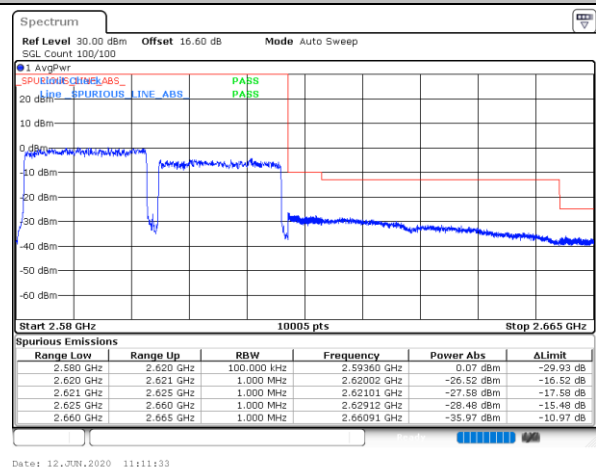
## Highest Band Edge / 1RB99 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

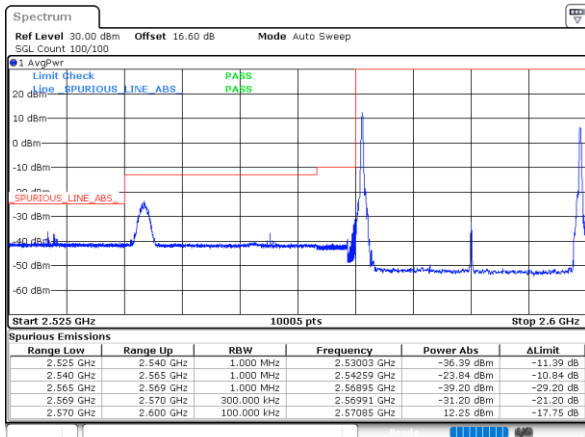




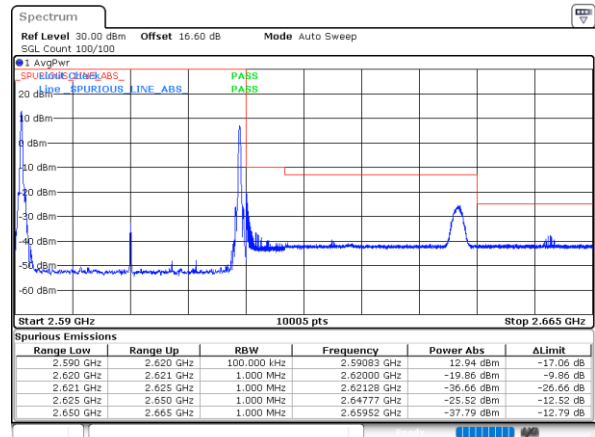
## LTE Band 38C / 15MHz+15MHz

## 16QAM

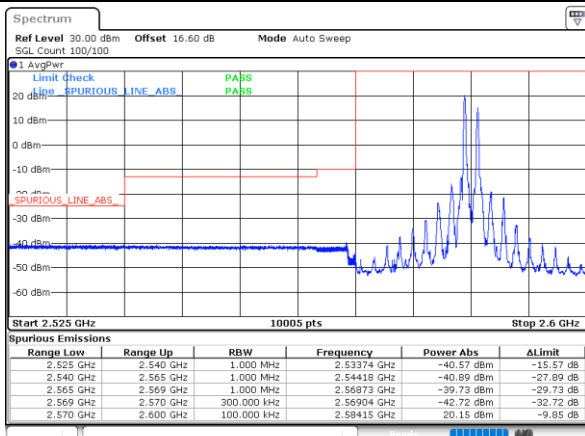
## Lowest Band Edge / 1RB0 and 1RB74



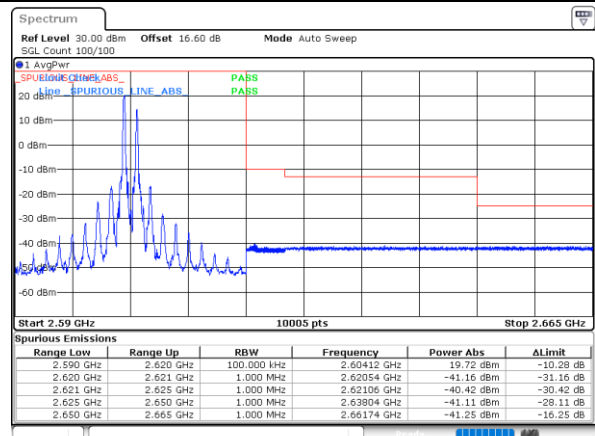
## Highest Band Edge / 1RB0 and 1RB74



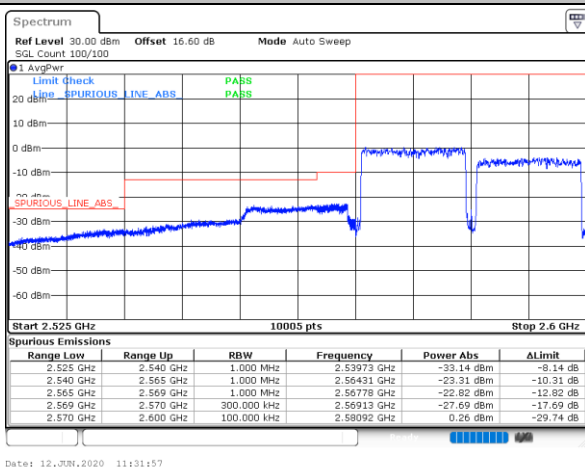
## Lowest Band Edge / 1RB74 and 1RB0



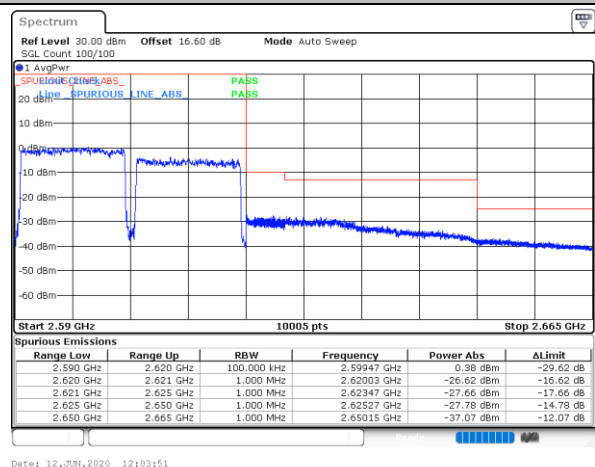
## Highest Band Edge / 1RB74 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

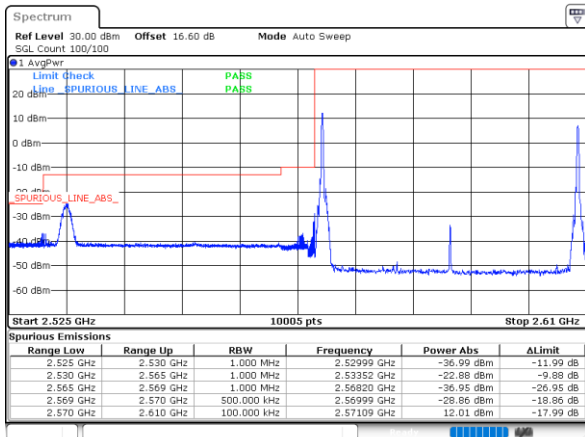




## LTE Band 38C / 20MHz+20MHz

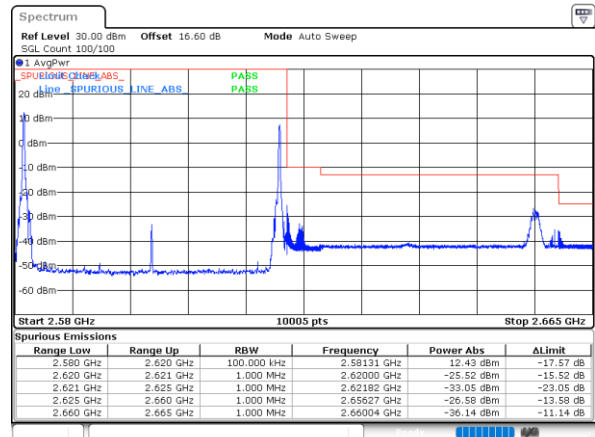
## 16QAM

## Lowest Band Edge / 1RB0 and 1RB99



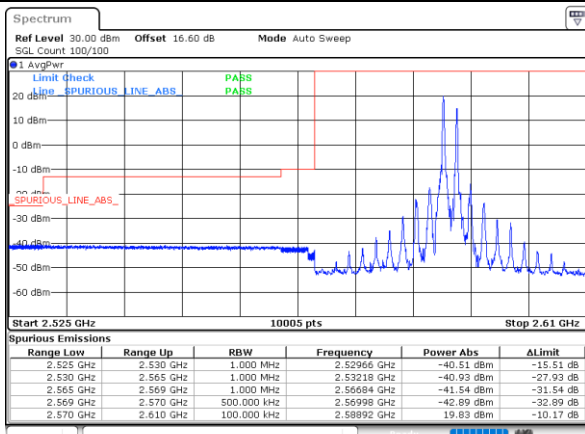
Date: 12 JUN 2020 10:50:44

## Highest Band Edge / 1RB0 and 1RB99



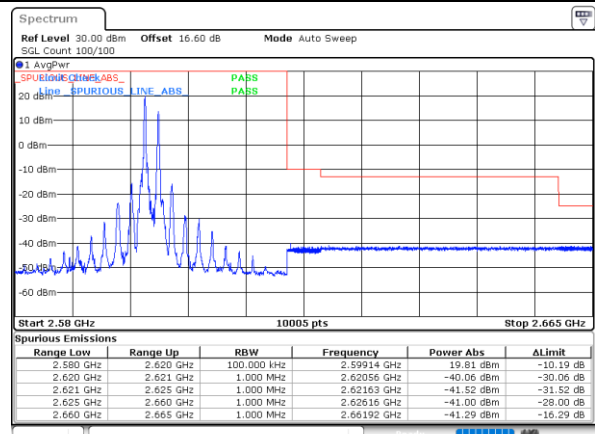
Date: 12 JUN 2020 11:13:24

## Lowest Band Edge / 1RB99 and 1RB0



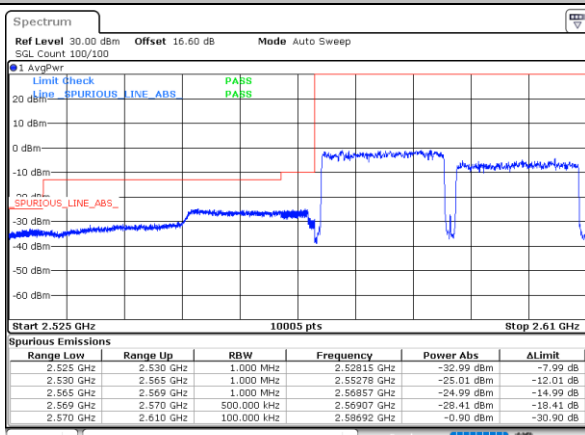
Date: 12 JUN 2020 10:53:31

## Highest Band Edge / 1RB99 and 1RB0



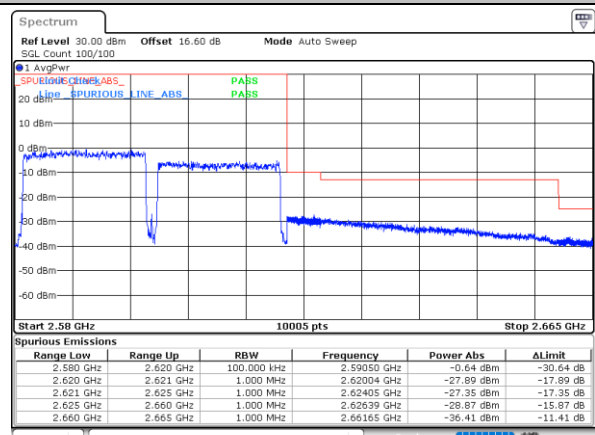
Date: 12 JUN 2020 11:16:09

## Lowest Band Edge / Full RB



Date: 12 JUN 2020 10:47:57

## Highest Band Edge / Full RB



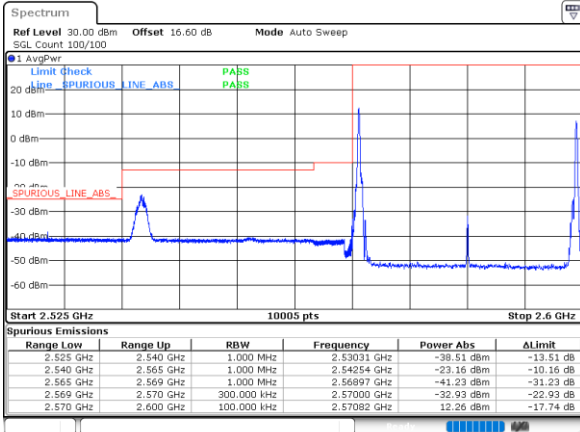
Date: 12 JUN 2020 11:10:37



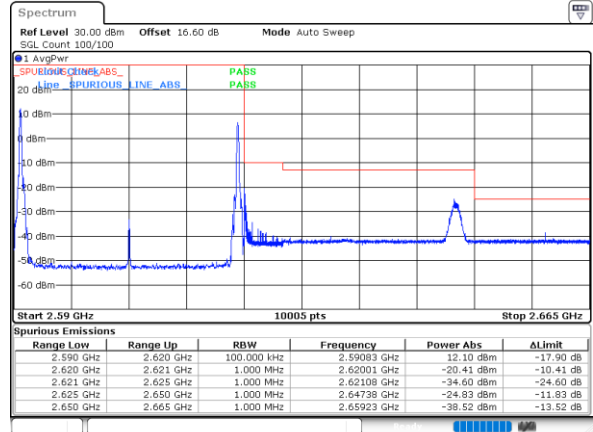
## LTE Band 38C / 15MHz+15MHz

## 64QAM

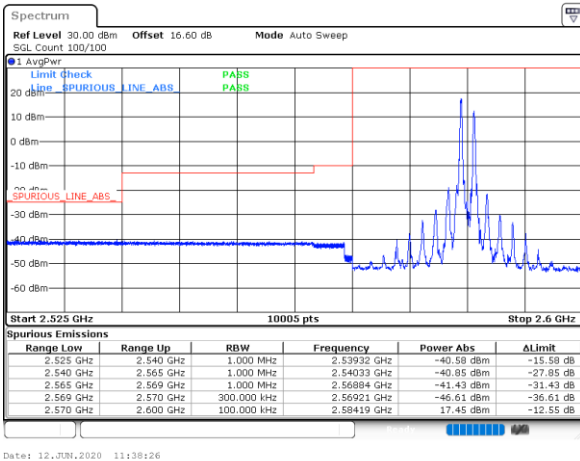
## Lowest Band Edge / 1RB0 and 1RB74



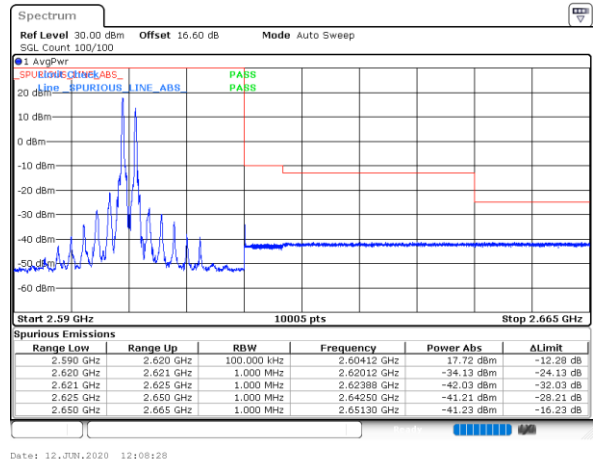
## Highest Band Edge / 1RB0 and 1RB74



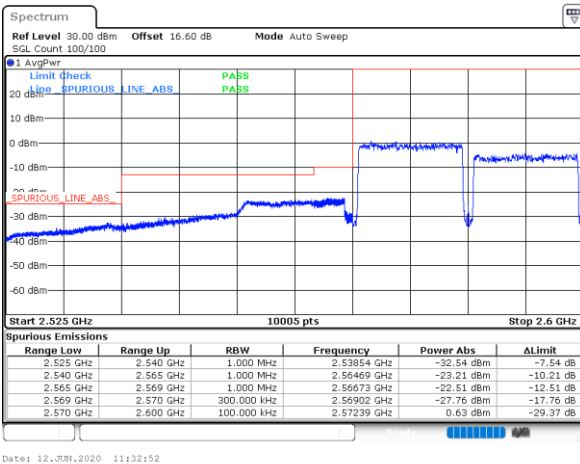
## Lowest Band Edge / 1RB74 and 1RB0



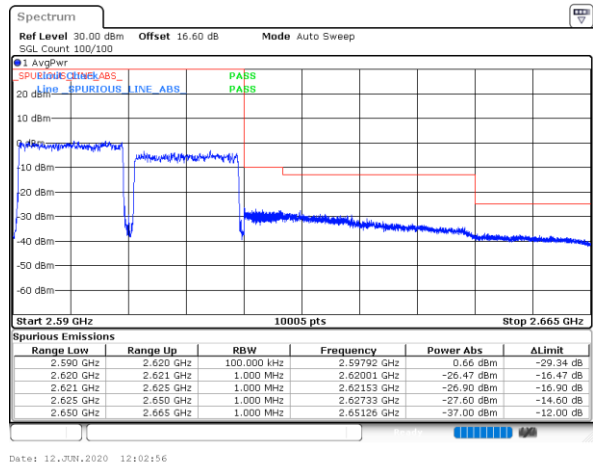
## Highest Band Edge / 1RB74 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

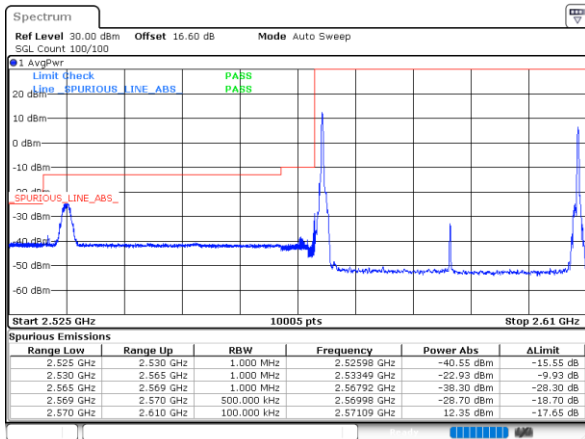




## LTE Band 38C / 20MHz+20MHz

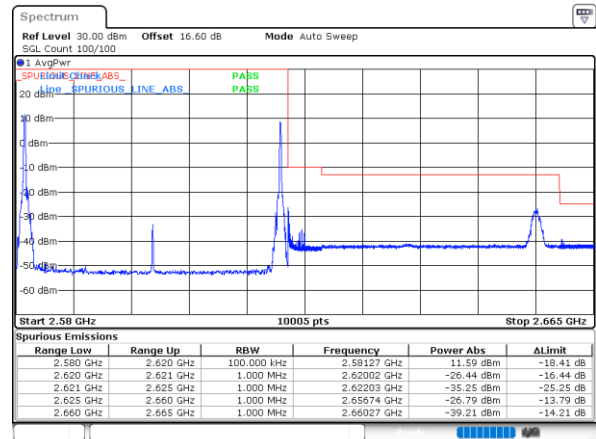
## 64QAM

## Lowest Band Edge / 1RB0 and 1RB99



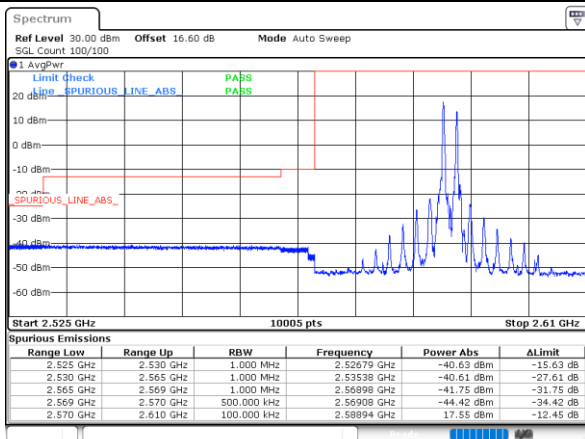
Date: 12 JUN 2020 10:49:48

## Highest Band Edge / 1RB0 and 1RB99



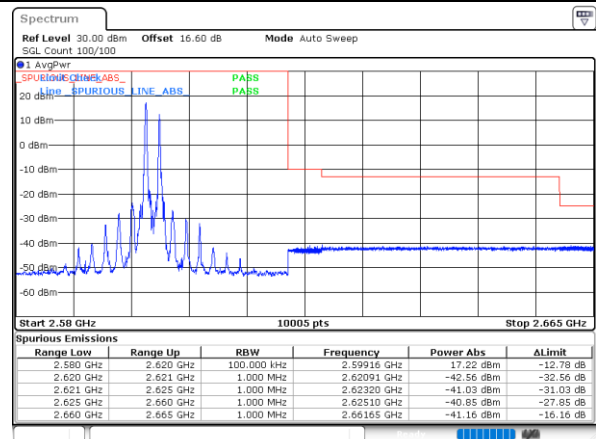
Date: 12 JUN 2020 11:14:19

## Lowest Band Edge / 1RB99 and 1RB0



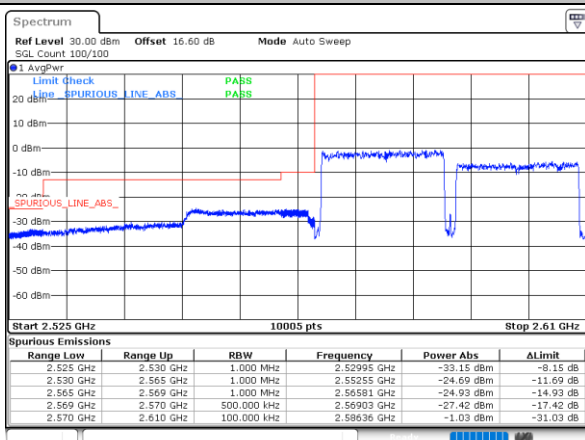
Date: 12 JUN 2020 10:54:26

## Highest Band Edge / 1RB99 and 1RB0



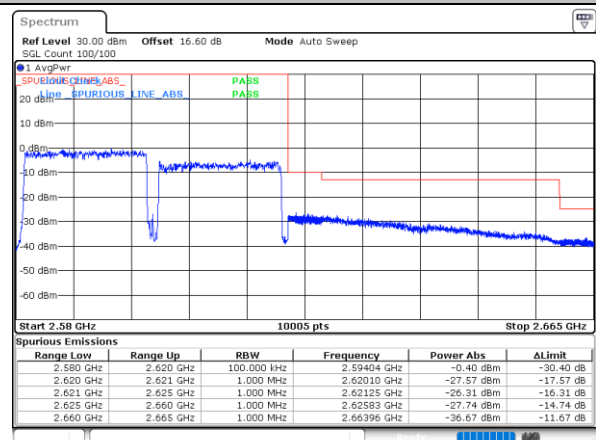
Date: 12 JUN 2020 11:15:14

## Lowest Band Edge / Full RB



Date: 12 JUN 2020 10:48:52

## Highest Band Edge / Full RB



Date: 12 JUN 2020 11:09:42