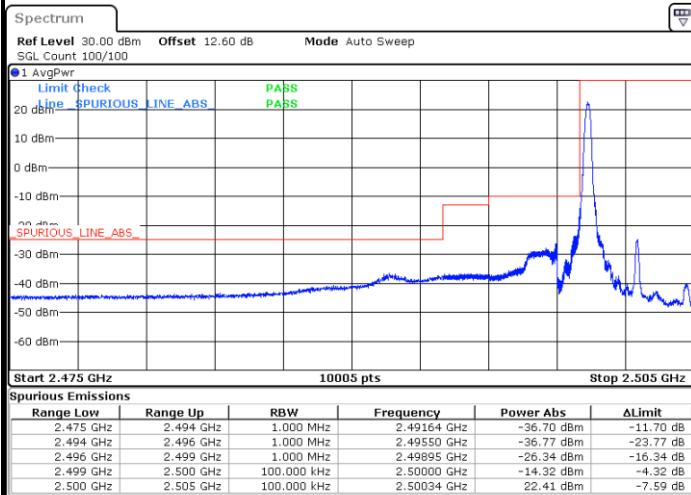


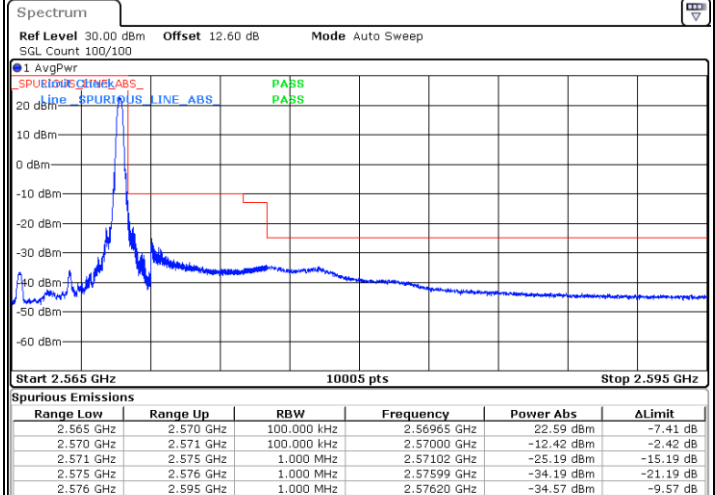


## LTE Band 7 / 5MHz / 16QAM

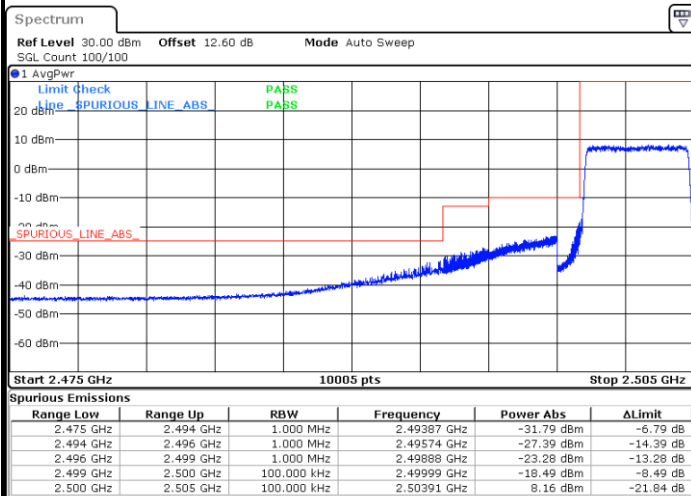
## Lowest Band Edge / 1RB



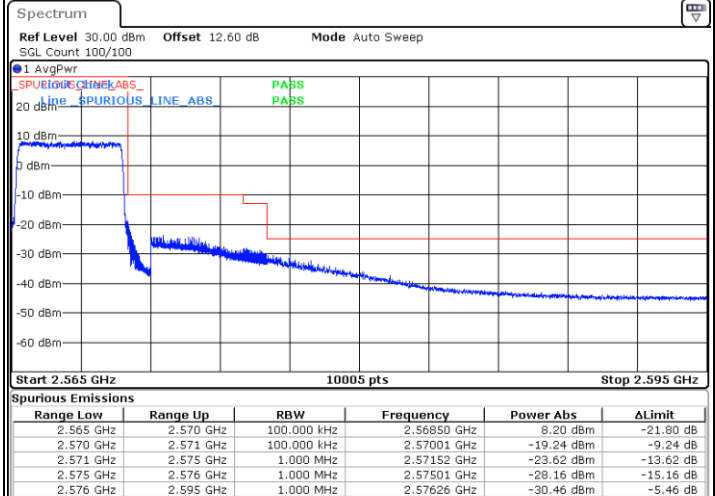
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



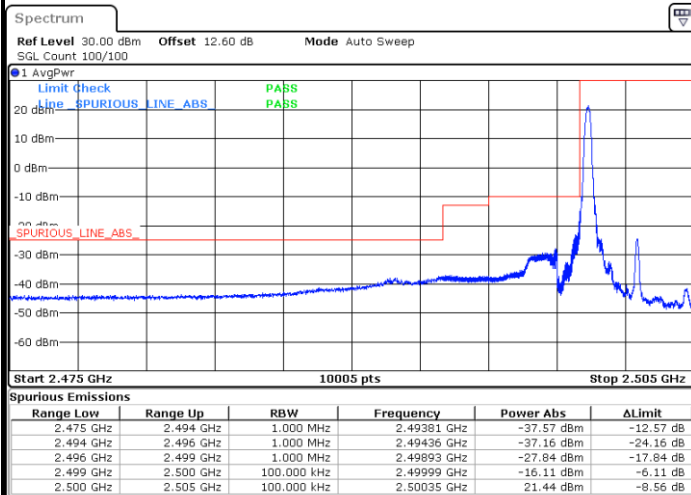
## Highest Band Edge / Full RB



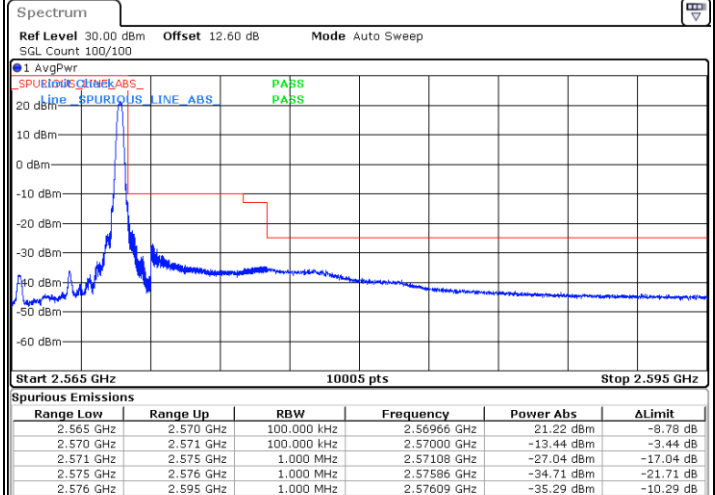


## LTE Band 7 / 5MHz / 64QAM

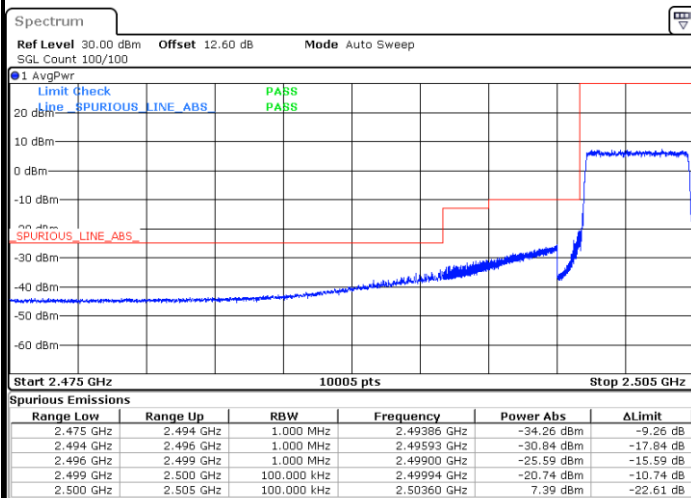
## Lowest Band Edge / 1RB



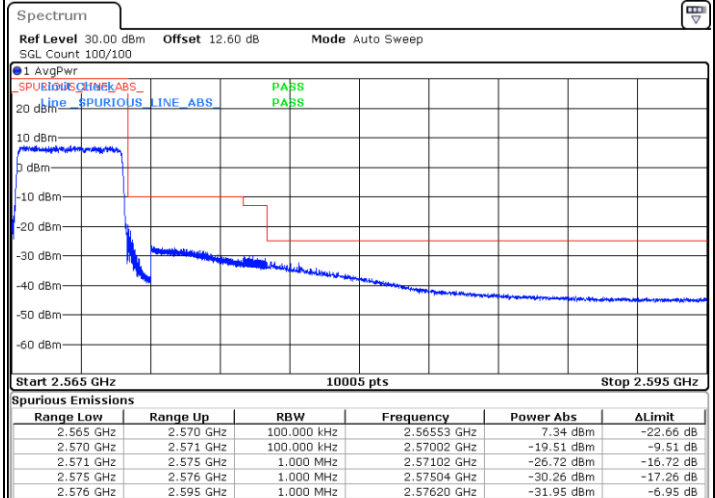
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



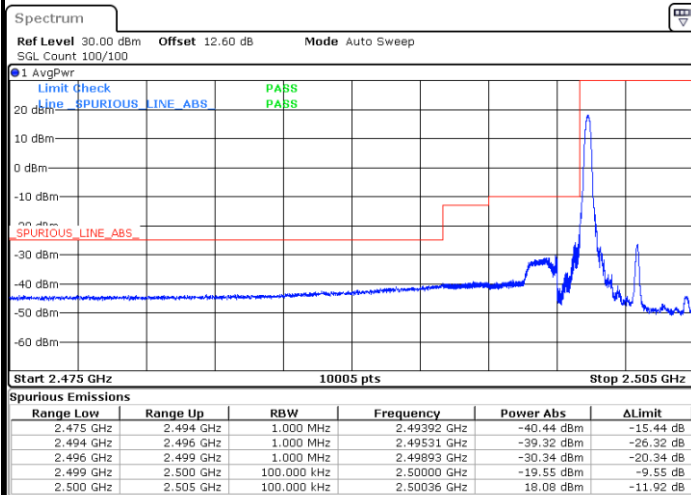
## Highest Band Edge / Full RB



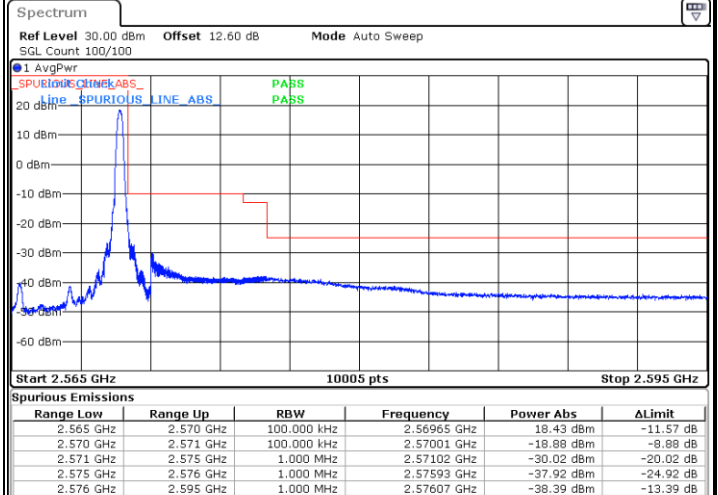


## LTE Band 7 / 5MHz / 256QAM

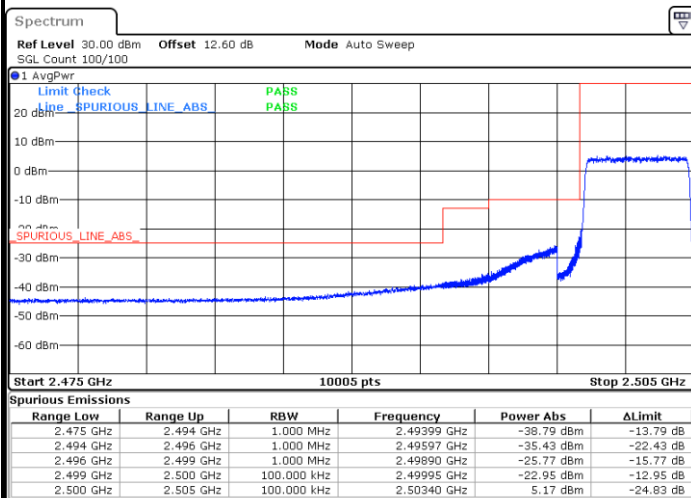
## Lowest Band Edge / 1RB



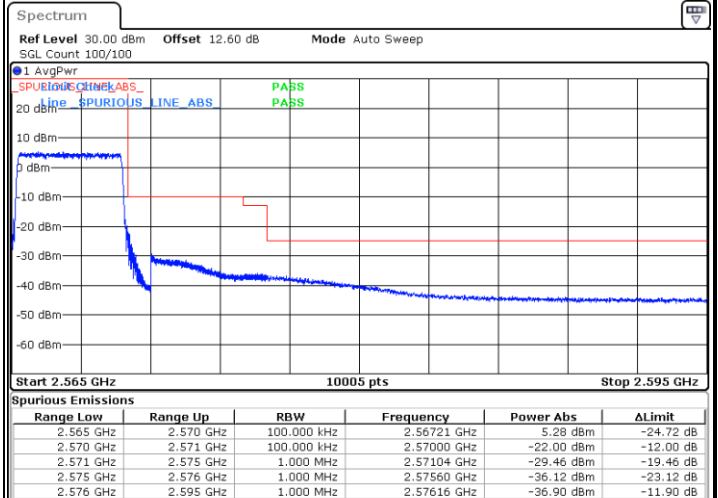
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



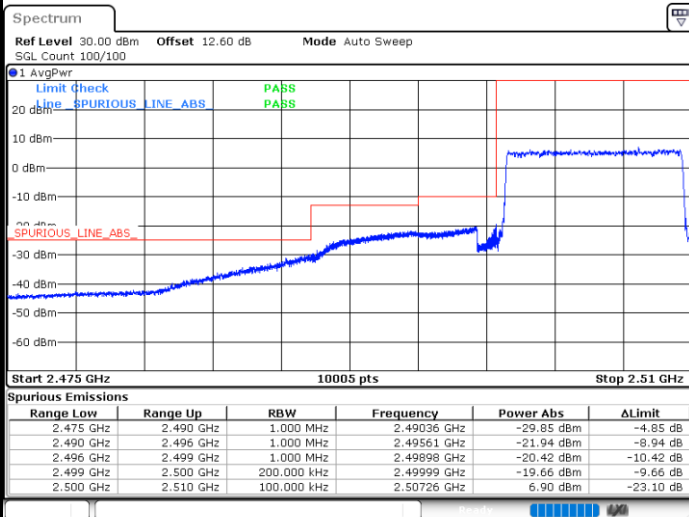
## Highest Band Edge / Full RB





## LTE Band 7 / 10MHz / QPSK

## Lowest Band Edge / Full RB

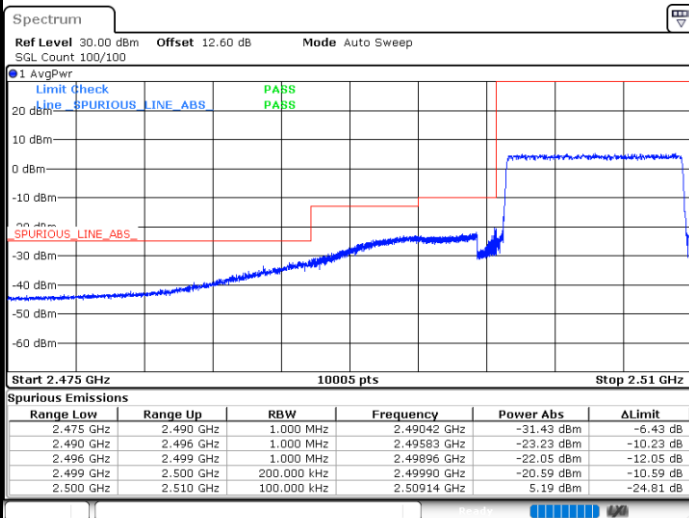


## Highest Band Edge / Full RB

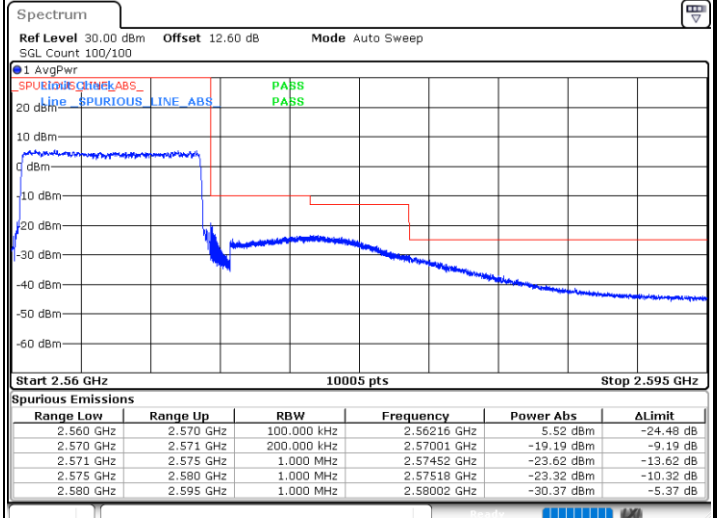


## LTE Band 7 / 10MHz / 16QAM

## Lowest Band Edge / Full RB



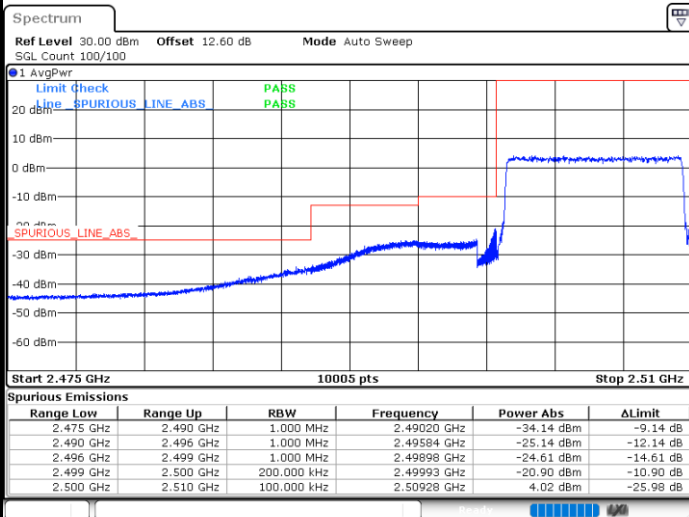
## Highest Band Edge / Full RB



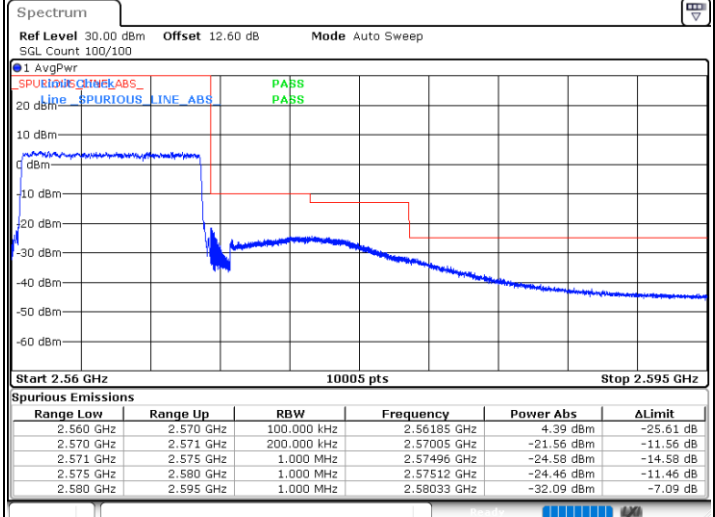


## LTE Band 7 / 10MHz / 64QAM

## Lowest Band Edge / Full RB

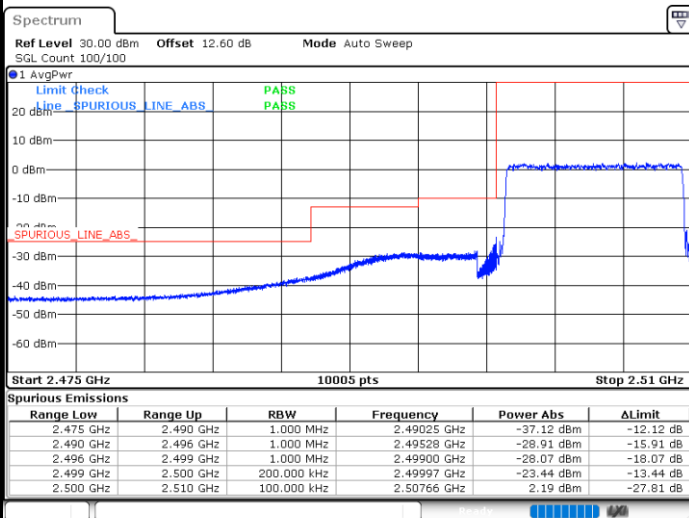


## Highest Band Edge / Full RB

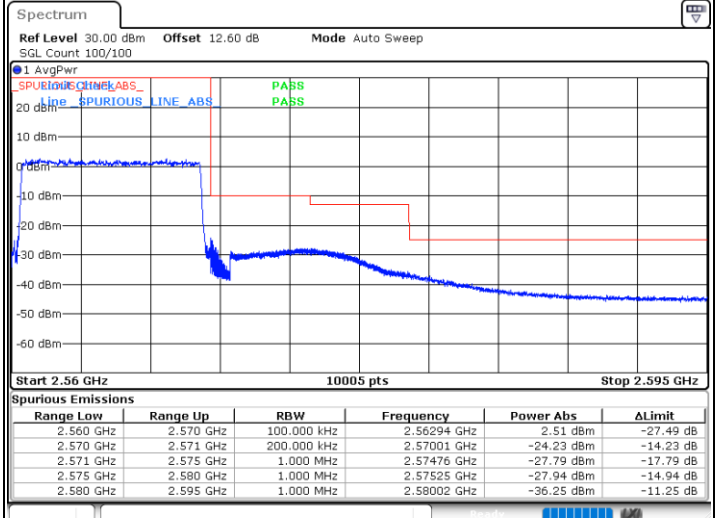


## LTE Band 7 / 10MHz / 256QAM

## Lowest Band Edge / Full RB



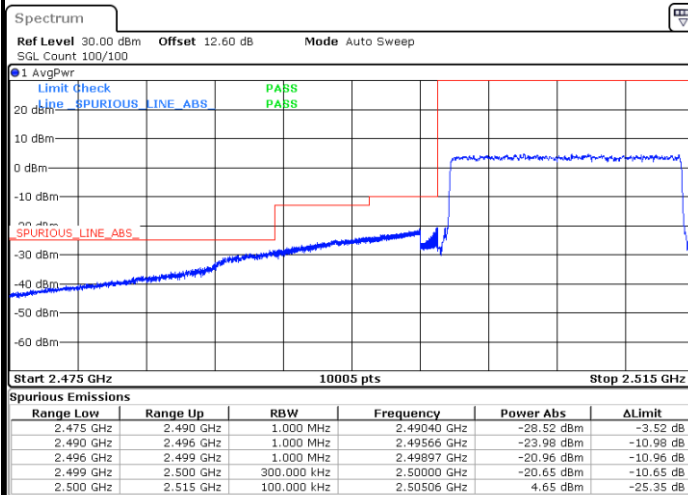
## Highest Band Edge / Full RB



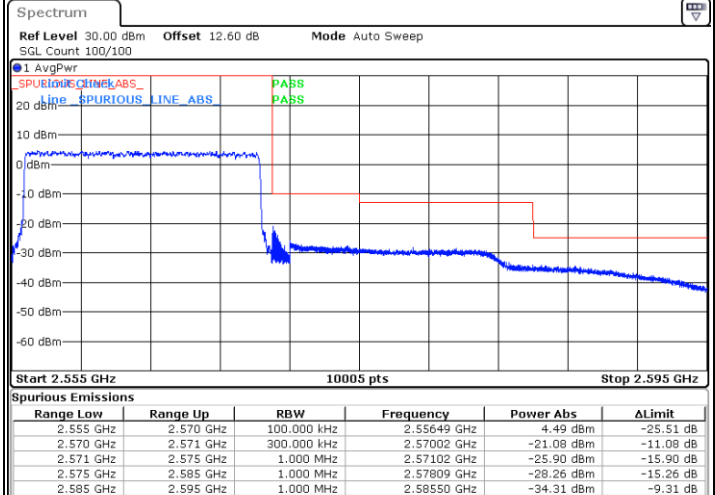


## LTE Band 7 / 15MHz / QPSK

## Lowest Band Edge / Full RB

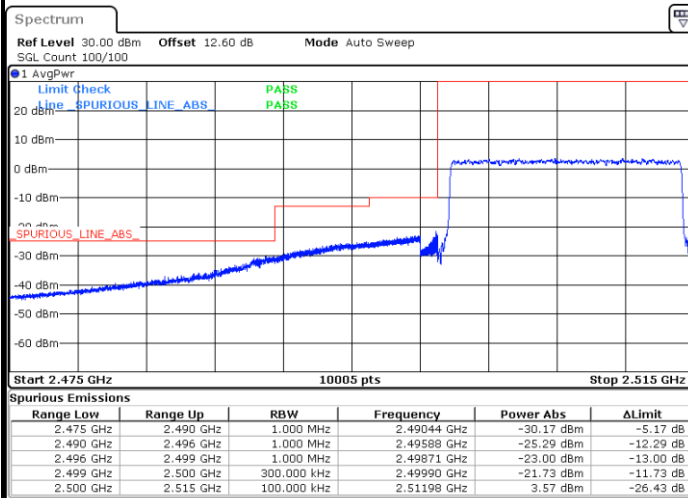


## Highest Band Edge / Full RB

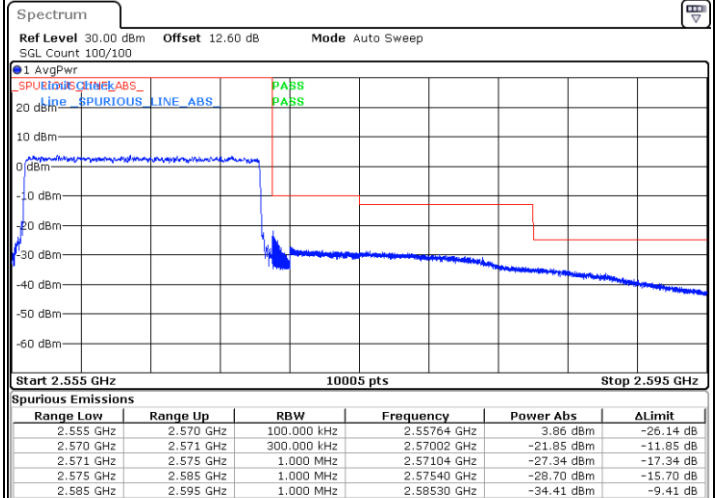


## LTE Band 7 / 15MHz / 16QAM

## Lowest Band Edge / Full RB



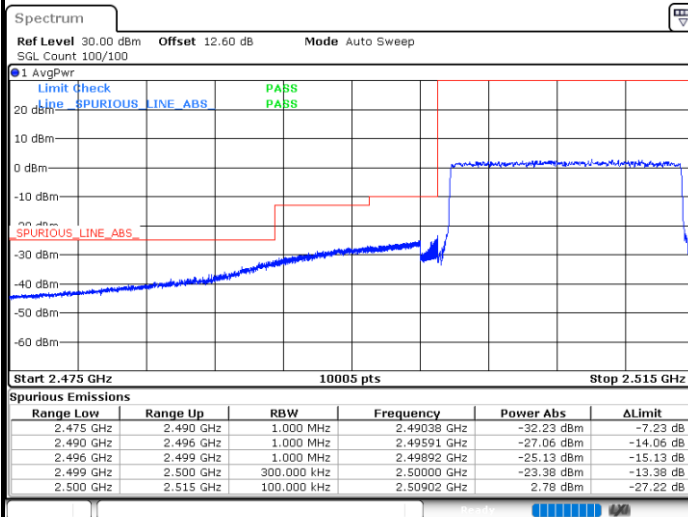
## Highest Band Edge / Full RB



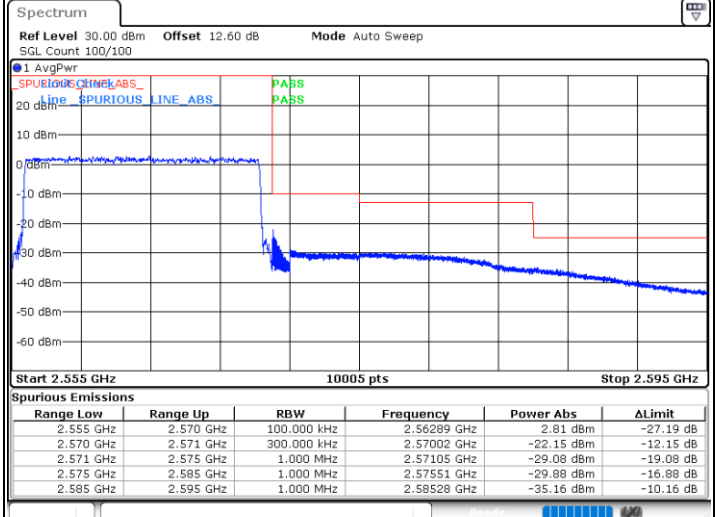


## LTE Band 7 / 15MHz / 64QAM

## Lowest Band Edge / Full RB

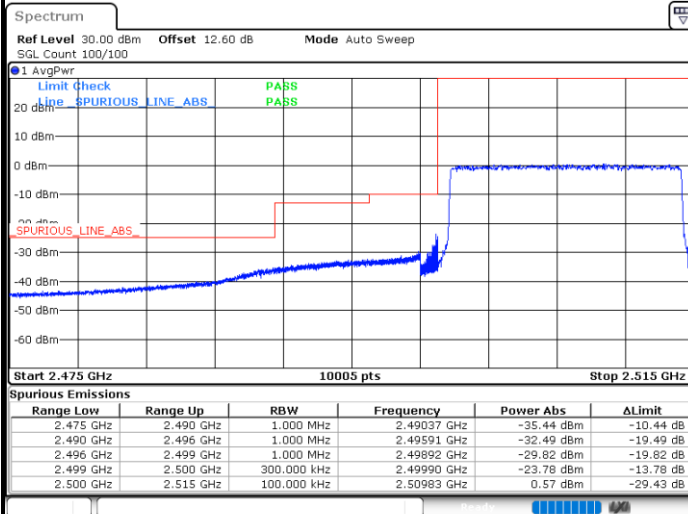


## Highest Band Edge / Full RB

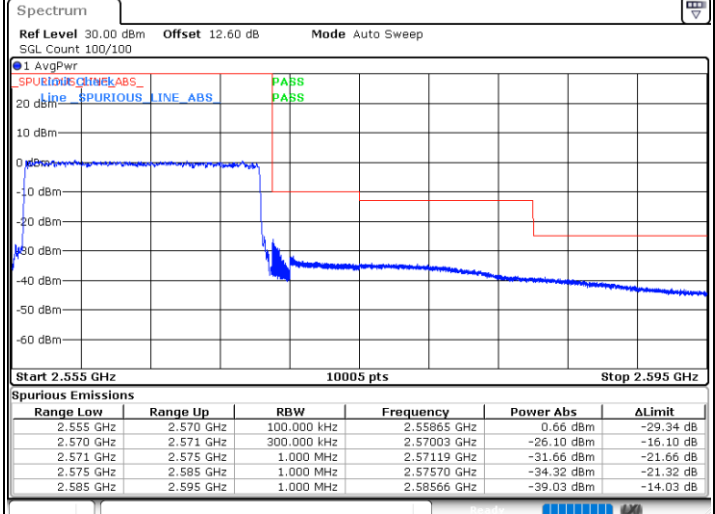


## LTE Band 7 / 15MHz / 256QAM

## Lowest Band Edge / Full RB



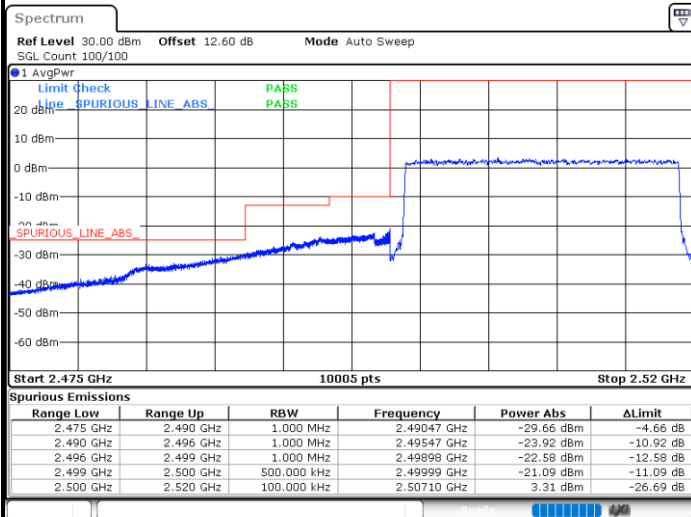
## Highest Band Edge / Full RB



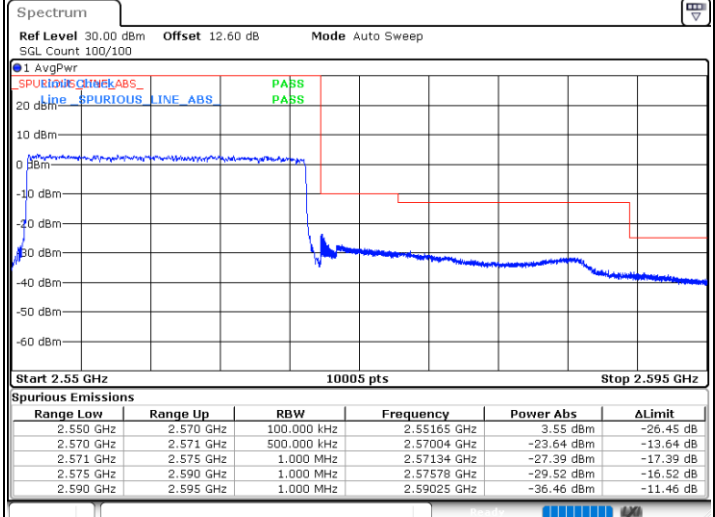


## LTE Band 7 / 20MHz / QPSK

## Lowest Band Edge / Full RB

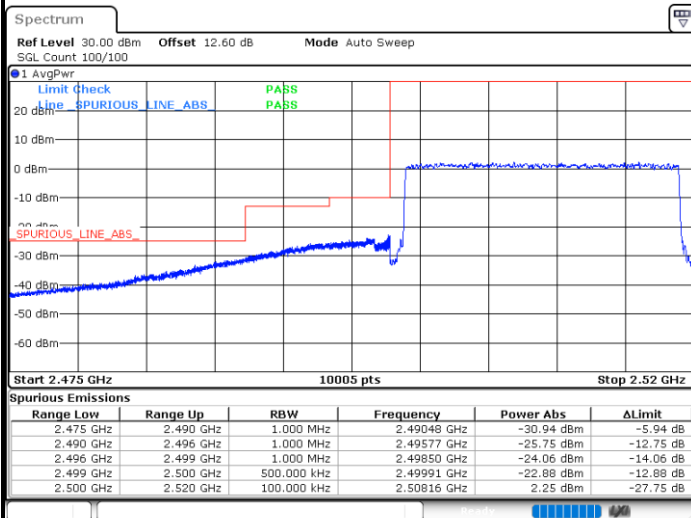


## Highest Band Edge / Full RB

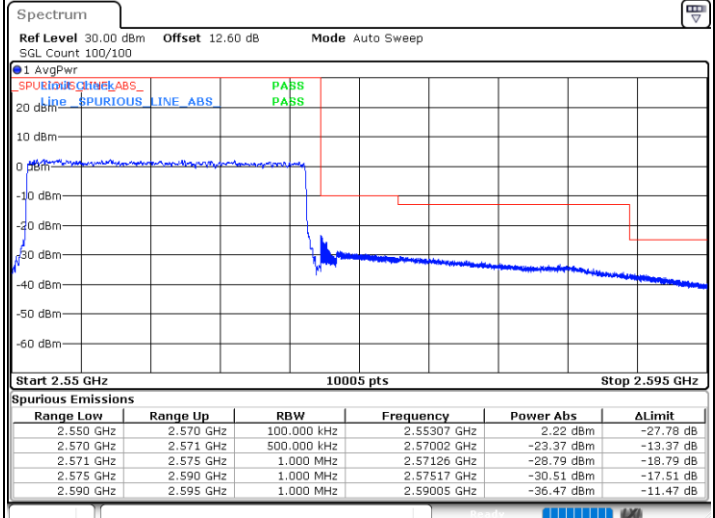


## LTE Band 7 / 20MHz / 16QAM

## Lowest Band Edge / Full RB



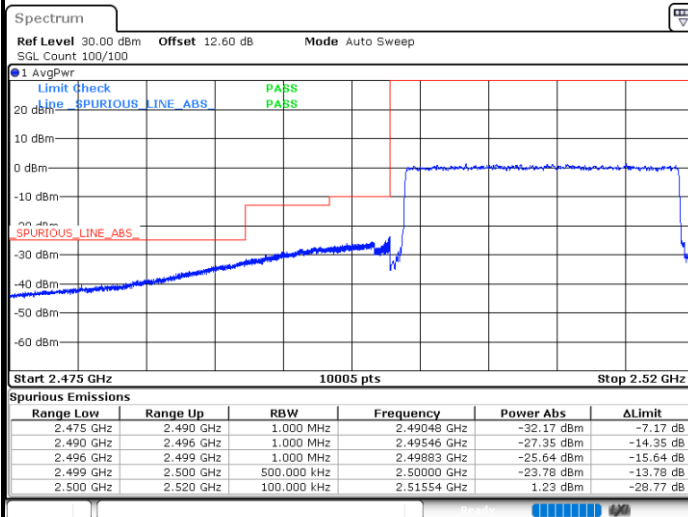
## Highest Band Edge / Full RB



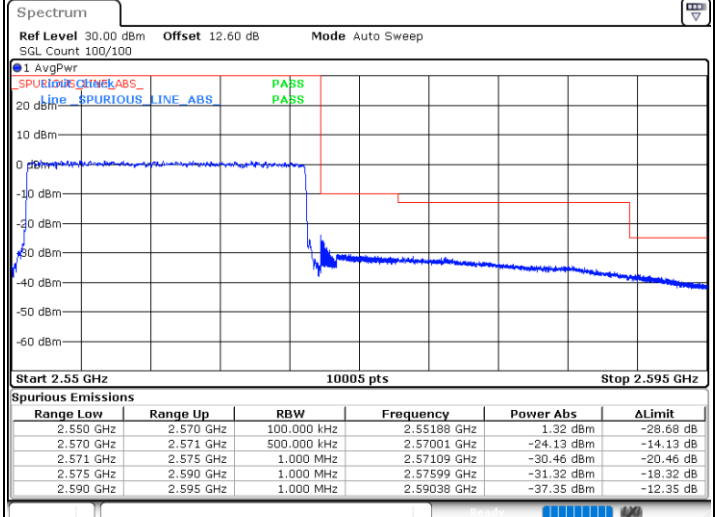


## LTE Band 7 / 20MHz / 64QAM

## Lowest Band Edge / Full RB

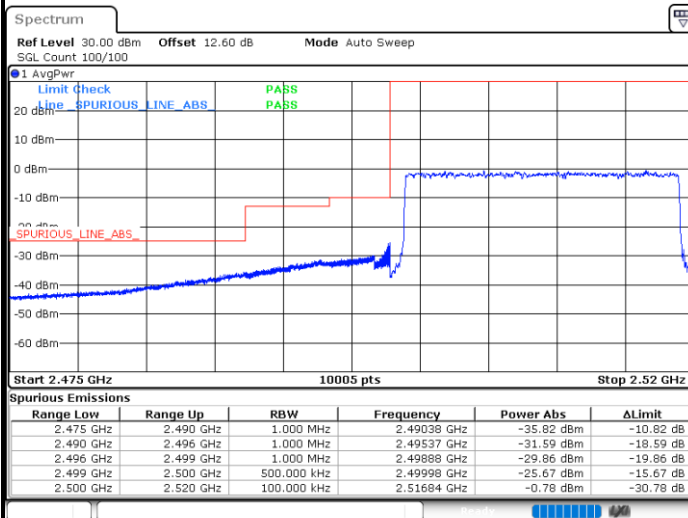


## Highest Band Edge / Full RB

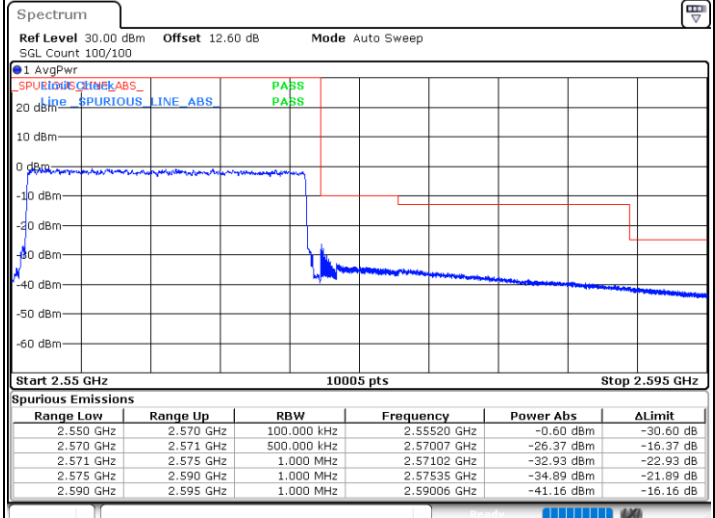


## LTE Band 7 / 20MHz / 256QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

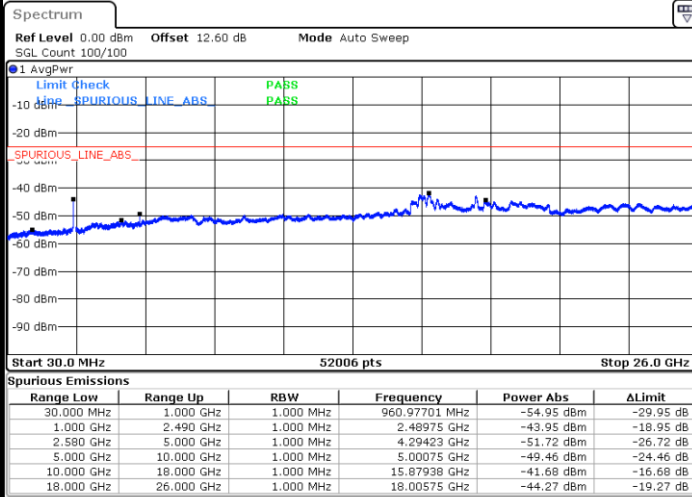




# Conducted Spurious Emission

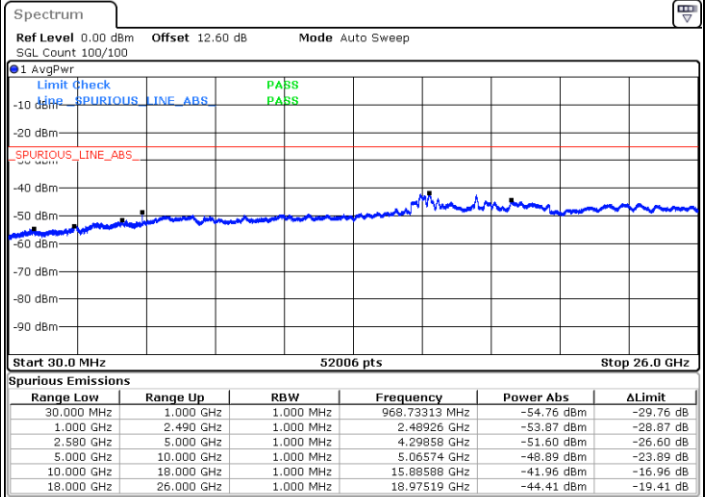
## LTE Band 7 / 5MHz

### Lowest Channel / QPSK



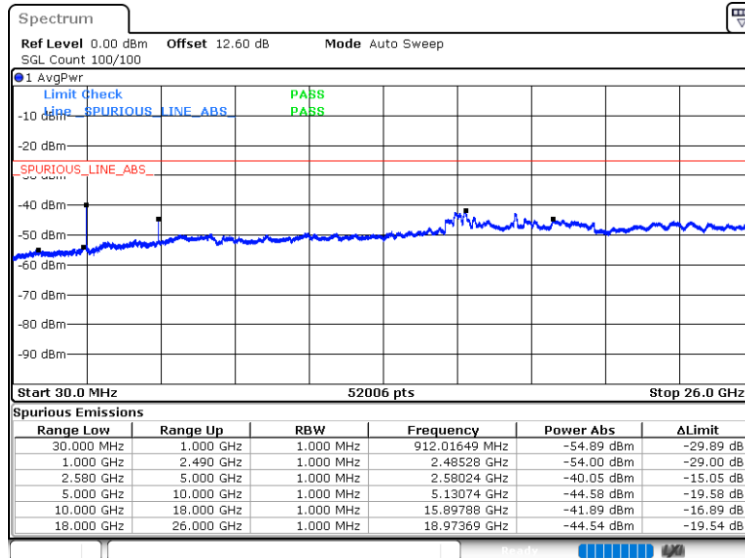
Date: 30.MAY.2025 01:41:36

### Middle Channel / QPSK



Date: 30.MAY.2025 01:43:44

### Highest Channel / QPSK

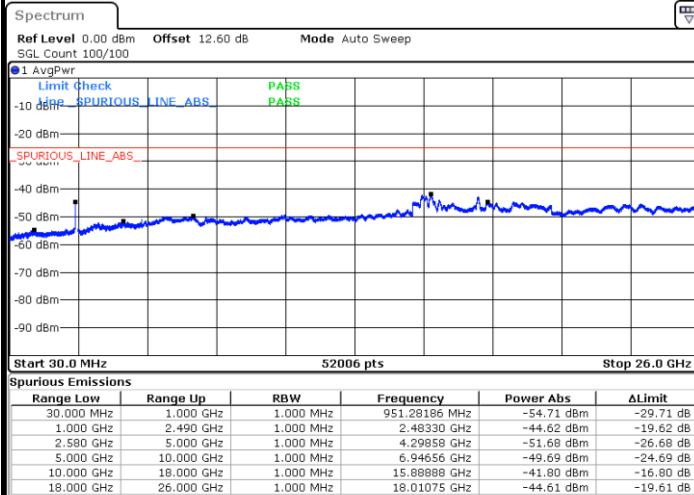


Date: 30.MAY.2025 01:45:36



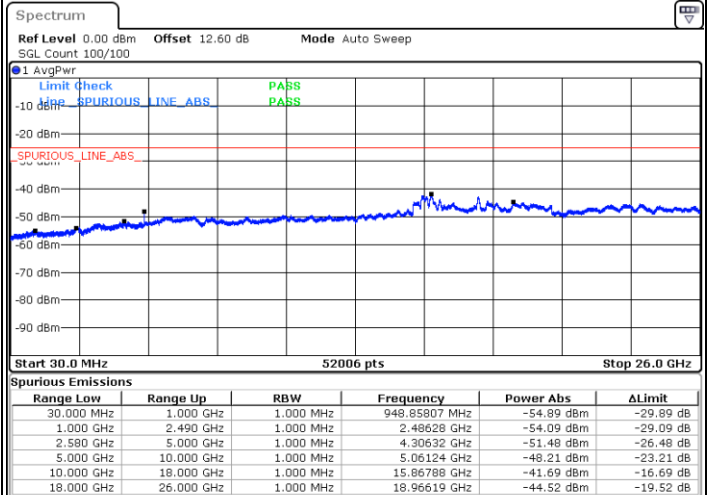
## LTE Band 7 / 10MHz

## Lowest Channel / QPSK



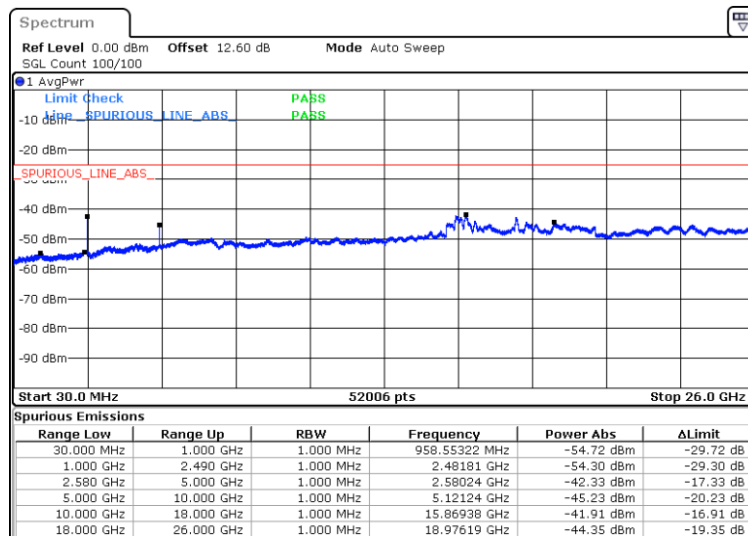
Date: 30.MAY.2025 01:47:32

## Middle Channel / QPSK



Date: 30.MAY.2025 01:49:29

## Highest Channel / QPSK

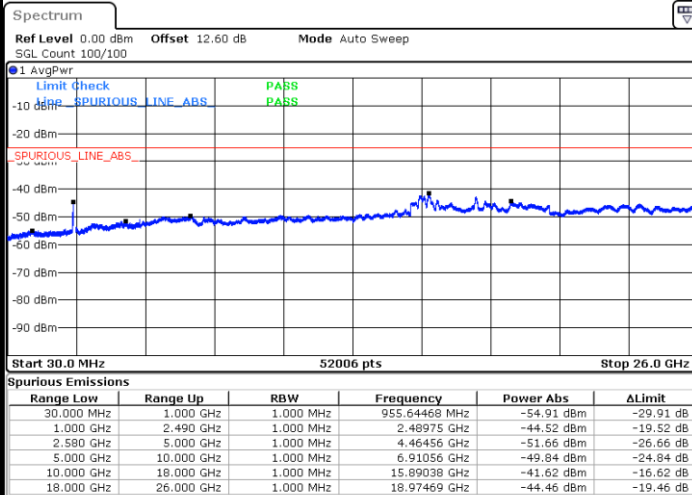


Date: 30.MAY.2025 01:51:07



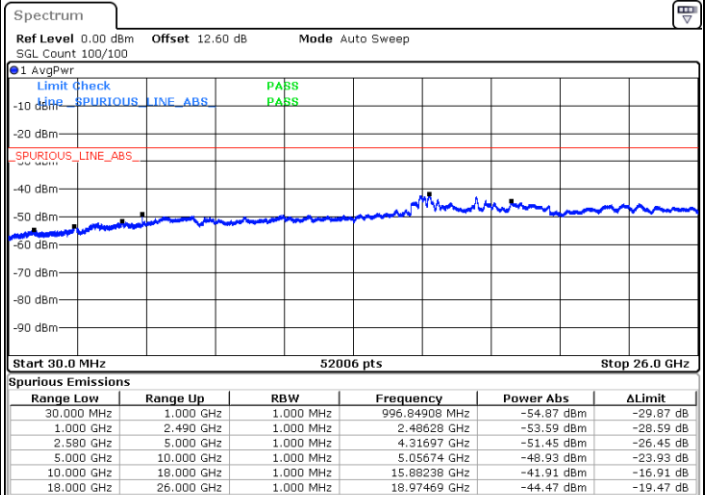
## LTE Band 7 / 15MHz

## Lowest Channel / QPSK



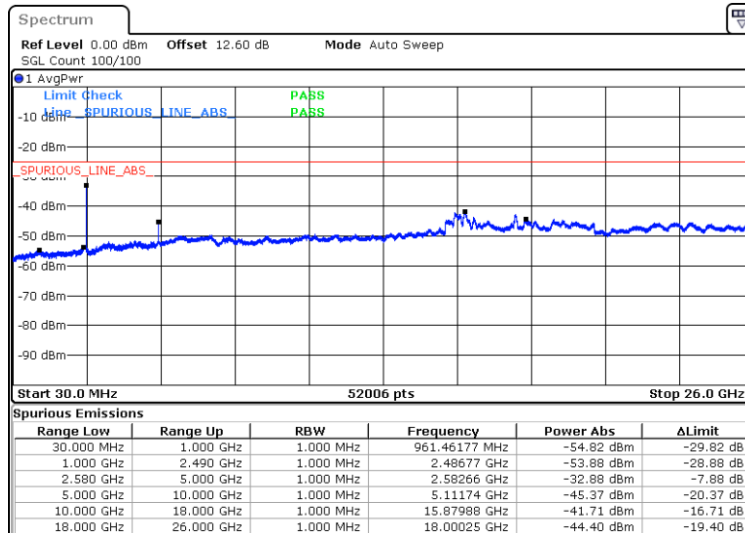
Date: 30.MAY.2025 01:53:20

## Middle Channel / QPSK



Date: 30.MAY.2025 01:55:21

## Highest Channel / QPSK

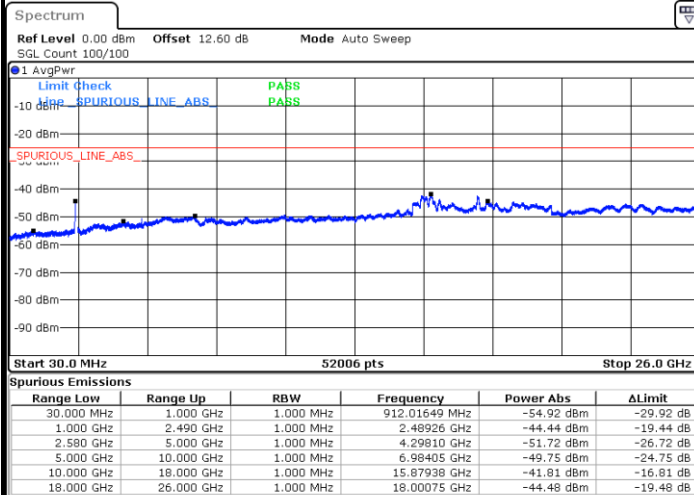


Date: 30.MAY.2025 01:57:16



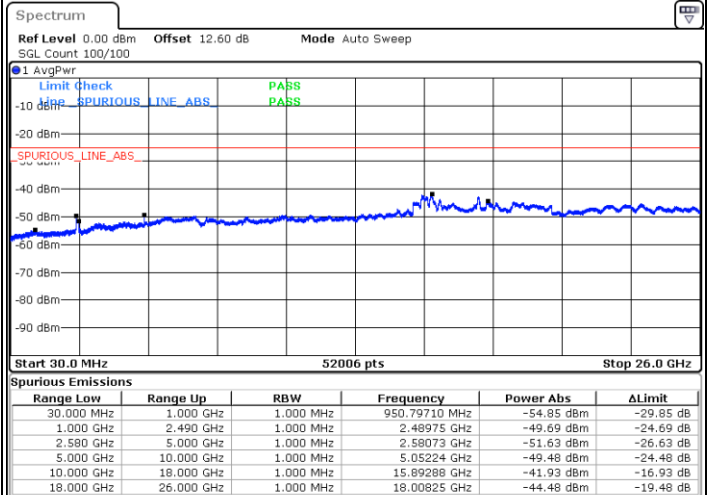
## LTE Band 7 / 20MHz

## Lowest Channel / QPSK



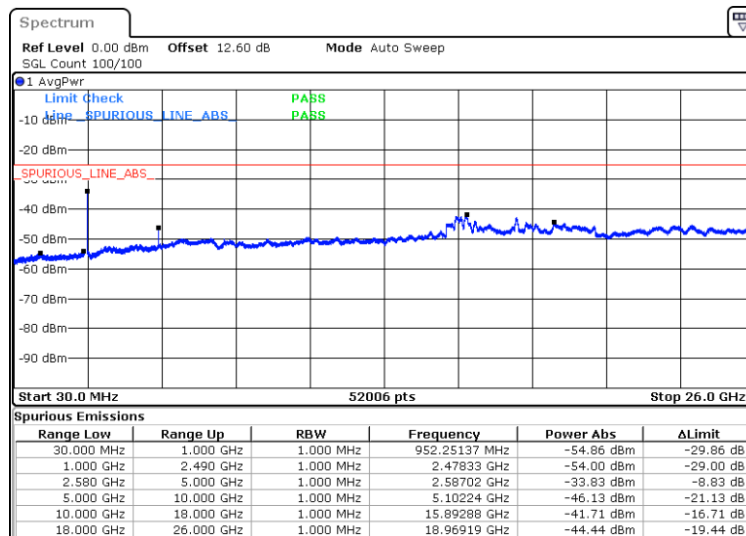
Date: 30.MAY.2025 01:59:18

## Middle Channel / QPSK



Date: 30.MAY.2025 02:01:22

## Highest Channel / QPSK



Date: 30.MAY.2025 02:03:34

## Frequency Stability

| Test Conditions     |                   | LTE Band 7 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation (ppm)                    | Result  |
| 50                  | Normal Voltage    | 0.0058                             | PASS    |
| 40                  | Normal Voltage    | 0.0056                             |         |
| 30                  | Normal Voltage    | 0.0010                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0049                             |         |
| 0                   | Normal Voltage    | 0.0048                             |         |
| -10                 | Normal Voltage    | 0.0055                             |         |
| -20                 | Normal Voltage    | 0.0021                             |         |
| -30                 | Normal Voltage    | 0.0024                             |         |
| 20                  | Maximum Voltage   | 0.0033                             |         |
| 20                  | Normal Voltage    | 0.0000                             |         |
| 20                  | Minimum Voltage   | 0.0003                             |         |

**Note:**

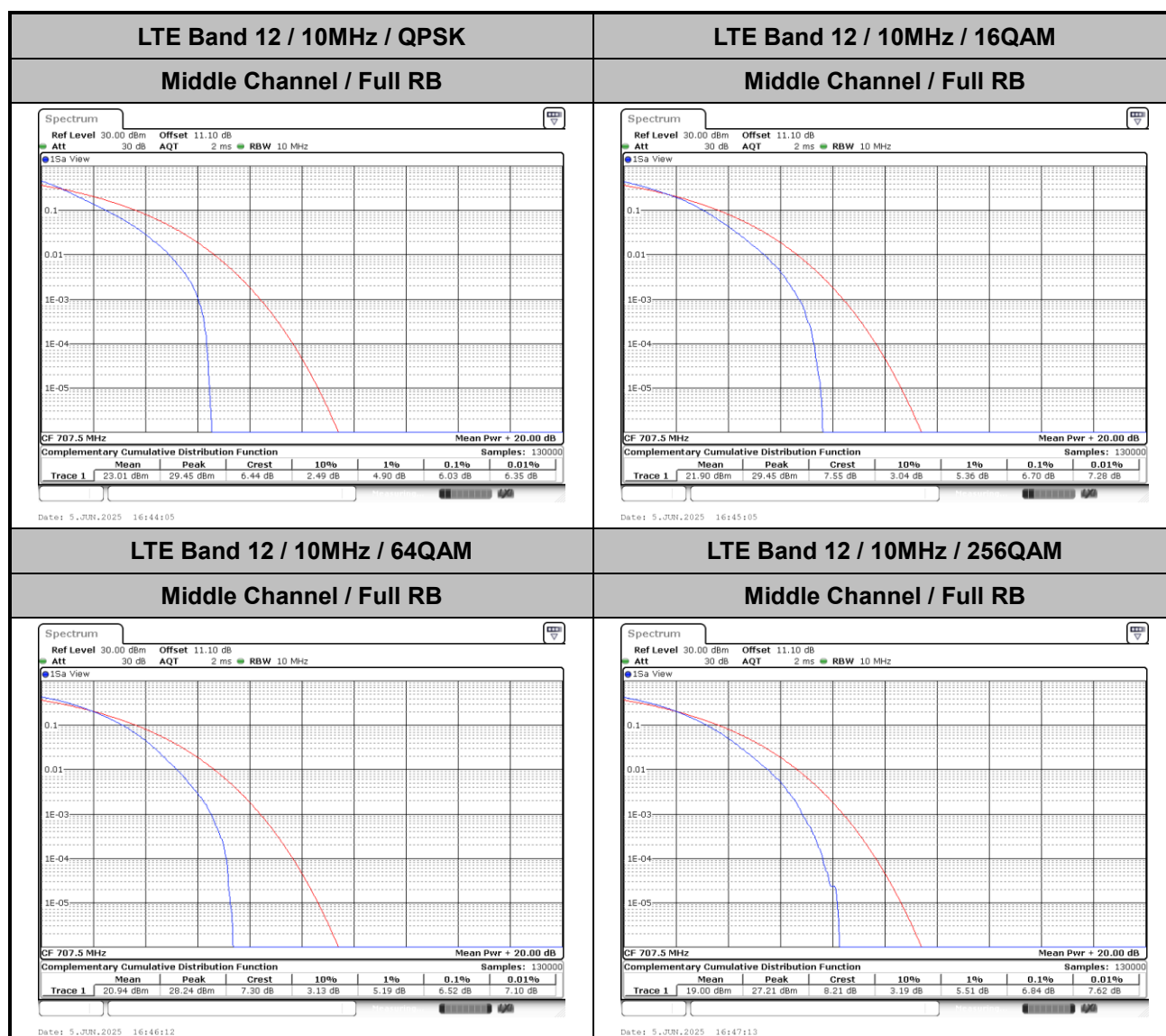
1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

## Peak-to-Average Ratio

| Mode      | LTE Band 12 / 10MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 6.03                | 6.70    | 6.52    | 6.84    | PASS        |



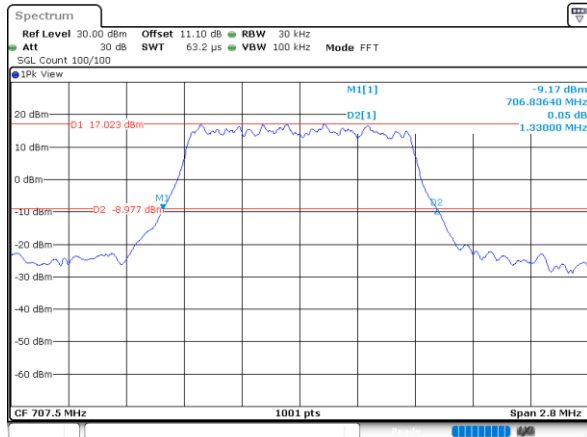
**26dB Bandwidth**

| Mode      | LTE Band 12 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|----------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                       | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 1.33                       | 1.25   | 3.09  | 2.95   | 5.32  | 4.87   | 10.06 | 10.16  | -     | -      | -     | -      |
| Mode      | LTE Band 12 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                     |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                      | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 1.27                       | 1.28   | 3.08  | 3.09   | 4.90  | 5.14   | 10.34 | 10.44  | -     | -      | -     | -      |



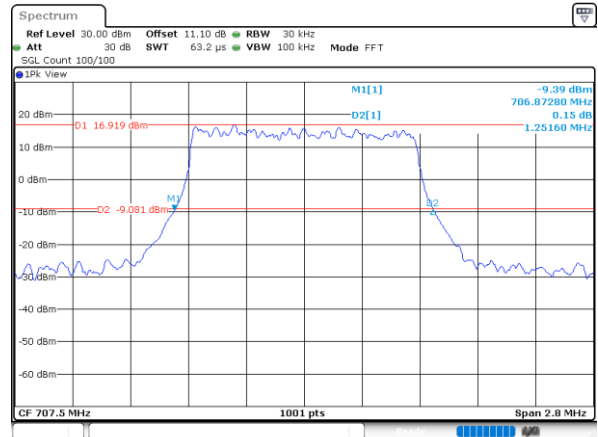
## LTE Band 12

## Middle Channel / 1.4MHz / QPSK



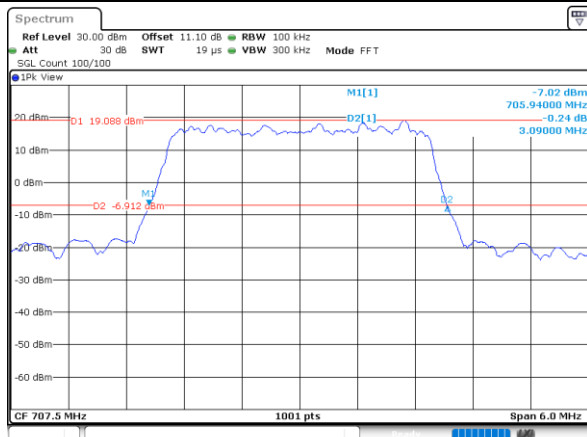
Date: 5 JUN 2025 16:00:38

## Middle Channel / 1.4MHz / 16QAM



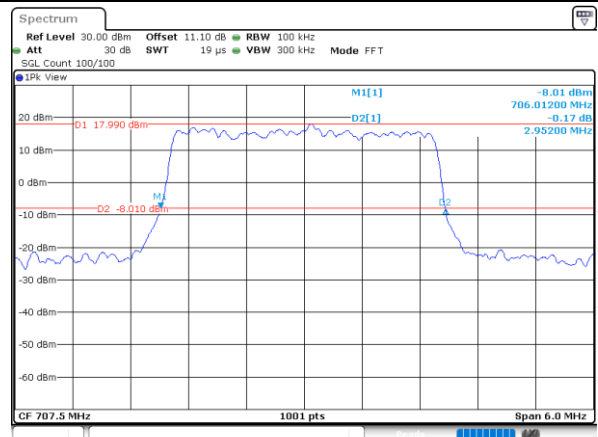
Date: 5 JUN 2025 16:01:55

## Middle Channel / 3MHz / QPSK



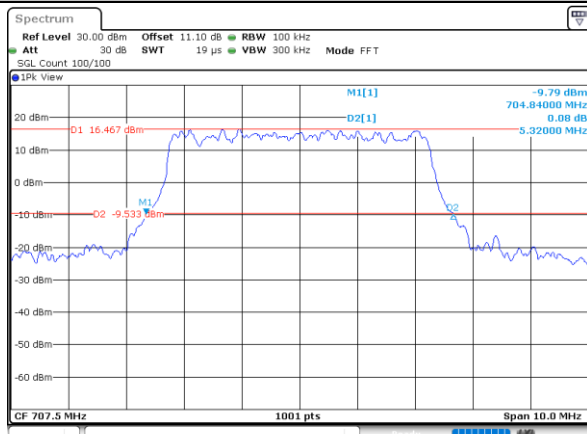
Date: 5 JUN 2025 16:00:17

## Middle Channel / 3MHz / 16QAM



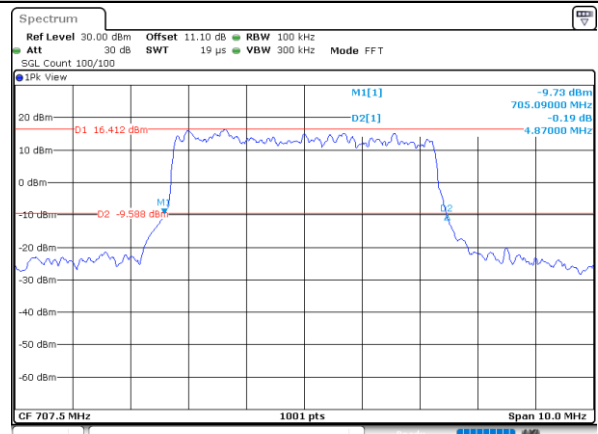
Date: 5 JUN 2025 16:00:16

## Middle Channel / 5MHz / QPSK



Date: 5 JUN 2025 16:10:19

## Middle Channel / 5MHz / 16QAM

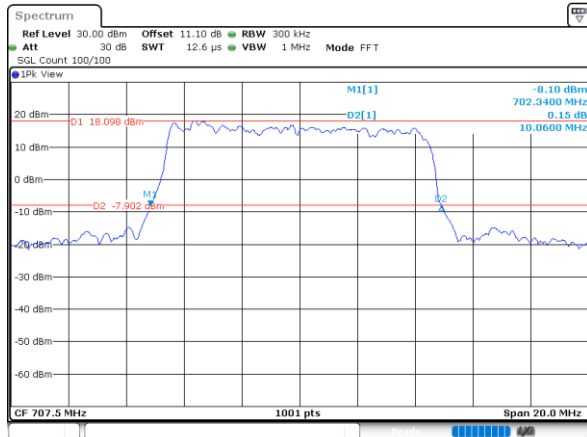


Date: 5 JUN 2025 16:11:33



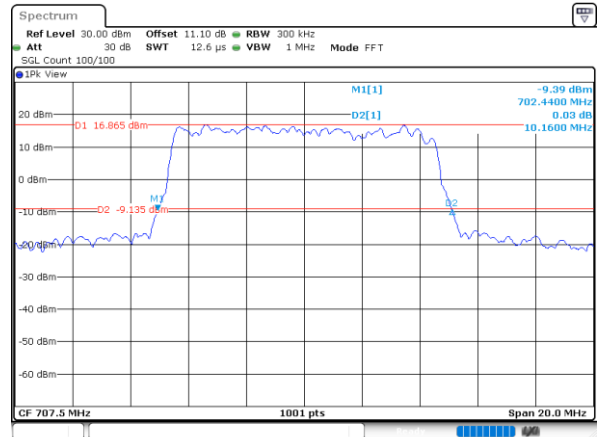
## LTE Band 12

## Middle Channel / 10MHz / QPSK



Date: 5 JUN 2025 16:15:22

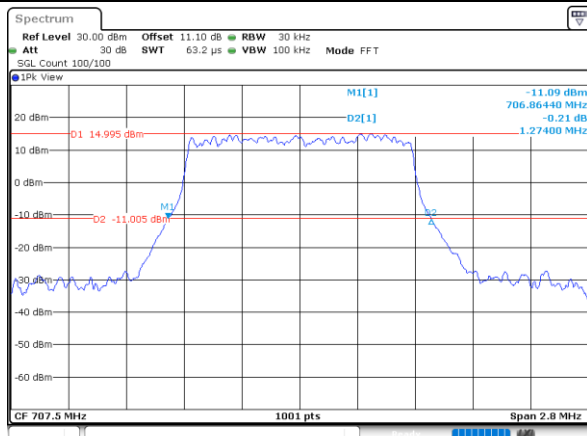
## Middle Channel / 10MHz / 16QAM



Date: 5 JUN 2025 16:16:44

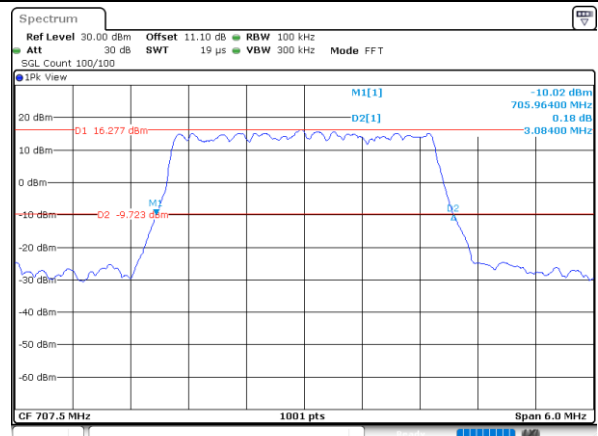
## LTE Band 12

## Middle Channel / 1.4MHz / 64QAM



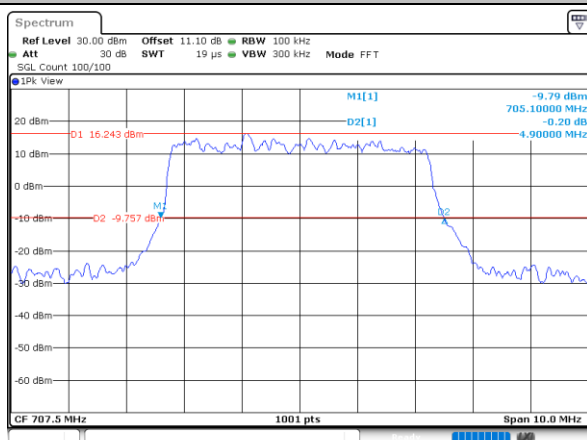
Date: 5 JUN 2025 16:02:57

## Middle Channel / 3MHz / 64QAM



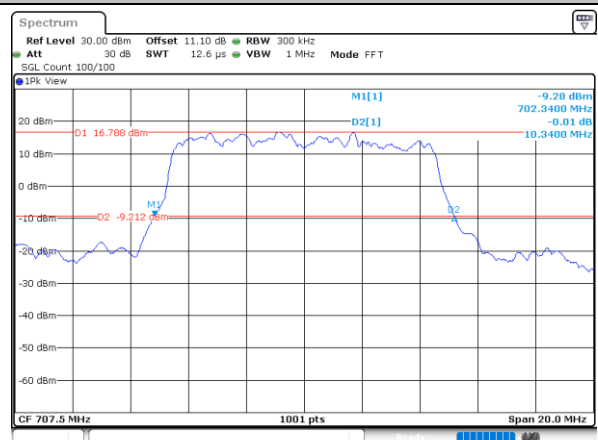
Date: 5 JUN 2025 16:07:29

## Middle Channel / 5MHz / 64QAM



Date: 5 JUN 2025 16:12:46

## Middle Channel / 10MHz / 64QAM

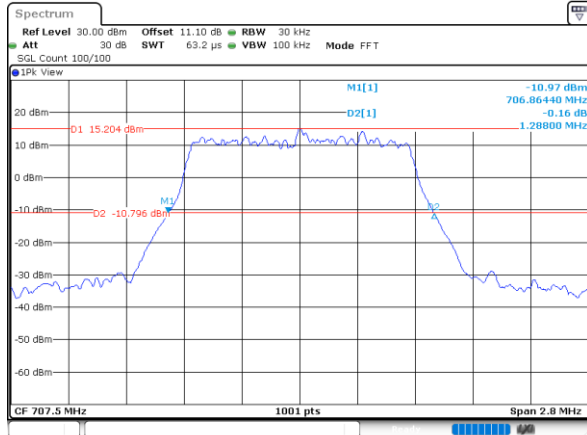


Date: 5 JUN 2025 16:17:57

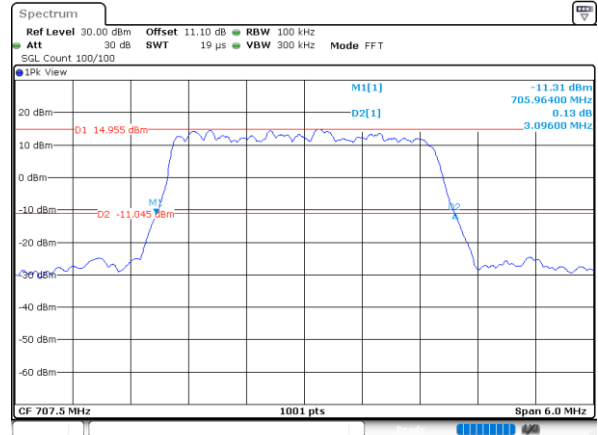


LTE Band 12

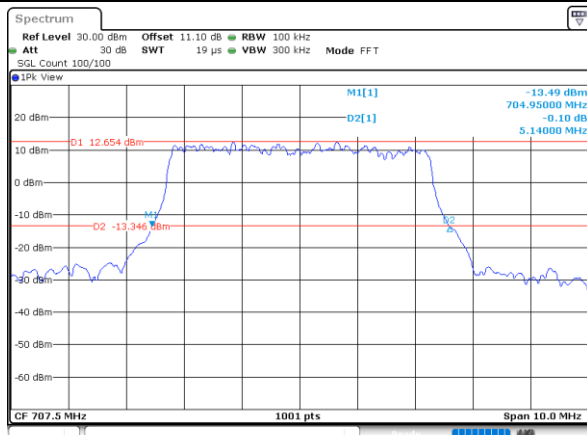
Middle Channel / 1.4MHz / 256QAM



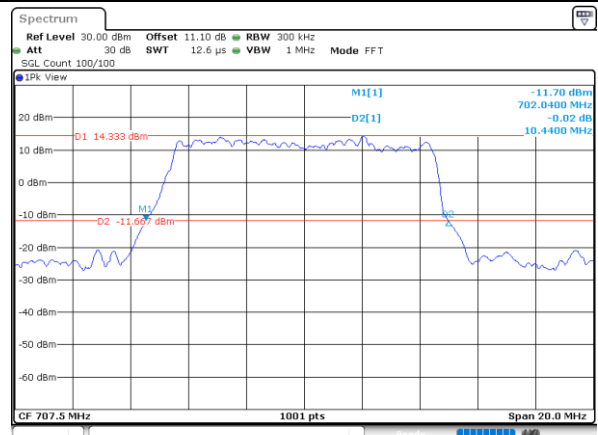
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM



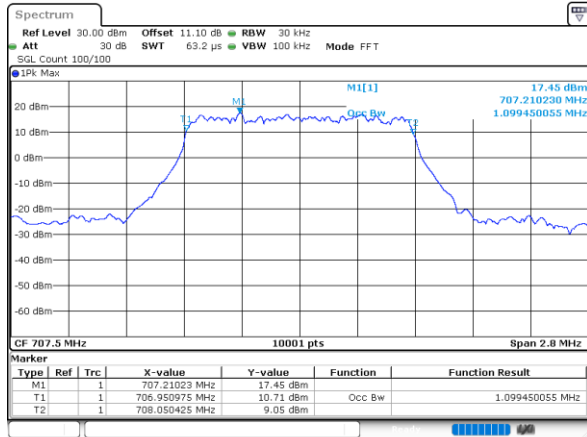
**Occupied Bandwidth**

| Mode      | LTE Band 12 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|-----------|---------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 1.09                      | 1.08   | 2.71  | 2.75   | 4.50  | 4.46   | 9.03  | 9.02   | -     | -      | -     | -      |
| Mode      | LTE Band 12 : 99%OBW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW        | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | 64QAM                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 1.09                      | 1.09   | 2.72  | 2.72   | 4.50  | 4.48   | 8.99  | 8.95   | -     | -      | -     | -      |

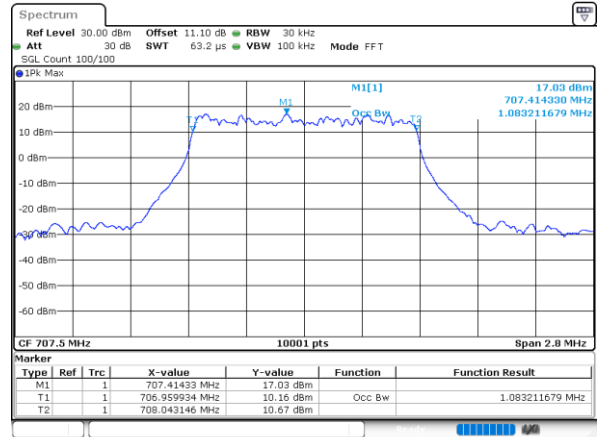


## LTE Band 12

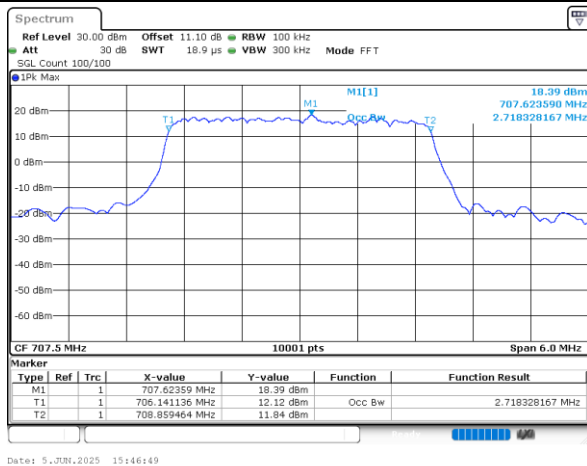
## Middle Channel / 1.4MHz / QPSK



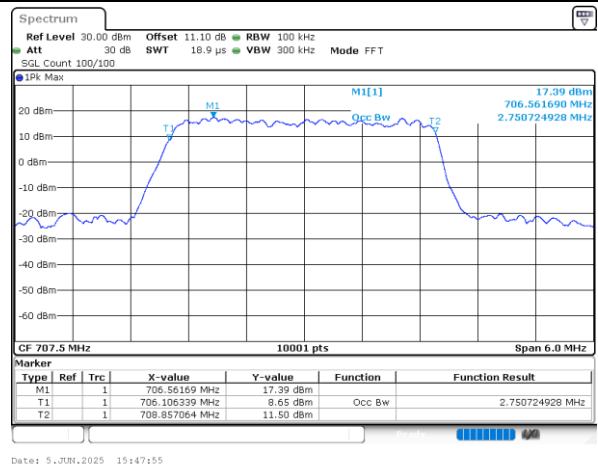
## Middle Channel / 1.4MHz / 16QAM



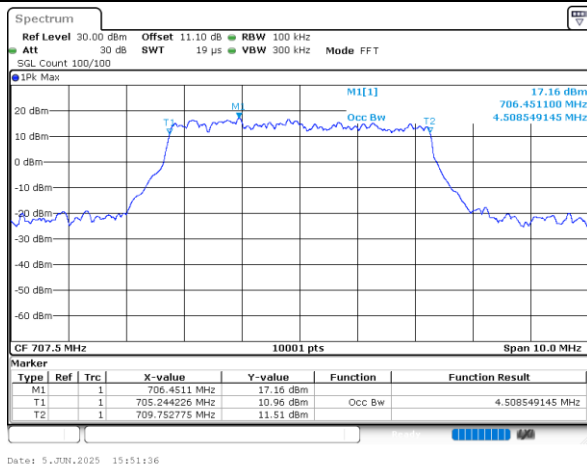
## Middle Channel / 3MHz / QPSK



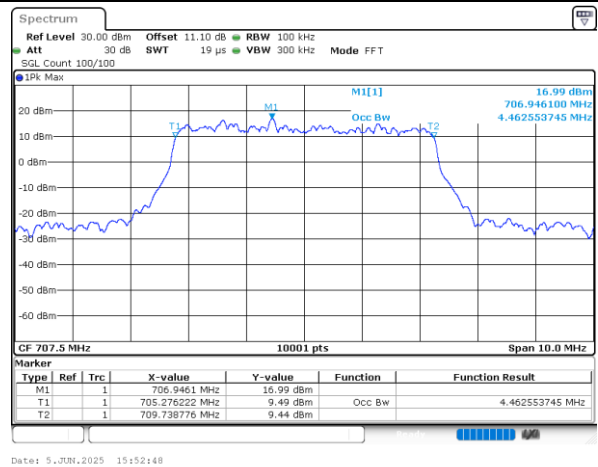
## Middle Channel / 3MHz / 16QAM



## Middle Channel / 5MHz / QPSK



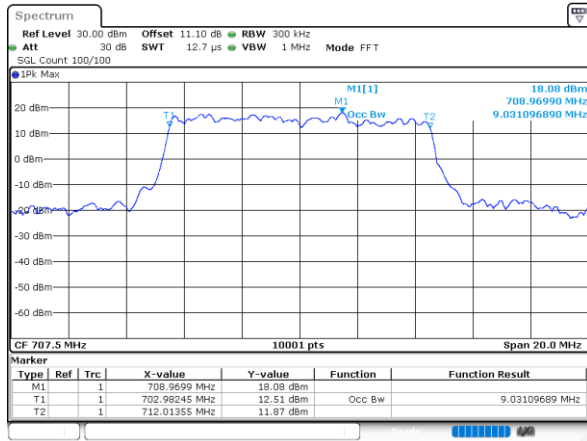
## Middle Channel / 5MHz / 16QAM



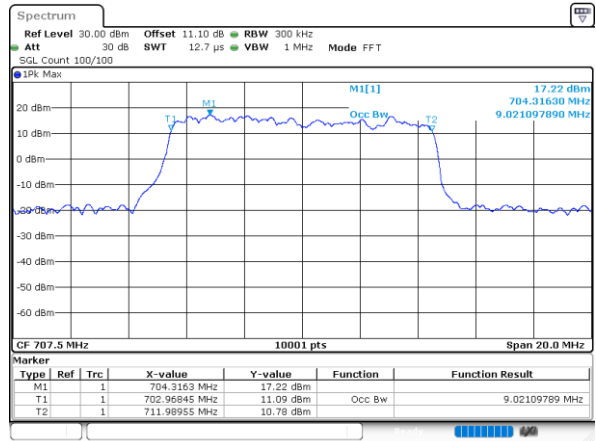


## LTE Band 12

## Middle Channel / 10MHz / QPSK

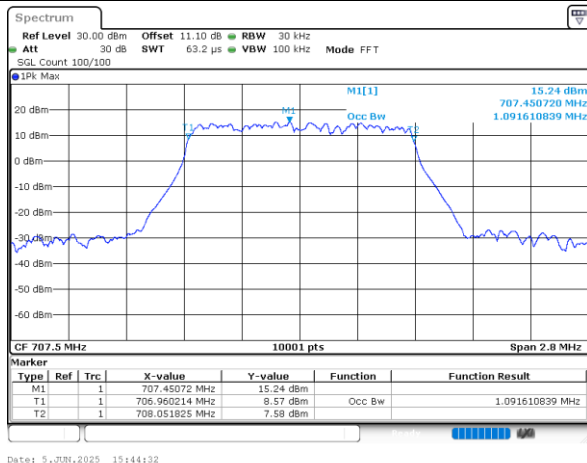


## Middle Channel / 10MHz / 16QAM

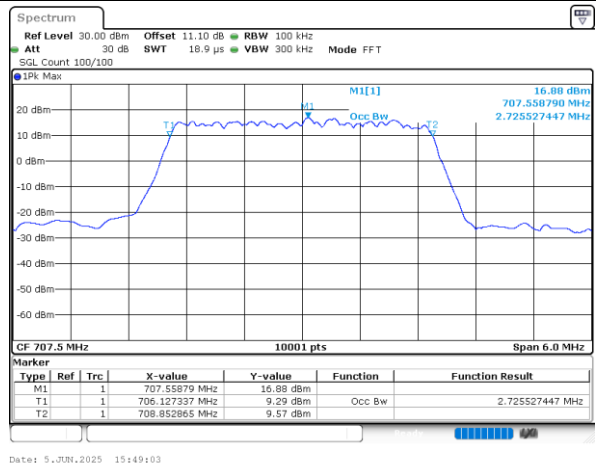


## LTE Band 12

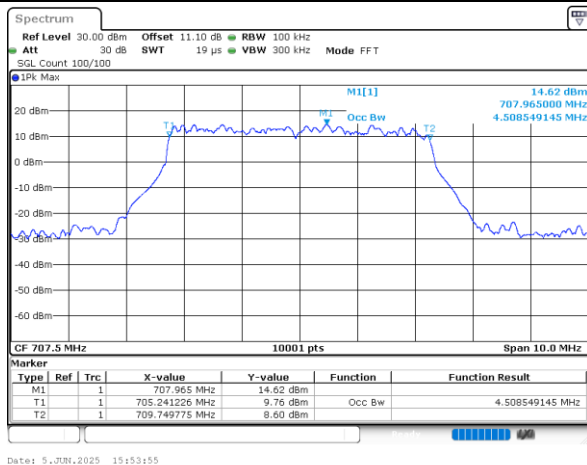
## Middle Channel / 1.4MHz / 64QAM



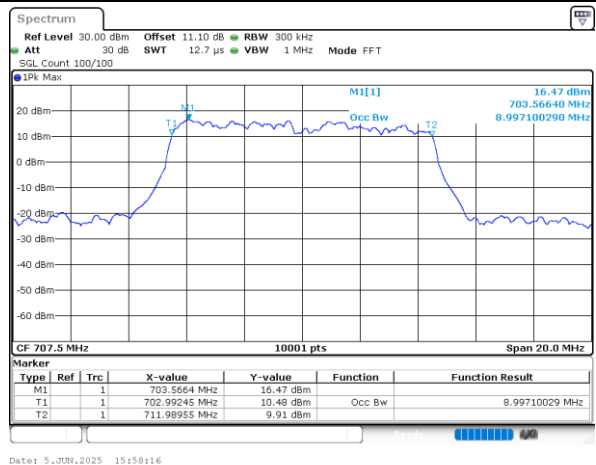
## Middle Channel / 3MHz / 64QAM



## Middle Channel / 5MHz / 64QAM



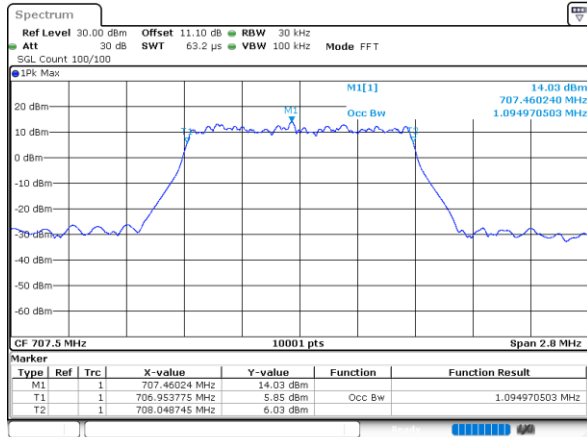
## Middle Channel / 10MHz / 64QAM



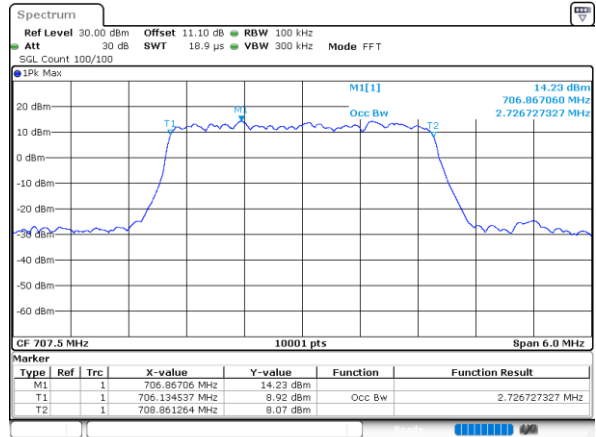


## LTE Band 12

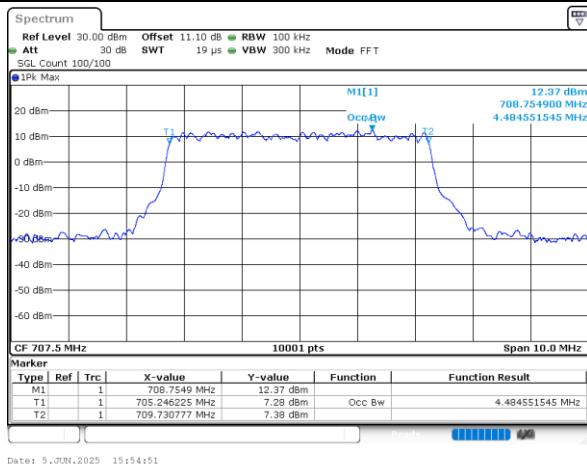
## Middle Channel / 1.4MHz / 256QAM



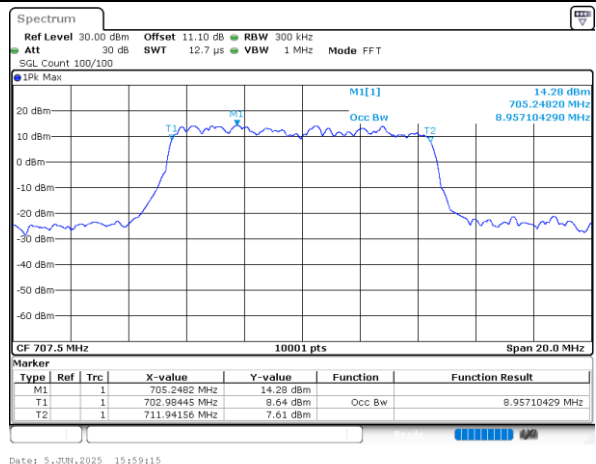
## Middle Channel / 3MHz / 256QAM

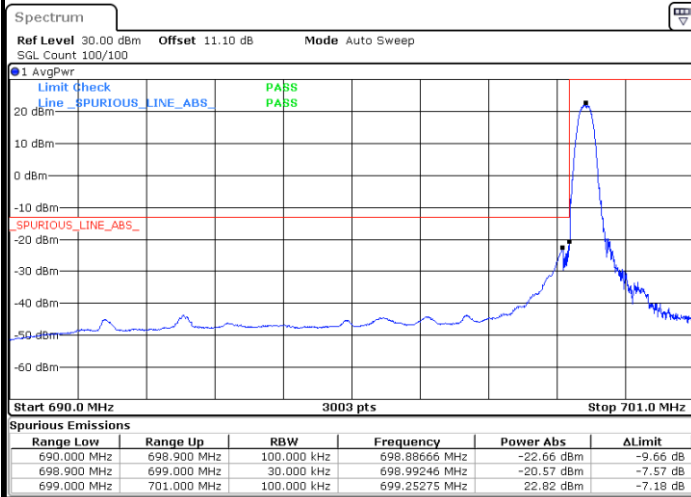
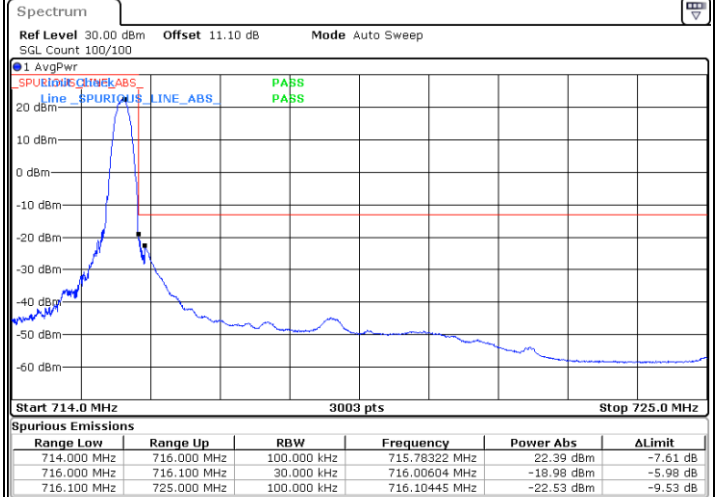
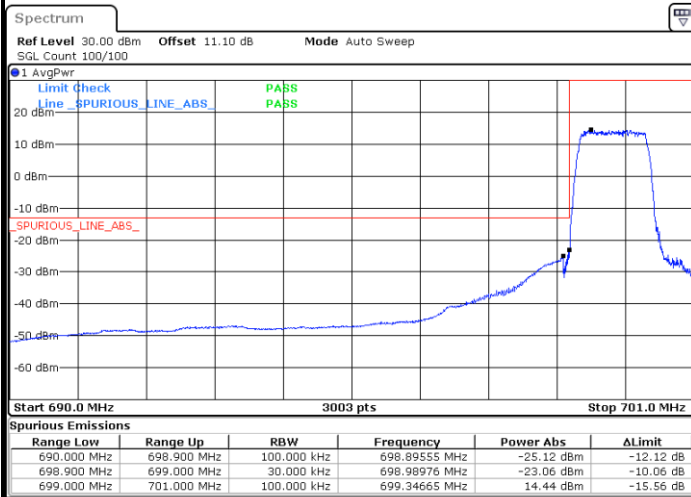
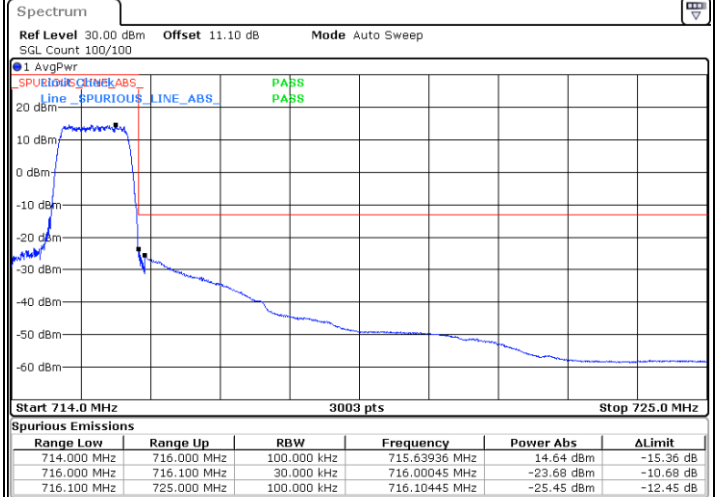


## Middle Channel / 5MHz / 256QAM



## Middle Channel / 10MHz / 256QAM

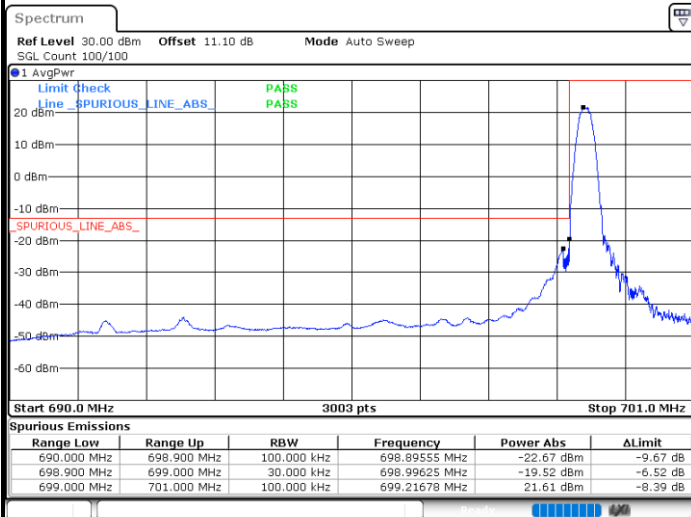


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

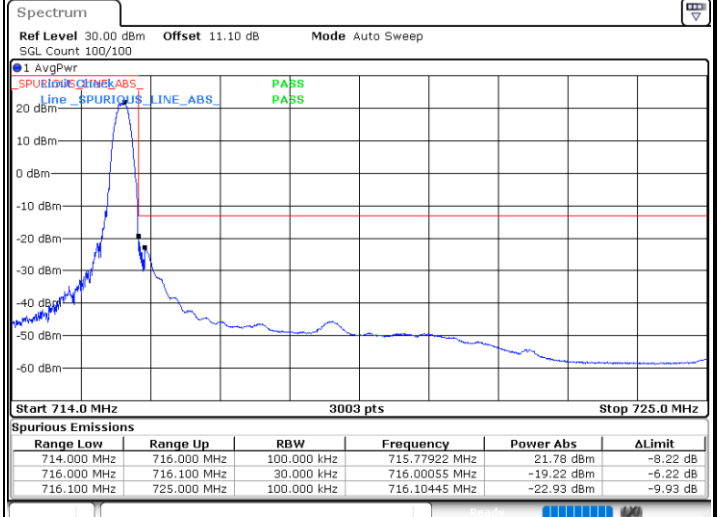


## LTE Band 12 / 1.4MHz / 16QAM

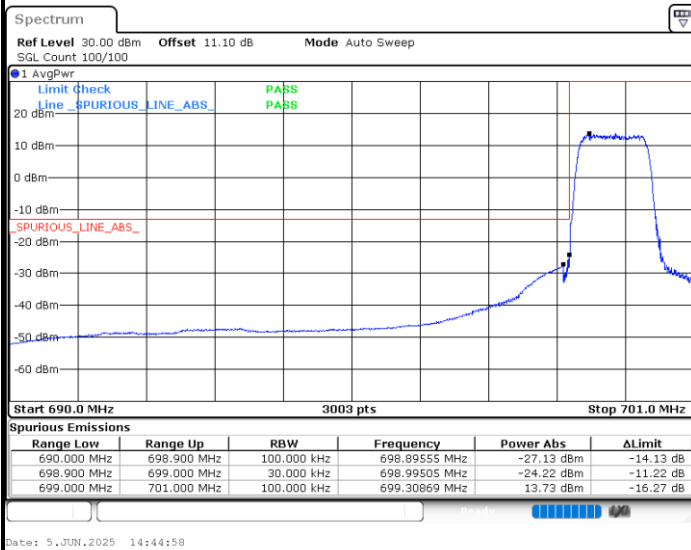
## Lowest Band Edge / 1 RB



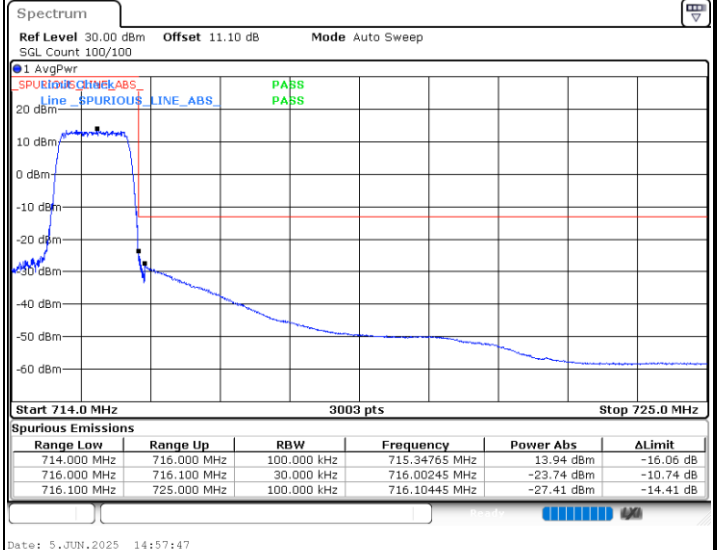
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



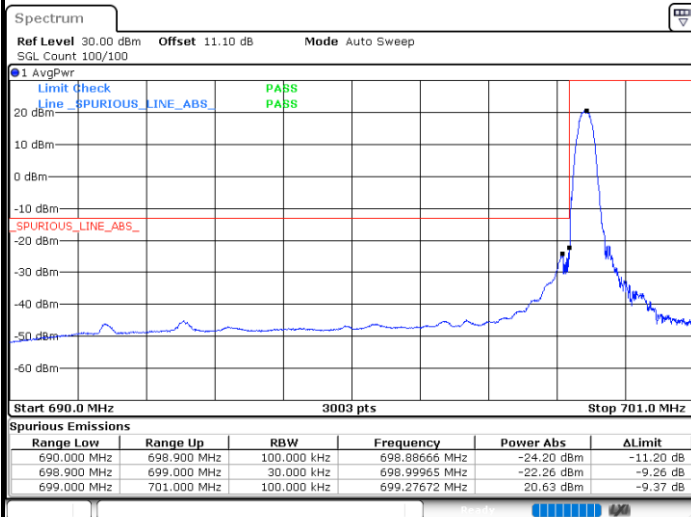
## Highest Band Edge / Full RB



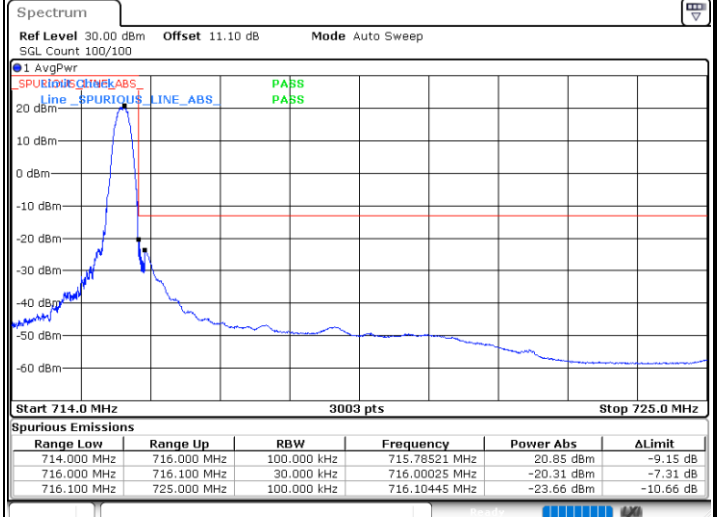


## LTE Band 12 / 1.4MHz / 64QAM

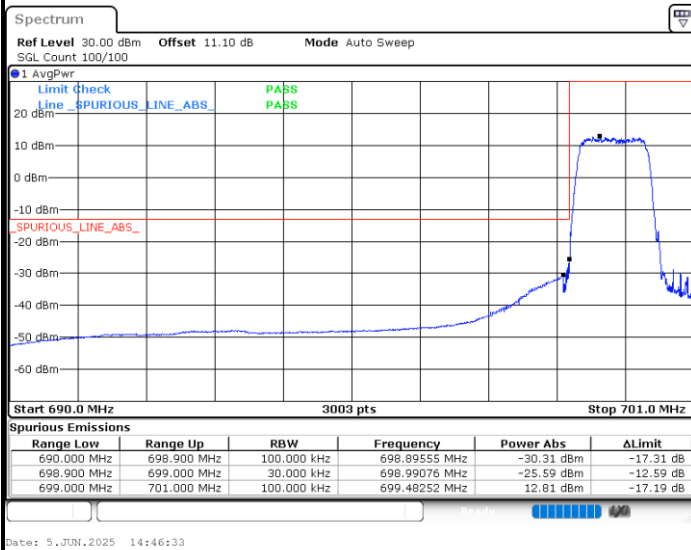
## Lowest Band Edge / 1 RB



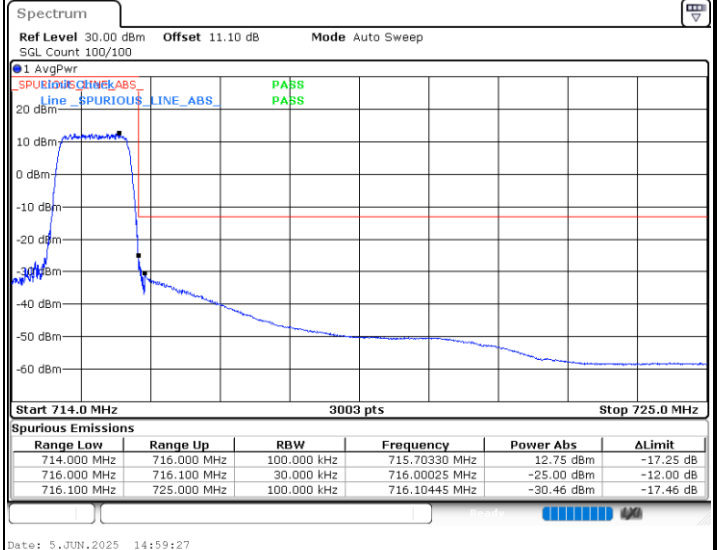
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



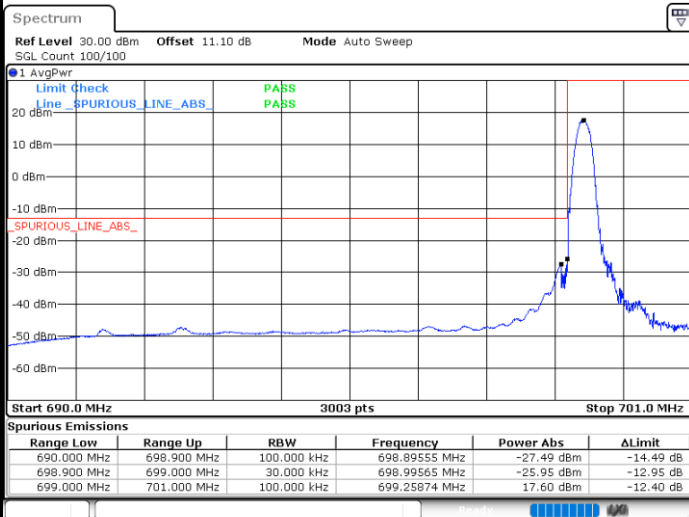
## Highest Band Edge / Full RB



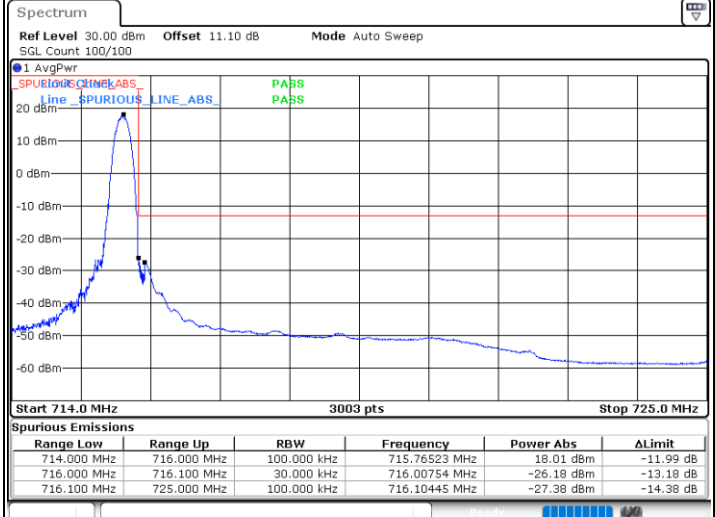


## LTE Band 12 / 1.4MHz / 256QAM

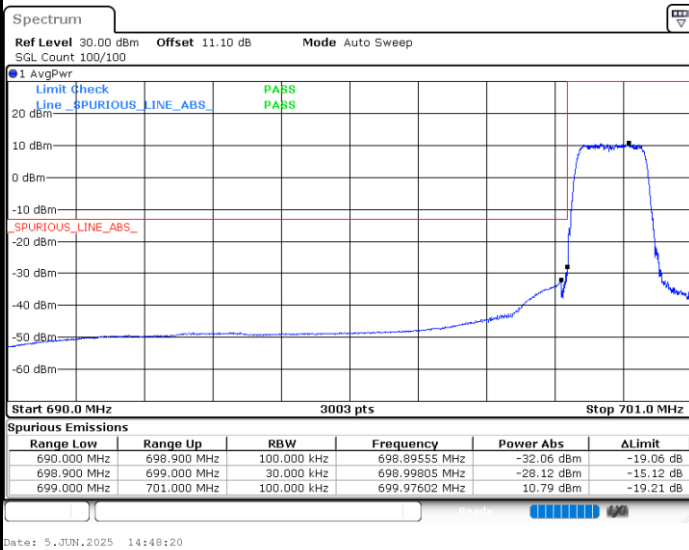
## Lowest Band Edge / 1 RB



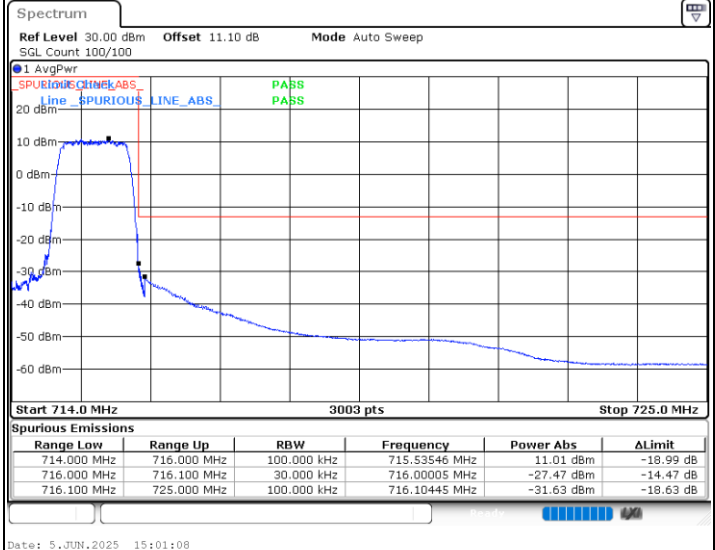
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



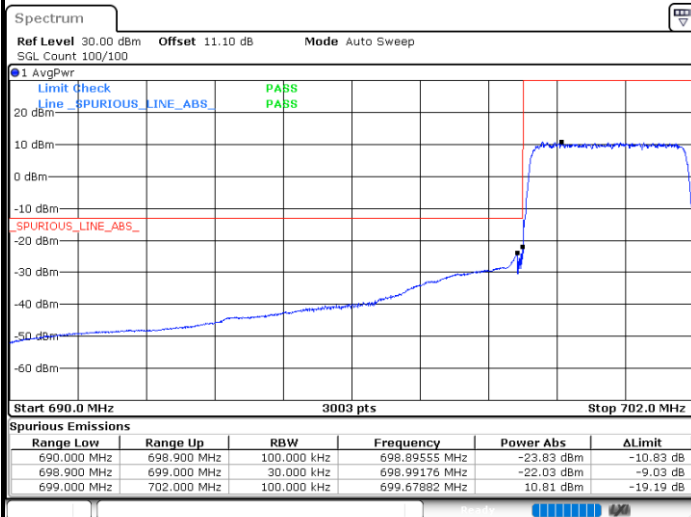
## Highest Band Edge / Full RB



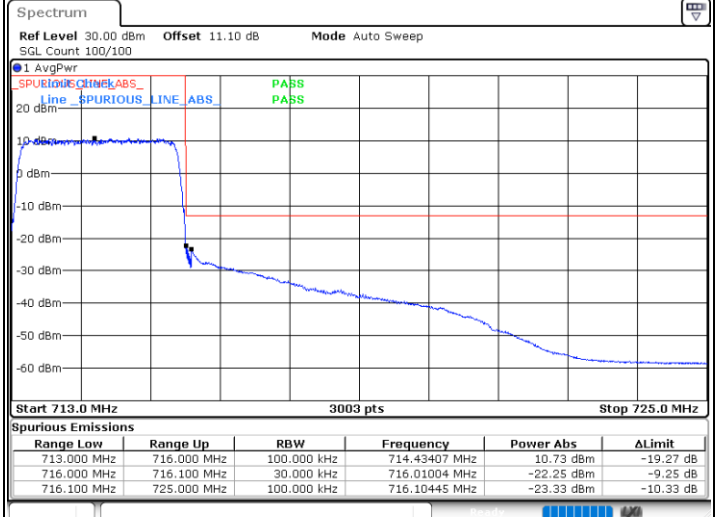


## LTE Band 12 / 3MHz / QPSK

## Lowest Band Edge / Full RB

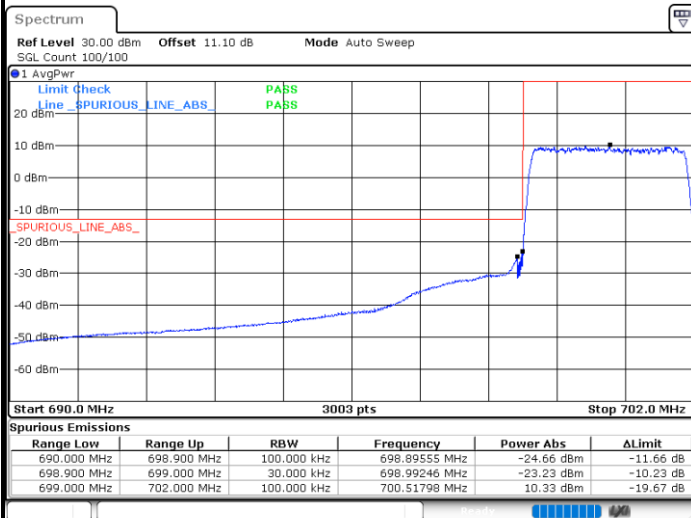


## Highest Band Edge / Full RB

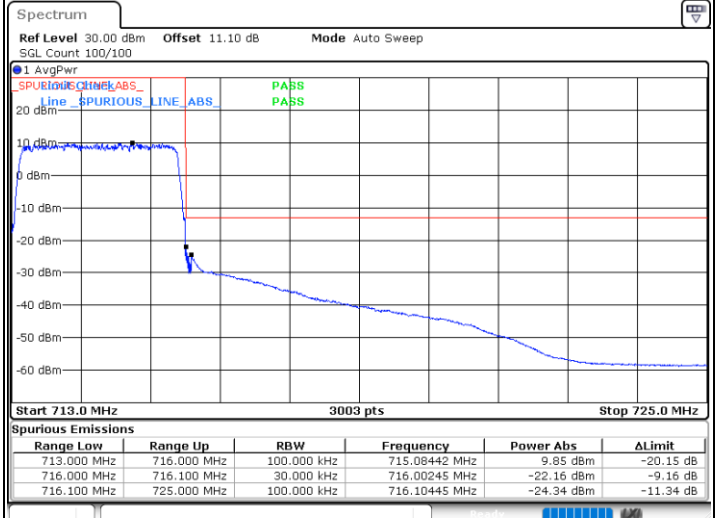


## LTE Band 12 / 3MHz / 16QAM

## Lowest Band Edge / Full RB



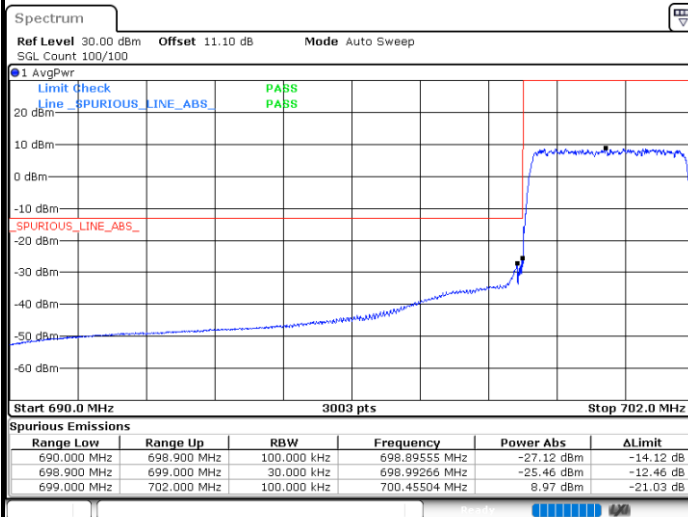
## Highest Band Edge / Full RB



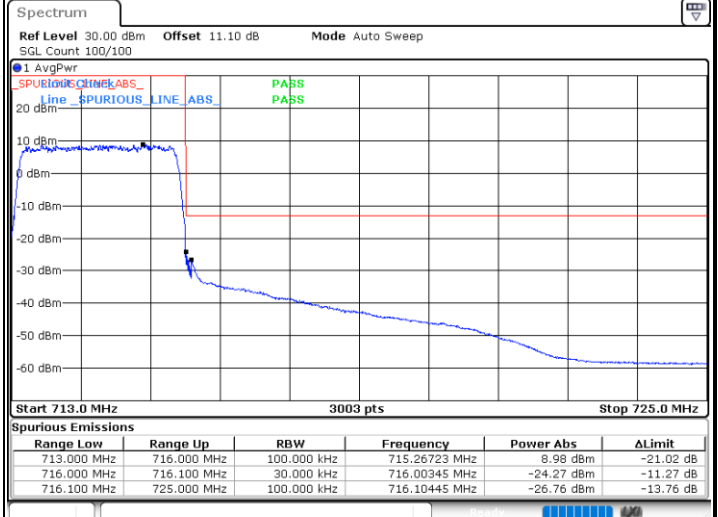


## LTE Band 12 / 3MHz / 64QAM

## Lowest Band Edge / Full RB

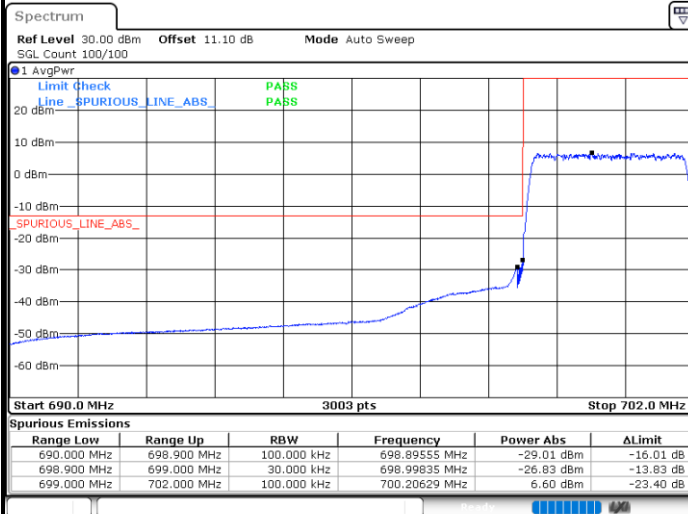


## Highest Band Edge / Full RB



## LTE Band 12 / 3MHz / 256QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

