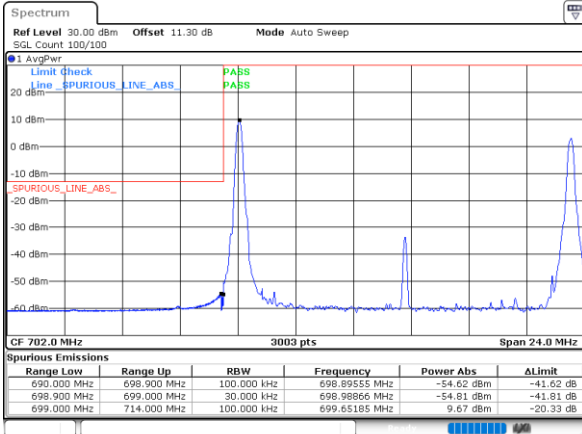




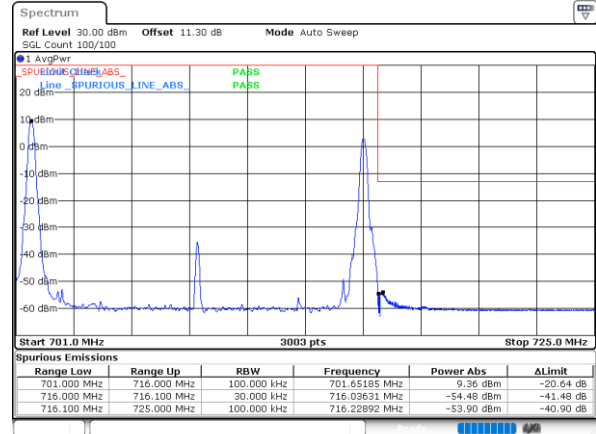
## LTE Band 12B / 5MHz+10MHz

## QPSK

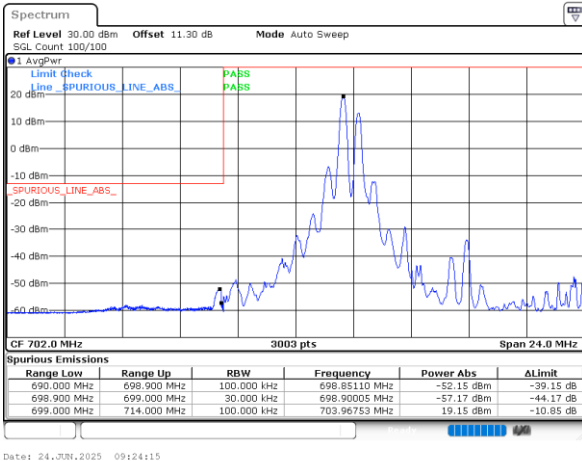
## Lowest Band Edge / 1RB0 and 1RB49



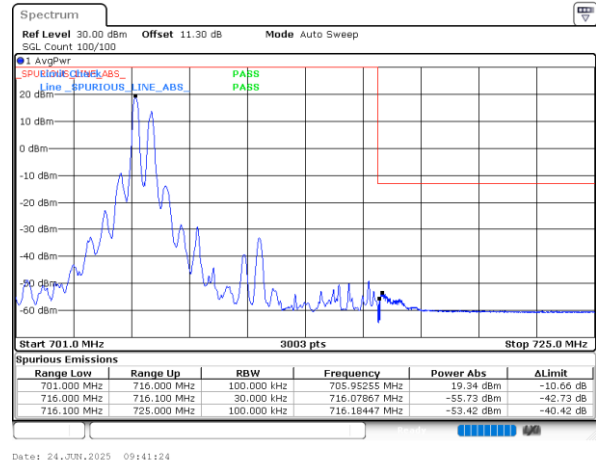
## Highest Band Edge / 1RB0 and 1RB49



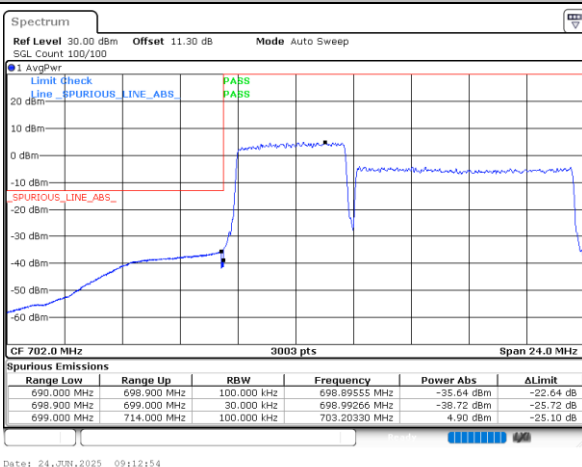
## Lowest Band Edge / 1RB24 and 1RB0



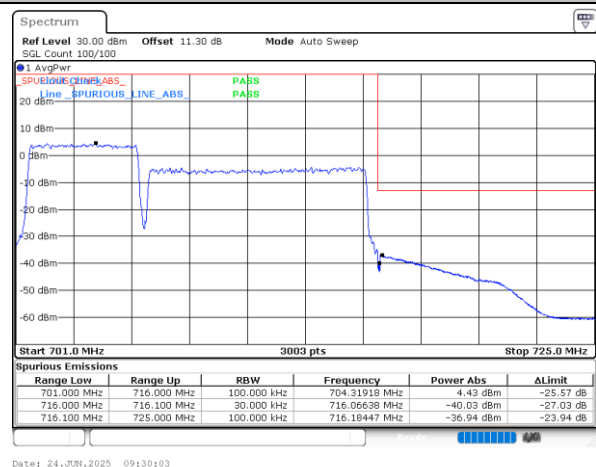
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

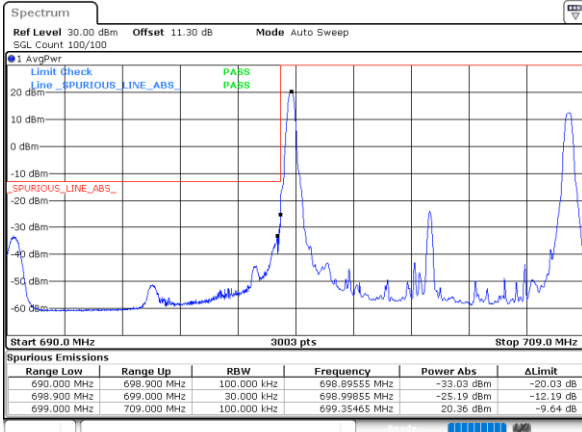




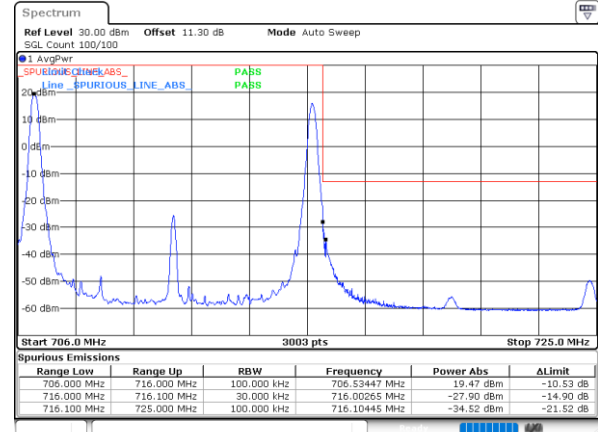
## LTE Band 12B / 5MHz+5MHz

## 16QAM

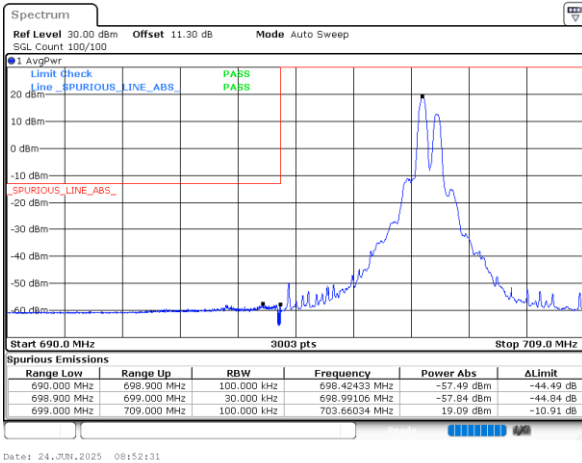
## Lowest Band Edge / 1RB0 and 1RB24



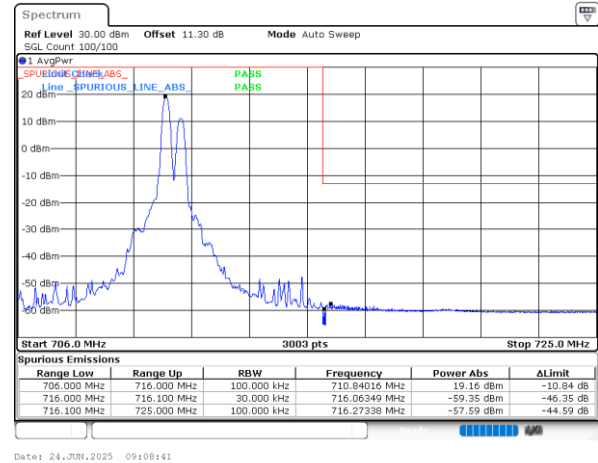
## Highest Band Edge / 1RB0 and 1RB24



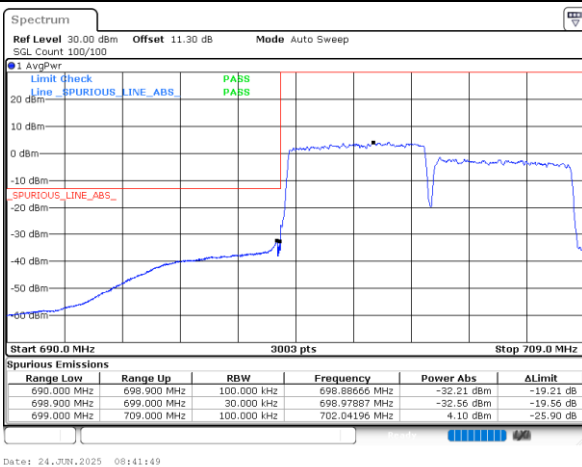
## Lowest Band Edge / 1RB24 and 1RB0



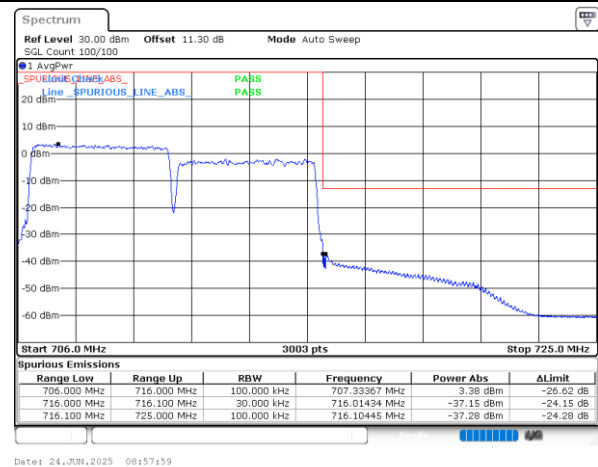
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

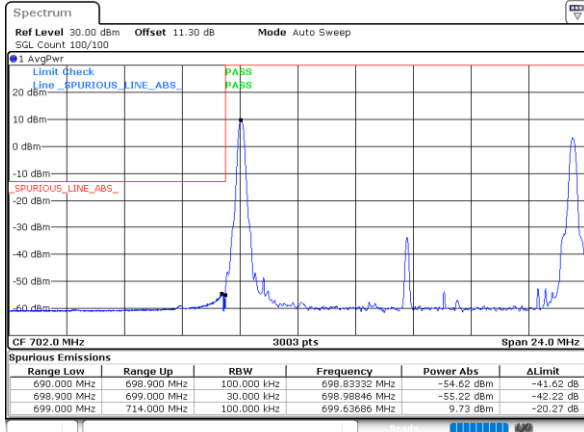




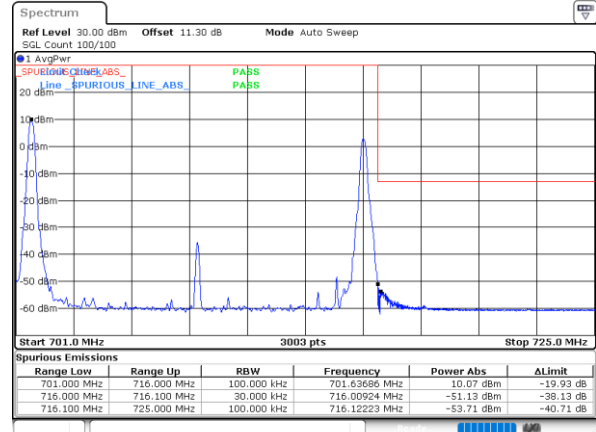
## LTE Band 12B / 5MHz+10MHz

## 16QAM

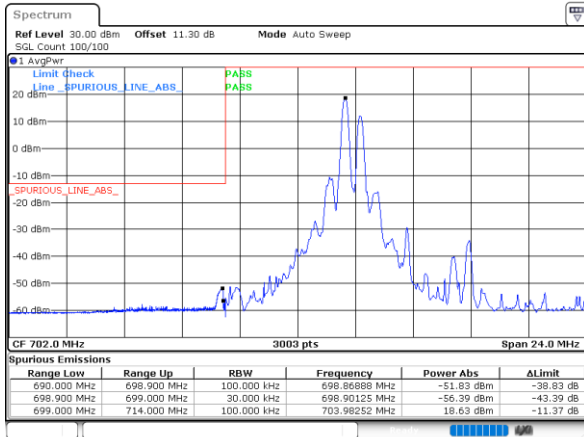
## Lowest Band Edge / 1RB0 and 1RB49



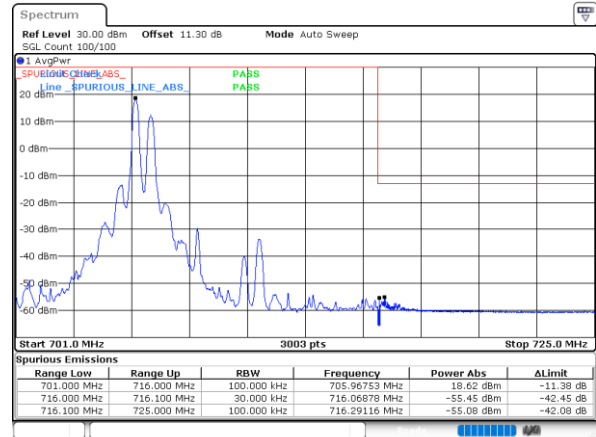
## Highest Band Edge / 1RB0 and 1RB49



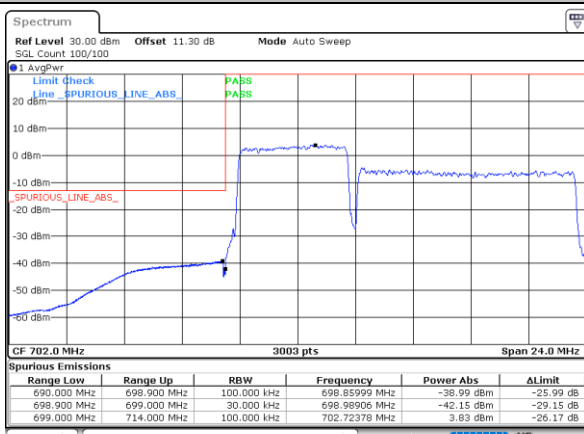
## Lowest Band Edge / 1RB24 and 1RB0



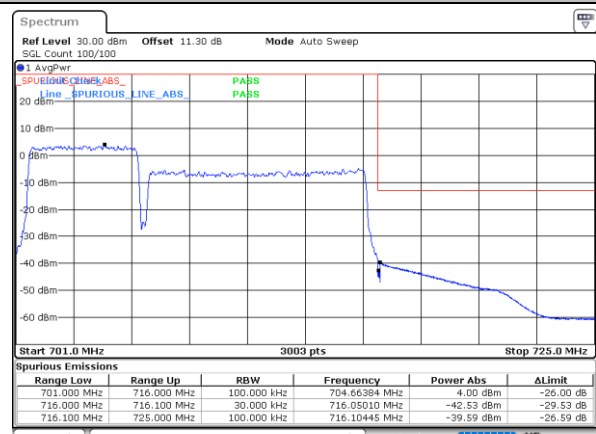
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

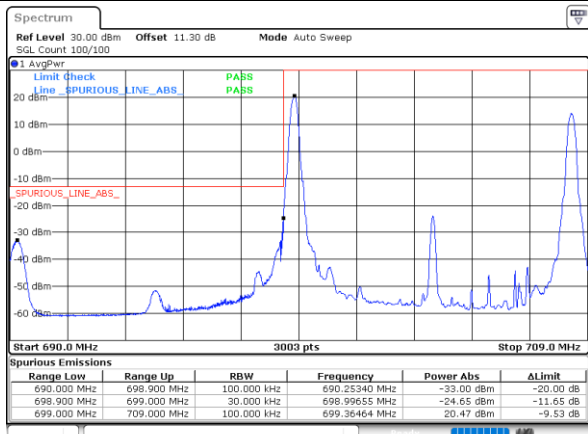




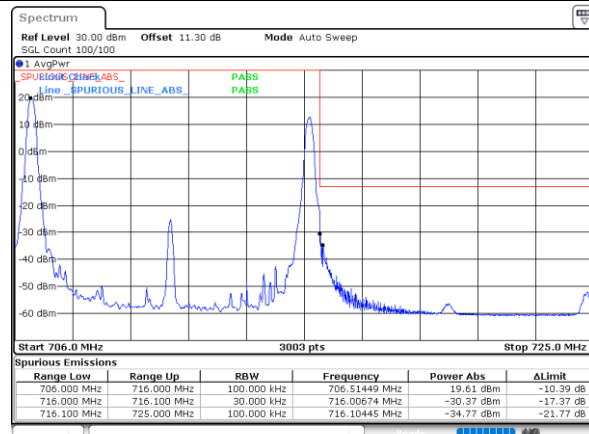
## LTE Band 12B / 5MHz+5MHz

## 64QAM

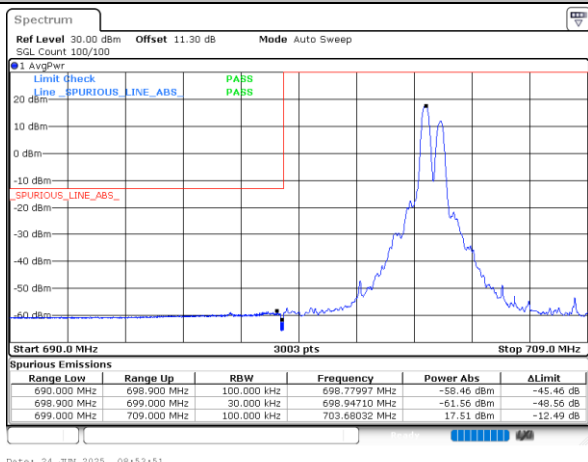
## Lowest Band Edge / 1RB0 and 1RB24



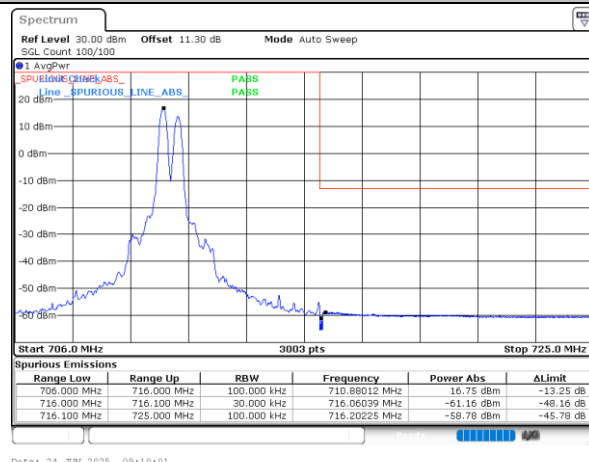
## Highest Band Edge / 1RB0 and 1RB24



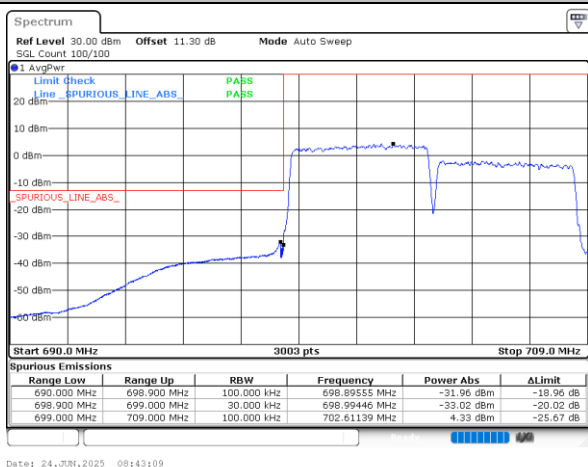
## Lowest Band Edge / 1RB24 and 1RB0



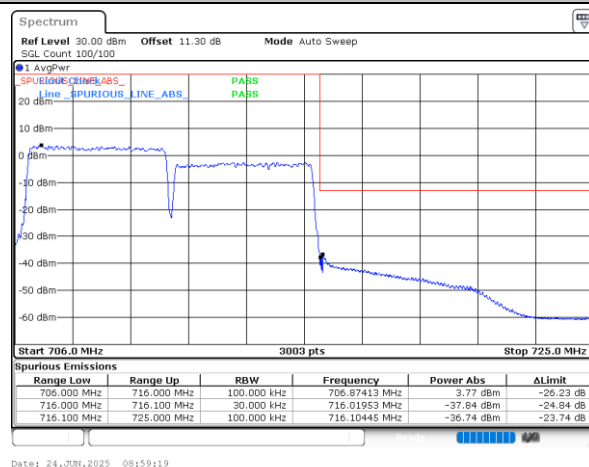
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

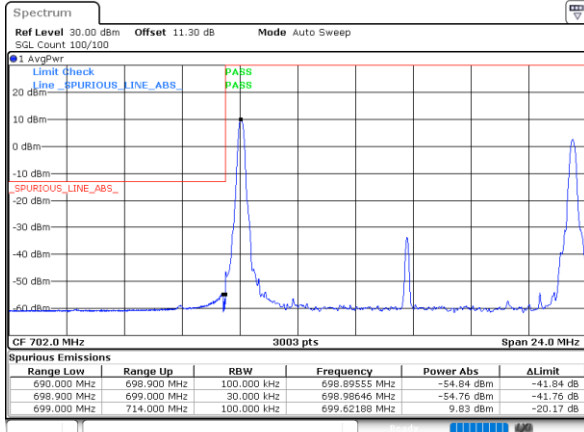




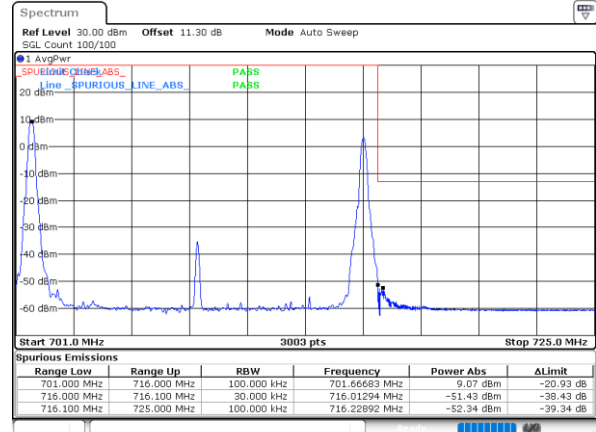
## LTE Band 12B / 5MHz+10MHz

## 64QAM

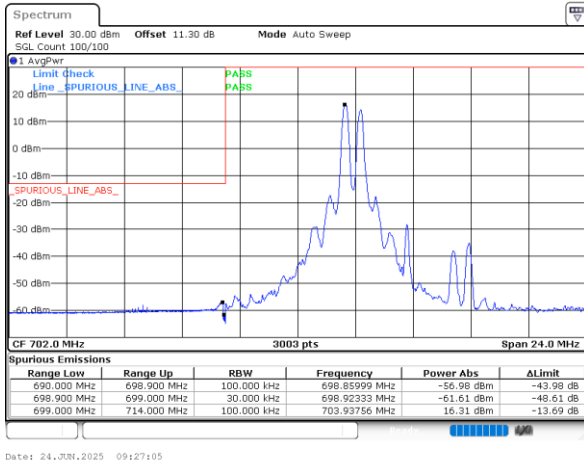
## Lowest Band Edge / 1RB0 and 1RB49



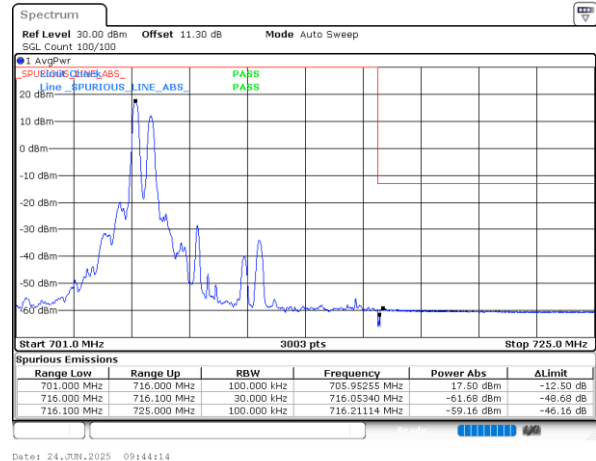
## Highest Band Edge / 1RB0 and 1RB49



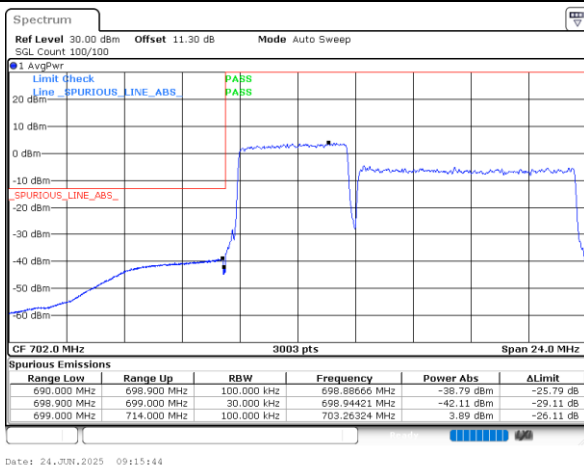
## Lowest Band Edge / 1RB24 and 1RB0



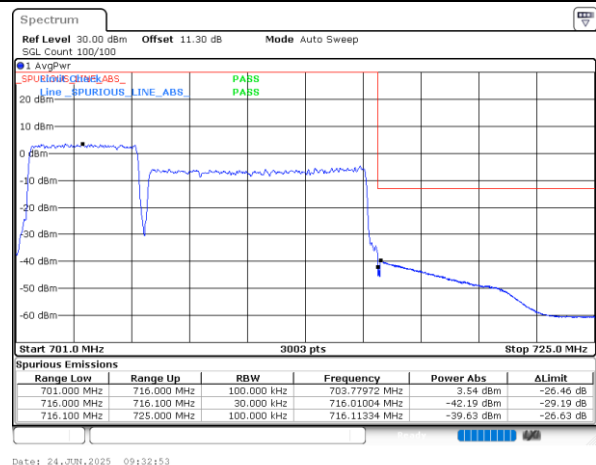
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

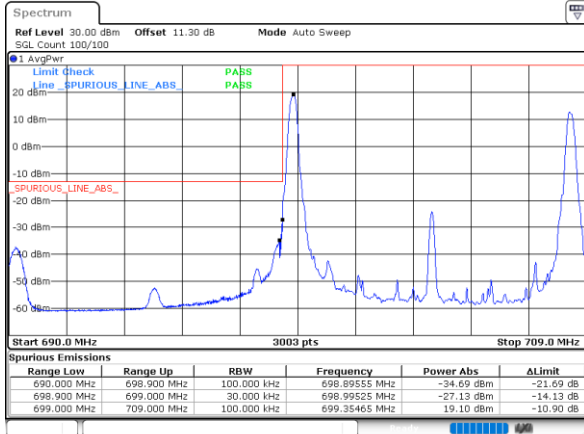




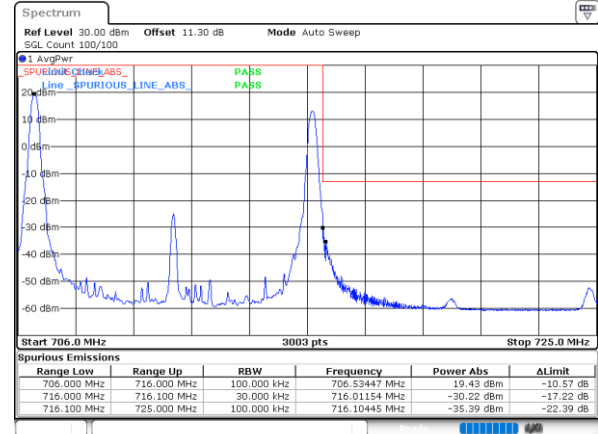
## LTE Band 12B / 5MHz+5MHz

## 256QAM

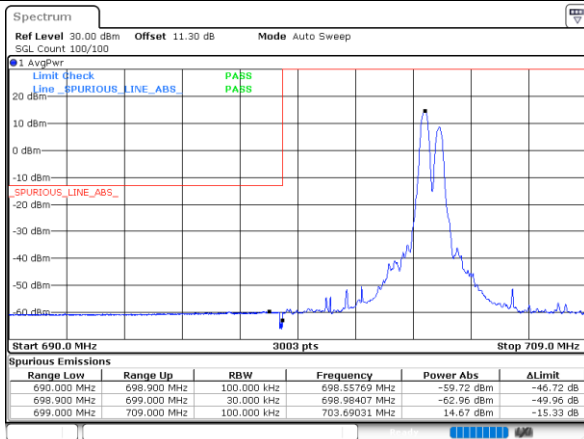
## Lowest Band Edge / 1RB0 and 1RB24



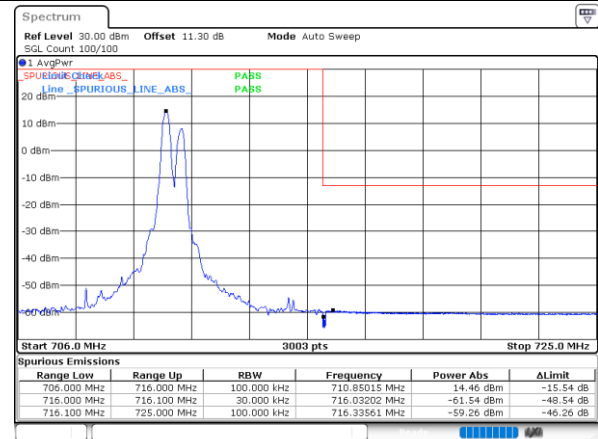
## Highest Band Edge / 1RB0 and 1RB24



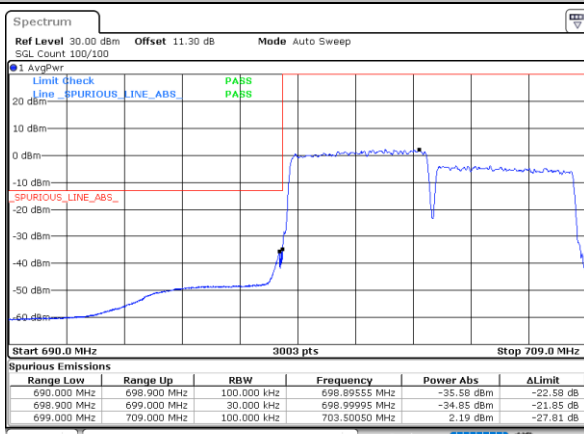
## Lowest Band Edge / 1RB24 and 1RB0



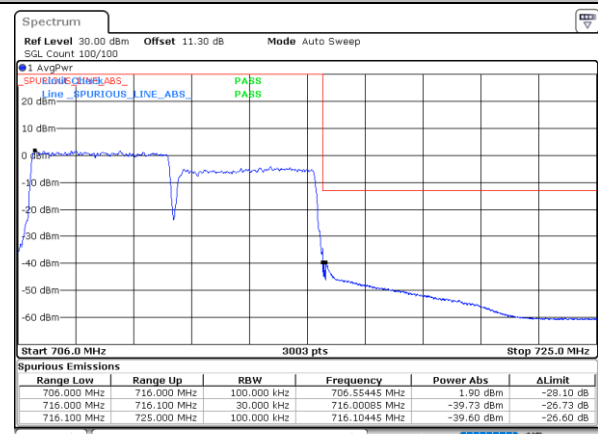
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

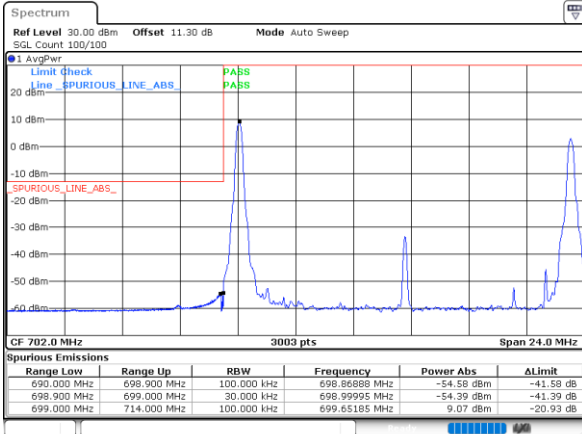




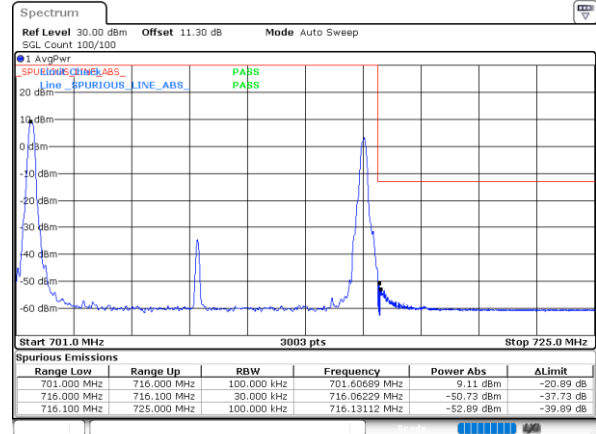
## LTE Band 12B / 5MHz+10MHz

## 256QAM

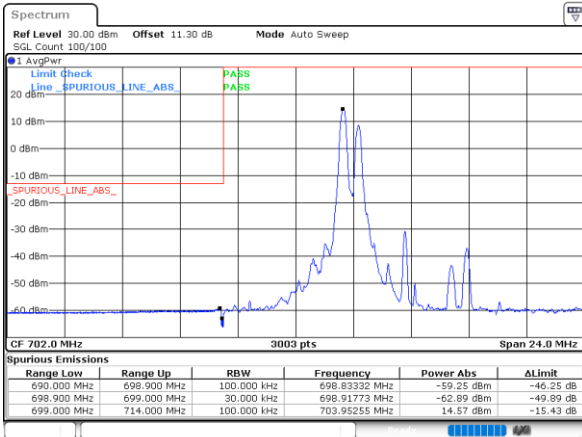
## Lowest Band Edge / 1RB0 and 1RB49



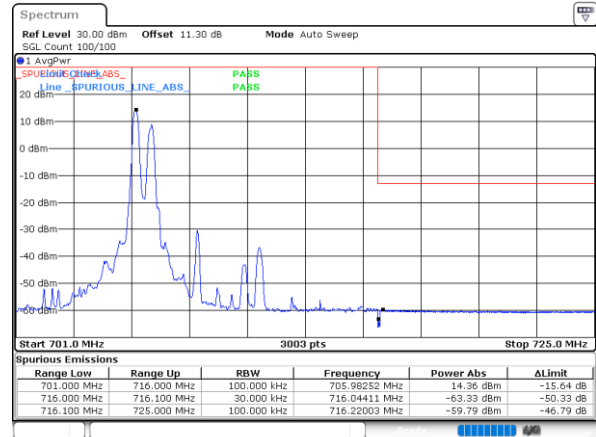
## Highest Band Edge / 1RB0 and 1RB49



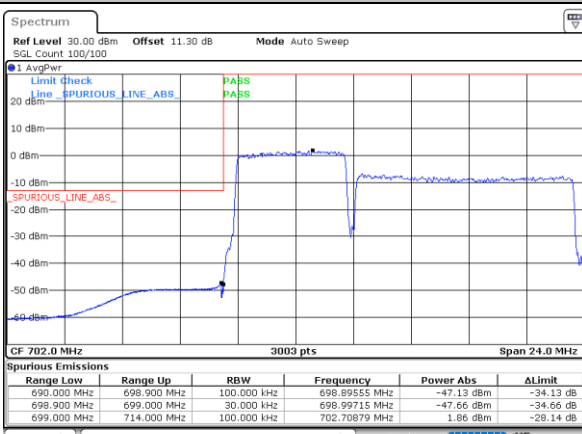
## Lowest Band Edge / 1RB24 and 1RB0



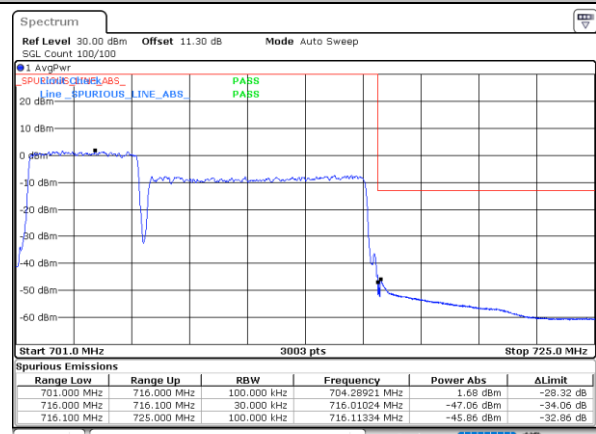
## Highest Band Edge / 1RB24 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB





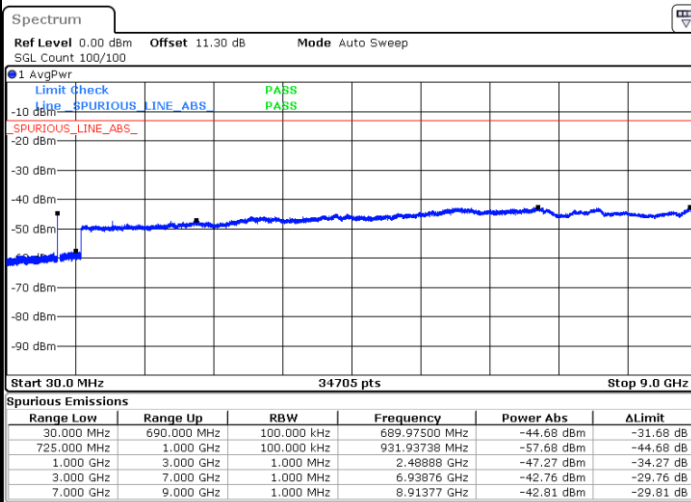
# Conducted Spurious Emission

LTE Band 12B / 5MHz+5MHz

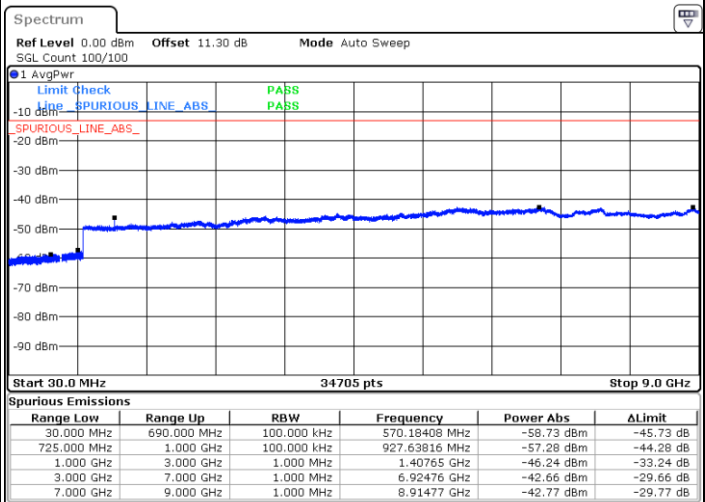
QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB24 and 1RB0



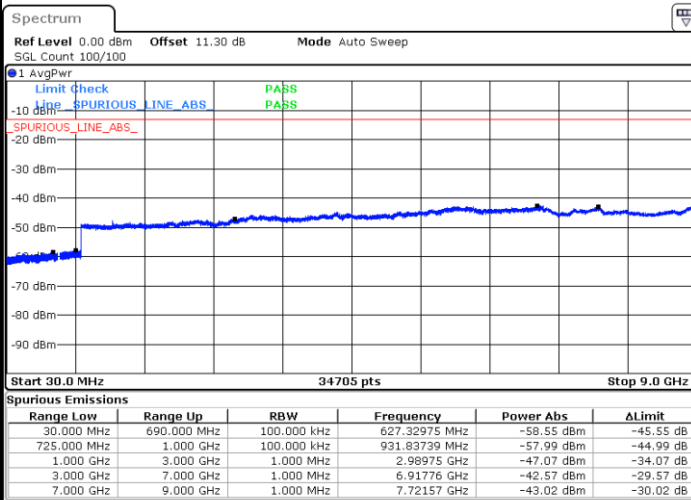
Date: 24.JUN.2025 09:48:47



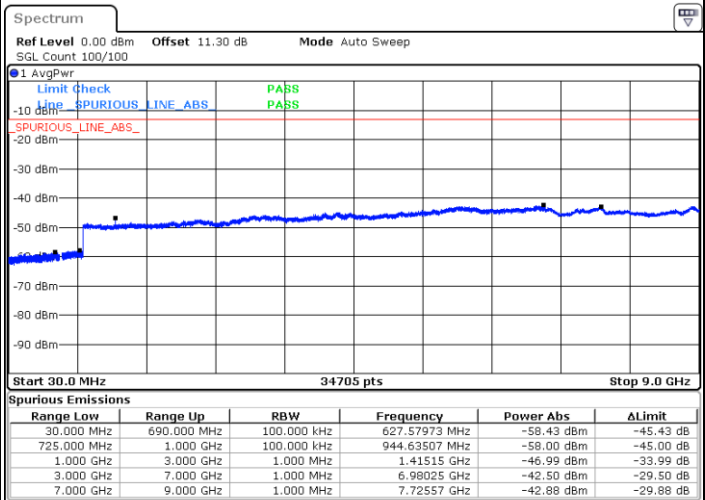
Date: 24.JUN.2025 09:47:16

MiddleChannel / 1RB0 and 1RB24

Middle Channel / 1RB24 and 1RB0



Date: 24.JUN.2025 09:53:38



Date: 24.JUN.2025 09:55:08

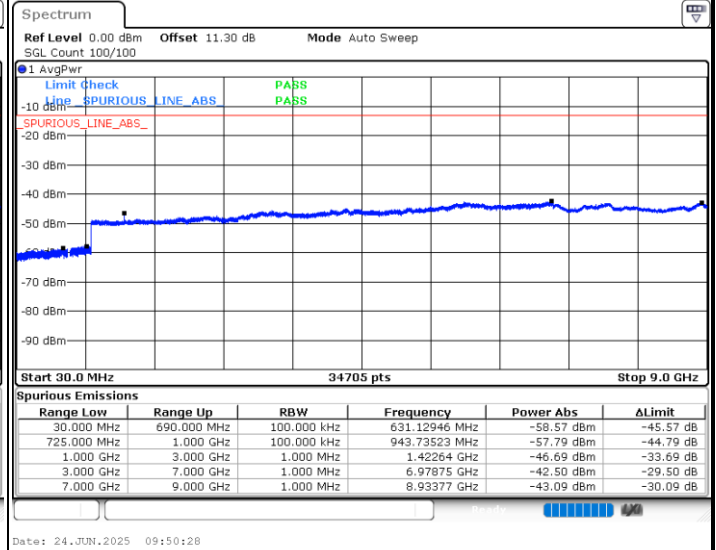
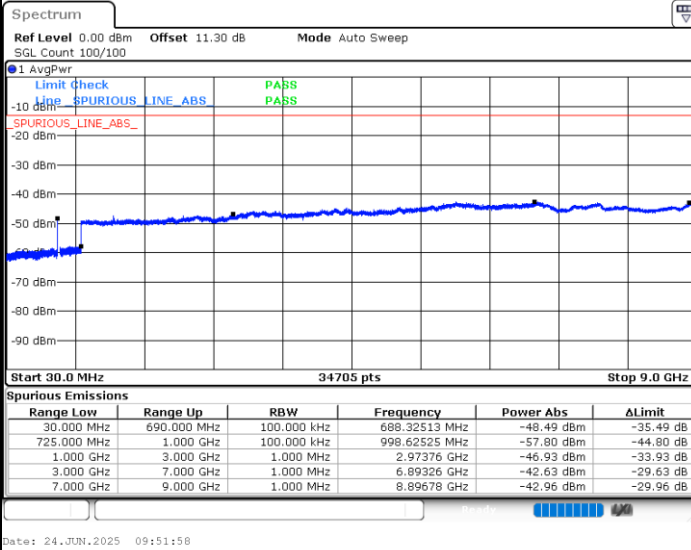


## LTE Band 66B / 5MHz+5MHz

## QPSK

## Highest Channel / 1RB0 and 1RB24

## Highest Channel / 1RB24 and 1RB0



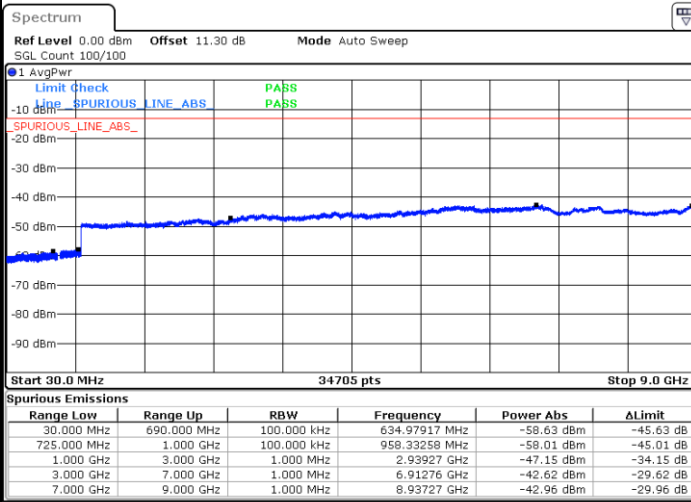


## LTE Band 12B / 5MHz+10MHz

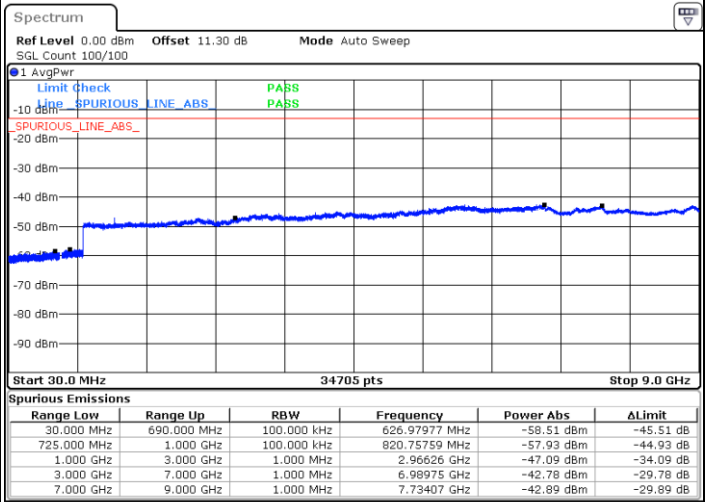
## QPSK

## Lowest Channel / 1RB0 and 1RB49

## Lowest Channel / 1RB24 and 1RB0



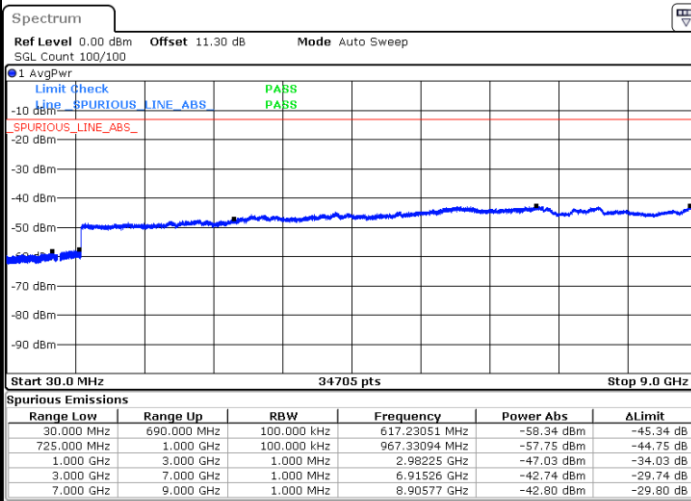
Date: 24.JUN.2025 09:58:30



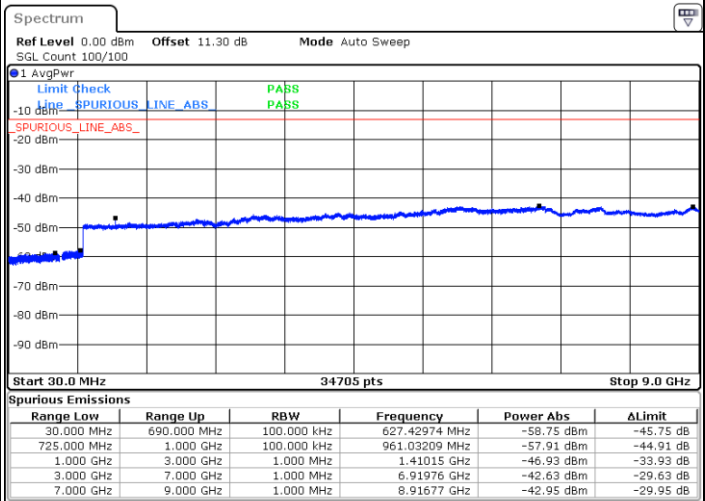
Date: 24.JUN.2025 09:56:55

## Middle Channel / 1RB0 and 1RB49

## Middle Channel / 1RB24 and 1RB0



Date: 24.JUN.2025 10:03:37



Date: 24.JUN.2025 10:05:12

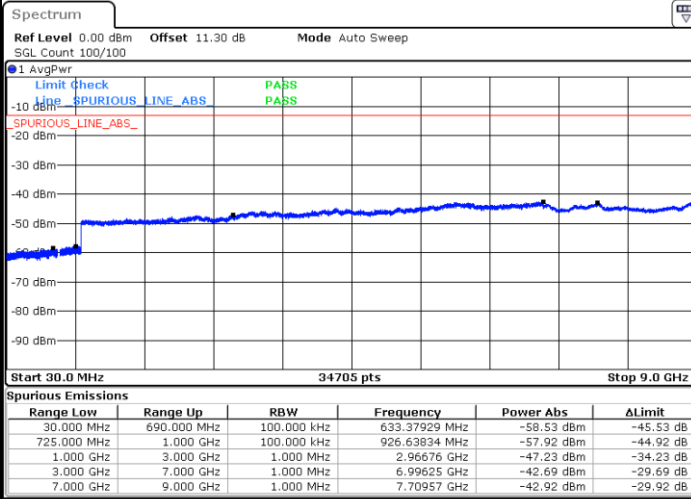


## LTE Band 66B / 5MHz+10MHz

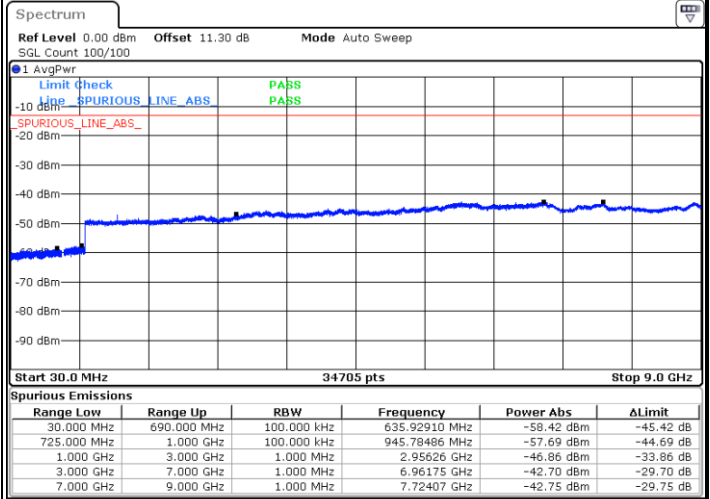
## QPSK

## Highest Channel / 1RB0 and 1RB49

## Highest Channel / 1RB24 and 1RB0



Date: 24.JUN.2025 10:01:51



Date: 24.JUN.2025 10:00:16



## LTE Band 13

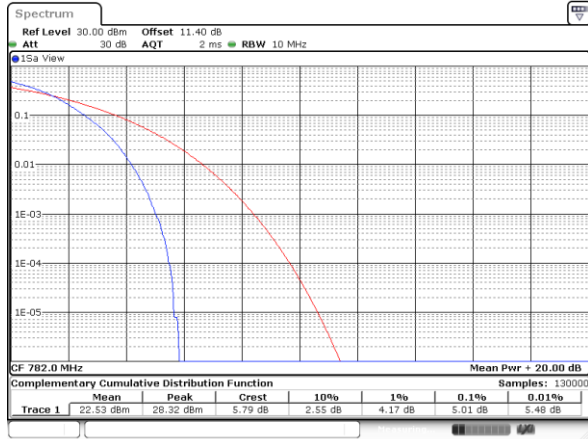
### Peak-to-Average Ratio

| Mode      | LTE Band 13 / 10MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 5.01                | 5.88    | 6.29    | 6.55    | PASS        |



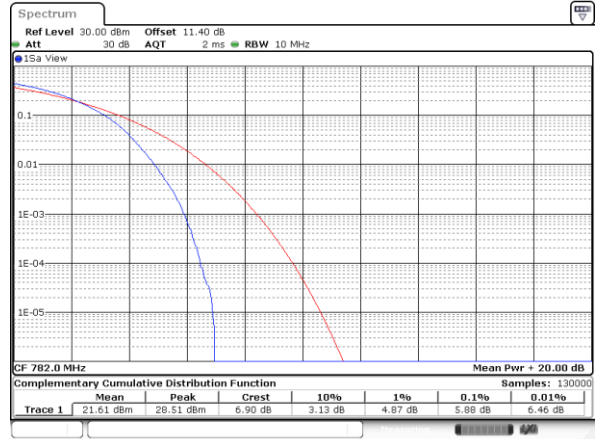
## LTE Band 13 / 10MHz / QPSK

## Middle Channel / Full RB



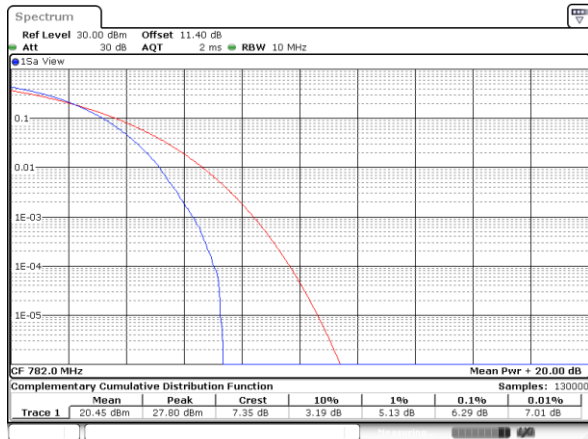
## LTE Band 13 / 10MHz / 16QAM

## Middle Channel / Full RB



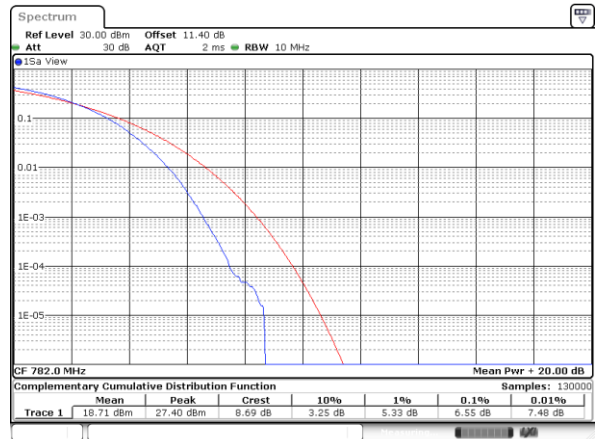
## LTE Band 13 / 10MHz / 64QAM

## Middle Channel / Full RB



## LTE Band 13 / 10MHz / 256QAM

## Middle Channel / Full RB



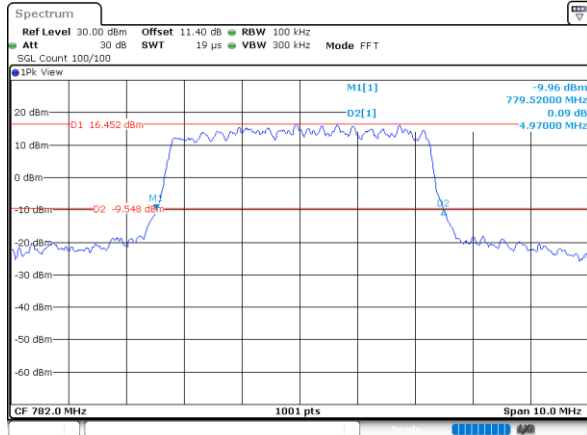
**26dB Bandwidth**

| Mode      | LTE Band 13 : 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 | -                          | -      | -     | -      | 4.97  | 4.81   | 10.12 | 10.04  | -     | -      | -     | -      |
| Mode      | LTE Band 13 : 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 | -                          | -      | -     | -      | 4.93  | 4.89   | 9.84  | 9.66   | -     | -      | -     | -      |

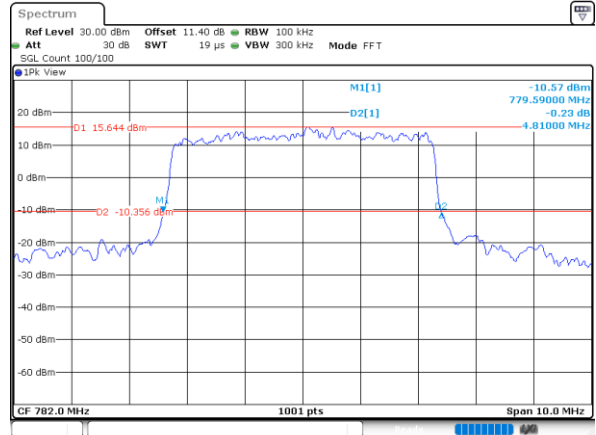


## LTE Band 13

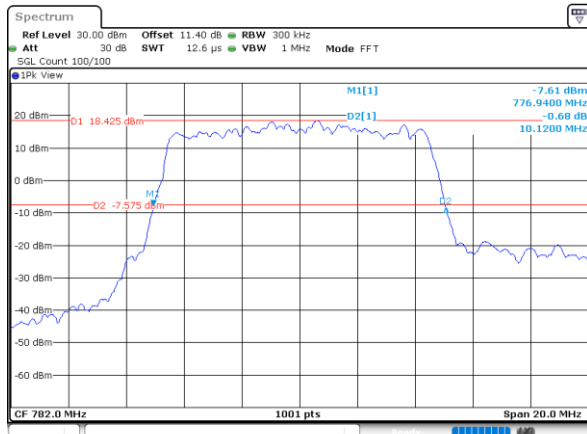
## Middle Channel / 5MHz / QPSK



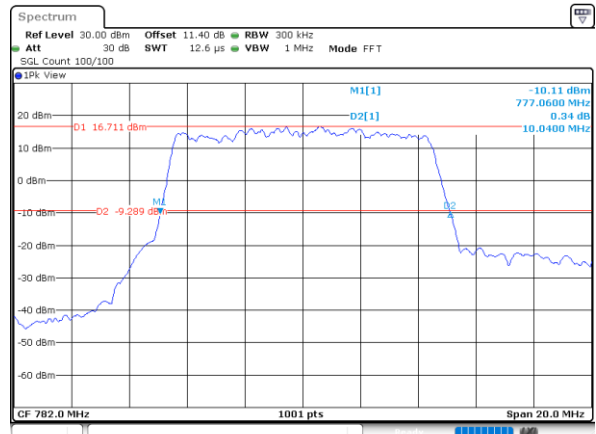
## Middle Channel / 5MHz / 16QAM



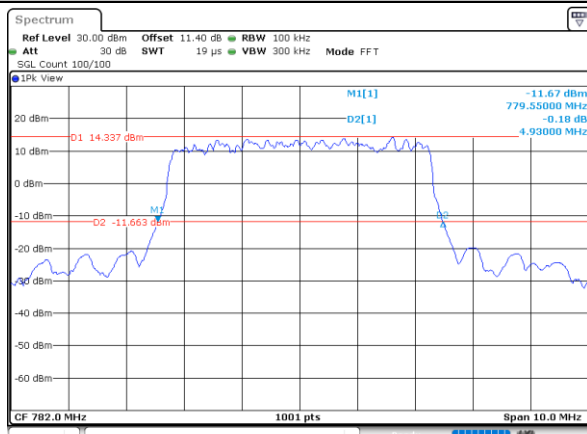
## Middle Channel / 10MHz / QPSK



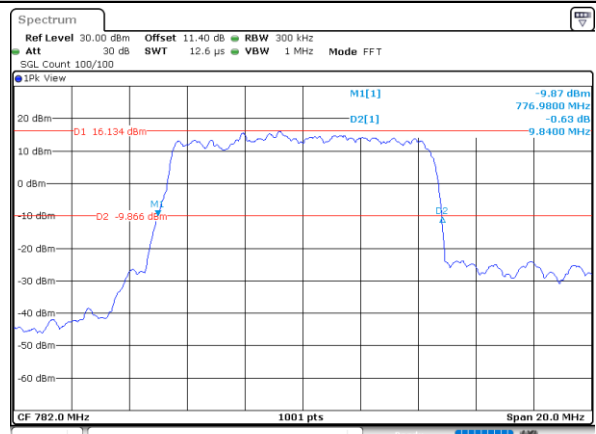
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 5MHz / 64QAM



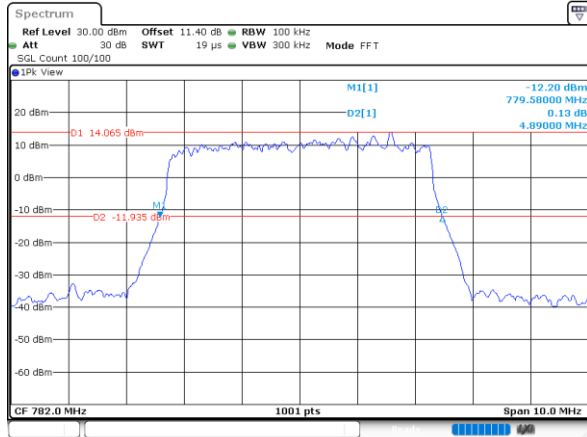
## Middle Channel / 10MHz / 64QAM





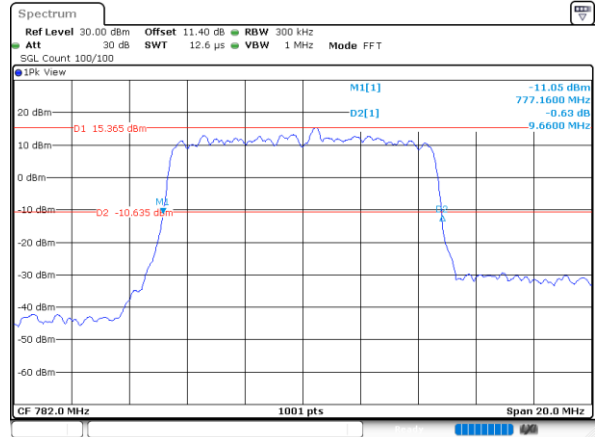
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 27.MAY.2025 02:06:46

Middle Channel / 10MHz / 256QAM



Date: 27.MAY.2025 02:08:19

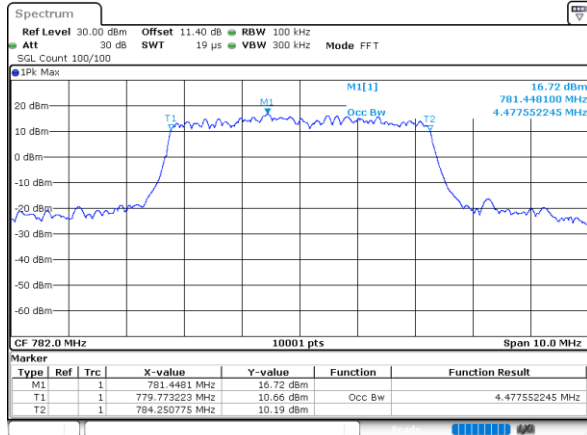
**Occupied Bandwidth**

| Mode      | LTE Band 13 : 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 | -                         | -      | -     | -      | 4.47  | 4.48   | 8.98  | 8.98   | -     | -      | -     | -      |
| Mode      | LTE Band 13 : 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 | -                         | -      | -     | -      | 4.47  | 4.48   | 9.08  | 9.00   | -     | -      | -     | -      |

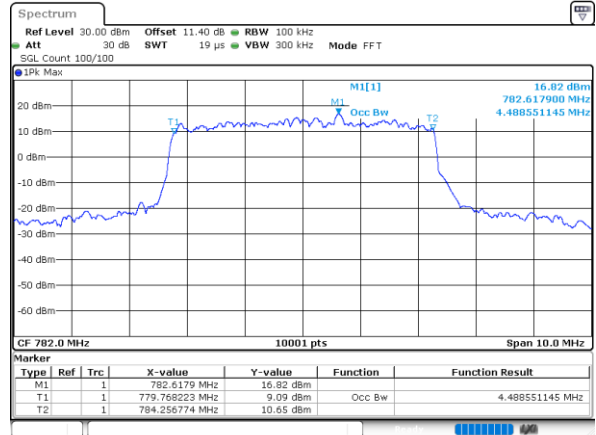


## LTE Band 13

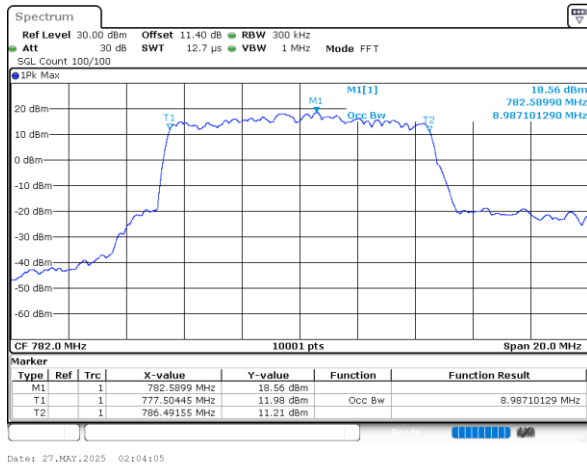
## Middle Channel / 5MHz / QPSK



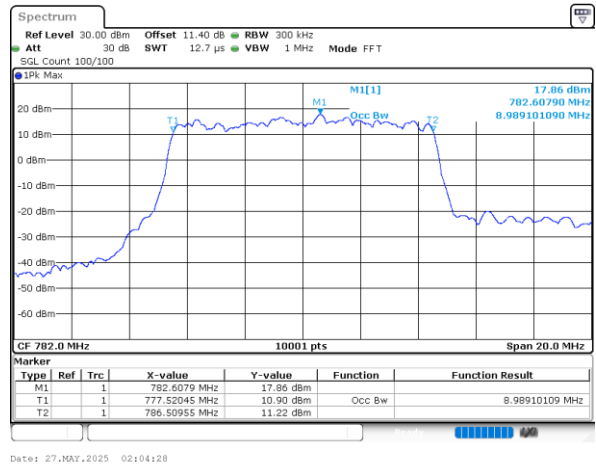
## Middle Channel / 5MHz / 16QAM



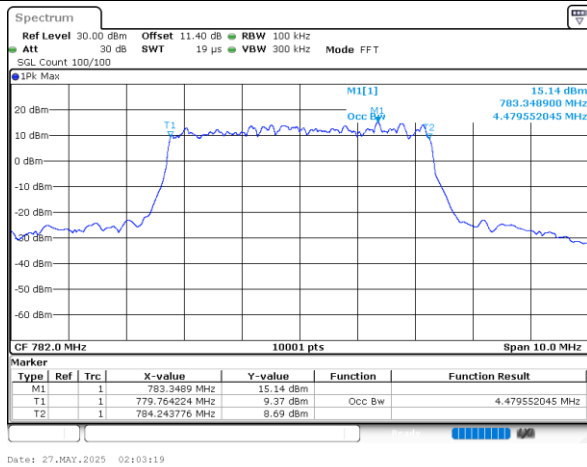
## Middle Channel / 10MHz / QPSK



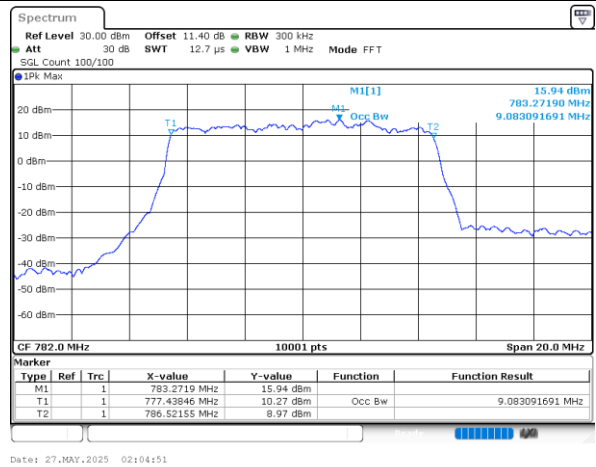
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 5MHz / 64QAM



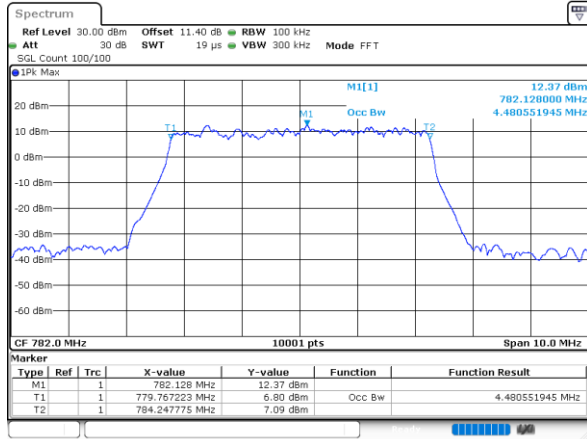
## Middle Channel / 10MHz / 64QAM





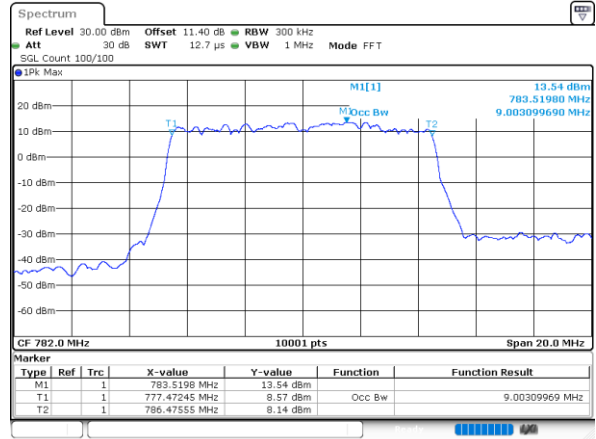
## LTE Band 13

## Middle Channel / 5MHz / 256QAM

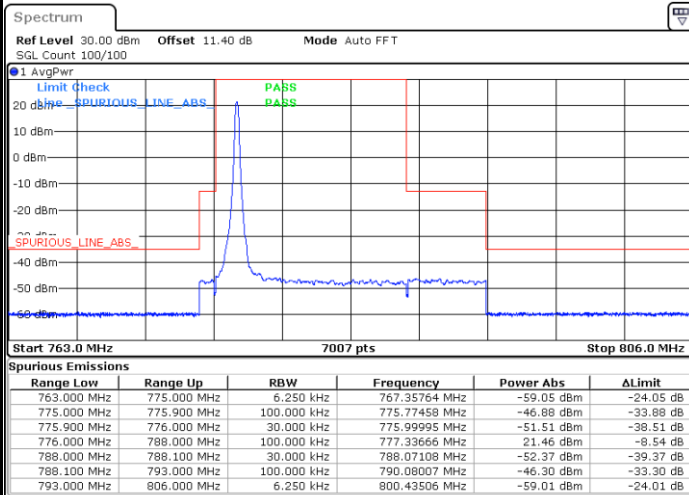
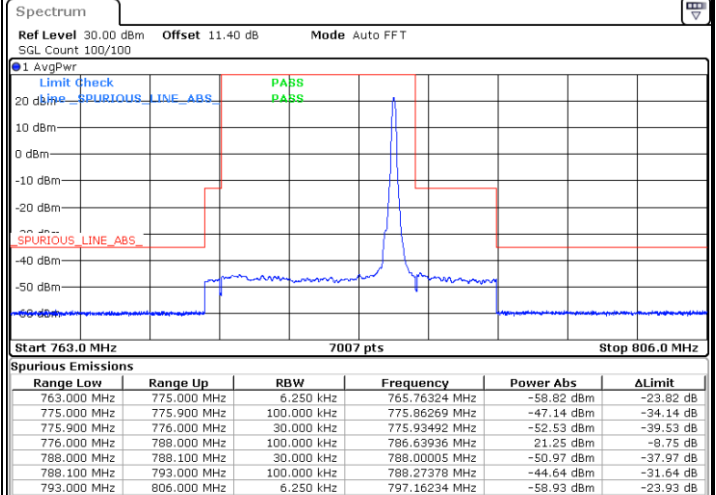
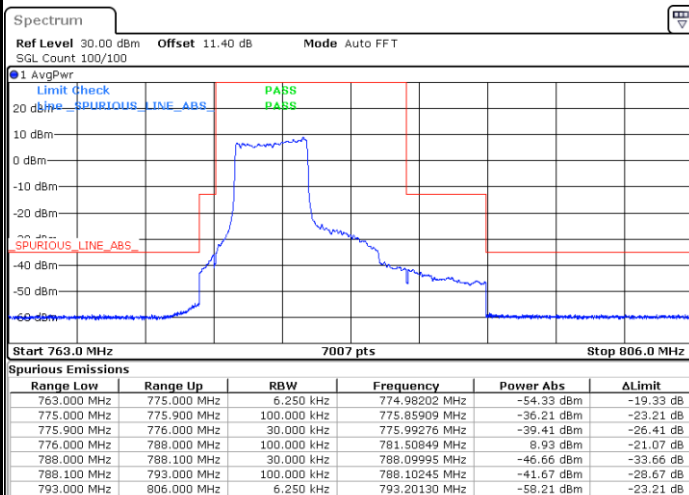
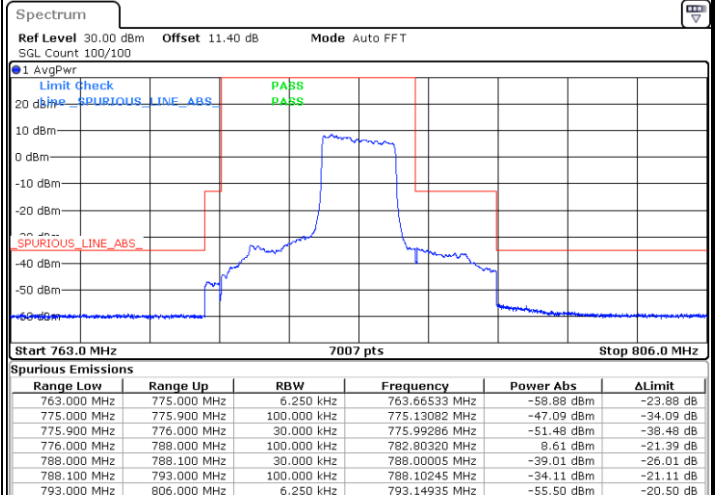


Date: 27.MAY.2025 02:03:41

## Middle Channel / 10MHz / 256QAM



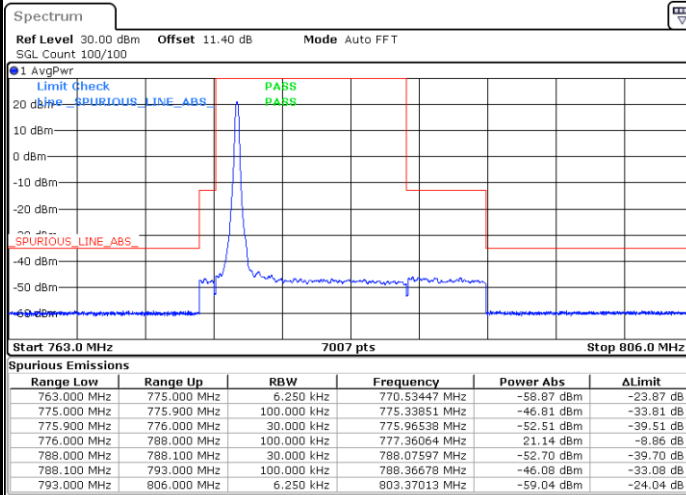
Date: 27.MAY.2025 02:05:13

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



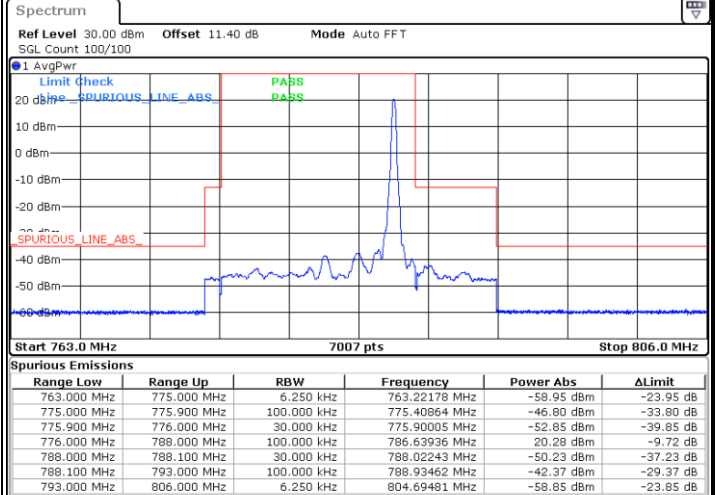
## LTE Band 13 / 5MHz / 16QAM

## Lowest Band Edge / 1 RB



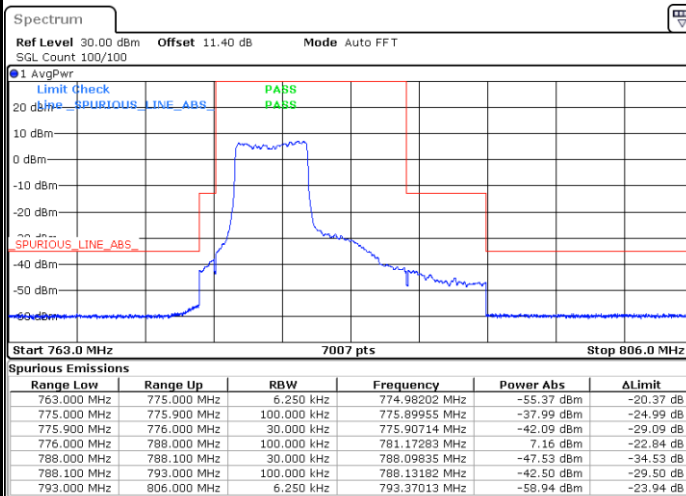
Date: 27.MAY.2025 01:44:40

## Highest Band Edge / 1 RB



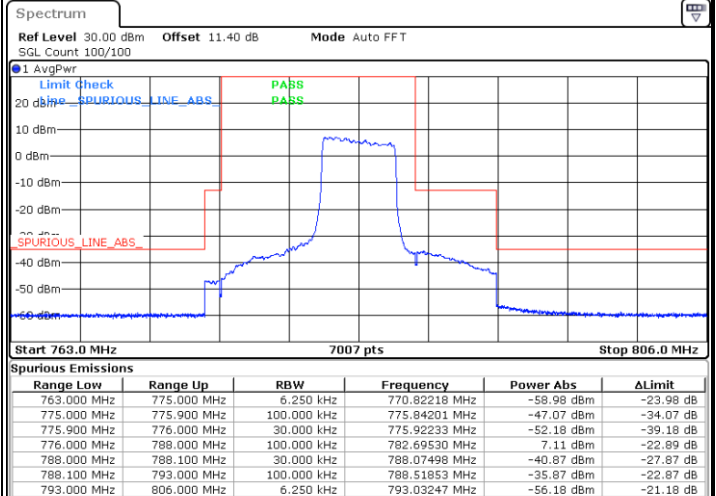
Date: 27.MAY.2025 01:50:24

## Lowest Band Edge / Full RB



Date: 27.MAY.2025 01:41:46

## Highest Band Edge / Full RB

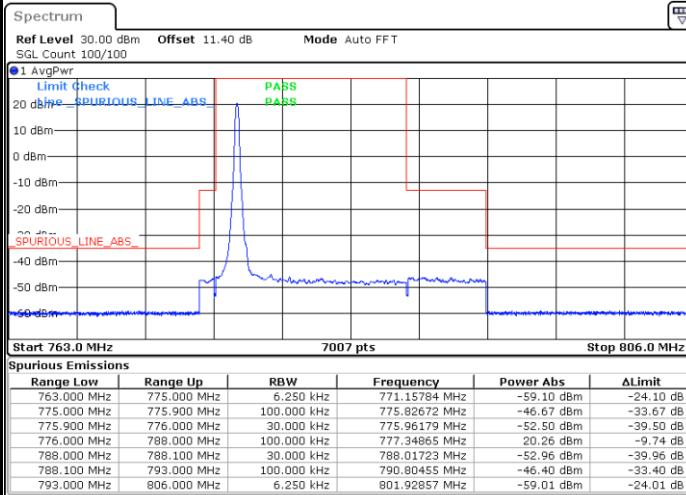


Date: 27.MAY.2025 01:47:31



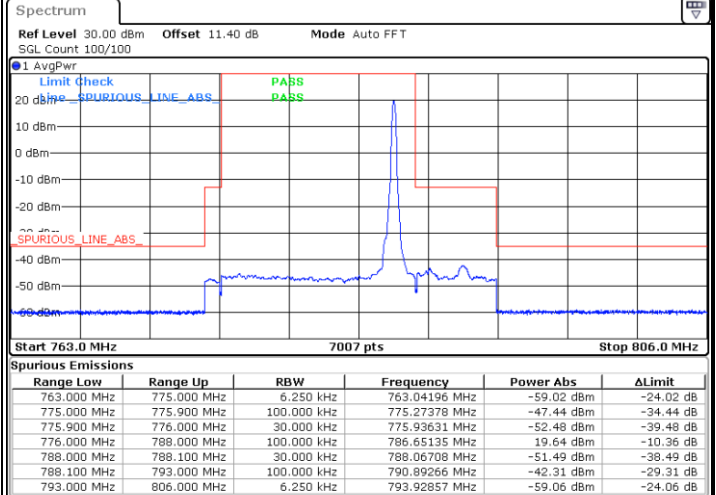
## LTE Band 13 / 5MHz / 64QAM

## Lowest Band Edge / 1 RB



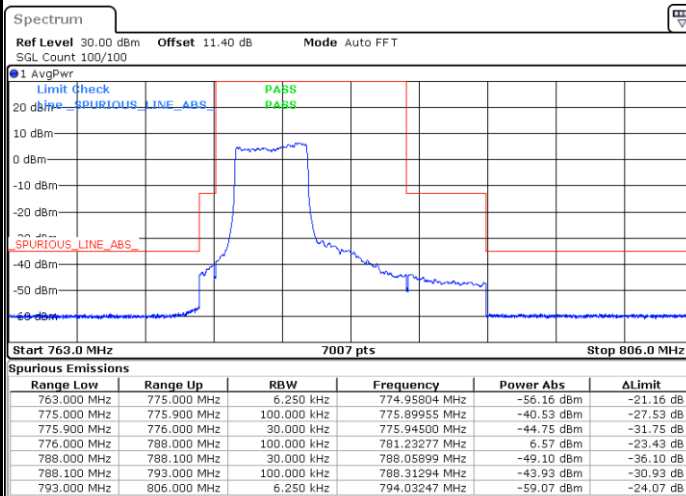
Date: 27.MAY.2025 01:45:23

## Highest Band Edge / 1 RB



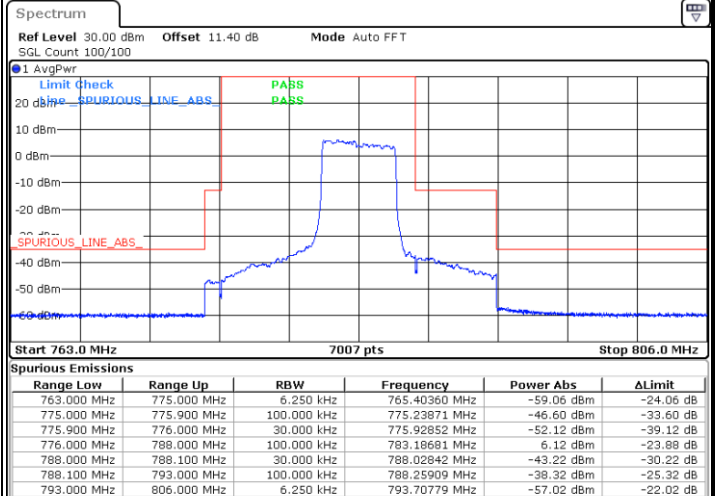
Date: 27.MAY.2025 01:51:07

## Lowest Band Edge / Full RB



Date: 27.MAY.2025 01:42:29

## Highest Band Edge / Full RB

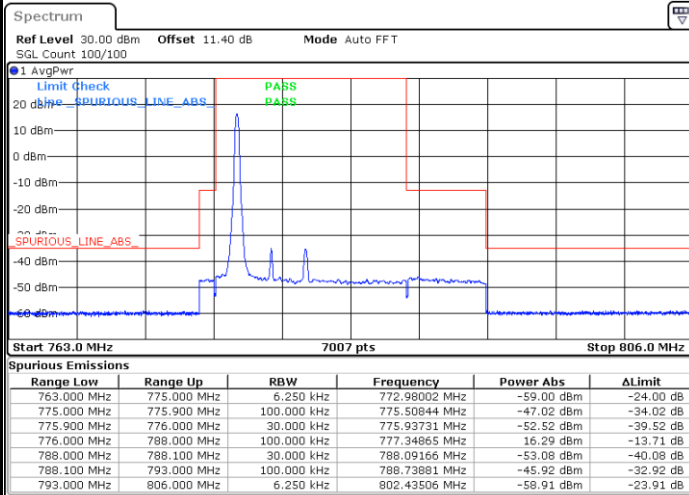


Date: 27.MAY.2025 01:48:13



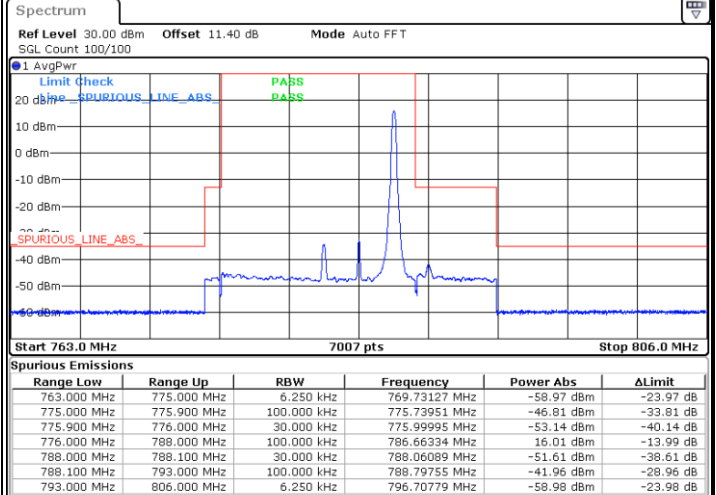
## LTE Band 13 / 5MHz / 256QAM

## Lowest Band Edge / 1 RB



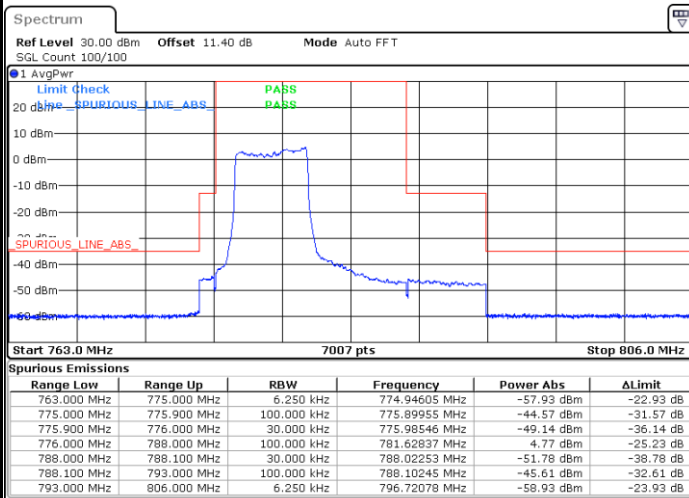
Date: 27.MAY.2025 01:46:05

## Highest Band Edge / 1 RB



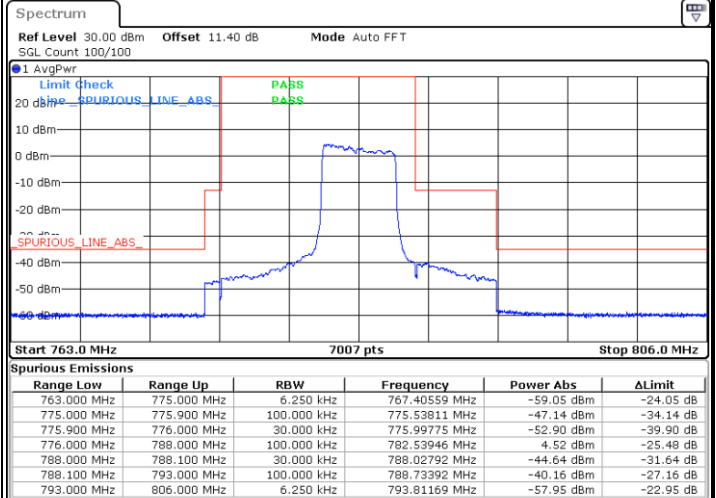
Date: 27.MAY.2025 01:51:49

## Lowest Band Edge / Full RB



Date: 27.MAY.2025 01:43:12

## Highest Band Edge / Full RB

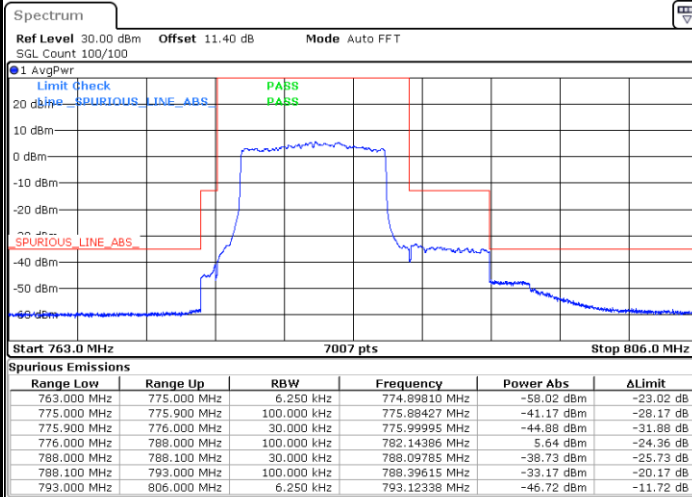


Date: 27.MAY.2025 01:48:56



## LTE Band 13 / 10MHz / QPSK

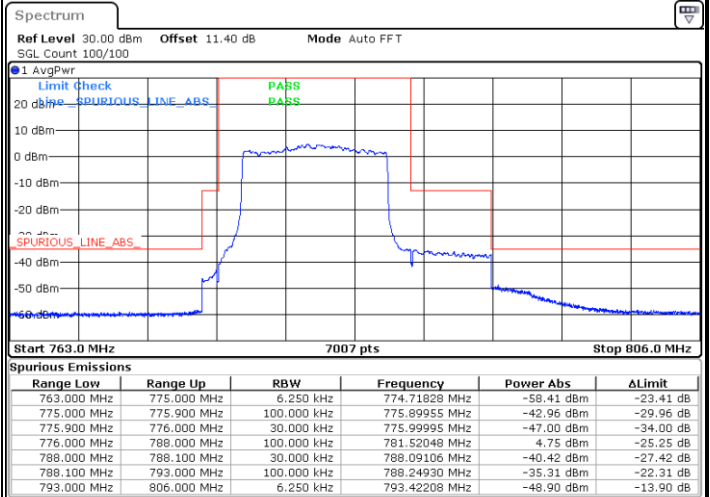
## Band Edge / Full RB



Date: 27.MAY.2025 02:00:02

## LTE Band 13 / 10MHz / 16QAM

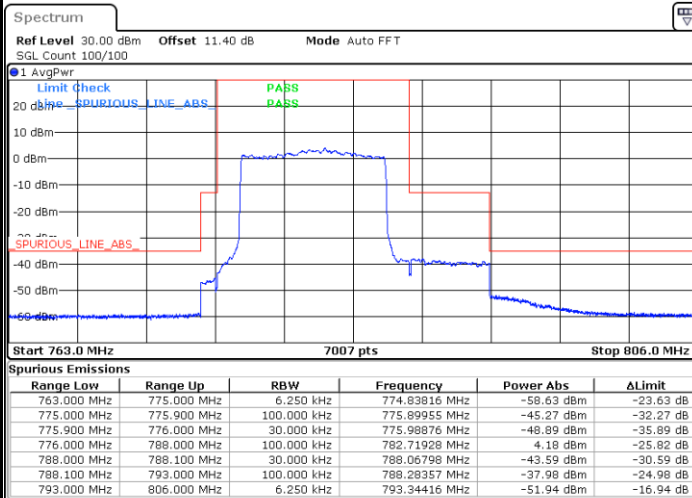
## Band Edge / Full RB



Date: 27.MAY.2025 02:00:44

## LTE Band 13 / 10MHz / 64QAM

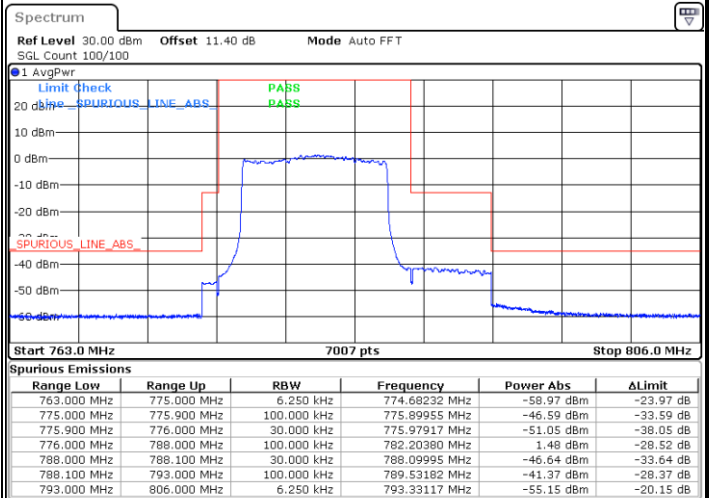
## Band Edge / Full RB



Date: 27.MAY.2025 02:01:26

## LTE Band 13 / 10MHz / 256QAM

## Band Edge / Full RB



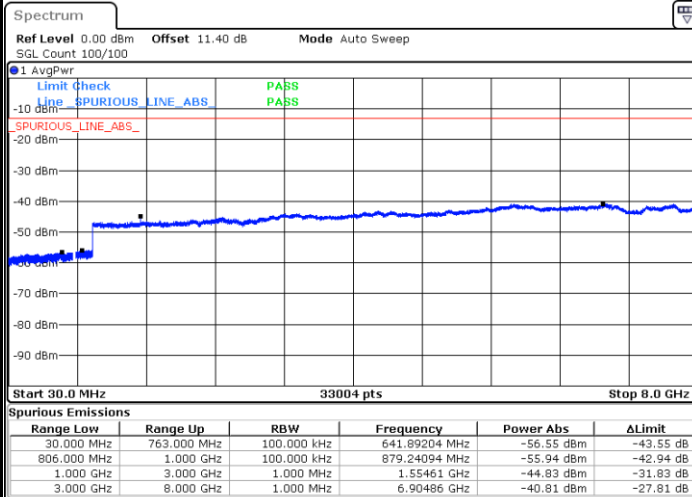
Date: 27.MAY.2025 02:02:08



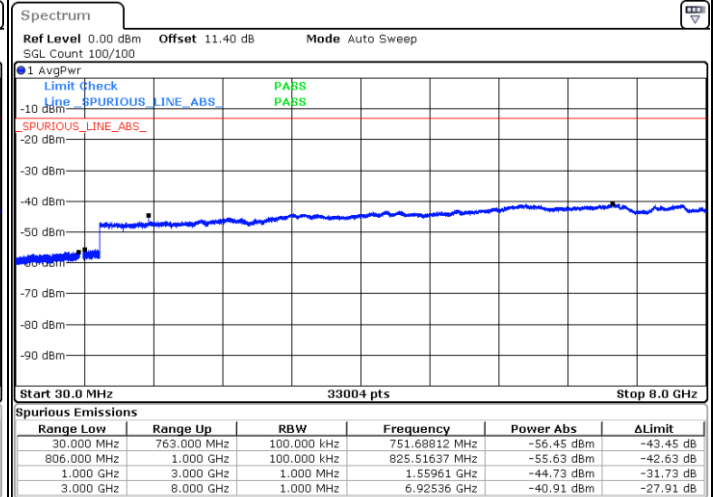
## Conducted Spurious Emission

### LTE Band 13 / 5MHz

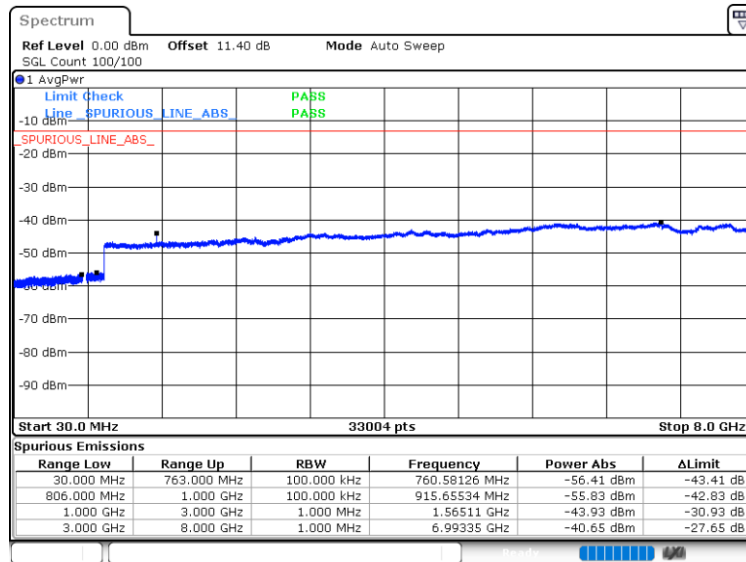
#### Lowest Channel / QPSK



#### Middle Channel / QPSK



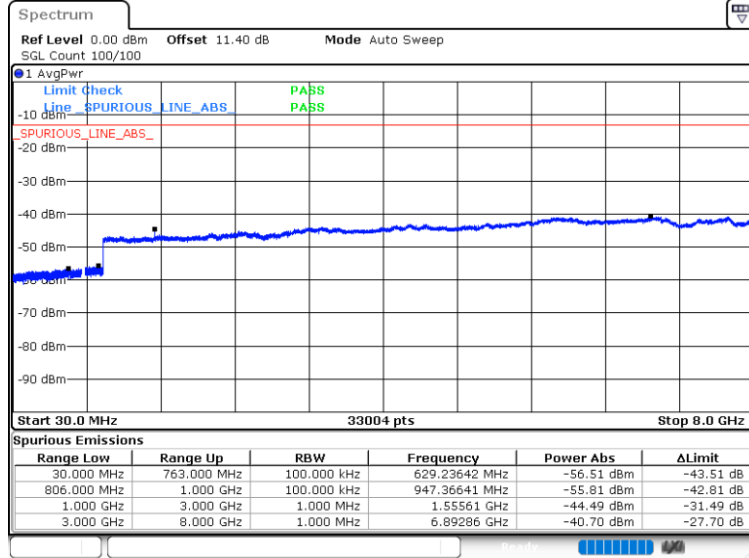
#### Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 27.MAY.2025 02:14:45

## 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  | 0.0136                              | PASS    |
| 40               | Normal Voltage  | 0.0006                              |         |
| 30               | Normal Voltage  | 0.0091                              |         |
| 20(Ref.)         | Normal Voltage  | 0.0000                              |         |
| 10               | Normal Voltage  | 0.0061                              |         |
| 0                | Normal Voltage  | 0.0157                              |         |
| -10              | Normal Voltage  | 0.0155                              |         |
| -20              | Normal Voltage  | 0.0092                              |         |
| -30              | Normal Voltage  | 0.0059                              |         |
| 20               | Maximum Voltage | 0.0150                              |         |
| 20               | Normal Voltage  | 0.0000                              |         |
| 20               | Minimum Voltage | 0.0029                              |         |

**Note:**

1. Normal Voltage =3.3 V. ; Minimum Voltage =3.135 V. ; Maximum Voltage =3.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 14

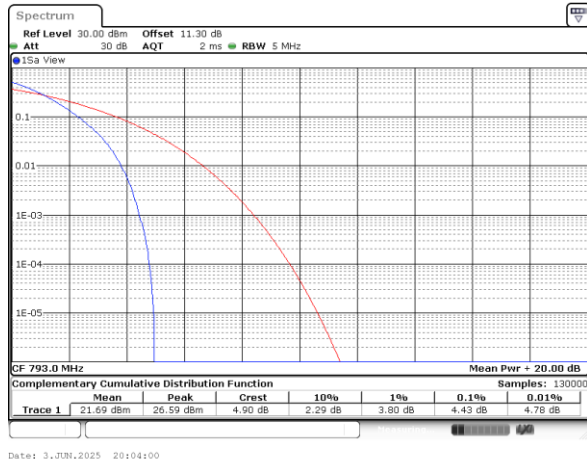
### Peak-to-Average Ratio

| Mode      | LTE Band 14 / 5MHz  |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.43                | 5.36    | 5.86    | 6.52    | <b>PASS</b> |
| Mode      | LTE Band 14 / 10MHz |         |         |         |             |
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 4.78                | 5.59    | 6.14    | 6.41    | <b>PASS</b> |



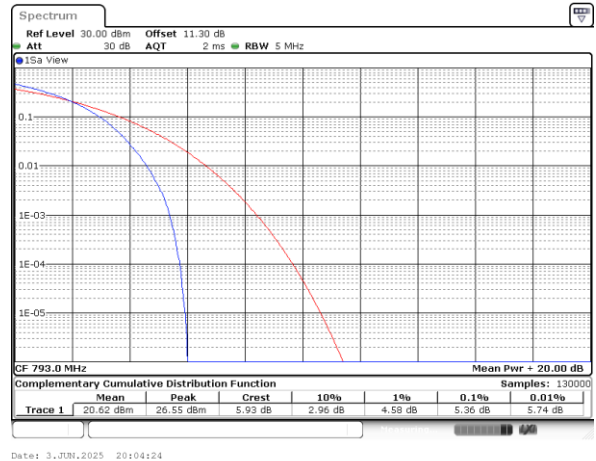
## LTE Band 14 / 5MHz / QPSK

## Middle Channel / Full RB



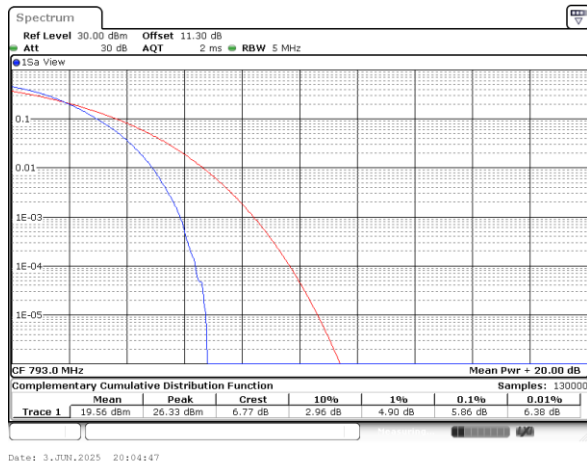
## LTE Band 14 / 5MHz / 16QAM

## Middle Channel / Full RB



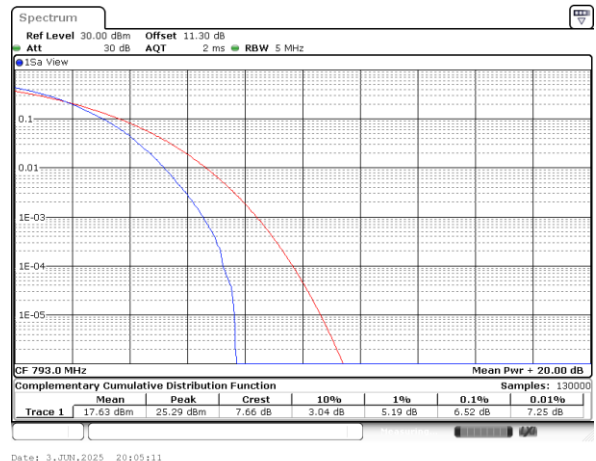
## LTE Band 14 / 5MHz / 64QAM

## Middle Channel / Full RB



## LTE Band 14 / 5MHz / 256QAM

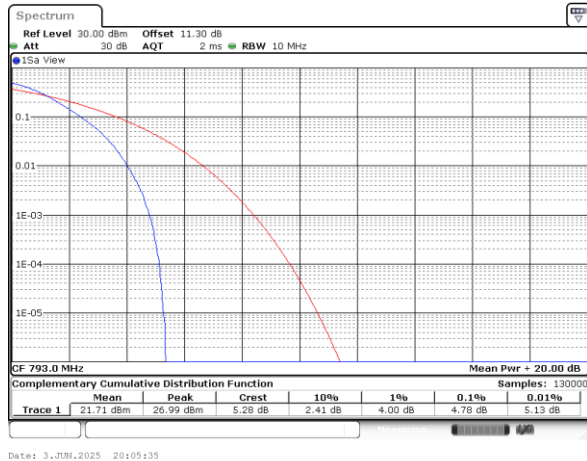
## Middle Channel / Full RB





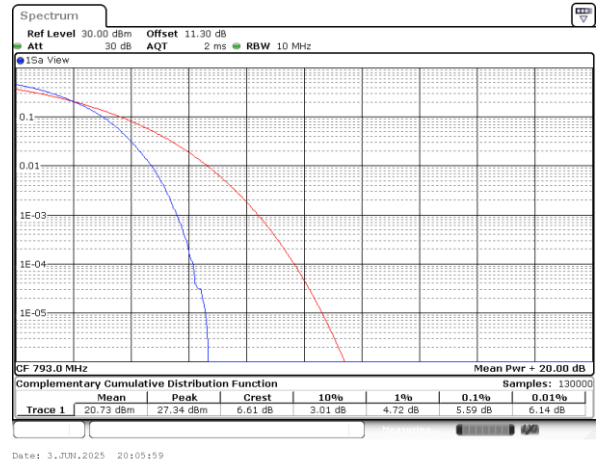
## LTE Band 14 / 10MHz / QPSK

## Middle Channel / Full RB



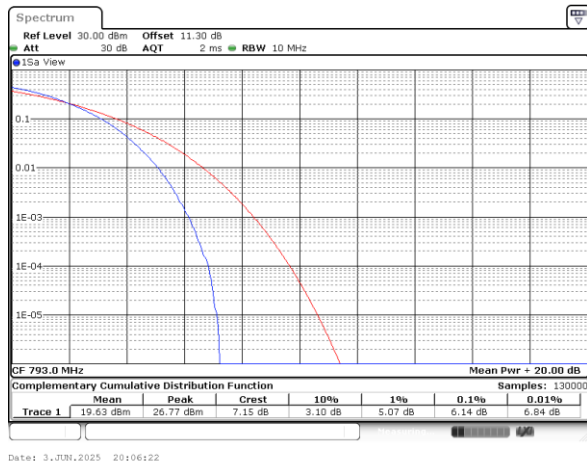
## LTE Band 14 / 10MHz / 16QAM

## Middle Channel / Full RB



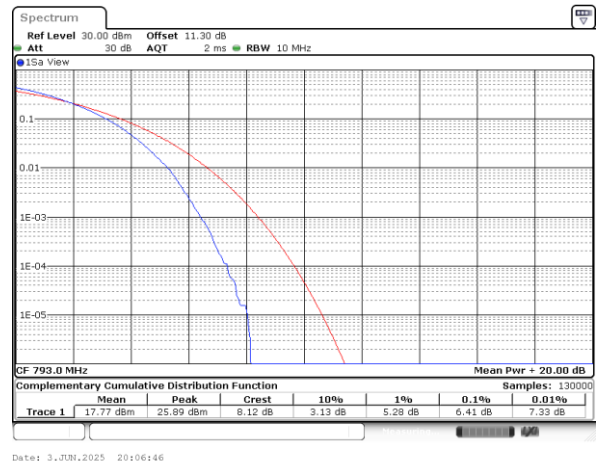
## LTE Band 14 / 10MHz / 64QAM

## Middle Channel / Full RB



## LTE Band 14 / 10MHz / 256QAM

## Middle Channel / Full RB



**26dB Bandwidth**

| Mode      | LTE Band 14 : 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 | -                          | -      | -     | -      | 5.01  | 4.92   | 9.72  | 9.80   | -     | -      | -     | -      |
| Mode      | LTE Band 14 : 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 | -                          | -      | -     | -      | 5.02  | 5.10   | 9.98  | 9.86   | -     | -      | -     | -      |