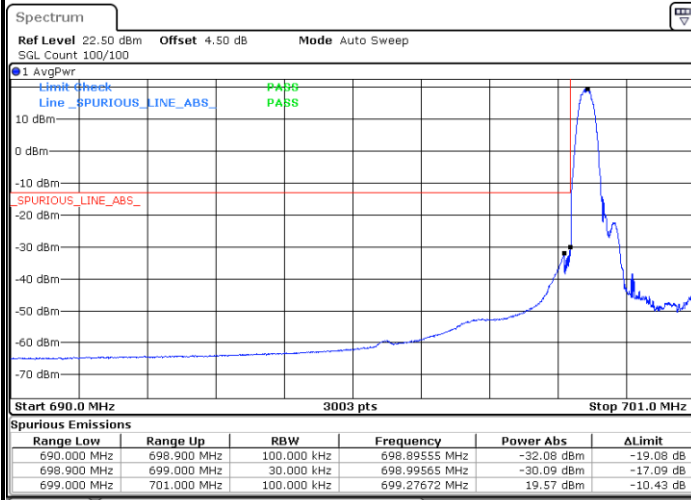


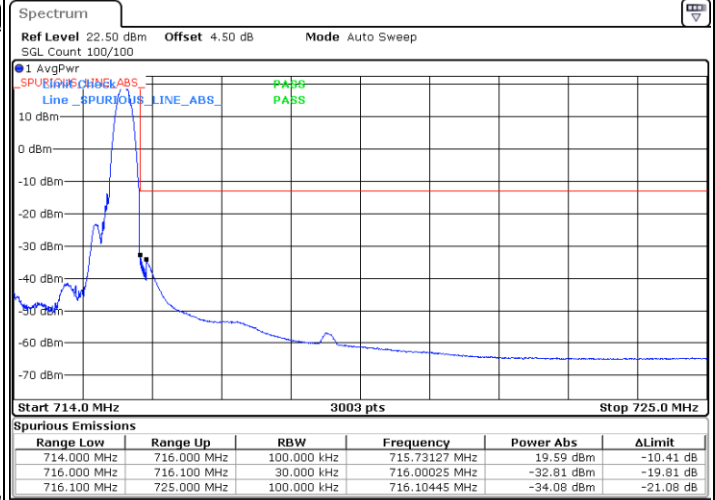


## LTE Band 12 / 1.4MHz / 64QAM

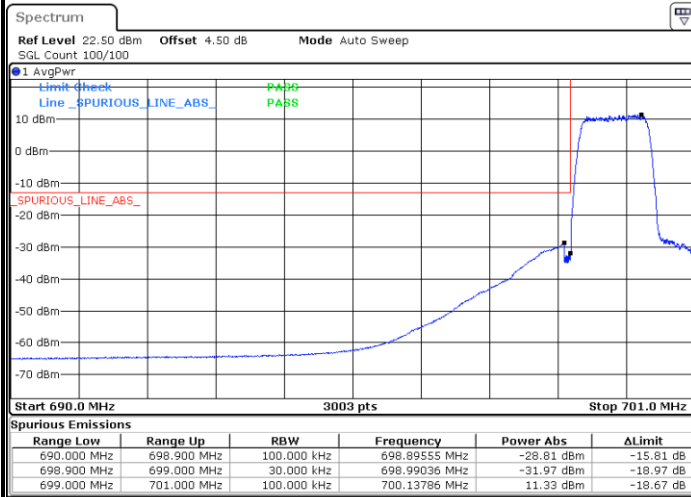
## Lowest Band Edge / 1 RB



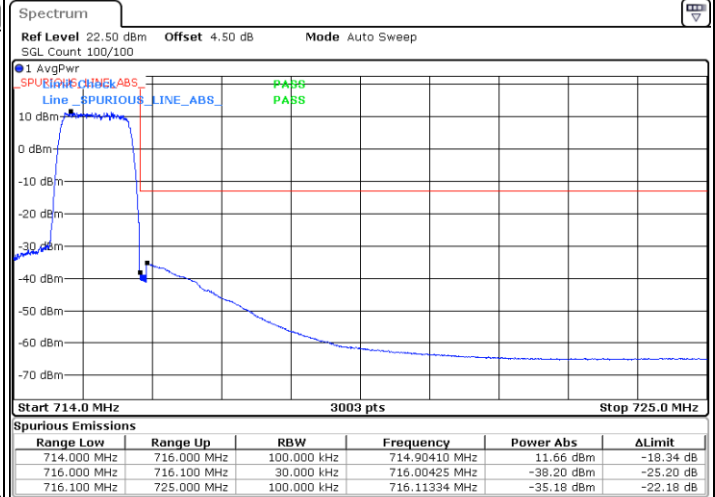
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



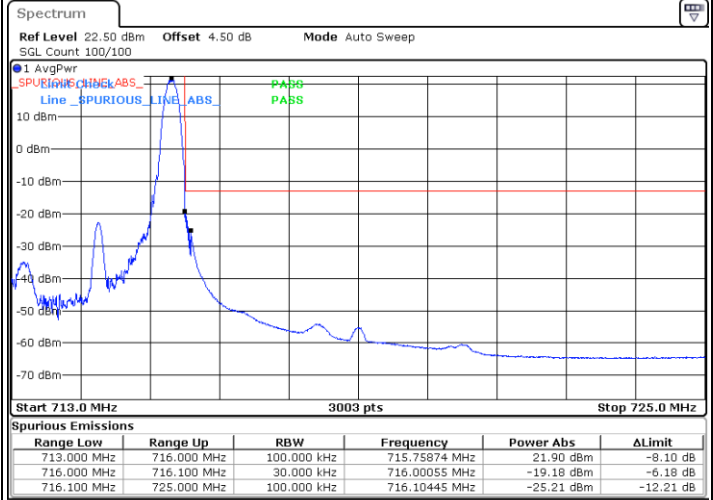


## LTE Band 12 / 3MHz / QPSK

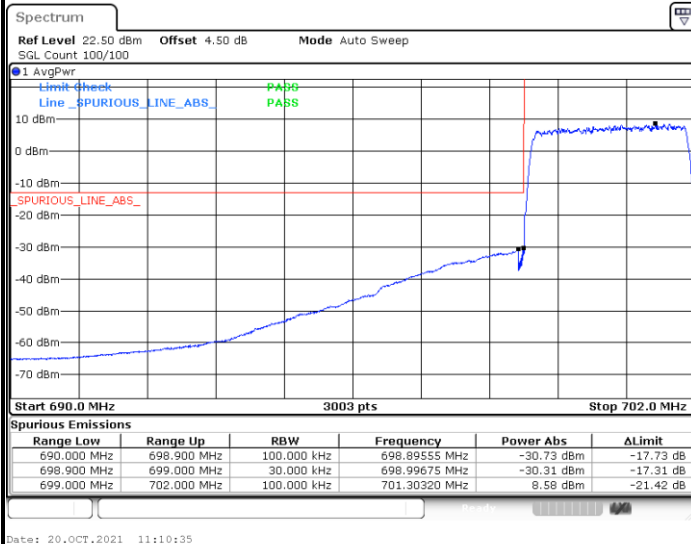
## Lowest Band Edge / 1RB



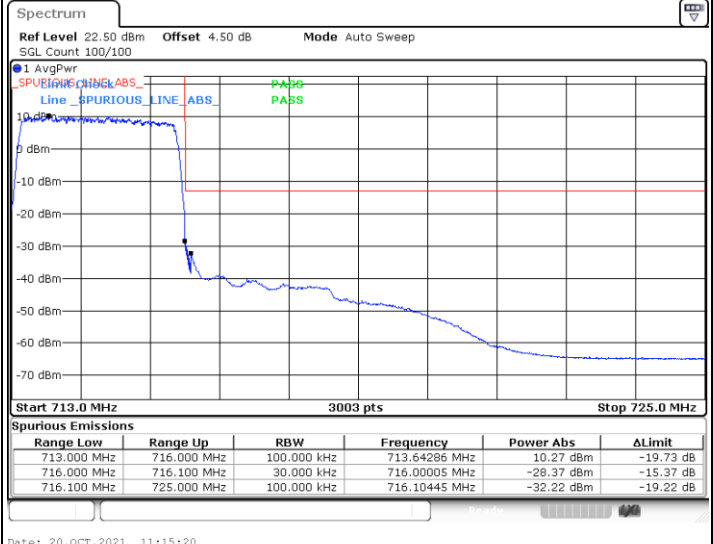
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



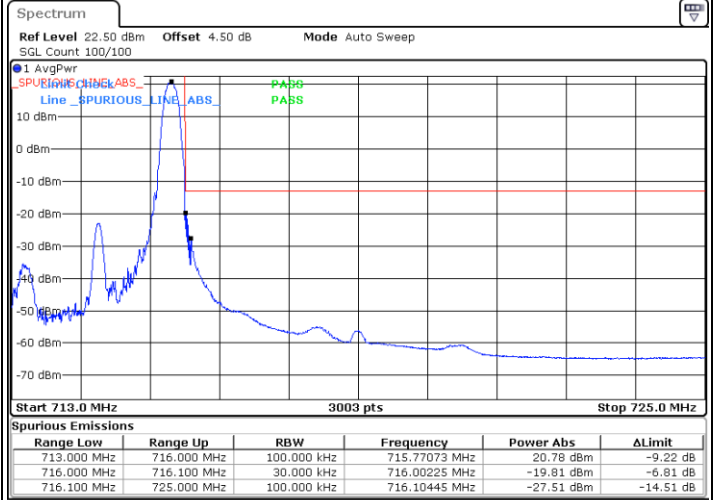


## LTE Band 12 / 3MHz / 16QAM

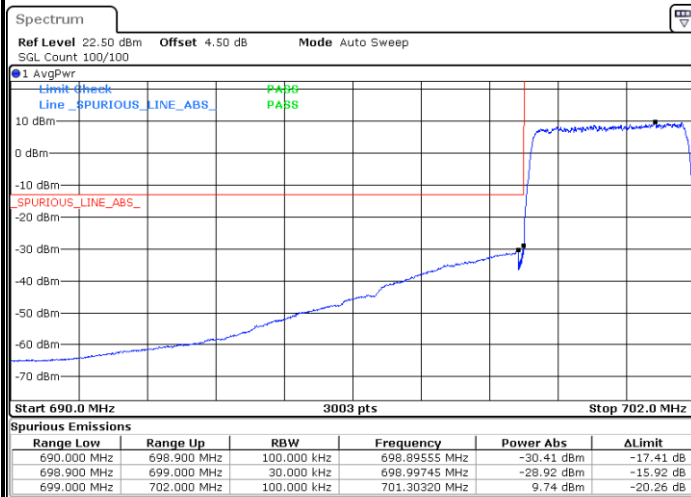
## Lowest Band Edge / 1 RB



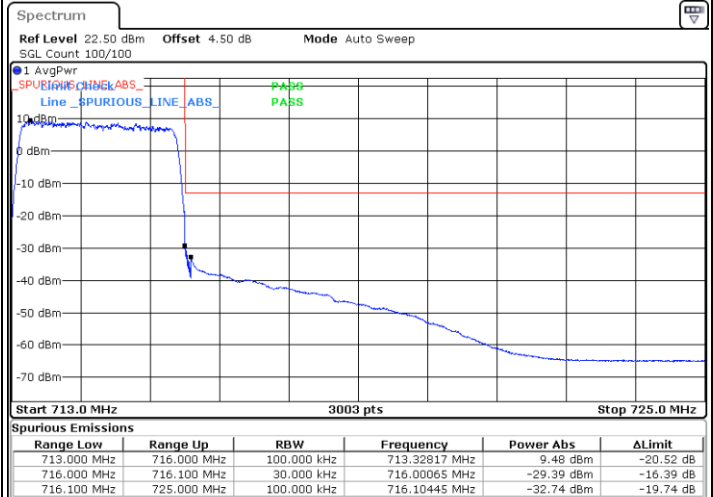
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



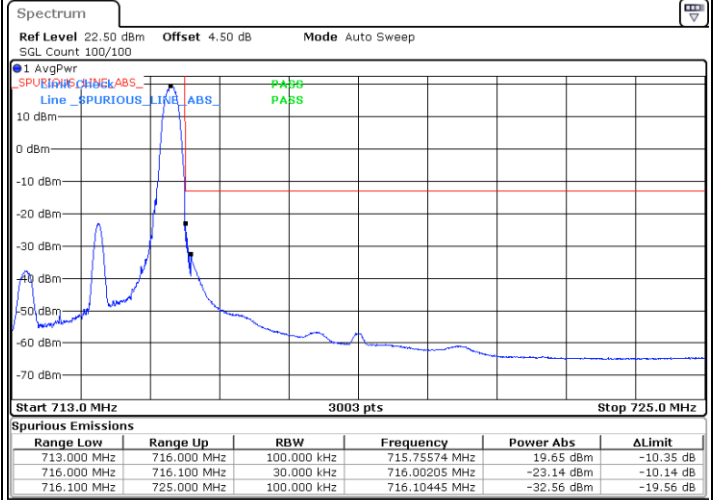


## LTE Band 12 / 3MHz / 64QAM

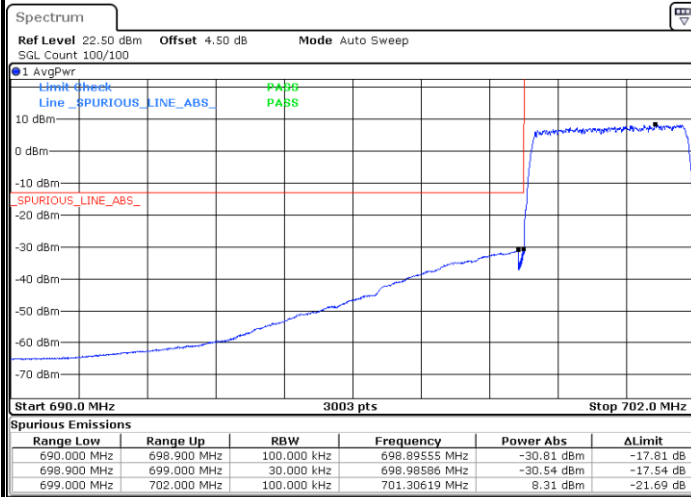
## Lowest Band Edge / 1 RB



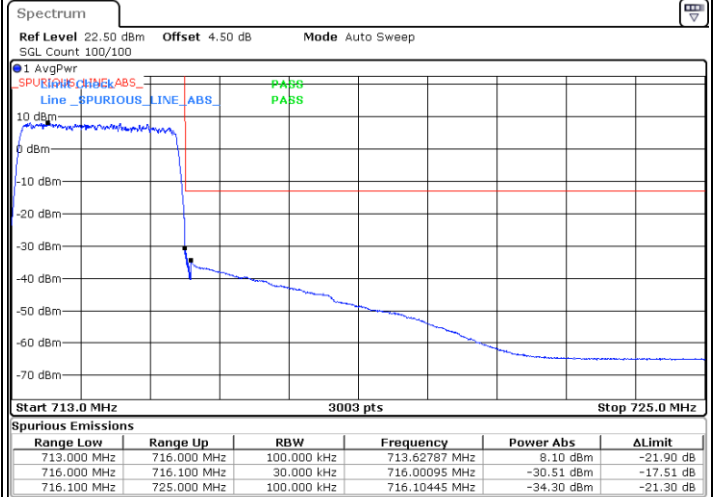
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



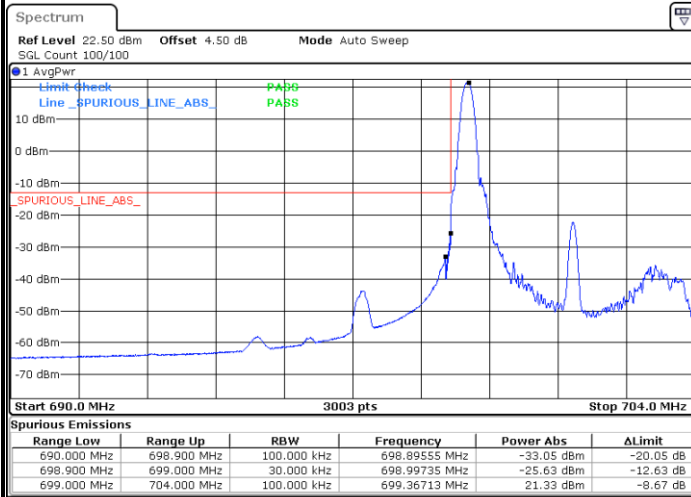
## Highest Band Edge / Full RB



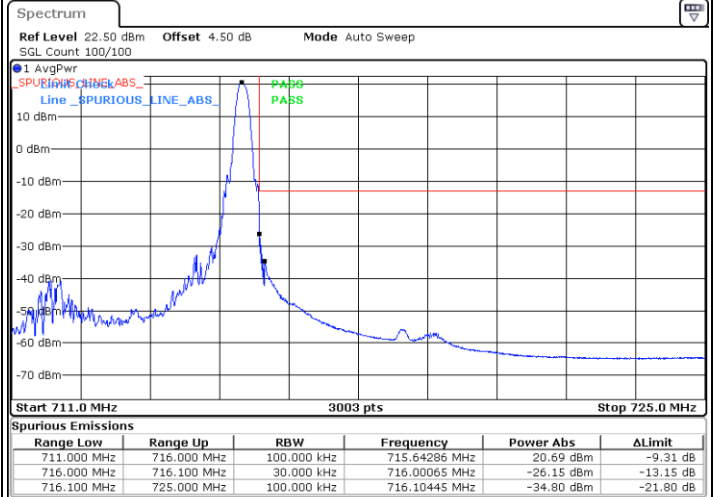


## LTE Band 12 / 5MHz / QPSK

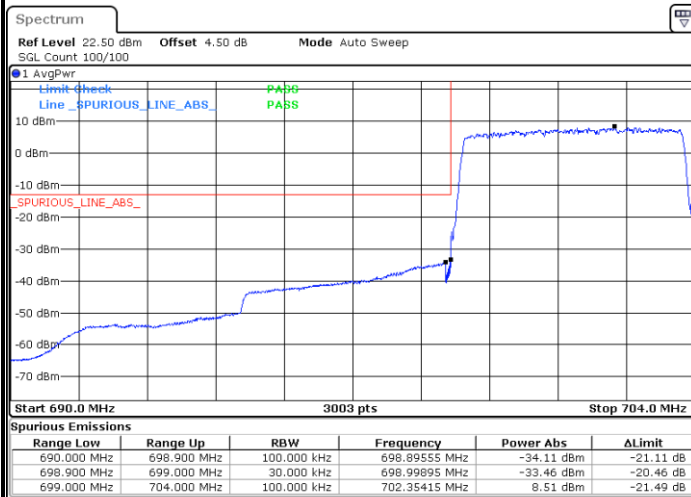
## Lowest Band Edge / 1 RB



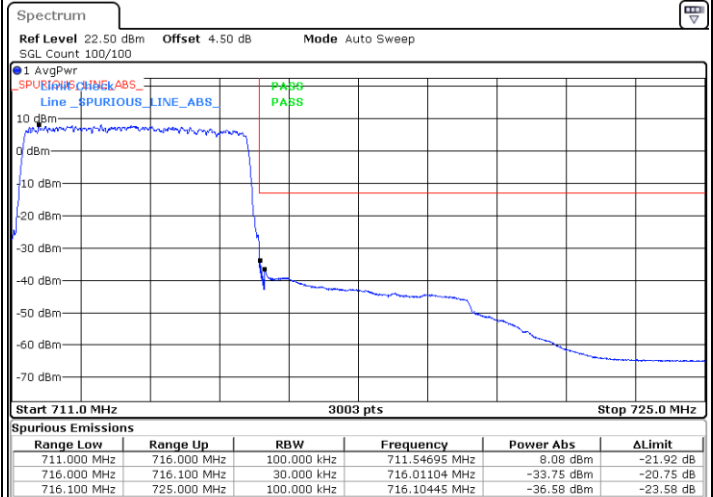
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



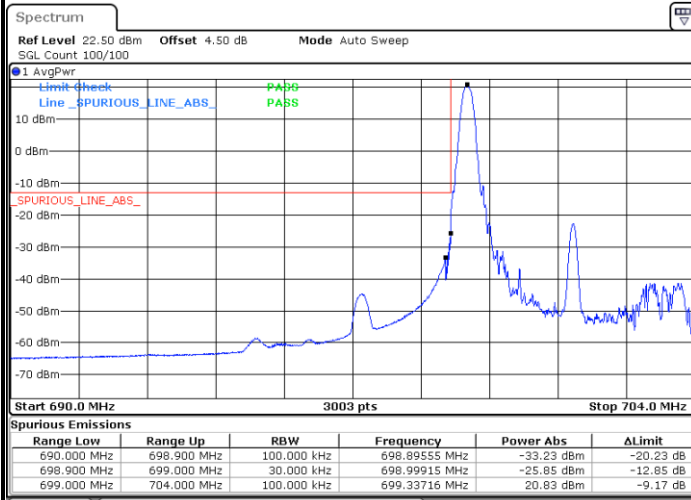
## Highest Band Edge / Full RB



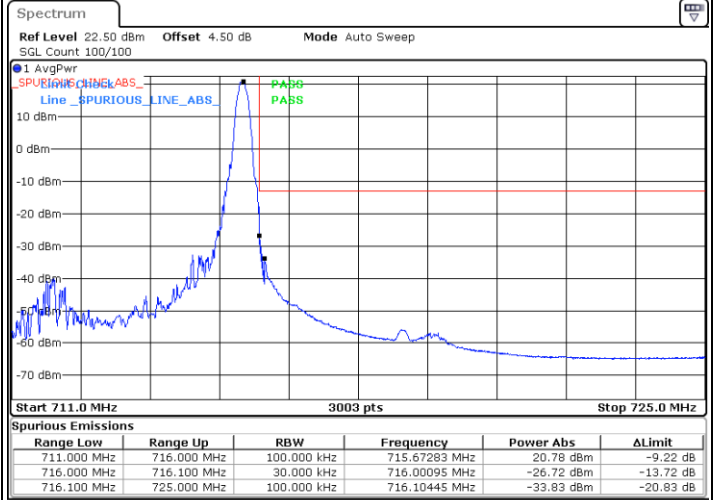


## LTE Band 12 / 5MHz / 16QAM

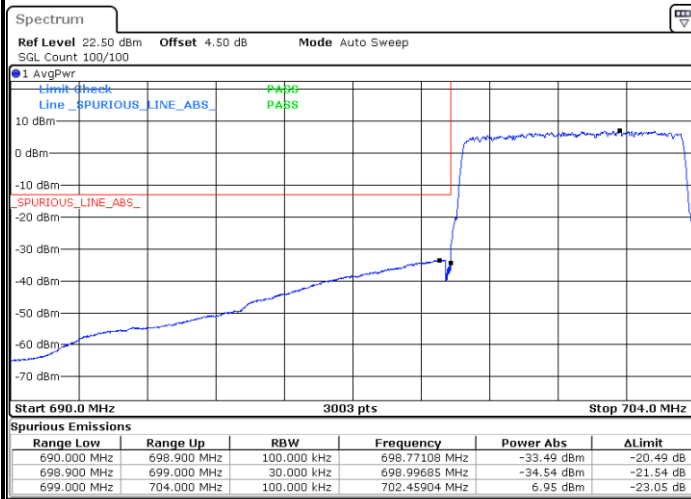
## Lowest Band Edge / 1RB



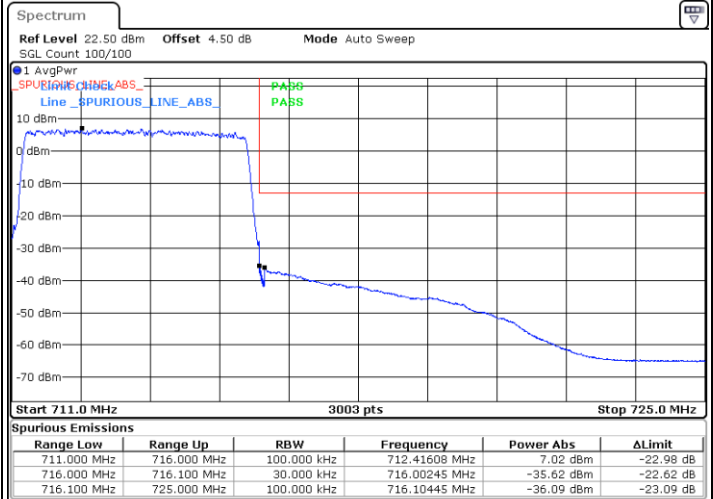
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



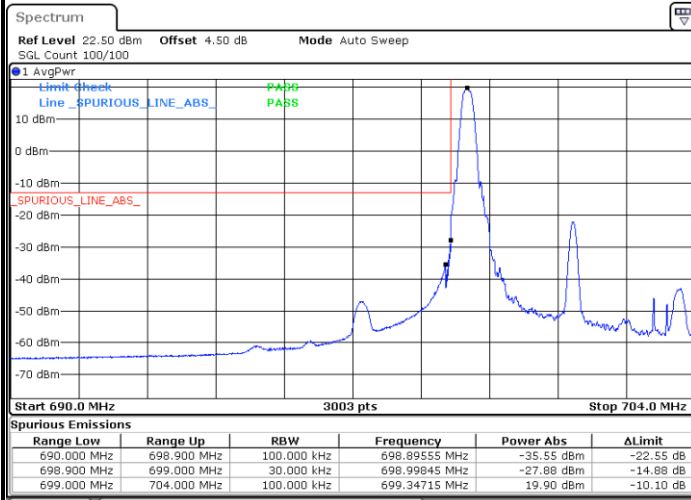
## Highest Band Edge / Full RB



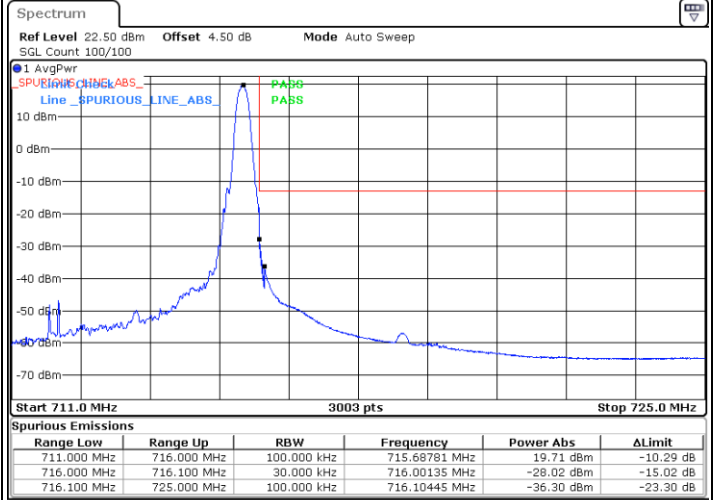


## LTE Band 12 / 5MHz / 64QAM

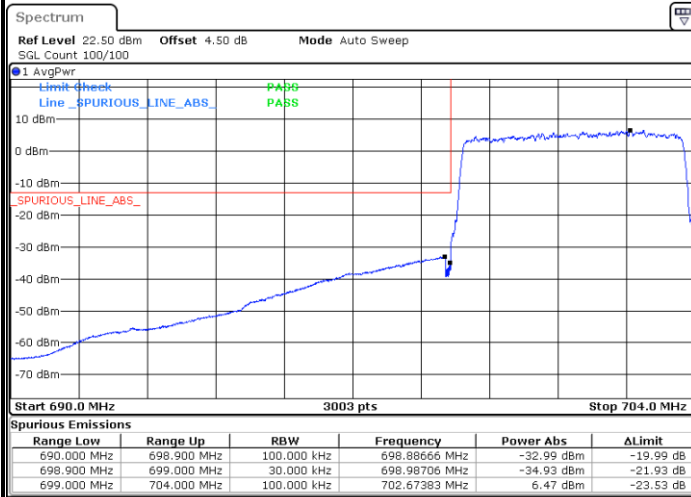
## Lowest Band Edge / 1RB



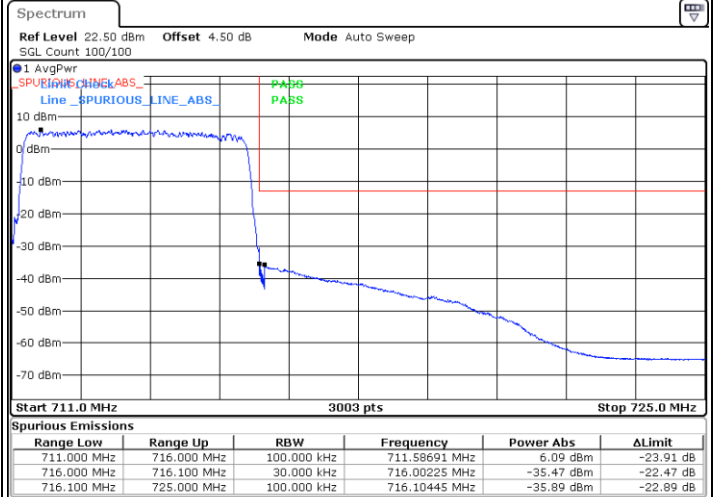
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



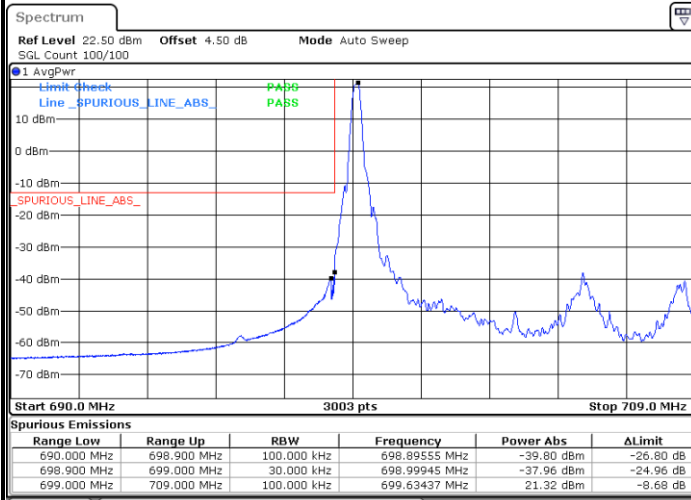
## Highest Band Edge / Full RB



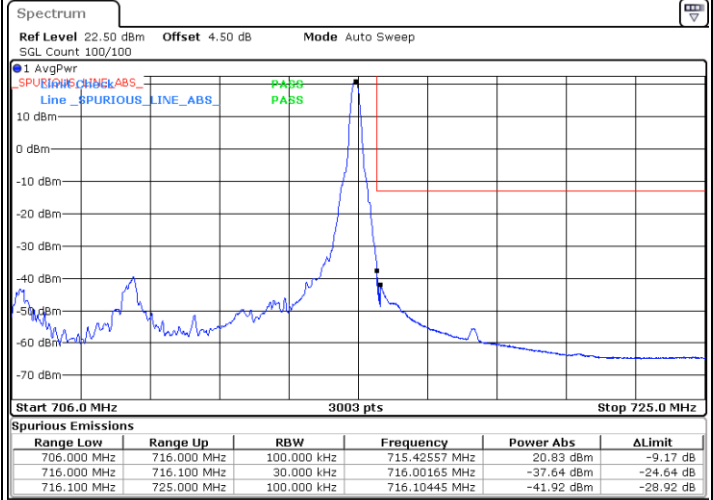


## LTE Band 12 / 10MHz / QPSK

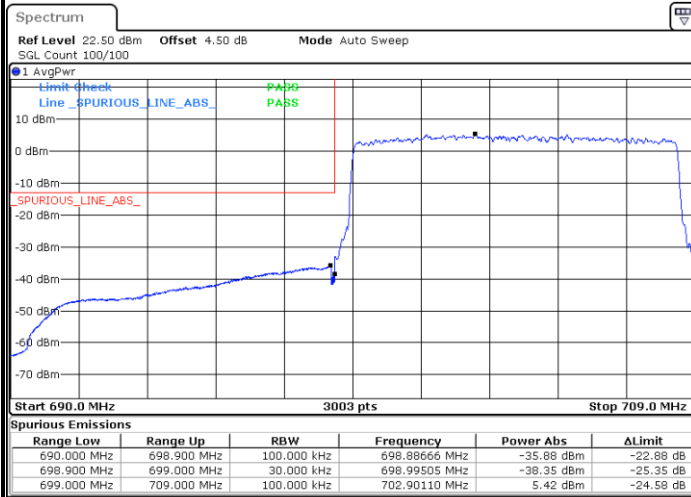
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



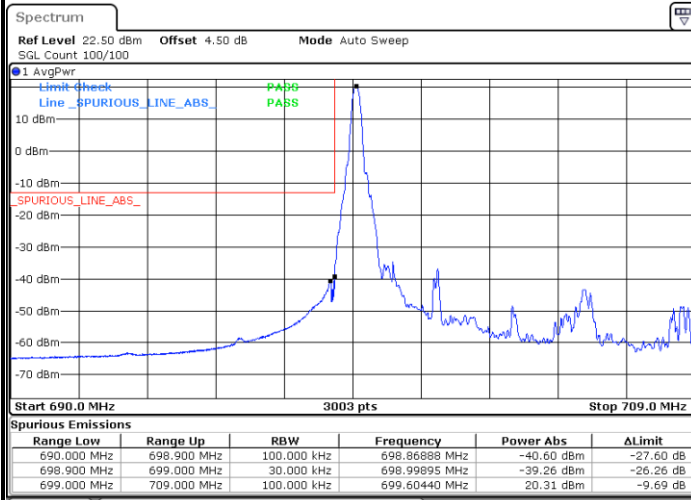
## Highest Band Edge / Full RB



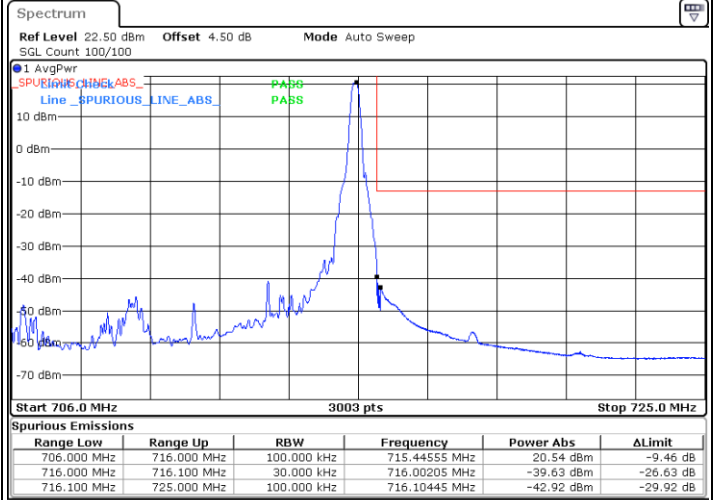


## LTE Band 12 / 10MHz / 16QAM

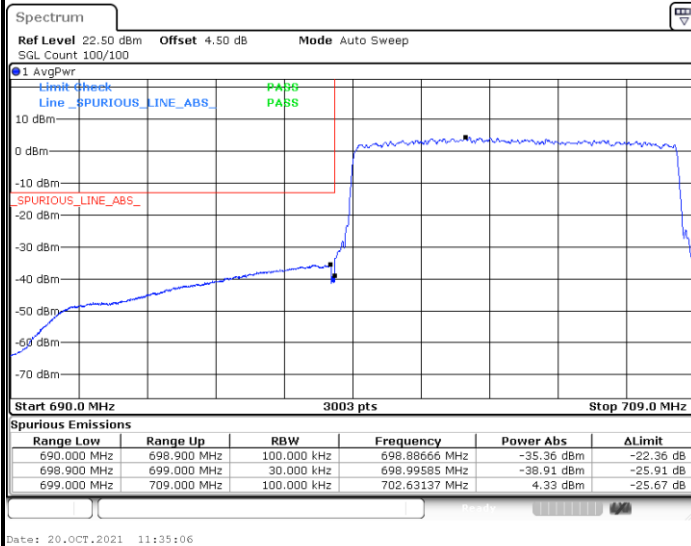
## Lowest Band Edge / 1 RB



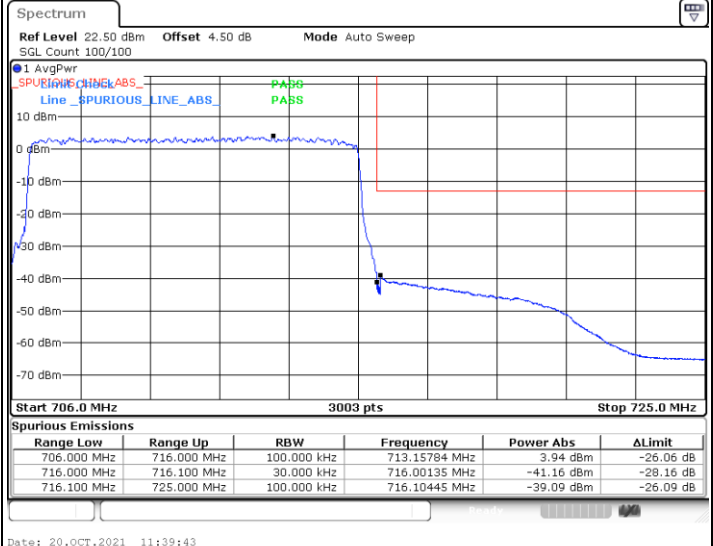
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



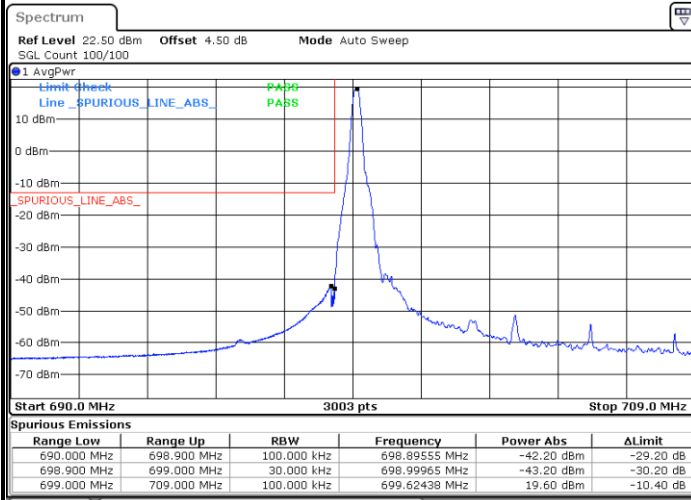
## Highest Band Edge / Full RB



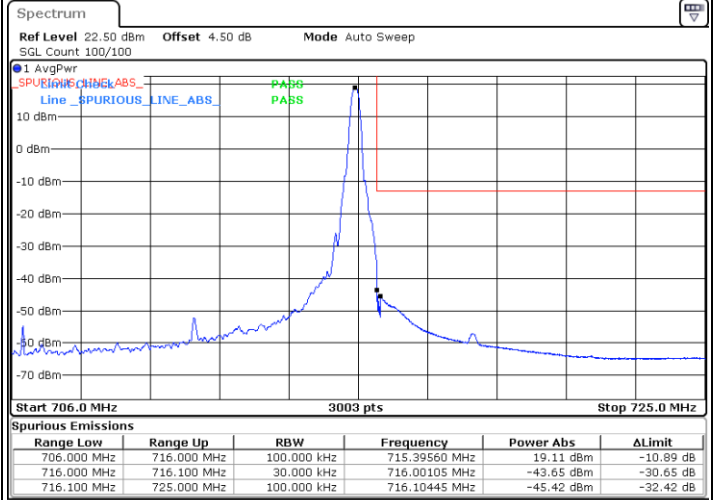


## LTE Band 12 / 10MHz / 64QAM

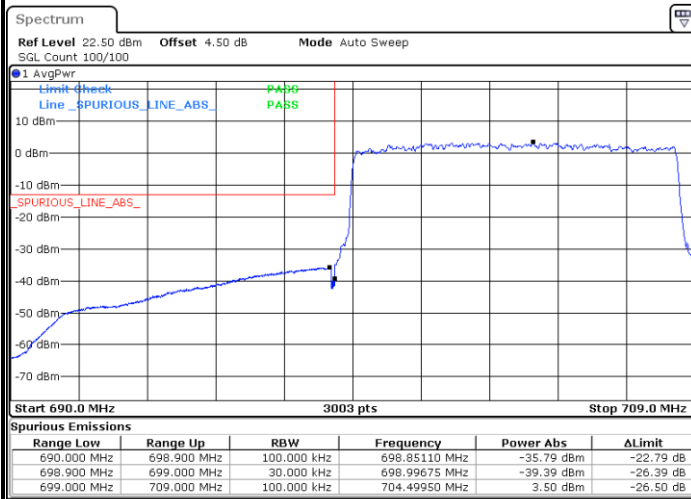
## Lowest Band Edge / 1 RB



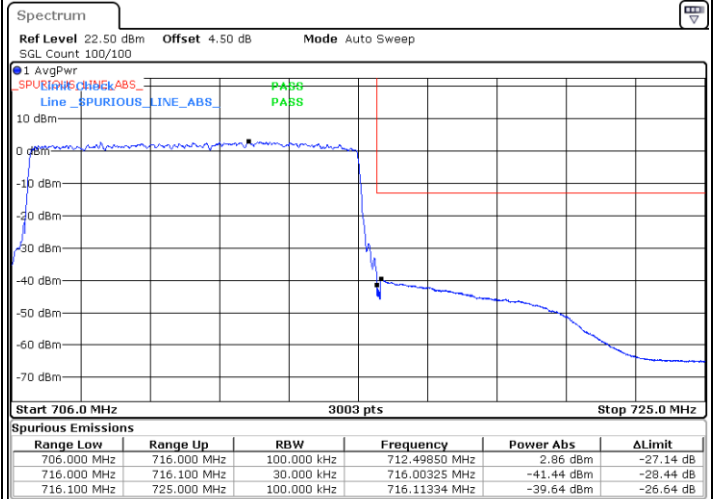
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



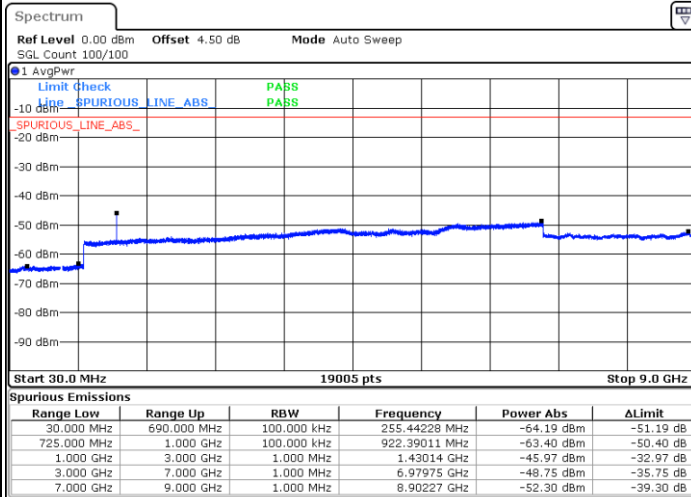


## Conducted Spurious Emission

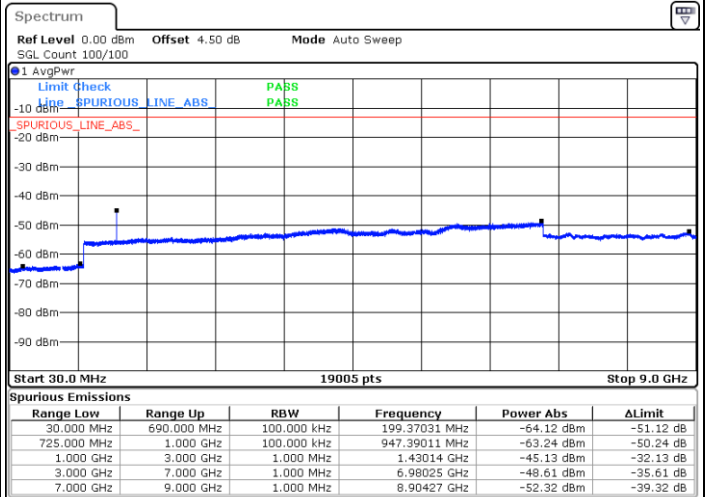
### LTE Band 12 / 1.4MHz

#### Lowest Channel / QPSK

#### Middle Channel / QPSK

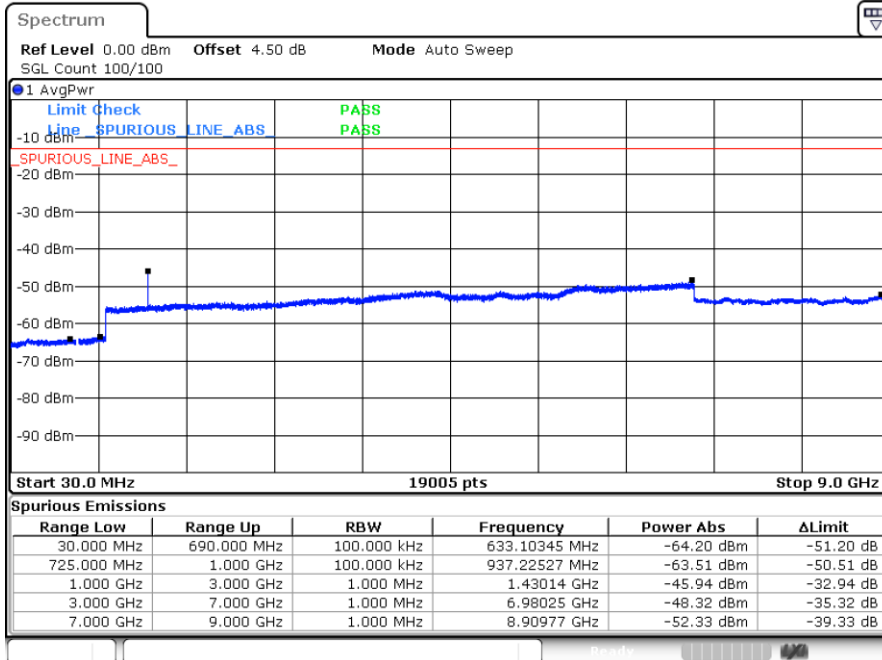


Date: 20.OCT.2021 10:37:53



Date: 20.OCT.2021 10:31:50

#### Highest Channel / QPSK

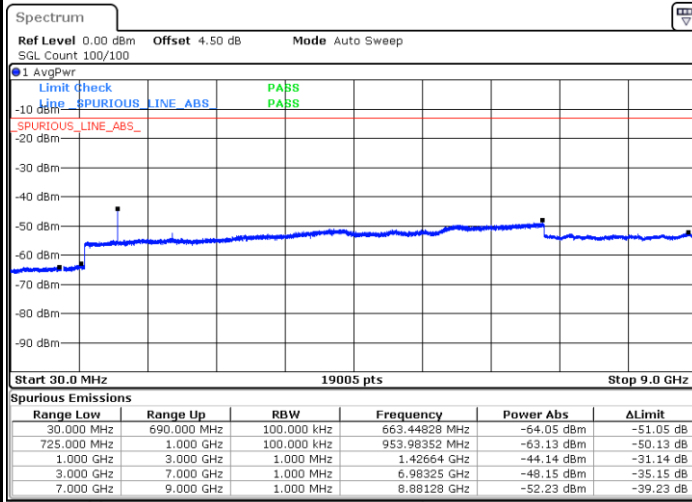


Date: 20.OCT.2021 10:29:18



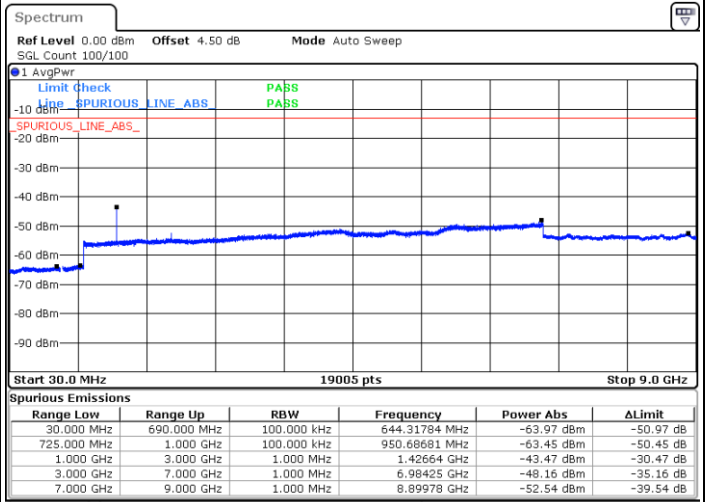
## LTE Band 12 / 3MHz

## Lowest Channel / QPSK



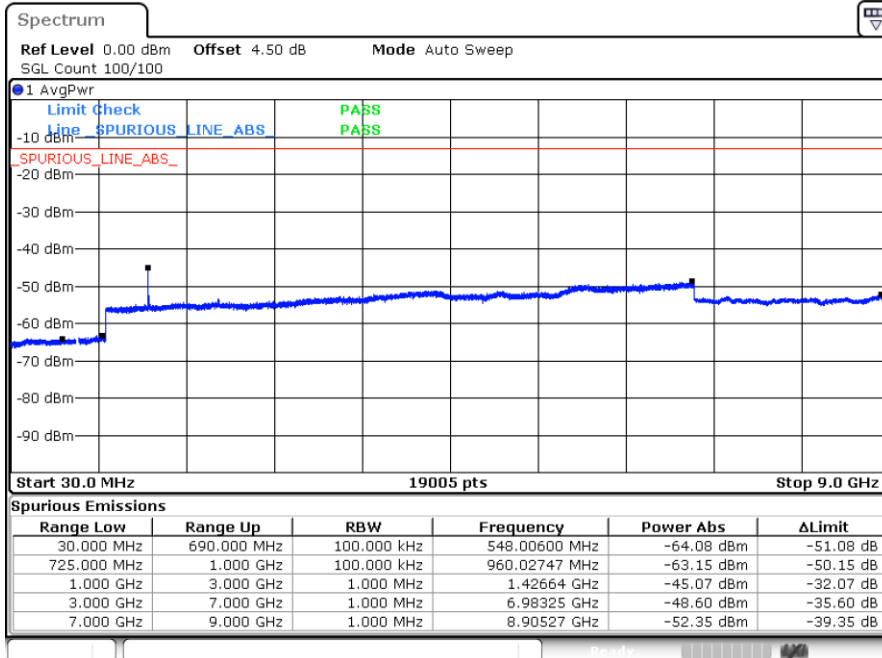
Date: 20.OCT.2021 11:21:07

## Middle Channel / QPSK



Date: 20.OCT.2021 11:20:34

## Highest Channel / QPSK

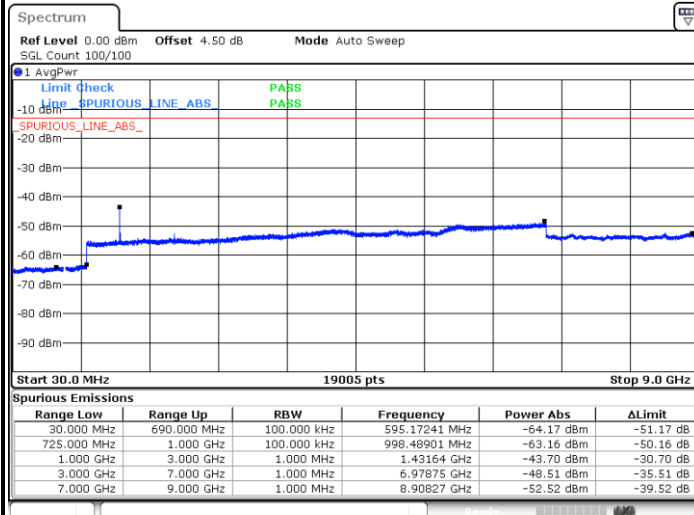


Date: 20.OCT.2021 11:20:00



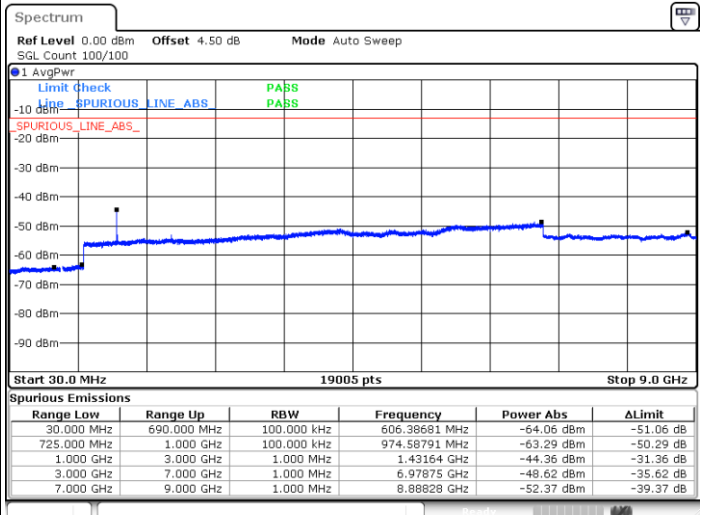
## LTE Band 12 / 5MHz

## Lowest Channel / QPSK



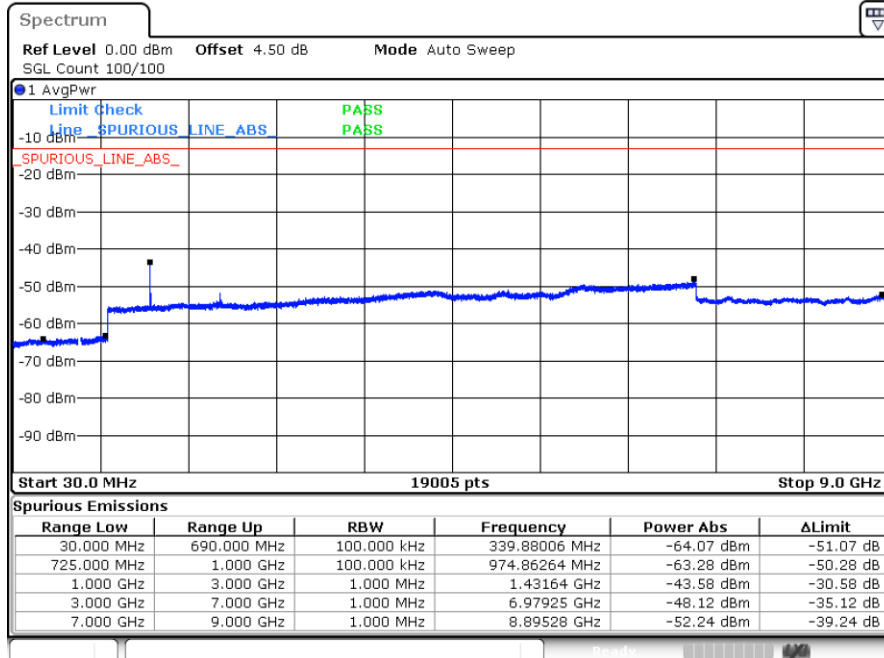
Date: 20.OCT.2021 11:32:50

## Middle Channel / QPSK



Date: 20.OCT.2021 11:32:07

## Highest Channel / QPSK



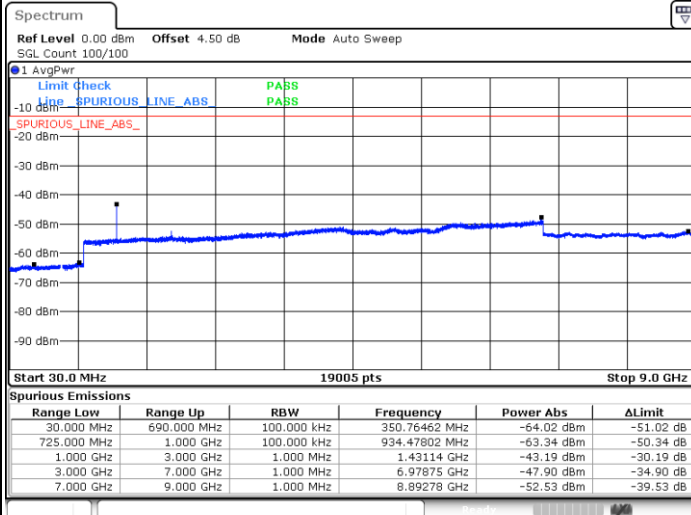
Date: 20.OCT.2021 11:31:35



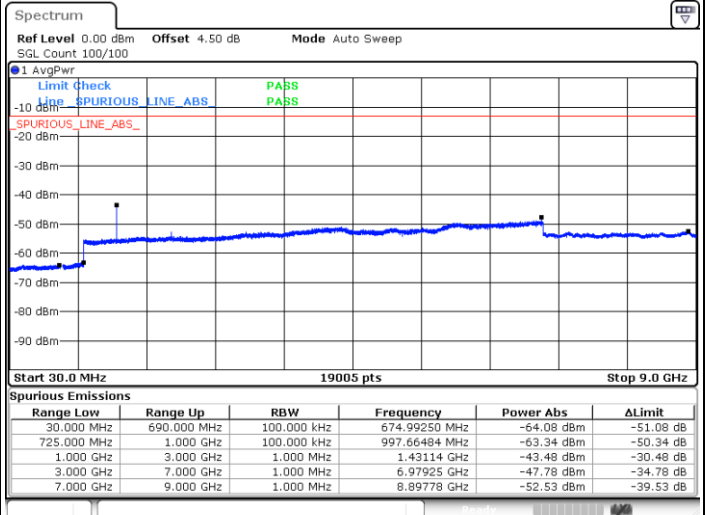
## LTE Band 12 / 10MHz

## Lowest Channel / QPSK

## Middle Channel / QPSK

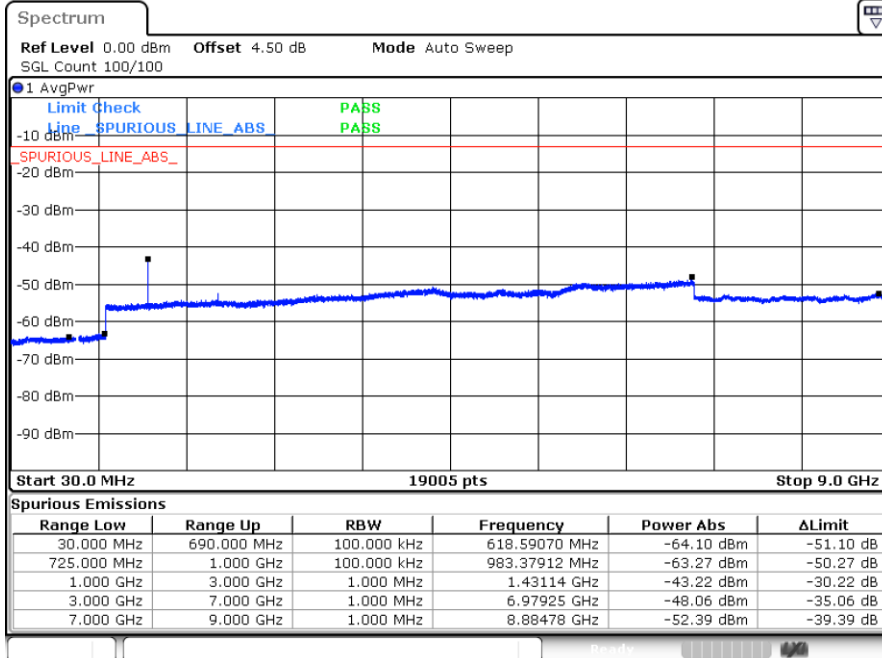


Date: 20.OCT.2021 11:44:11



Date: 20.OCT.2021 11:43:37

## Highest Channel / QPSK



Date: 20.OCT.2021 11:43:03

## Frequency Stability

| Test Conditions  |                   | LTE Band 12 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0009                              | PASS    |
| 40               | Normal Voltage    | 0.0018                              |         |
| 30               | Normal Voltage    | 0.0085                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0099                              |         |
| 0                | Normal Voltage    | 0.0000                              |         |
| -10              | Normal Voltage    | 0.0018                              |         |
| -20              | Normal Voltage    | 0.0071                              |         |
| -30              | Normal Voltage    | 0.0061                              |         |
| 20               | Maximum Voltage   | 0.0017                              |         |
| 20               | Normal Voltage    | 0.0013                              |         |
| 20               | Battery End Point | 0.0102                              |         |

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

#### LTE Band 5

| LTE Band 5 / 10MHz / QPSK |                      |                 |                  |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1648                 | -66.92          | -13              | -53.92                  | -73.89                   | 1.58                       | 10.70                       | H                     |
|                           | 2473                 | -62.58          | -13              | -49.58                  | -70.83                   | 2.102                      | 12.50                       | H                     |
|                           | 3300                 | -58.24          | -13              | -45.24                  | -67.13                   | 2.856                      | 13.90                       | H                     |
|                           | 1649                 | -65.94          | -13              | -52.94                  | -72.91                   | 1.58                       | 10.70                       | V                     |
|                           | 2472                 | -60.78          | -13              | -47.78                  | -69.03                   | 2.10                       | 12.50                       | V                     |
|                           | 3300                 | -58.49          | -13              | -45.49                  | -67.38                   | 2.86                       | 13.90                       | V                     |
| Middle                    | 1664                 | -66.02          | -13              | -53.02                  | -72.99                   | 1.58                       | 10.70                       | H                     |
|                           | 2496                 | -57.80          | -13              | -44.80                  | -66.05                   | 2.102                      | 12.50                       | H                     |
|                           | 3330                 | -62.47          | -13              | -49.47                  | -71.36                   | 2.856                      | 13.90                       | H                     |
|                           | 1664                 | -65.49          | -13              | -52.49                  | -72.46                   | 1.58                       | 10.70                       | V                     |
|                           | 2496                 | -60.45          | -13              | -47.45                  | -68.70                   | 2.10                       | 12.50                       | V                     |
|                           | 3330                 | -61.90          | -13              | -48.90                  | -70.79                   | 2.86                       | 13.90                       | V                     |
| Highest                   | 1680                 | -67.21          | -13              | -54.21                  | -74.18                   | 1.58                       | 10.70                       | H                     |
|                           | 2518                 | -61.66          | -13              | -48.66                  | -69.91                   | 2.102                      | 12.50                       | H                     |
|                           | 3360                 | -59.01          | -13              | -46.01                  | -67.90                   | 2.856                      | 13.90                       | H                     |
|                           | 1679                 | -66.17          | -13              | -53.17                  | -73.14                   | 1.58                       | 10.70                       | V                     |
|                           | 2518                 | -60.91          | -13              | -47.91                  | -69.16                   | 2.10                       | 12.50                       | V                     |
|                           | 3360                 | -58.83          | -13              | -45.83                  | -67.72                   | 2.86                       | 13.90                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 12**

| LTE Band 12 / 10MHz / QPSK |                      |                 |                  |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1399                 | -69.68          | -13              | -56.68                  | -76.65                   | 1.58                       | 10.70                       | H                     |
|                            | 2098                 | -63.61          | -13              | -50.61                  | -71.86                   | 2.102                      | 12.50                       | H                     |
|                            | 2798                 | -61.11          | -13              | -48.11                  | -70.00                   | 2.856                      | 13.90                       | H                     |
|                            | 1400                 | -69.07          | -13              | -56.07                  | -76.04                   | 1.58                       | 10.70                       | V                     |
|                            | 2098                 | -62.78          | -13              | -49.78                  | -71.03                   | 2.10                       | 12.50                       | V                     |
|                            | 2798                 | -60.84          | -13              | -47.84                  | -69.73                   | 2.86                       | 13.90                       | V                     |
| Middle                     | 1406                 | -68.86          | -13              | -55.86                  | -75.83                   | 1.58                       | 10.70                       | H                     |
|                            | 2110                 | -62.94          | -13              | -49.94                  | -71.19                   | 2.102                      | 12.50                       | H                     |
|                            | 2812                 | -61.30          | -13              | -48.30                  | -70.19                   | 2.856                      | 13.90                       | H                     |
|                            | 1406                 | -68.46          | -13              | -55.46                  | -75.43                   | 1.58                       | 10.70                       | V                     |
|                            | 2110                 | -61.97          | -13              | -48.97                  | -70.22                   | 2.10                       | 12.50                       | V                     |
|                            | 2812                 | -60.94          | -13              | -47.94                  | -69.83                   | 2.86                       | 13.90                       | V                     |
| Highest                    | 1412                 | -69.61          | -13              | -56.61                  | -76.58                   | 1.58                       | 10.70                       | H                     |
|                            | 2119                 | -63.92          | -13              | -50.92                  | -72.17                   | 2.102                      | 12.50                       | H                     |
|                            | 2826                 | -61.63          | -13              | -48.63                  | -70.52                   | 2.856                      | 13.90                       | H                     |
|                            | 1413                 | -69.14          | -13              | -56.14                  | -76.11                   | 1.58                       | 10.70                       | V                     |
|                            | 2119                 | -62.81          | -13              | -49.81                  | -71.06                   | 2.10                       | 12.50                       | V                     |
|                            | 2826                 | -61.19          | -13              | -48.19                  | -70.08                   | 2.86                       | 13.90                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

————THE END————