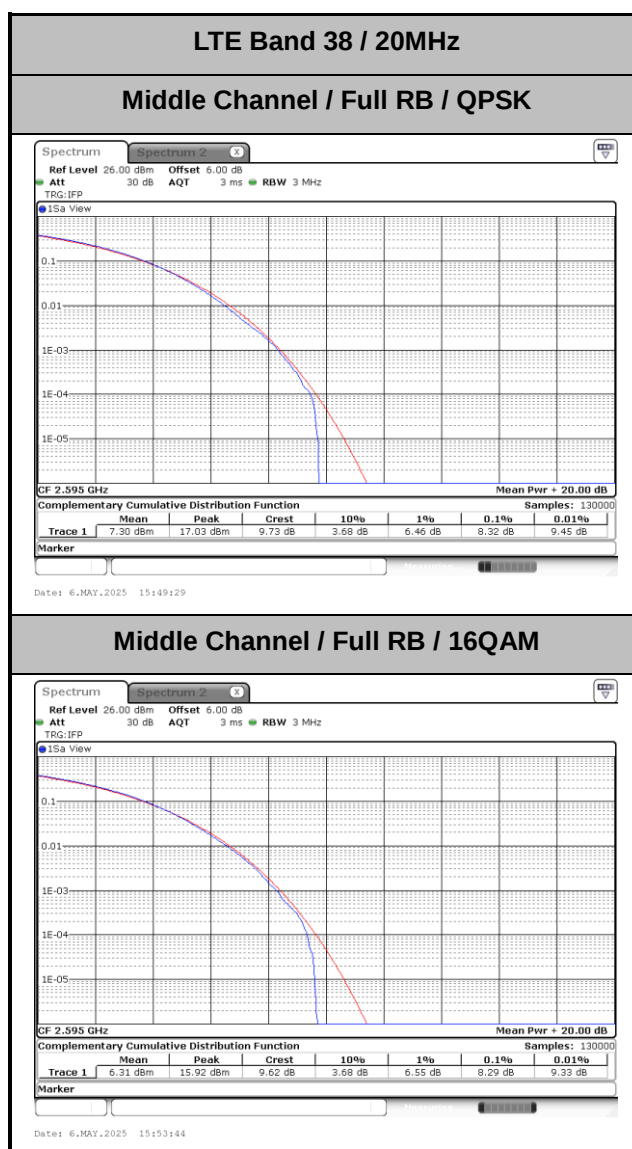


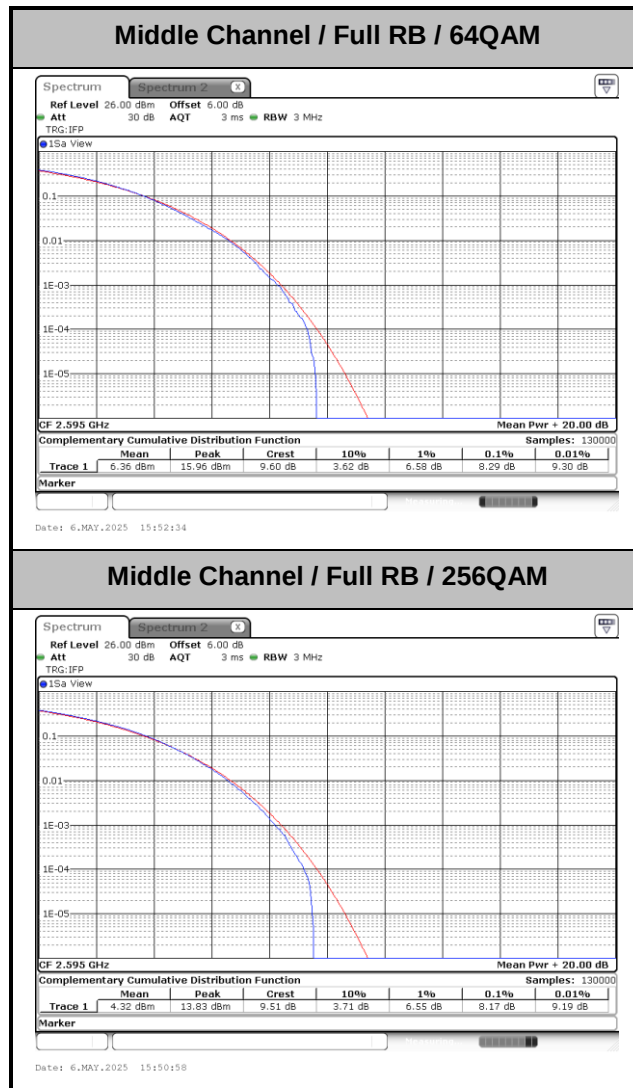


## LTE CA\_38C

## Peak-to-Average Ratio

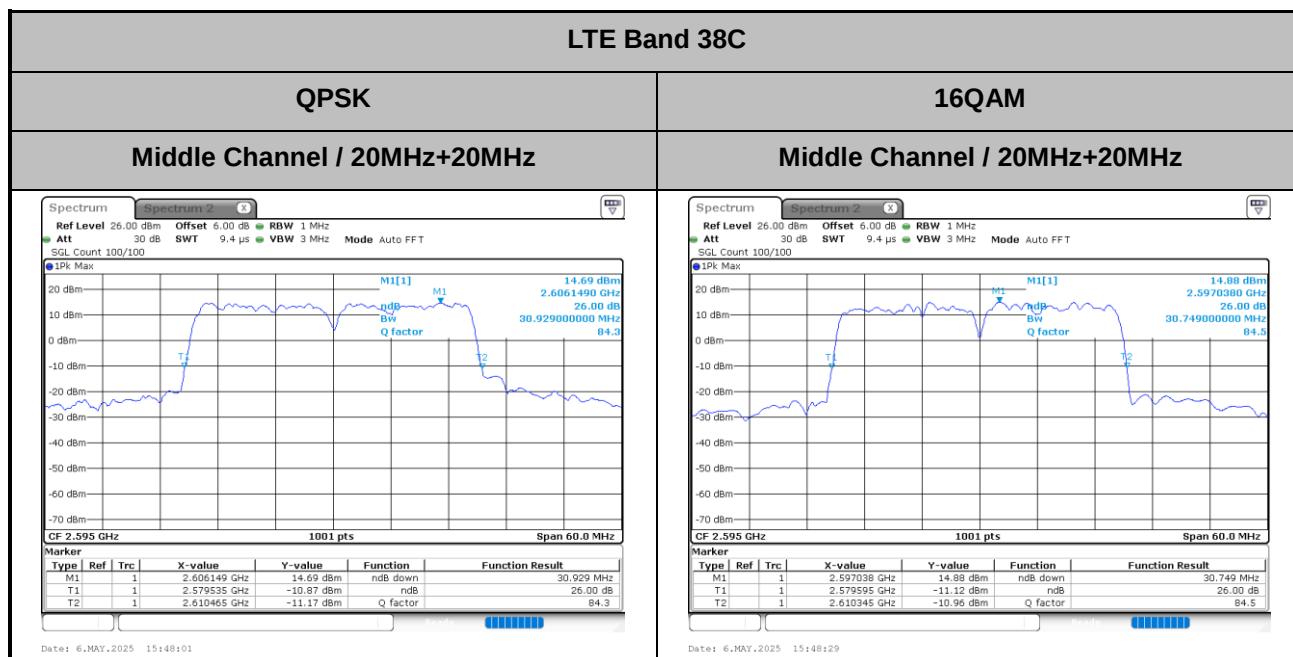
| Mode      | LTE Band 38 / 20MHz |         |         |         |             |
|-----------|---------------------|---------|---------|---------|-------------|
| Mod.      | QPSK                | 16QAM   | 64QAM   | 256QAM  | Limit: 13dB |
| RB Size   | Full RB             | Full RB | Full RB | Full RB | Result      |
| Middle CH | 8.32                | 8.29    | 8.29    | 8.17    | PASS        |





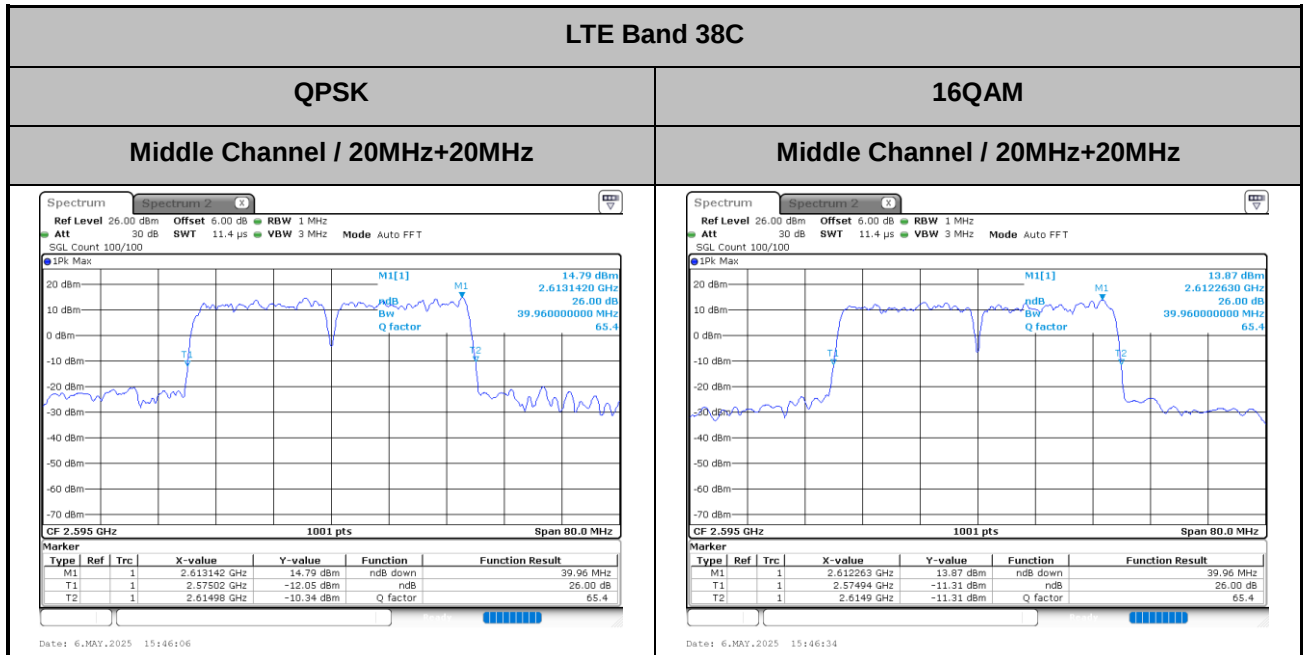
**26dB Bandwidth**

| Mode      | LTE Band 38C : 26dB BW(MHz) |             |
|-----------|-----------------------------|-------------|
| Mod.      | QPSK                        | 16QAM       |
| BW        | 15MHz+15MHz                 | 15MHz+15MHz |
| Middle CH | 30.93                       | 30.75       |





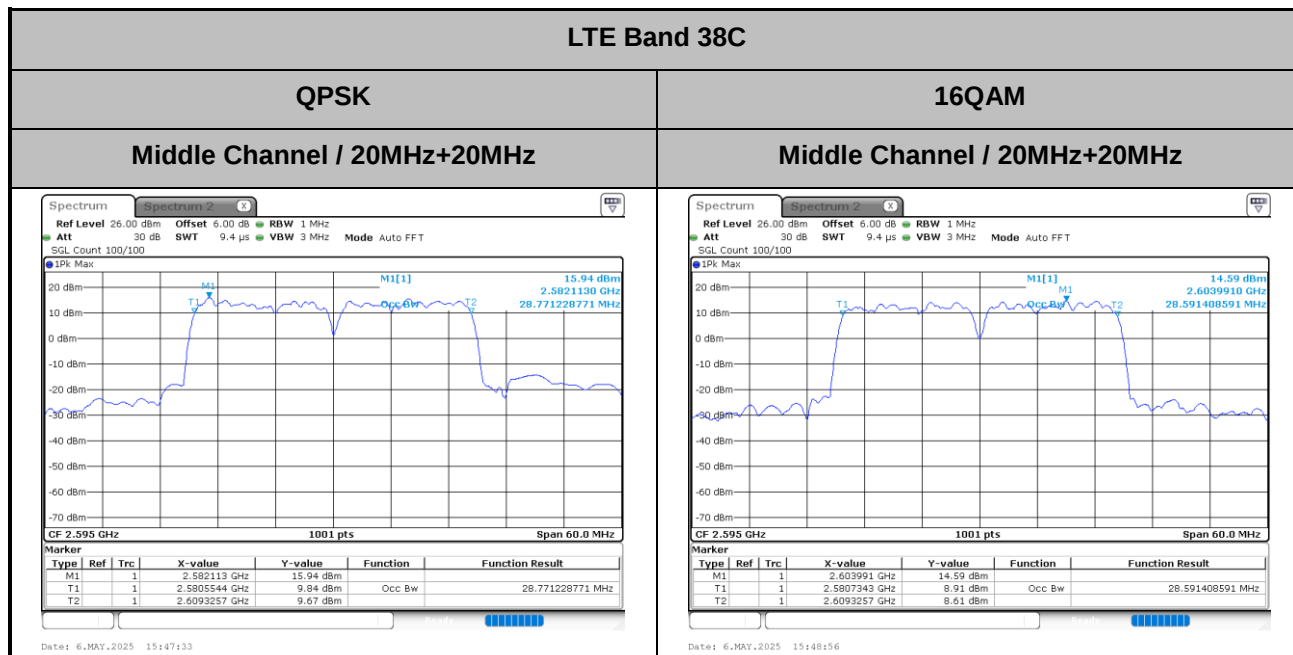
| Mode      | LTE Band 38C : 26dB BW(MHz) |             |
|-----------|-----------------------------|-------------|
| Mod.      | QPSK                        | 16QAM       |
| BW        | 20MHz+20MHz                 | 20MHz+20MHz |
| Middle CH | 39.96                       | 39.96       |





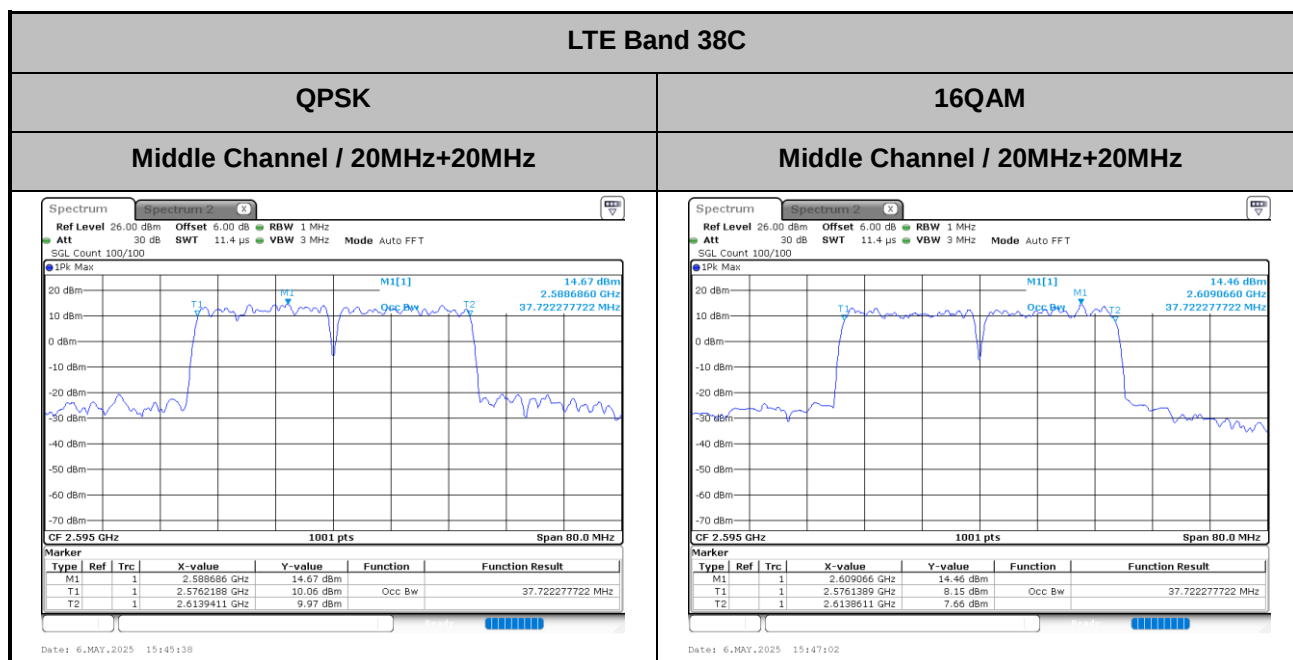
## Occupied Bandwidth

| Mode      | LTE Band 38C : 99%OBW(MHz) |             |
|-----------|----------------------------|-------------|
| Mod.      | QPSK                       | 16QAM       |
| BW        | 15MHz+15MHz                | 15MHz+15MHz |
| Middle CH | 28.77                      | 28.59       |





| Mode      | LTE Band 38C : 99%OBW(MHz) |             |
|-----------|----------------------------|-------------|
| Mod.      | QPSK                       | 16QAM       |
| BW        | 20MHz+20MHz                | 20MHz+20MHz |
| Middle CH | 37.72                      | 37.72       |



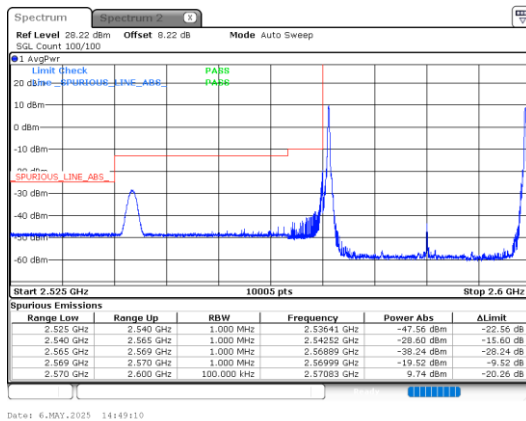


# Conducted Band Edge

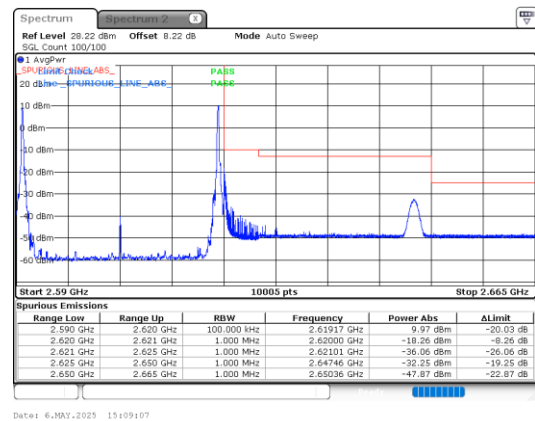
## LTE Band 38C / 15MHz+15MHz

### QPSK

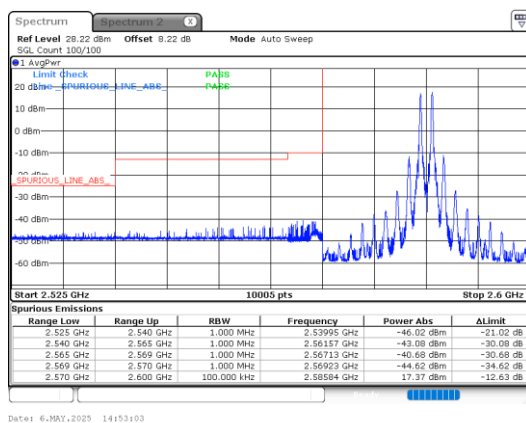
#### Lowest Band Edge / 1RB0 and 1RB74



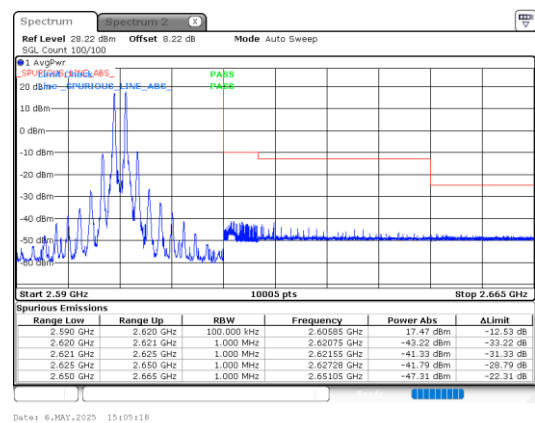
#### Highest Band Edge / 1RB0 and 1RB74



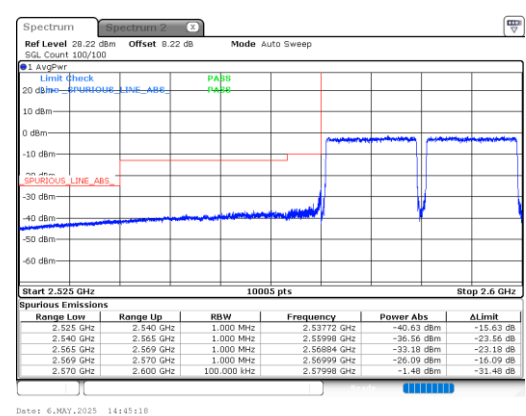
#### Lowest Band Edge / 1RB74 and 1RB0



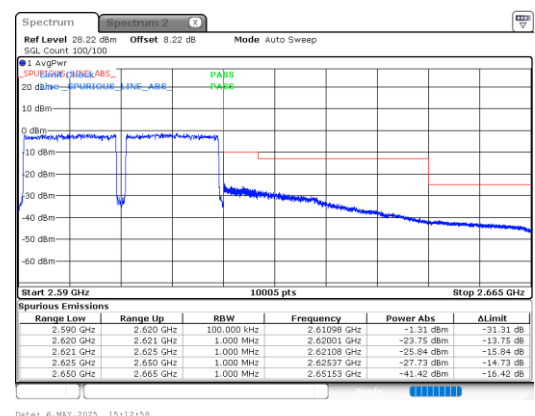
#### Highest Band Edge / 1RB74 and 1RB0



#### Lowest Band Edge / Full RB



#### Highest Band Edge / Full RB

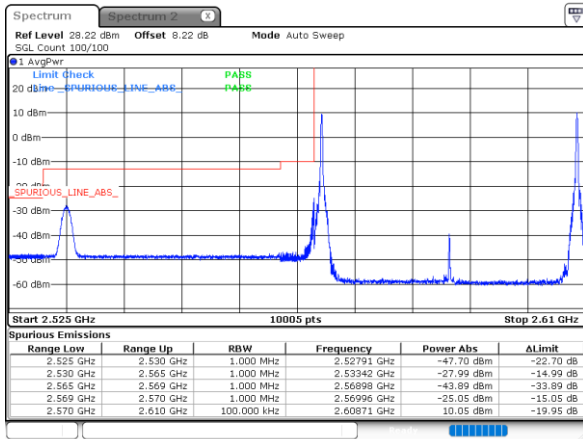




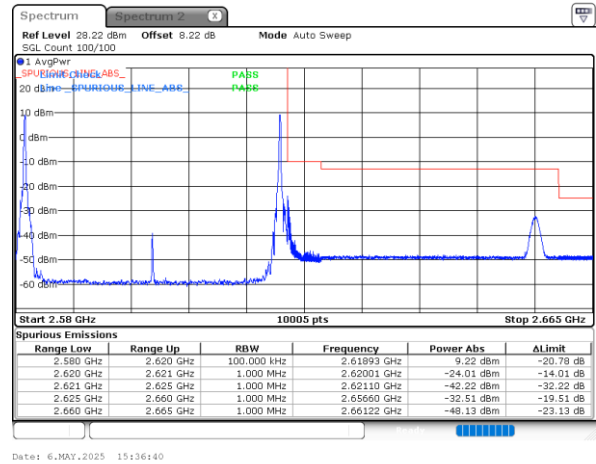
## LTE Band 38C / 20MHz+20MHz

## QPSK

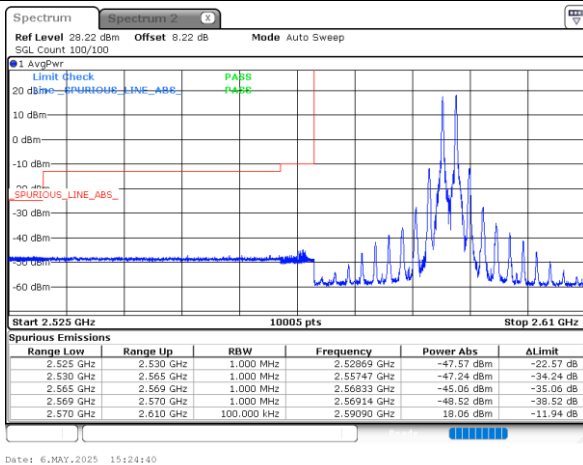
## Lowest Band Edge / 1RB0 and 1RB99



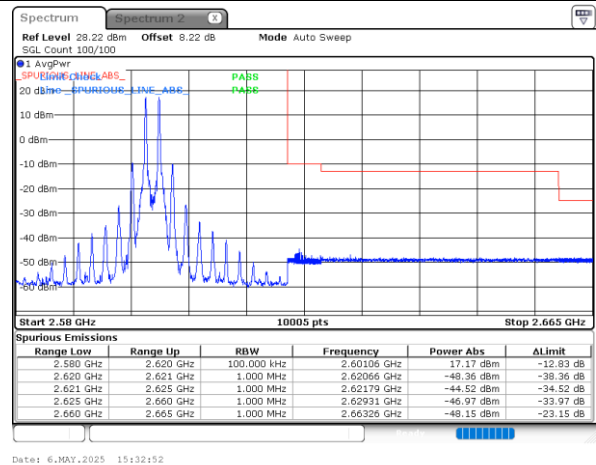
## Highest Band Edge / 1RB0 and 1RB99



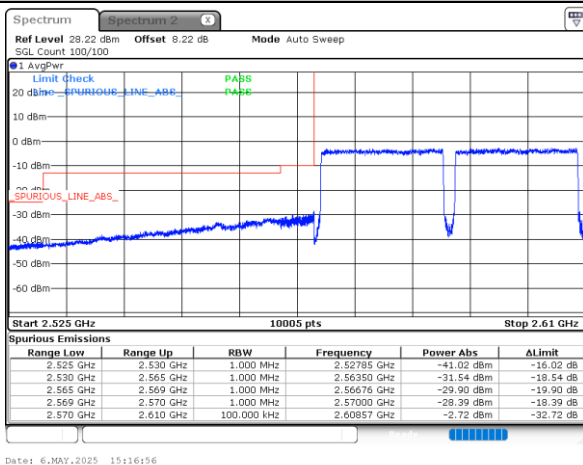
## Lowest Band Edge / 1RB99 and 1RB0



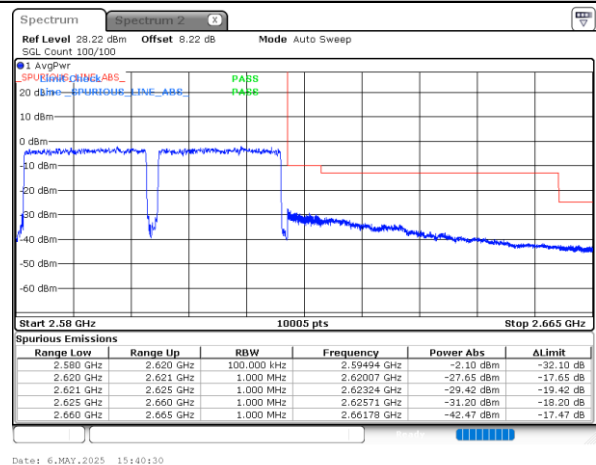
## Highest Band Edge / 1RB99 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

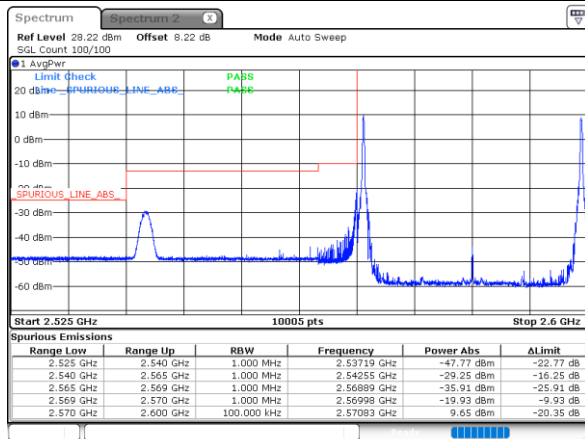




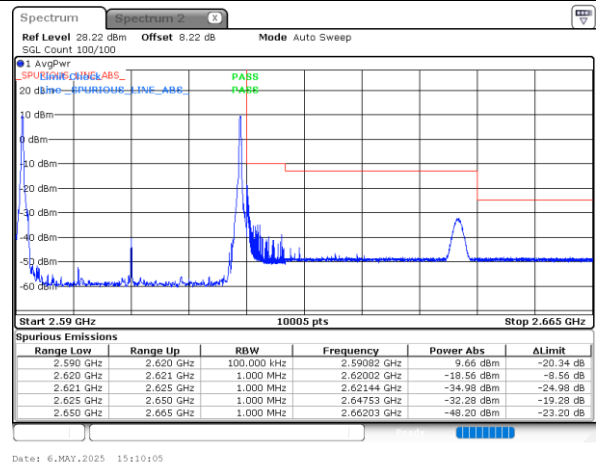
## LTE Band 38C / 15MHz+15MHz

## 16QAM

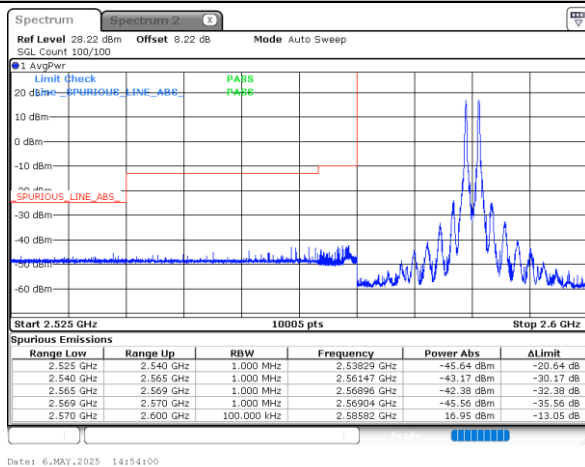
## Lowest Band Edge / 1RB0 and 1RB74



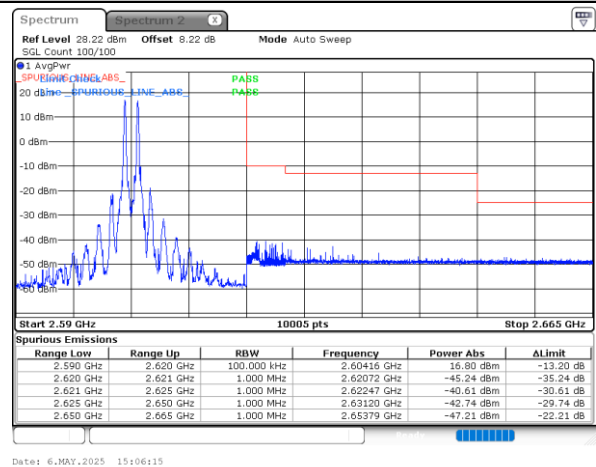
## Highest Band Edge / 1RB0 and 1RB74



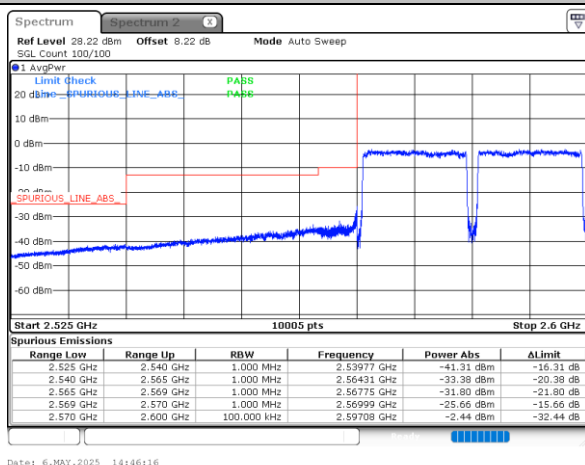
## Lowest Band Edge / 1RB74 and 1RB0



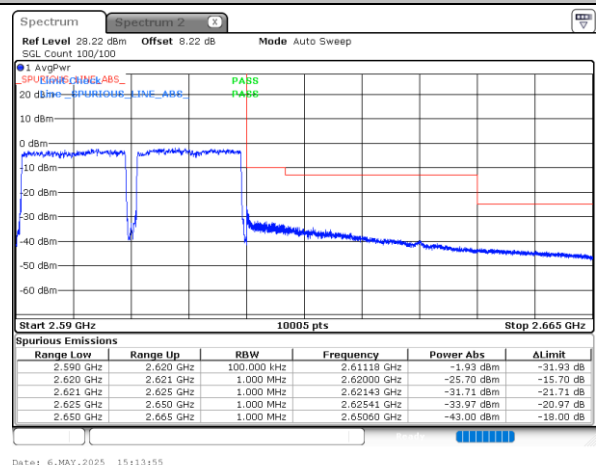
## Highest Band Edge / 1RB74 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

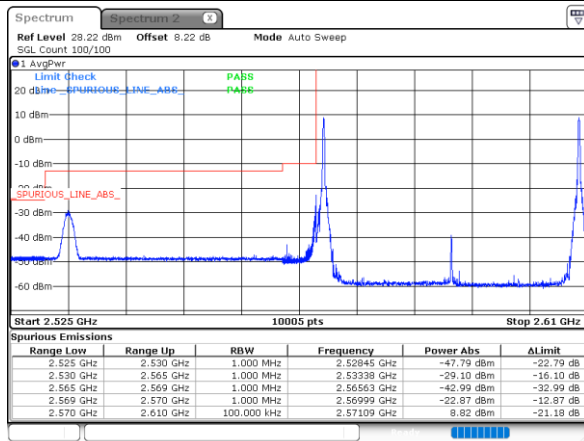




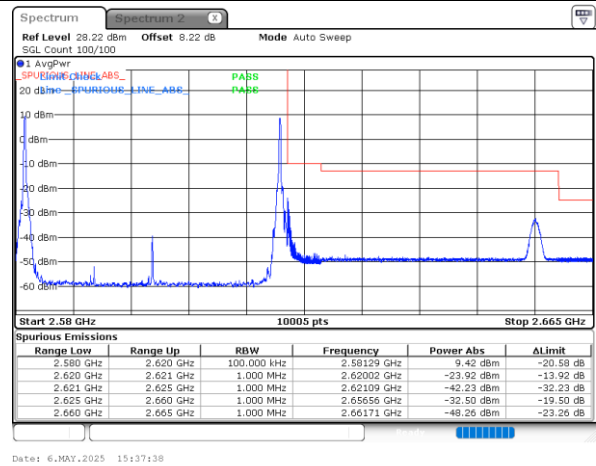
## LTE Band 38C / 20MHz+20MHz

## 16QAM

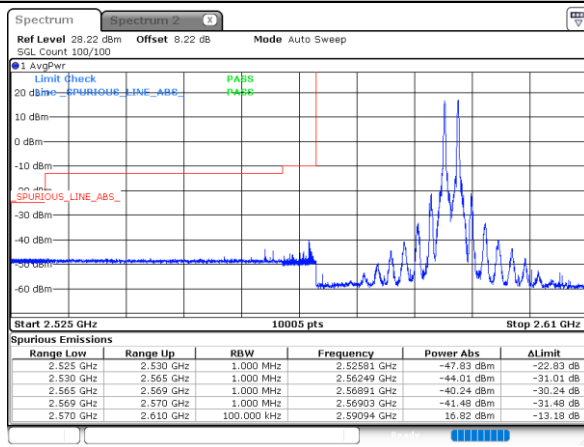
## Lowest Band Edge / 1RB0 and 1RB99



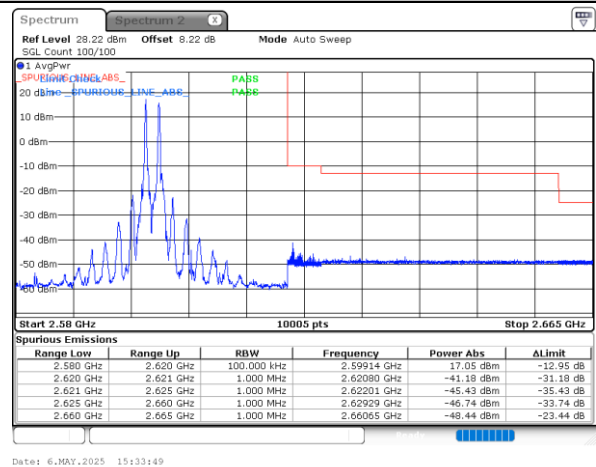
## Highest Band Edge / 1RB0 and 1RB99



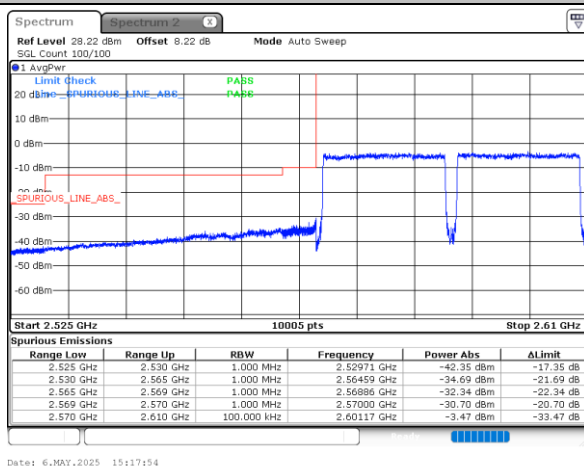
## Lowest Band Edge / 1RB99 and 1RB0



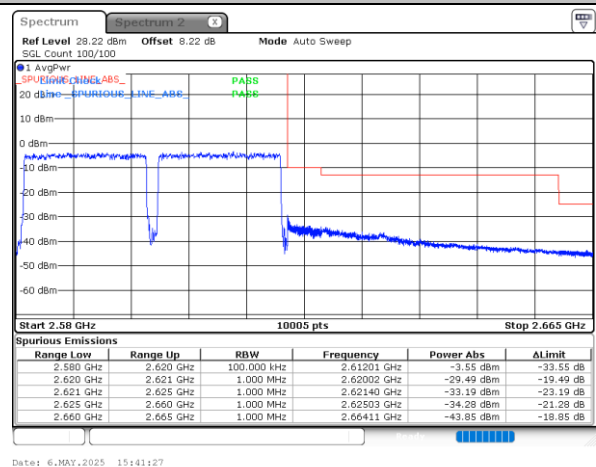
## Highest Band Edge / 1RB99 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

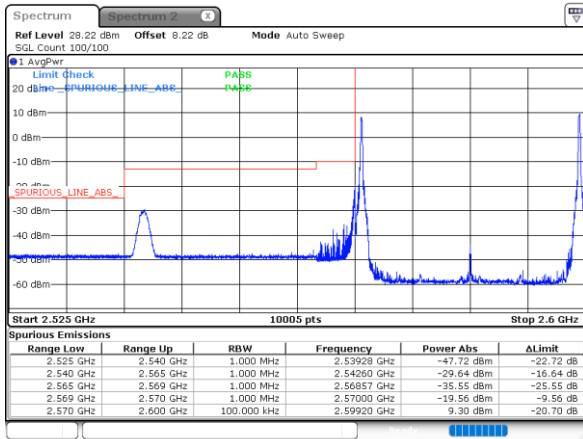




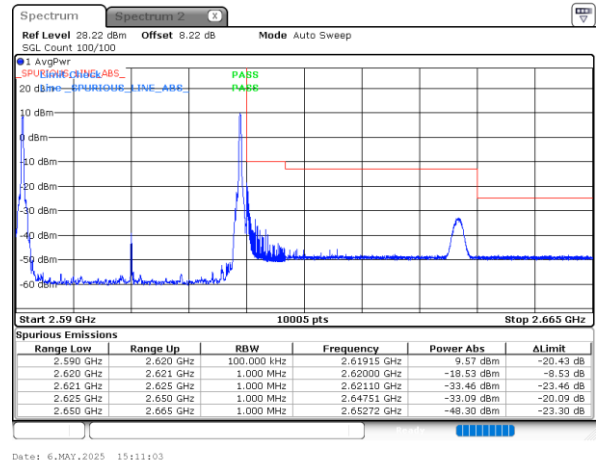
## LTE Band 38C / 15MHz+15MHz

## 64QAM

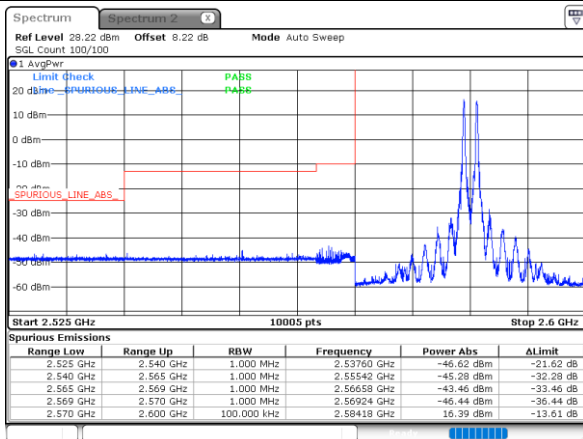
## Lowest Band Edge / 1RB0 and 1RB74



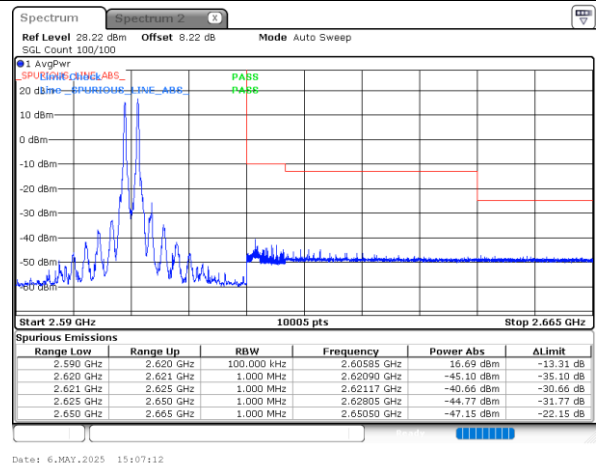
## Highest Band Edge / 1RB0 and 1RB74



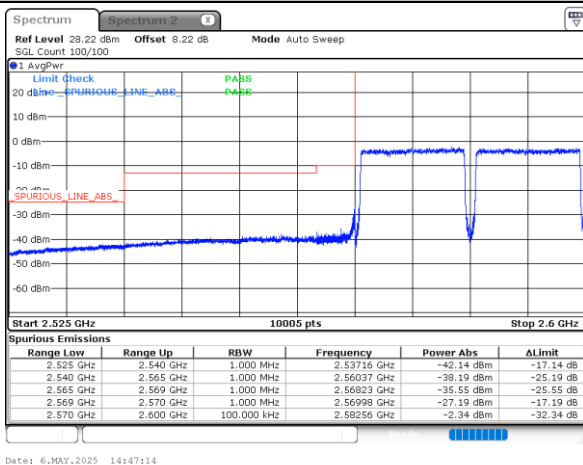
## Lowest Band Edge / 1RB74 and 1RB0



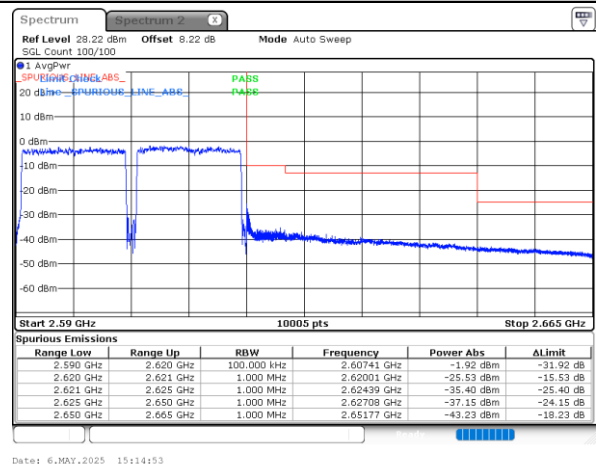
## Highest Band Edge / 1RB74 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

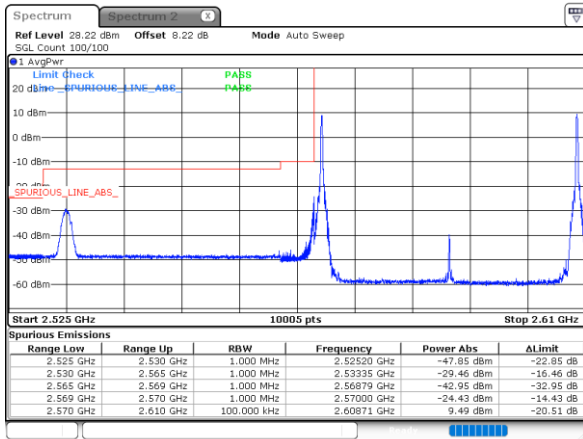




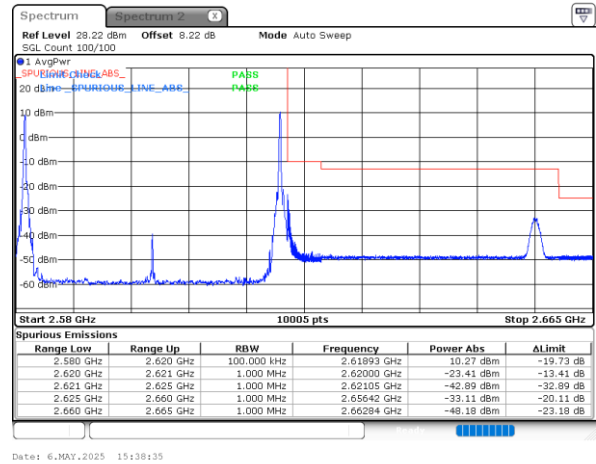
## LTE Band 38C / 20MHz+20MHz

## 64QAM

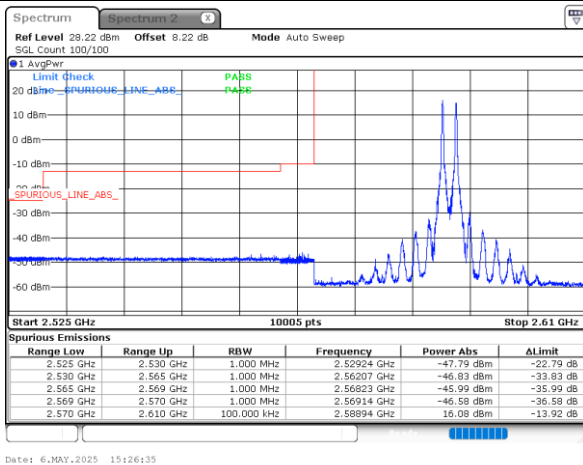
## Lowest Band Edge / 1RB0 and 1RB99



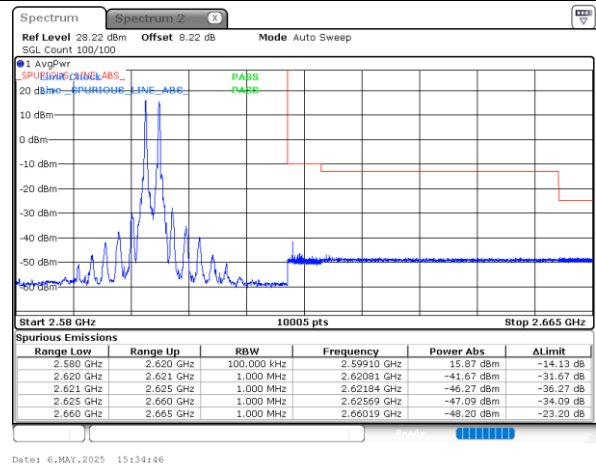
## Highest Band Edge / 1RB0 and 1RB99



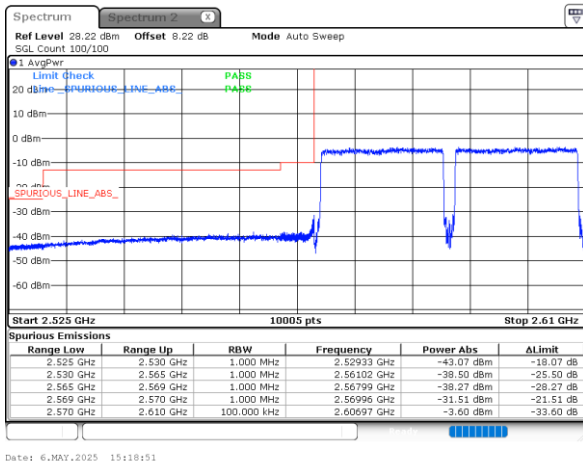
## Lowest Band Edge / 1RB99 and 1RB0



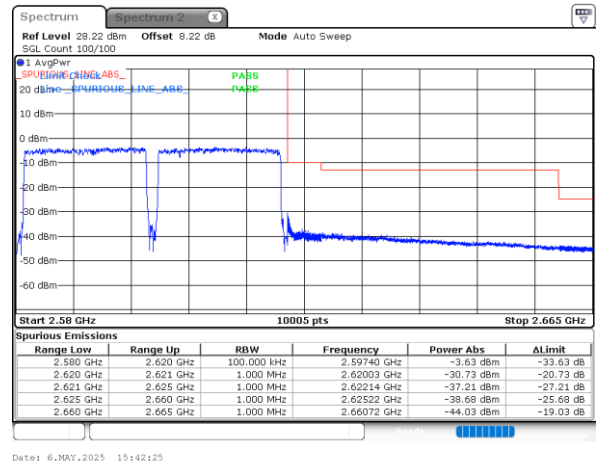
## Highest Band Edge / 1RB99 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

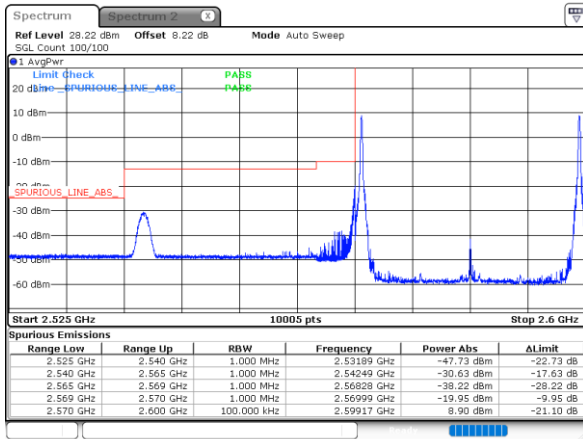




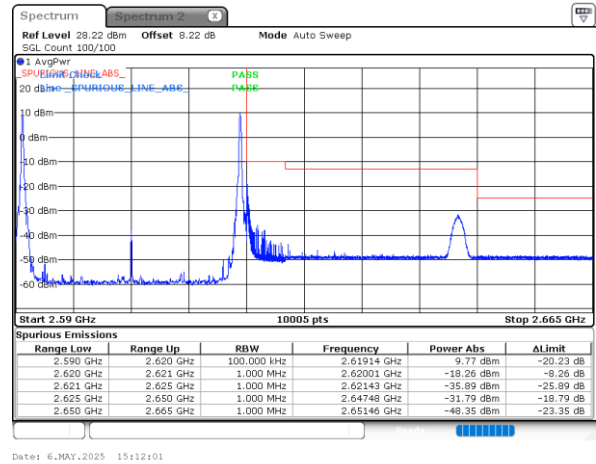
## LTE Band 38C / 15MHz+15MHz

## 256QAM

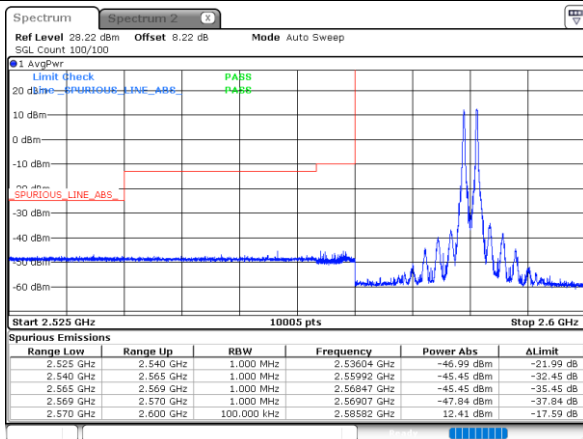
## Lowest Band Edge / 1RB0 and 1RB74



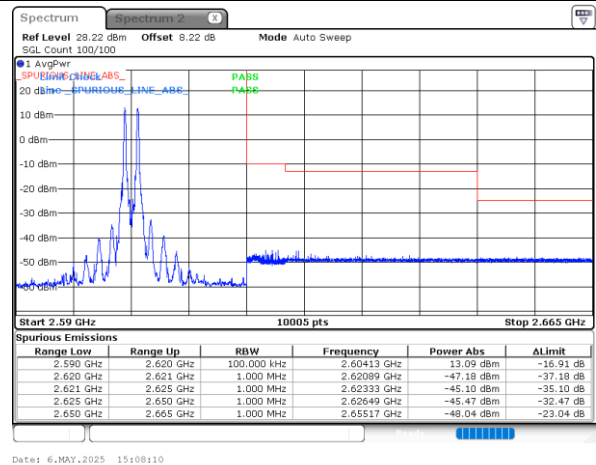
## Highest Band Edge / 1RB0 and 1RB74



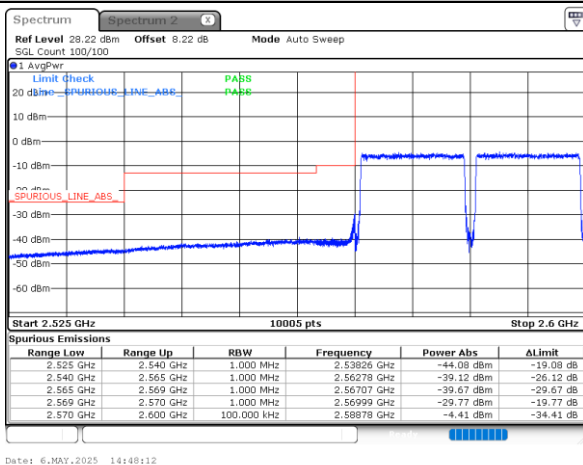
## Lowest Band Edge / 1RB74 and 1RB0



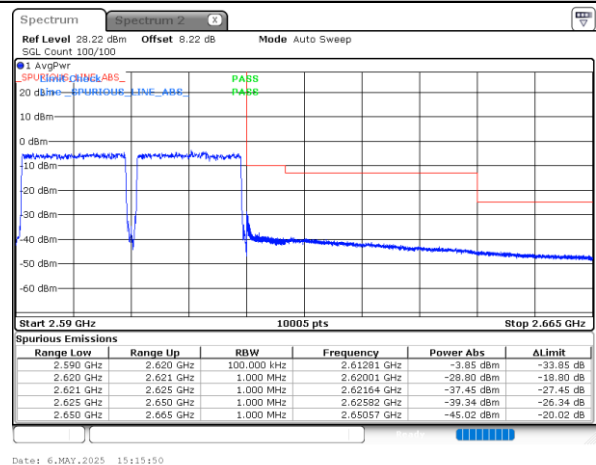
## Highest Band Edge / 1RB74 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

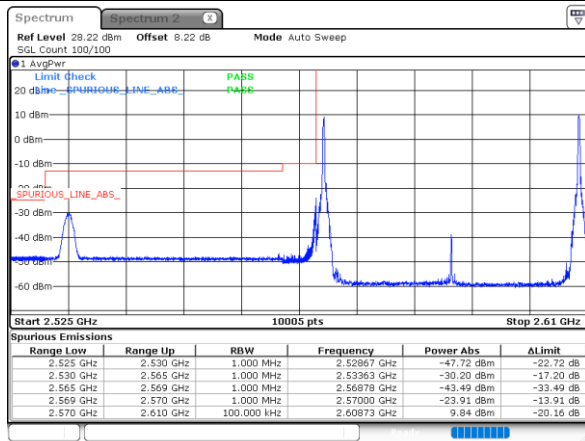




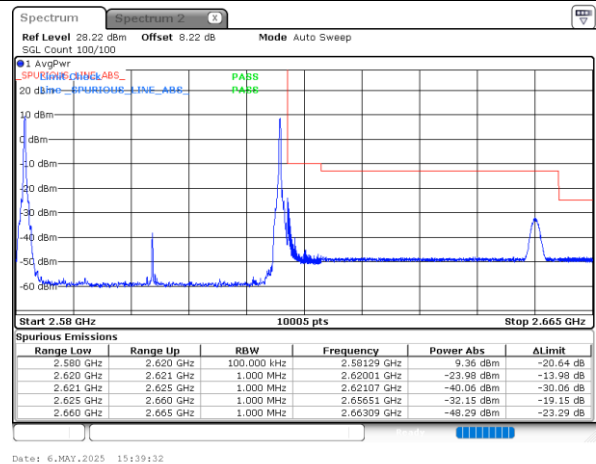
## LTE Band 38C / 20MHz+20MHz

## 256QAM

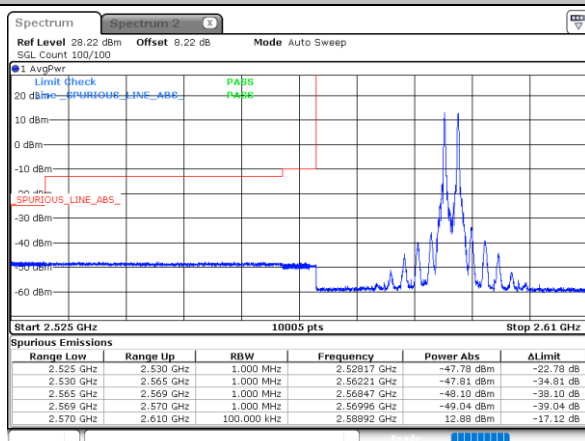
## Lowest Band Edge / 1RB0 and 1RB99



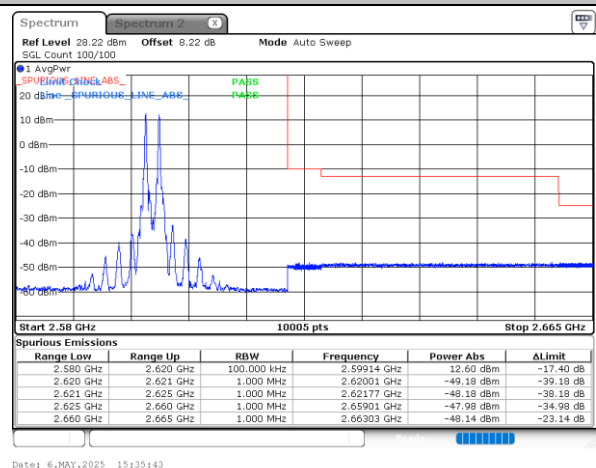
## Highest Band Edge / 1RB0 and 1RB99



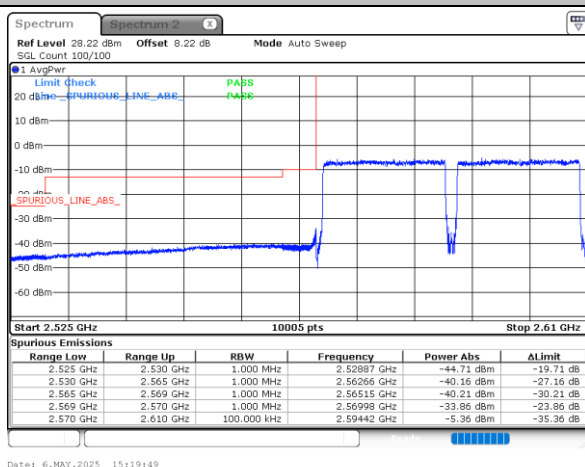
## Lowest Band Edge / 1RB99 and 1RB0



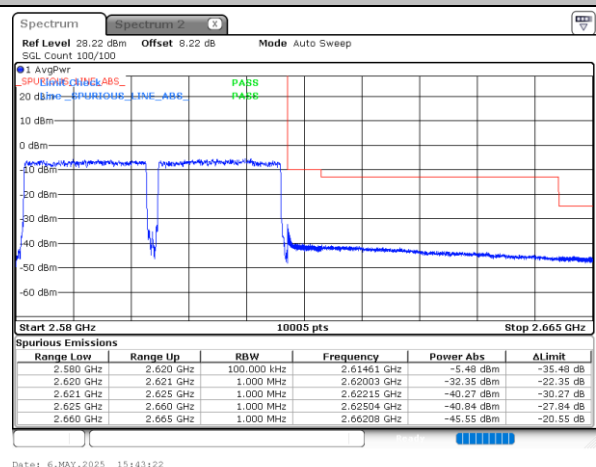
## Highest Band Edge / 1RB99 and 1RB0



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB





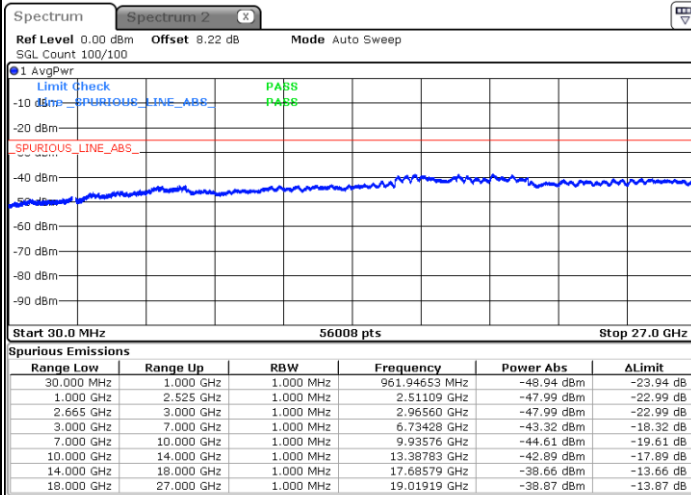
## Conducted Spurious Emission

LTE Band 38C / 15MHz+15MHz

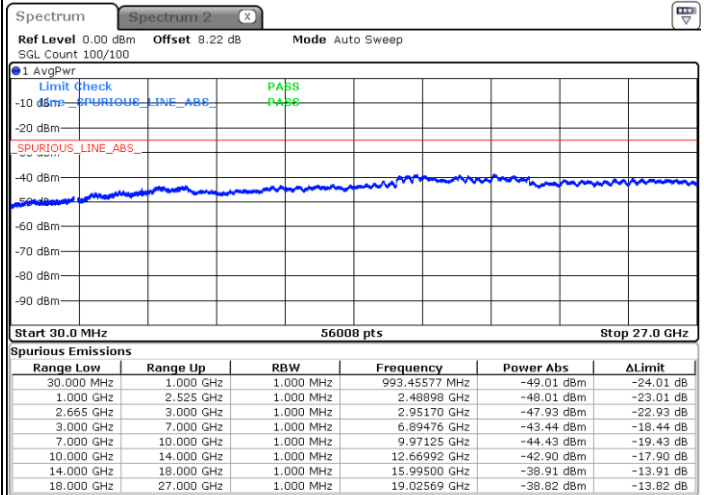
QPSK

Lowest Channel / 1RB74 and 1RB0

Middle Channel / 1RB74 and 1RB0



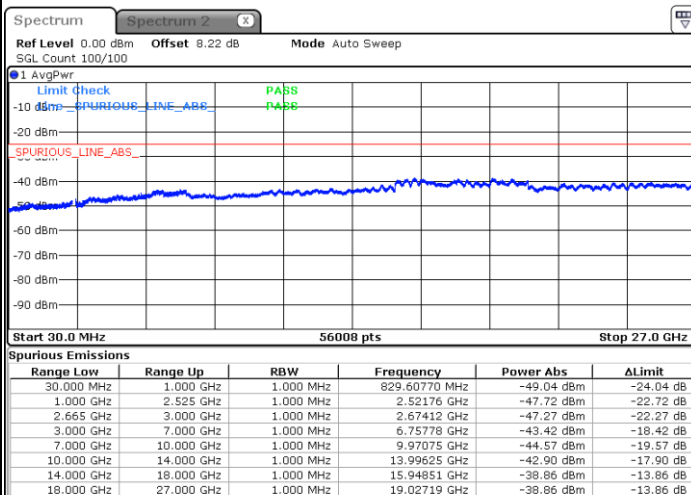
Date: 6.MAY.2025 14:57:18



Date: 6.MAY.2025 15:00:07

Highest Channel / 1RB74 and 1RB0

N/A



Date: 6.MAY.2025 15:04:20

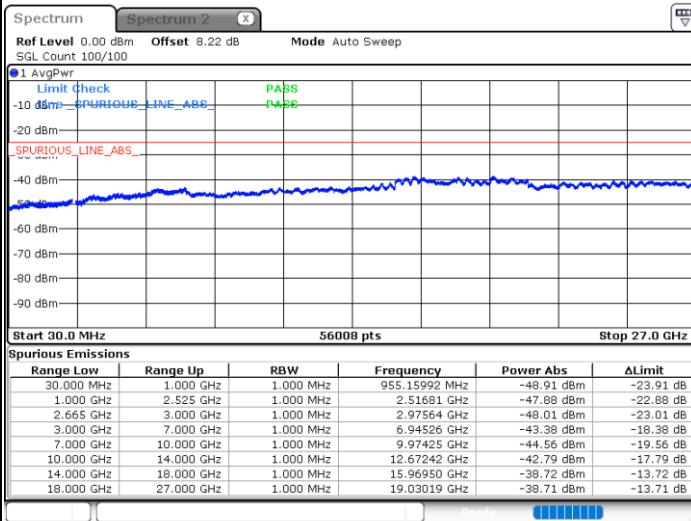


## LTE Band 38C / 20MHz+20MHz

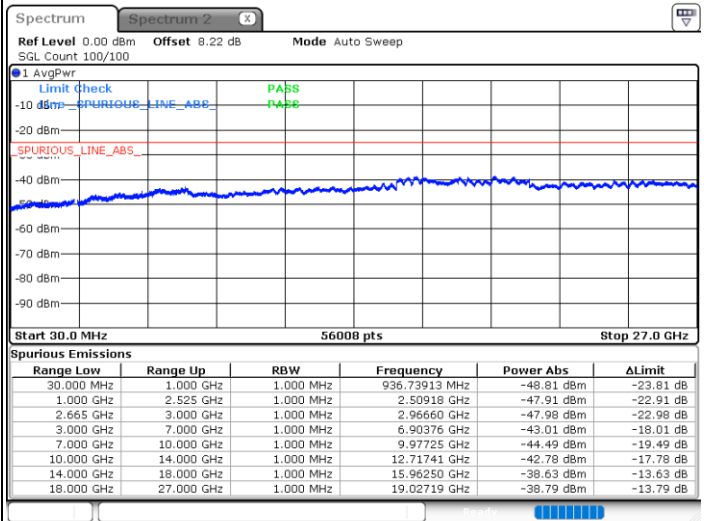
## QPSK

## Lowest Channel / 1RB99 and 1RB0

## Middle Channel / 1RB99 and 1RB0



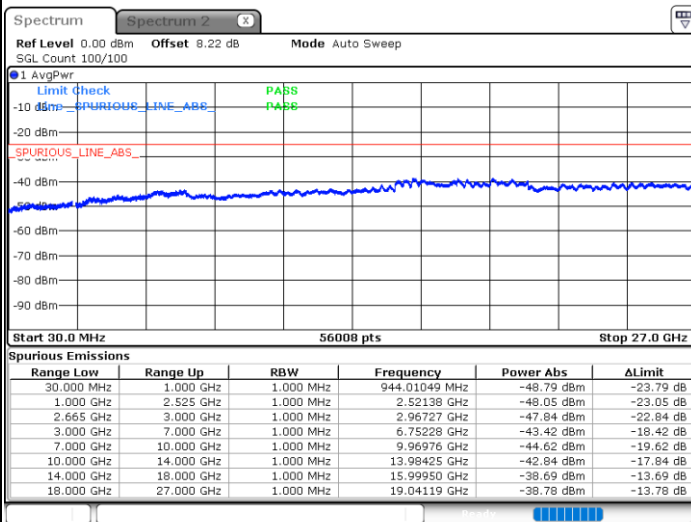
Date: 6.MAY.2025 15:28:54



Date: 6.MAY.2025 15:30:23

## Highest Channel / 1RB99 and 1RB0

N/A



Date: 6.MAY.2025 15:31:55

**Frequency Stability**

| Test Conditions  |                   | LTE Band 38C (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|--------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 40MHz                             | Note 2. |
|                  |                   | Deviation (ppm)                      | Result  |
| 50               | Normal Voltage    | 0.0028                               | PASS    |
| 40               | Normal Voltage    | 0.0016                               |         |
| 30               | Normal Voltage    | 0.0039                               |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                               |         |
| 10               | Normal Voltage    | 0.0039                               |         |
| 0                | Normal Voltage    | 0.0015                               |         |
| -10              | Normal Voltage    | 0.0028                               |         |
| -20              | Normal Voltage    | 0.0016                               |         |
| -30              | Normal Voltage    | 0.0008                               |         |
| 20               | Maximum Voltage   | 0.0029                               |         |
| 20               | Normal Voltage    | 0.0028                               |         |
| 20               | Battery End Point | 0.0016                               |         |

**Note:**

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |      |                     |         |
|-----------------|------|---------------------|---------|
| Test Engineer : | Jake | Temperature :       | 22~25°C |
|                 |      | Relative Humidity : | 50~53%  |

| LTE Band 7 / 20MHz / QPSK / Ant 4 |                   |              |               |                   |                    |                      |                       |                    |
|-----------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                           | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                            | 5050              | -61.33       | -25           | -36.33            | -71.54             | 3.03                 | 13.24                 | H                  |
|                                   | 7584              | -60.55       | -25           | -35.55            | -70.00             | 3.56                 | 13.01                 | H                  |
|                                   | 10104             | -60.92       | -25           | -35.92            | -70.44             | 3.92                 | 13.44                 | H                  |
|                                   | 5050              | -61.48       | -25           | -36.48            | -71.69             | 3.03                 | 13.24                 | V                  |
|                                   | 7584              | -60.57       | -25           | -35.57            | -70.02             | 3.56                 | 13.01                 | V                  |
|                                   | 10104             | -61.13       | -25           | -36.13            | -70.65             | 3.92                 | 13.44                 | V                  |

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

| DC_7A_n77A / 20MHz / QPSK / Ant 6+2 |                   |              |               |                   |                    |                      |                       |                    |
|-------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                             | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                              | 5050              | -64.47       | -25           | -39.47            | -74.68             | 3.03                 | 13.24                 | H                  |
|                                     | 7584              | -62.51       | -25           | -37.51            | -71.96             | 3.56                 | 13.01                 | H                  |
|                                     | 10104             | -61.08       | -25           | -36.08            | -70.60             | 3.92                 | 13.44                 | H                  |
|                                     | 5050              | -64.40       | -25           | -39.40            | -74.61             | 3.03                 | 13.24                 | V                  |
|                                     | 7584              | -62.49       | -25           | -37.49            | -71.94             | 3.56                 | 13.01                 | V                  |
|                                     | 10104             | -60.70       | -25           | -35.70            | -70.22             | 3.92                 | 13.44                 | V                  |

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

| DC_38A_n78A / 20MHz / QPSK / Ant 6+2 |                   |              |               |                   |                    |                      |                       |                    |
|--------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                              | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                               | 5176              | -62.78       | -25           | -37.78            | -72.99             | 3.03                 | 13.24                 | H                  |
|                                      | 7752              | -61.17       | -25           | -36.17            | -70.62             | 3.56                 | 13.01                 | H                  |
|                                      | 10342             | -59.31       | -25           | -34.31            | -68.83             | 3.92                 | 13.44                 | H                  |
|                                      | 5176              | -62.52       | -25           | -37.52            | -72.73             | 3.03                 | 13.24                 | V                  |
|                                      | 7752              | -59.88       | -25           | -34.88            | -69.33             | 3.56                 | 13.01                 | V                  |
|                                      | 10342             | -59.99       | -25           | -34.99            | -69.51             | 3.92                 | 13.44                 | V                  |

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



| LTE Band 41 / 20MHz / QPSK / Ant 4 |                   |              |               |                   |                    |                      |                       |                    |
|------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                            | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                             | 5169              | -61.91       | -25           | -36.91            | -72.12             | 3.03                 | 13.24                 | H                  |
|                                    | 7752              | -44.58       | -25           | -19.58            | -54.03             | 3.56                 | 13.01                 | H                  |
|                                    | 10342             | -59.95       | -25           | -34.95            | -69.47             | 3.92                 | 13.44                 | H                  |
|                                    | 5176              | -62.44       | -25           | -37.44            | -72.65             | 3.03                 | 13.24                 | V                  |
|                                    | 7752              | -52.30       | -25           | -27.30            | -61.75             | 3.56                 | 13.01                 | V                  |
|                                    | 10342             | -60.42       | -25           | -35.42            | -69.94             | 3.92                 | 13.44                 | V                  |

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

| LTE CA_7C / 20 MHz+20MHz / QPSK / Ant 4 |                   |              |               |                   |                    |                      |                       |                    |
|-----------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                 | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle (PCC)                            | 5036              | -61.23       | -25           | -36.23            | -71.44             | 3.03                 | 13.24                 | H                  |
|                                         | 7542              | -57.48       | -25           | -32.48            | -66.93             | 3.56                 | 13.01                 | H                  |
|                                         | 10062             | -61.21       | -25           | -36.21            | -70.73             | 3.92                 | 13.44                 | H                  |
|                                         | 5036              | -61.23       | -25           | -36.23            | -71.44             | 3.03                 | 13.24                 | V                  |
|                                         | 7542              | -60.98       | -25           | -35.98            | -70.43             | 3.56                 | 13.01                 | V                  |
|                                         | 10062             | -61.42       | -25           | -36.42            | -70.94             | 3.92                 | 13.44                 | V                  |
| Middle (SCC)                            | 5064              | -61.48       | -25           | -36.48            | -71.69             | 3.03                 | 13.24                 | H                  |
|                                         | 7612              | -59.08       | -25           | -34.08            | -68.53             | 3.56                 | 13.01                 | H                  |
|                                         | 10146             | -60.66       | -25           | -35.66            | -70.18             | 3.92                 | 13.44                 | H                  |
|                                         | 5064              | -61.62       | -25           | -36.62            | -71.83             | 3.03                 | 13.24                 | V                  |
|                                         | 7612              | -61.10       | -25           | -36.10            | -70.55             | 3.56                 | 13.01                 | V                  |
|                                         | 10146             | -61.01       | -25           | -36.01            | -70.53             | 3.92                 | 13.44                 | V                  |

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

| LTE CA_38C / 20 MHz+20MHz / QPSK / Ant 4 |                   |              |               |                   |                    |                      |                       |                    |
|------------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                  | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle (PCC)                             | 5148              | -61.95       | -25           | -36.95            | -72.16             | 3.03                 | 13.24                 | H                  |
|                                          | 7724              | -55.17       | -25           | -30.17            | -64.62             | 3.56                 | 13.01                 | H                  |
|                                          | 10300             | -60.77       | -25           | -35.77            | -70.29             | 3.92                 | 13.44                 | H                  |
|                                          | 5148              | -62.01       | -25           | -37.01            | -72.22             | 3.03                 | 13.24                 | V                  |
|                                          | 7724              | -58.76       | -25           | -33.76            | -68.21             | 3.56                 | 13.01                 | V                  |
|                                          | 10300             | -60.78       | -25           | -35.78            | -70.30             | 3.92                 | 13.44                 | V                  |
| Middle (SCC)                             | 5190              | -62.23       | -25           | -37.23            | -72.44             | 3.03                 | 13.24                 | H                  |
|                                          | 7780              | -60.61       | -25           | -35.61            | -70.06             | 3.56                 | 13.01                 | H                  |
|                                          | 10384             | -60.51       | -25           | -35.51            | -70.03             | 3.92                 | 13.44                 | H                  |
|                                          | 5190              | -62.36       | -25           | -37.36            | -72.57             | 3.03                 | 13.24                 | V                  |
|                                          | 7780              | -60.51       | -25           | -35.51            | -69.96             | 3.56                 | 13.01                 | V                  |
|                                          | 10384             | -60.54       | -25           | -35.54            | -70.06             | 3.92                 | 13.44                 | V                  |

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