

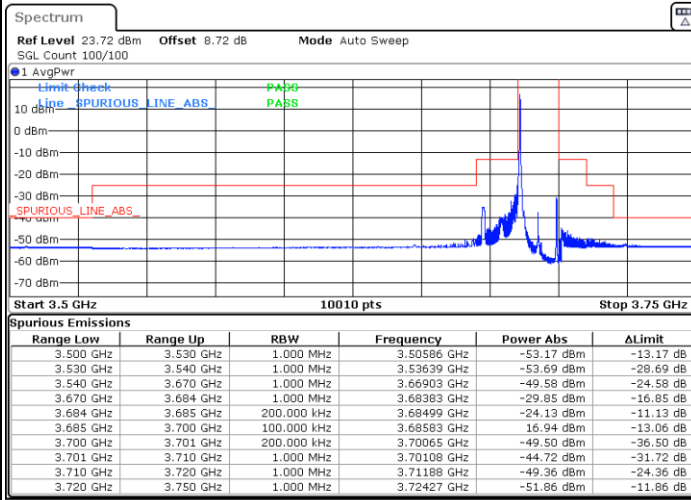


## LTE Band 48 / 15MHz

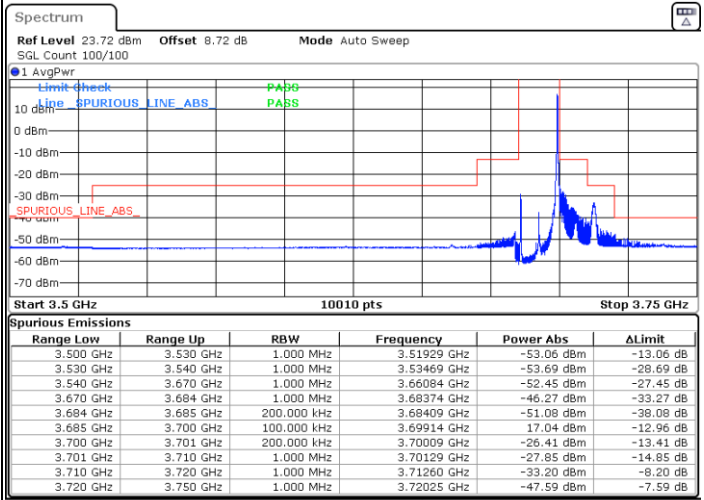
## 256QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax

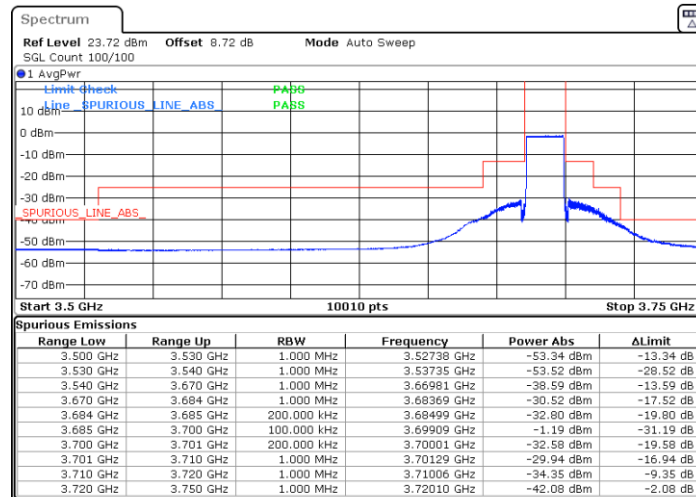


Date: 29.AUG.2025 15:28:25



Date: 29.AUG.2025 15:33:45

## Highest Channel / FullRB



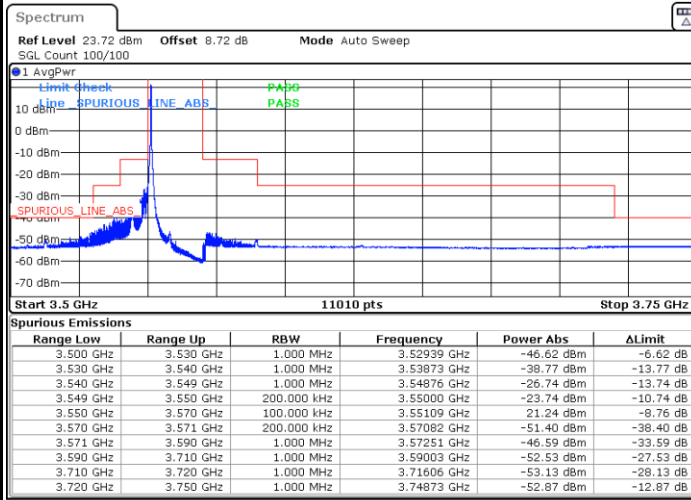
Date: 29.AUG.2025 15:39:06



## LTE Band 48 / 20MHz

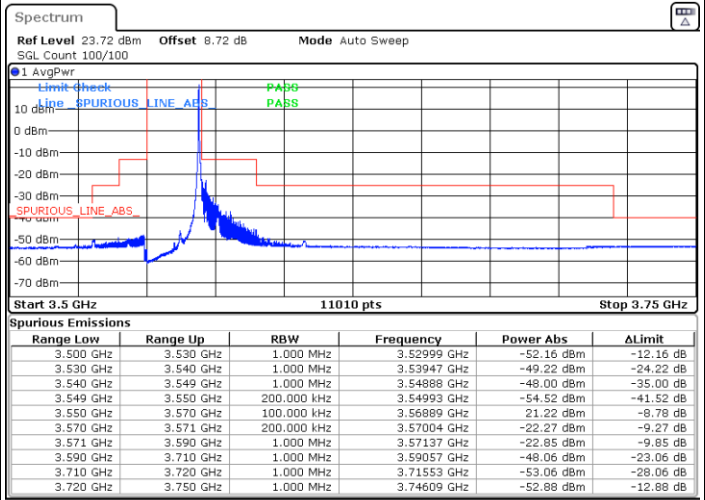
## QPSK

## Lowest Channel / 1RB0



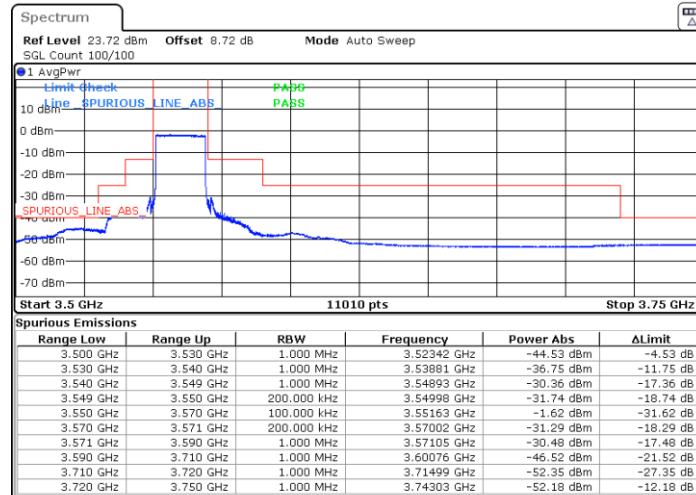
Date: 29.AUG.2025 16:19:10

## Lowest Channel / 1RBmax



Date: 29.AUG.2025 16:25:08

## Lowest Channel / FullIRB



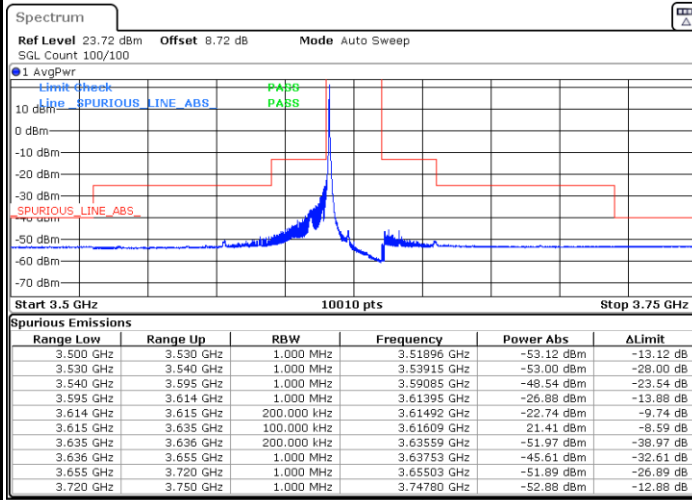
Date: 1.SEP.2025 10:57:51



## LTE Band 48 / 20MHz

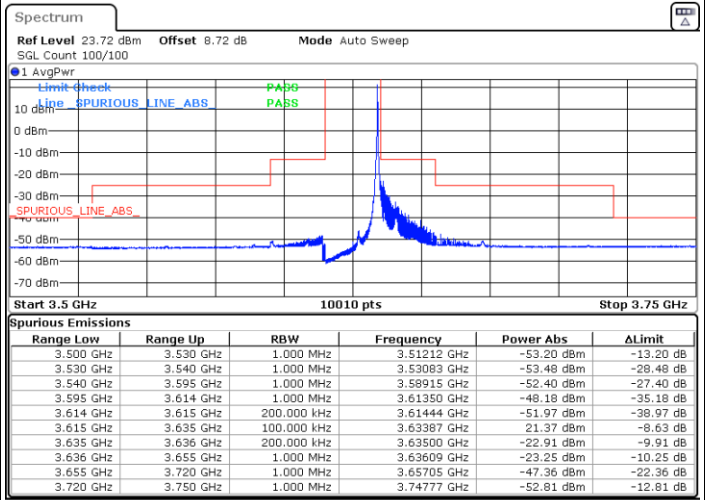
## QPSK

## Middle Channel / 1RB0



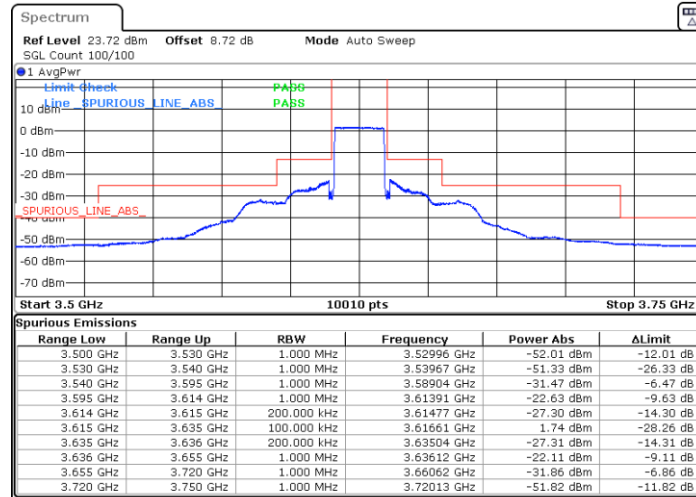
Date: 29.AUG.2025 15:58:52

## Middle Channel / 1RBmax



Date: 29.AUG.2025 16:04:24

## Middle Channel / Full



Date: 29.AUG.2025 16:09:56

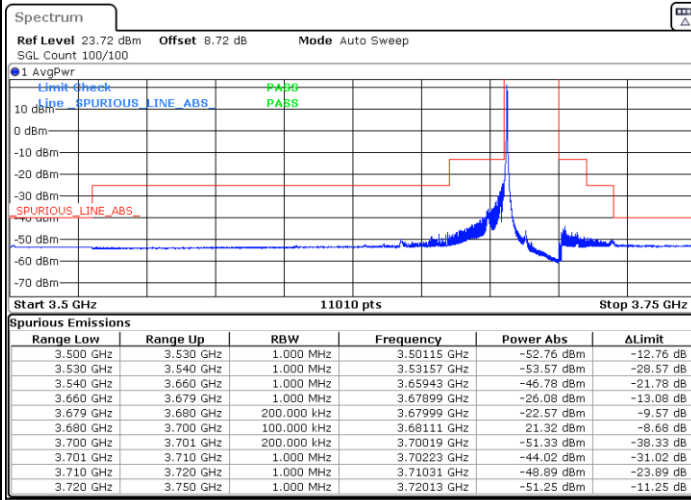


## LTE Band 48 / 20MHz

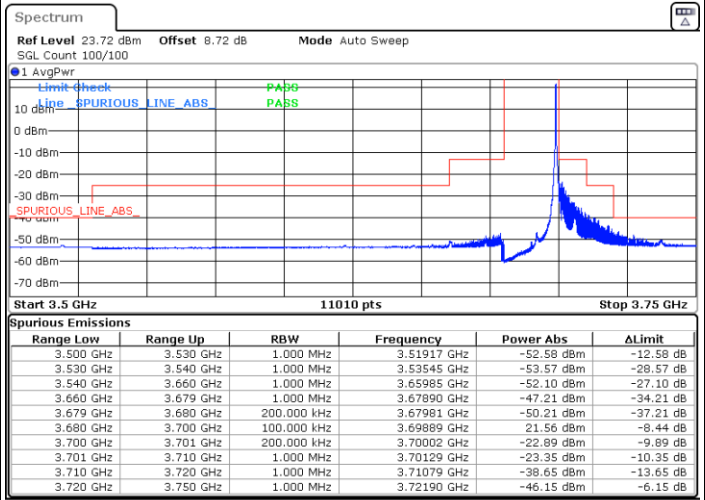
## QPSK

## Highest Channel / 1RB0

## Highest Channel / 1RBmax

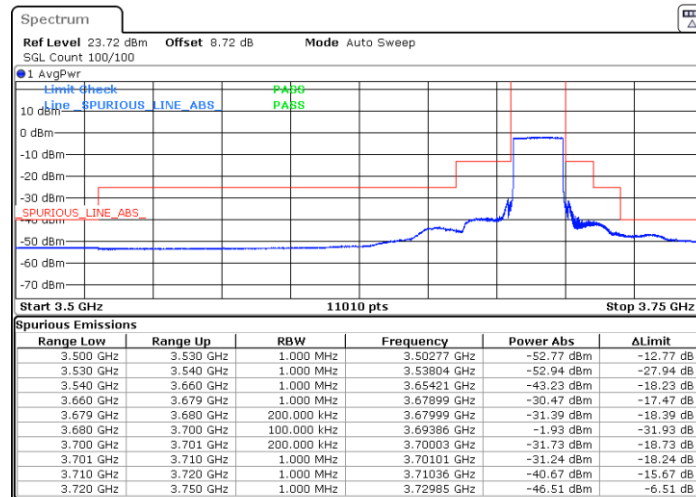


Date: 29.AUG.2025 17:32:45



Date: 29.AUG.2025 17:39:16

## Highest Channel / FullRB



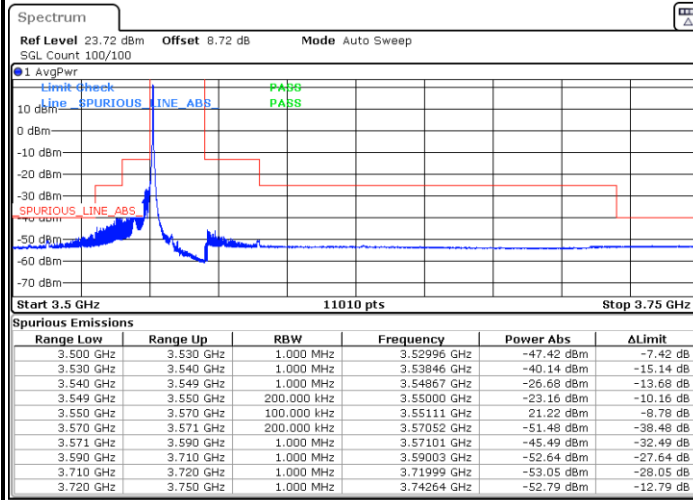
Date: 1.SEP.2025 10:46:09



## LTE Band 48 / 20MHz

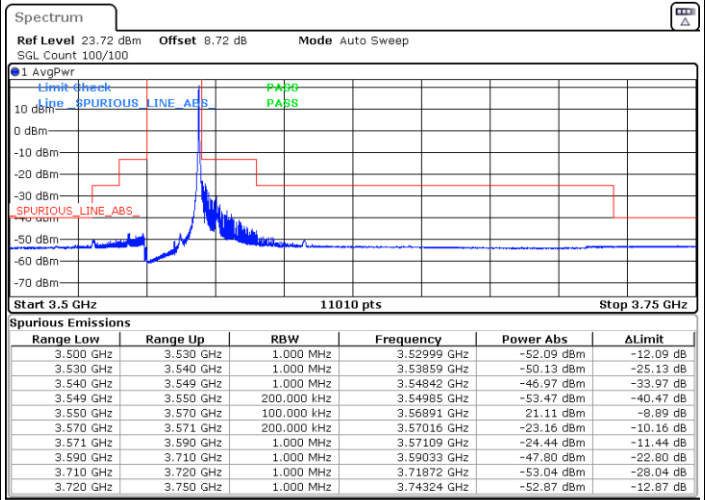
## 16QAM

## Lowest Channel / 1RB0



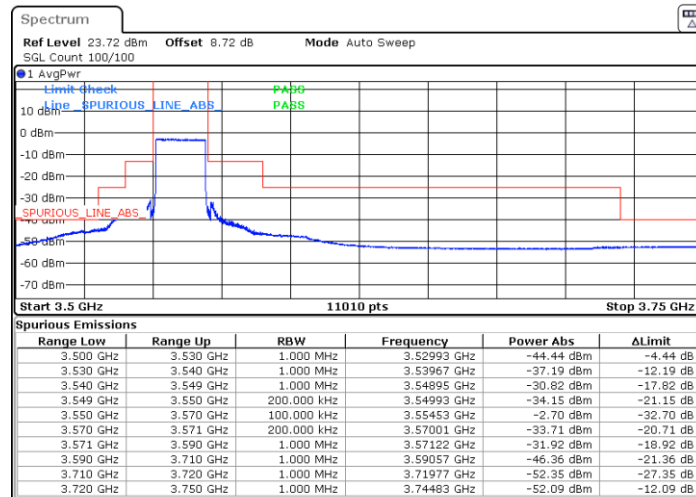
Date: 29.AUG.2025 16:20:37

## Lowest Channel / 1RBmax



Date: 29.AUG.2025 16:26:36

## Lowest Channel / FullIRB



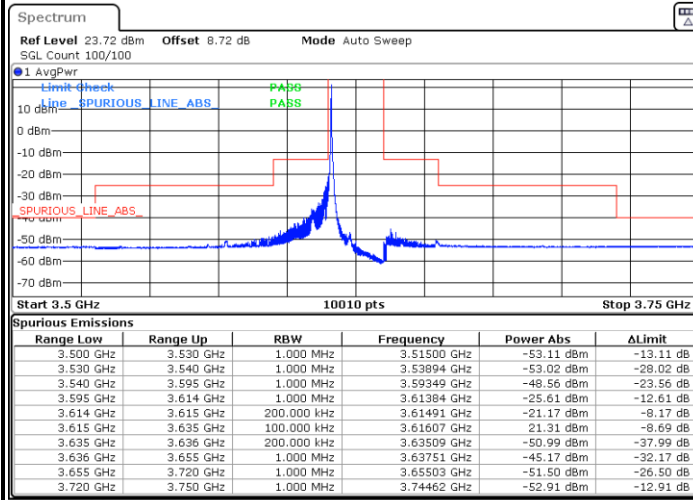
Date: 1.SEP.2025 11:01:40



## LTE Band 48 / 20MHz

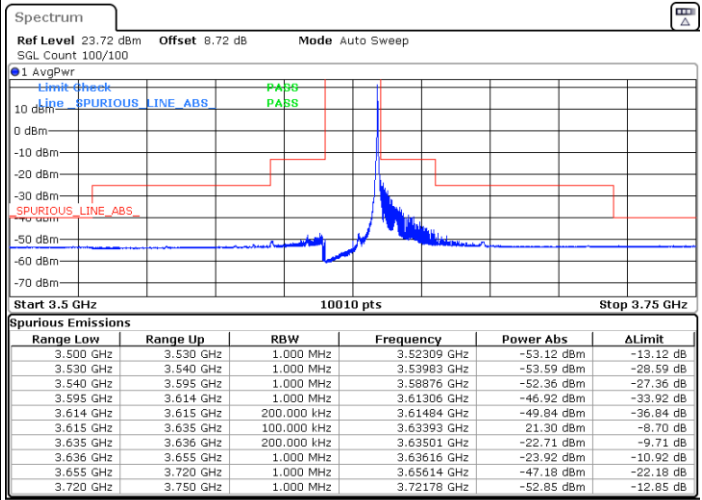
## 16QAM

## Middle Channel / 1RB0



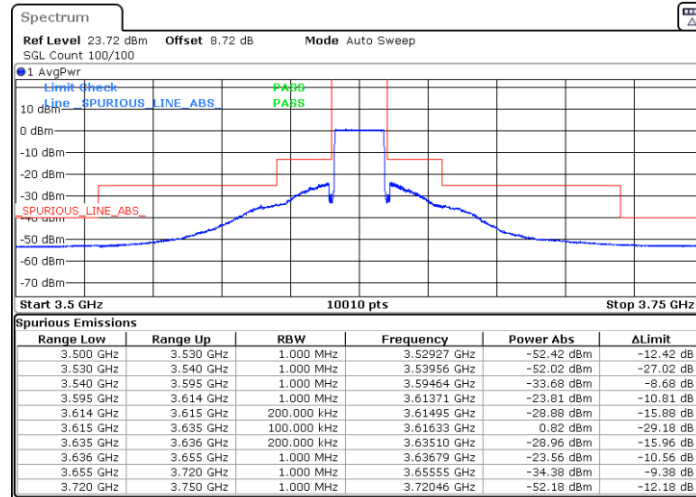
Date: 29.AUG.2025 16:00:15

## Middle Channel / 1RBmax



Date: 29.AUG.2025 16:05:47

## Middle Channel / Full



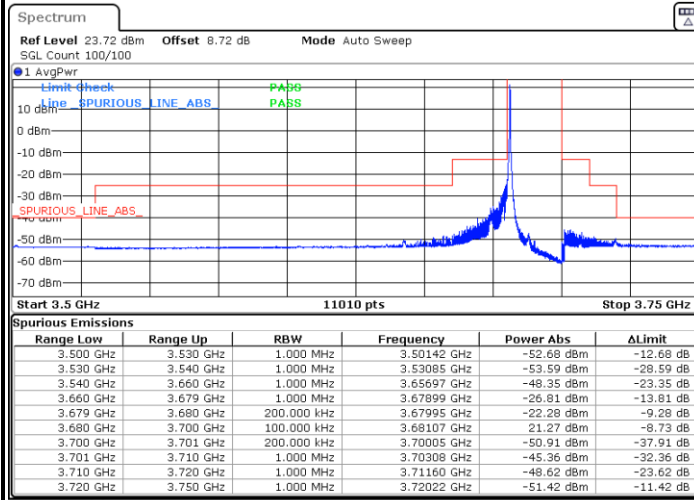
Date: 29.AUG.2025 16:11:20



## LTE Band 48 / 20MHz

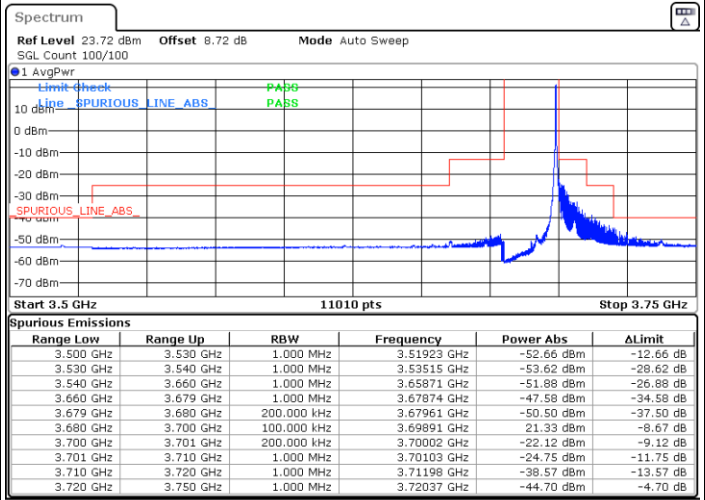
## 16QAM

## Highest Channel / 1RB0



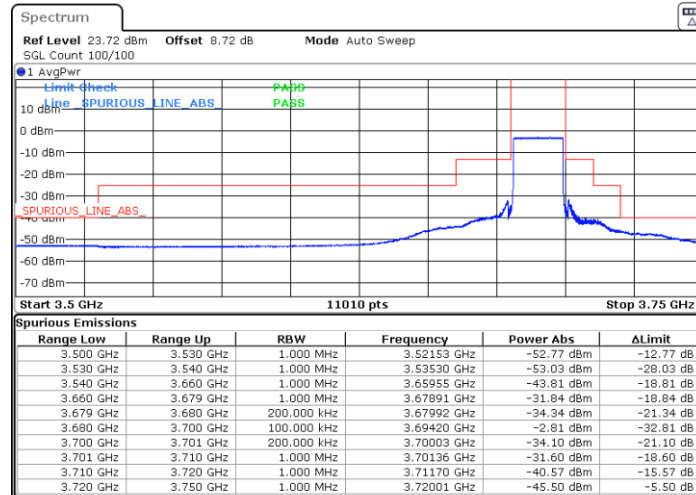
Date: 29.AUG.2025 17:34:20

## Highest Channel / 1RBmax



Date: 29.AUG.2025 17:40:51

## Highest Channel / FullRB



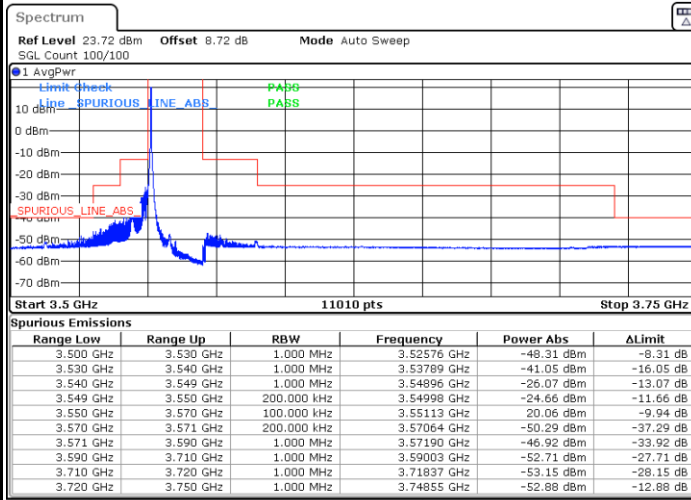
Date: 1.SEP.2025 10:47:55



## LTE Band 48 / 20MHz

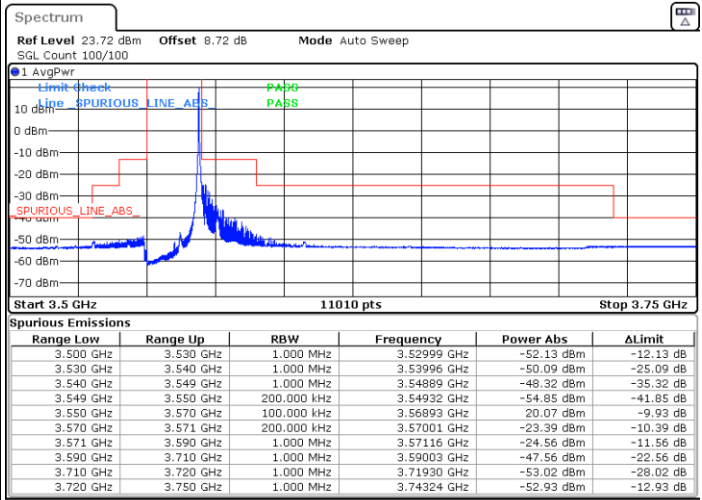
## 64QAM

## Lowest Channel / 1RB0



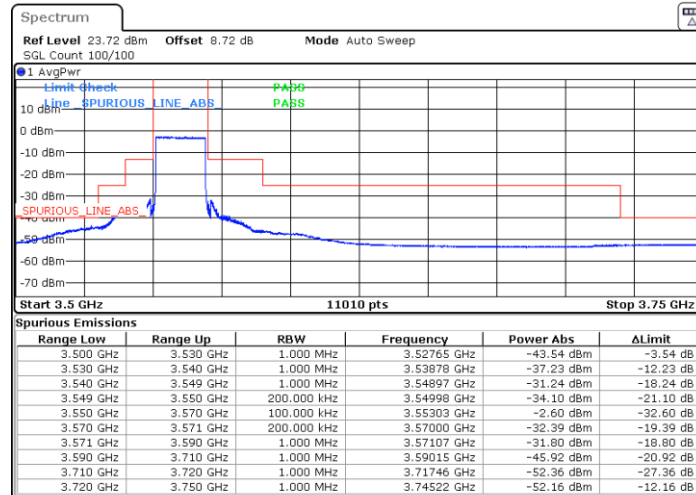
Date: 29.AUG.2025 16:22:07

## Lowest Channel / 1RBmax



Date: 29.AUG.2025 16:28:06

## Lowest Channel / FullIRB



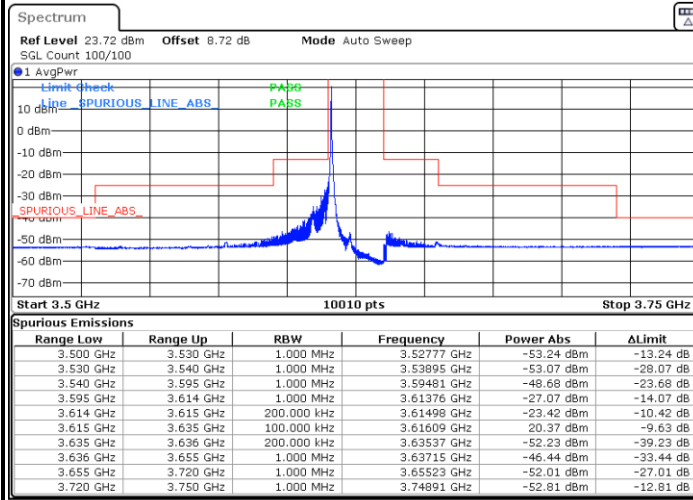
Date: 1.SEP.2025 11:03:38



## LTE Band 48 / 20MHz

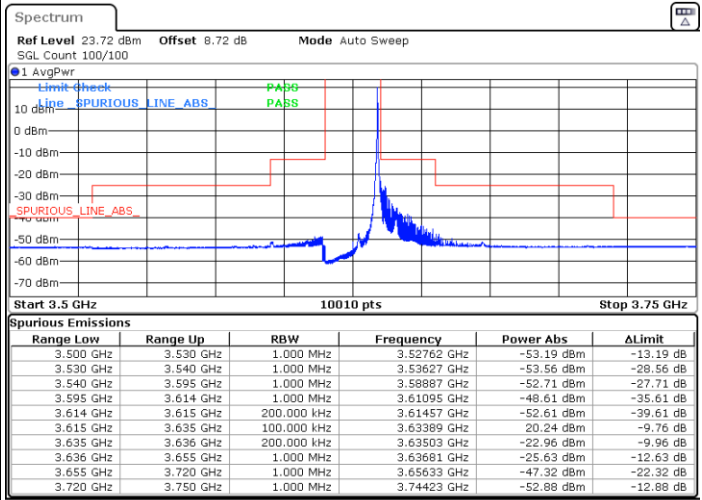
## 64QAM

## Middle Channel / 1RB0



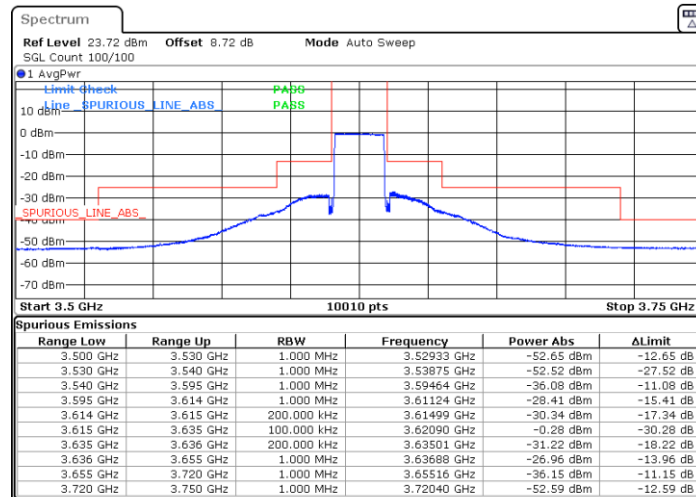
Date: 29.AUG.2025 16:01:37

## Middle Channel / 1RBmax



Date: 29.AUG.2025 16:07:10

## Middle Channel / Full



Date: 29.AUG.2025 16:12:42

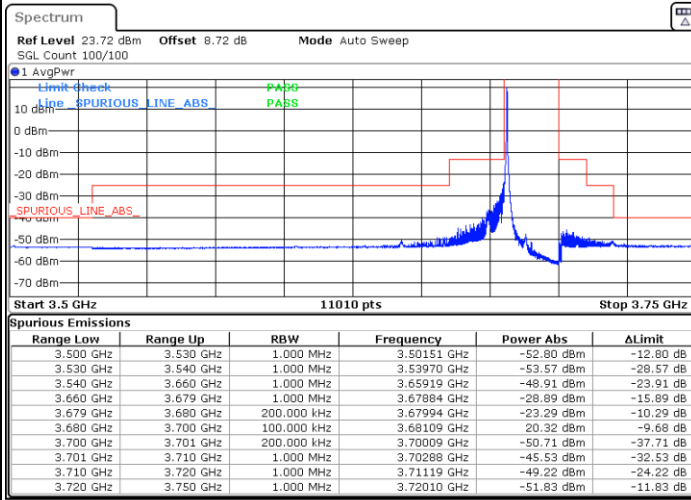


## LTE Band 48 / 20MHz

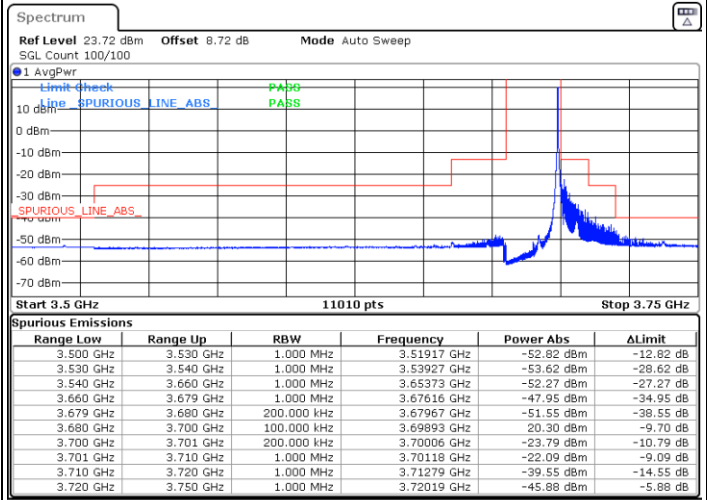
## 64QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax

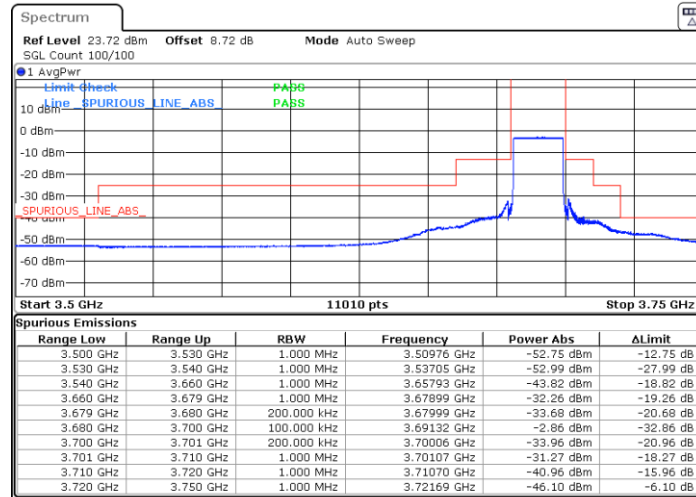


Date: 29.AUG.2025 17:35:59



Date: 29.AUG.2025 17:42:29

## Highest Channel / FullRB



Date: 1.SEP.2025 10:50:22

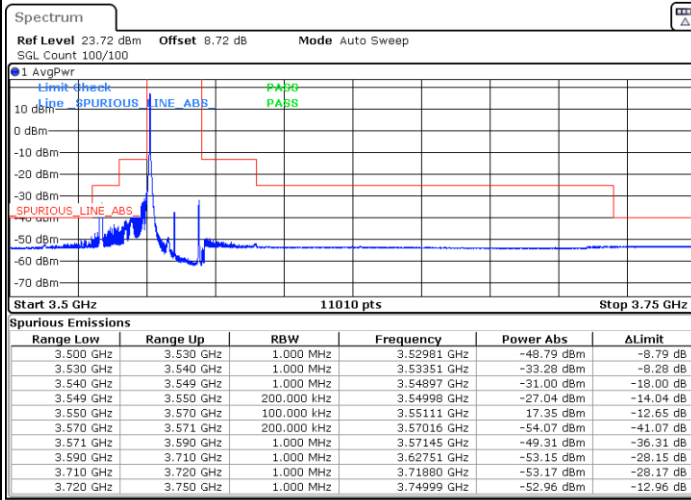


## LTE Band 48 / 20MHz

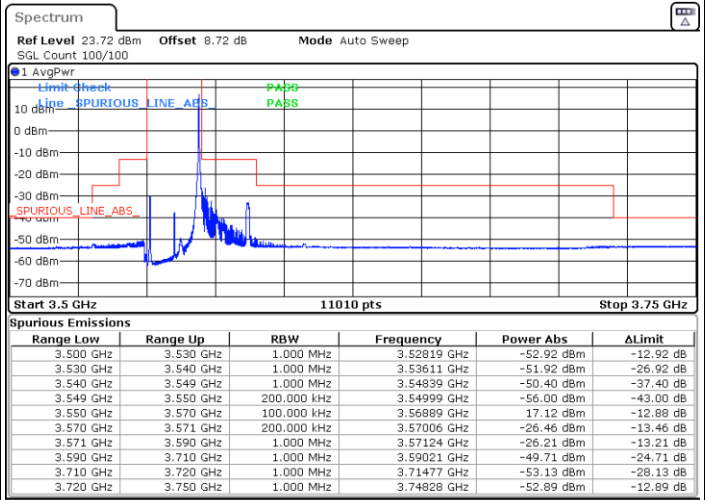
## 256QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax

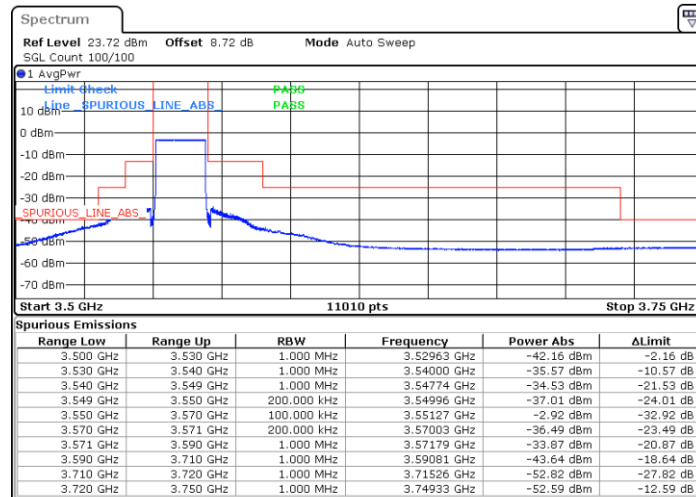


Date: 29.AUG.2025 16:23:38



Date: 29.AUG.2025 16:29:36

## Lowest Channel / FullIRB



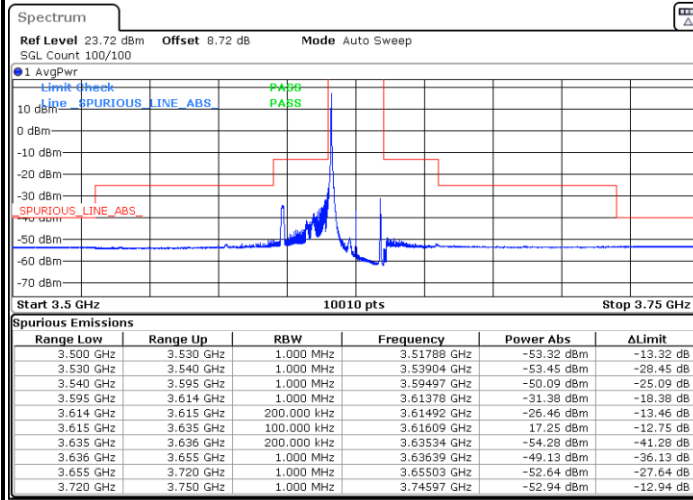
Date: 2.SEP.2025 14:02:56



## LTE Band 48 / 20MHz

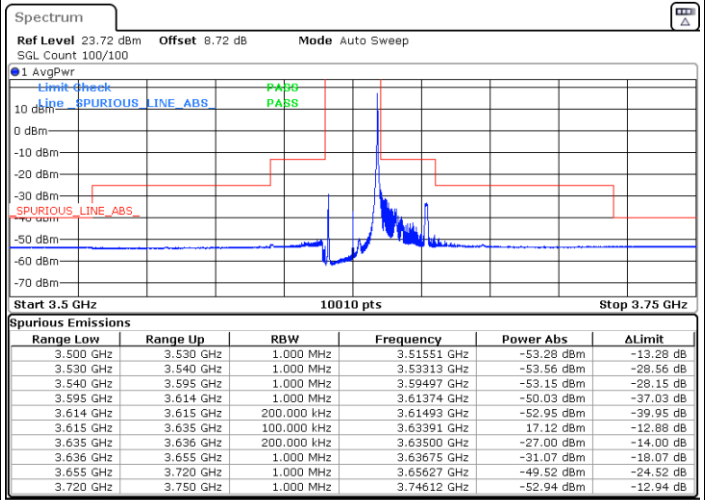
## 256QAM

## Middle Channel / 1RB0



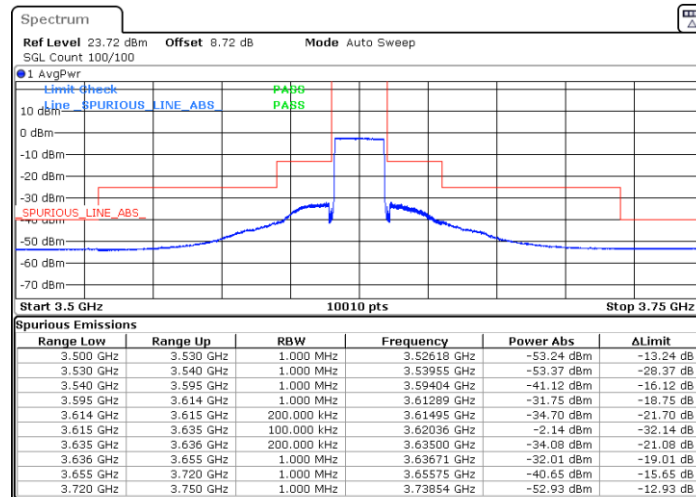
Date: 29.AUG.2025 16:03:01

## Middle Channel / 1RBmax



Date: 29.AUG.2025 16:08:33

## Middle Channel / Full



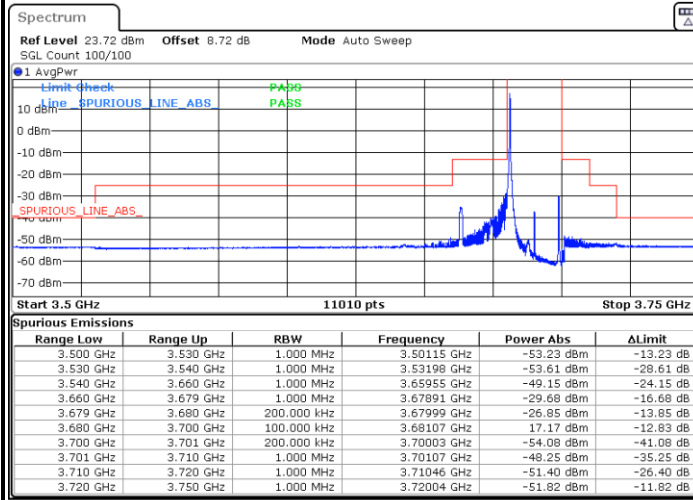
Date: 29.AUG.2025 16:14:05



## LTE Band 48 / 20MHz

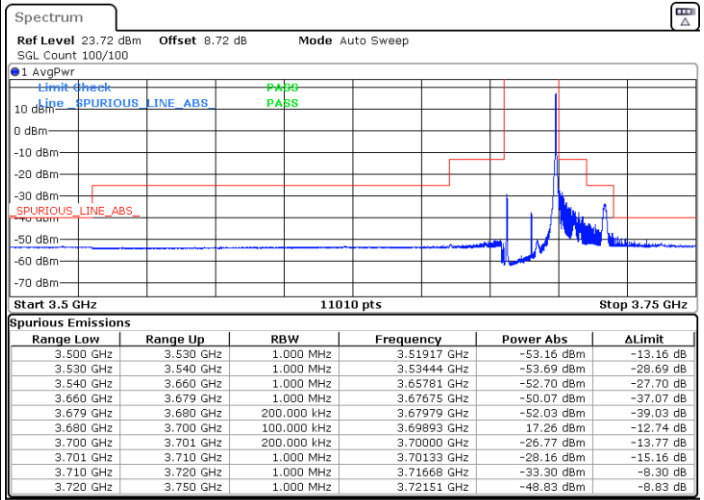
## 256QAM

## Highest Channel / 1RB0



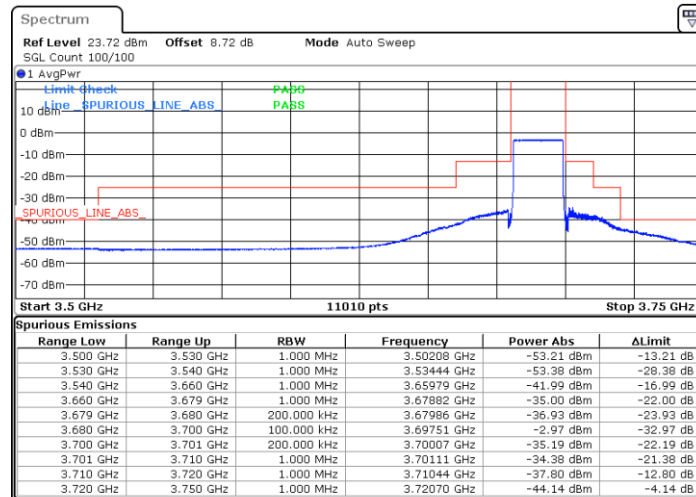
Date: 29.AUG.2025 17:37:38

## Highest Channel / 1RBmax



Date: 29.AUG.2025 17:44:08

## Highest Channel / FullRB



Date: 2.SEP.2025 14:06:29



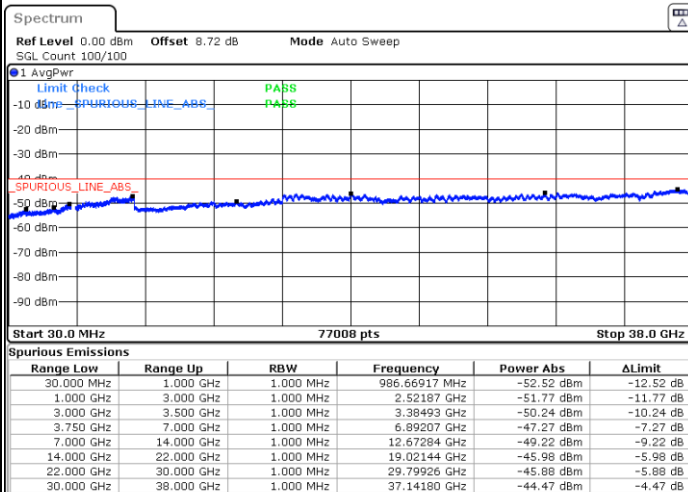
## Conducted Spurious Emission

LTE Band 48 / 5MHz

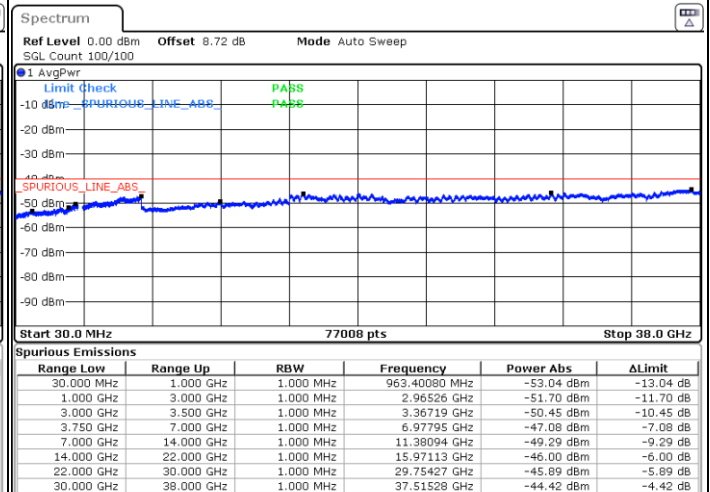
QPSK / 1RB0

Lowest Channel

Middle Channel

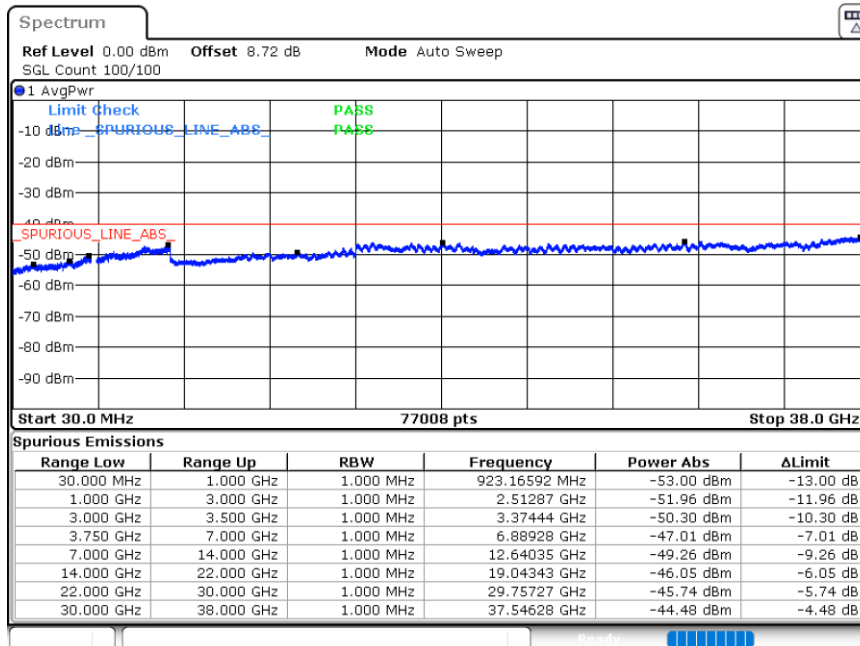


Date: 3.SEP.2025 13:45:10



Date: 3.SEP.2025 13:46:31

Highest Channel



Date: 3.SEP.2025 13:47:52



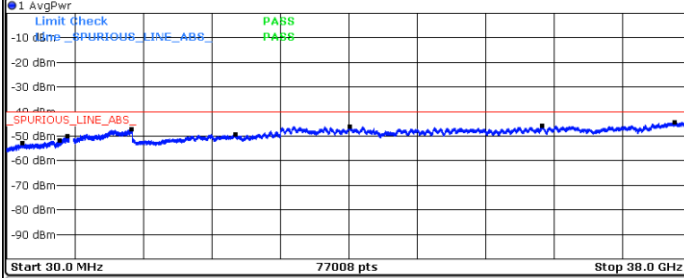
## LTE Band 48 / 10MHz

## QPSK / 1RB0

## Lowest Channel

## Middle Channel

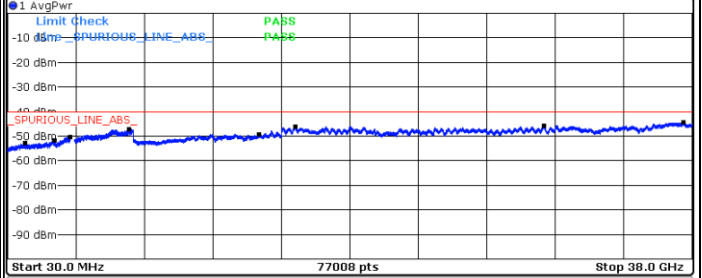
## Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep  
SGL Count 100/100

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 916.37931 MHz | -52.95 dBm | -12.95 dB |
| 1.000 GHz  | 3.000 GHz  | 1.000 MHz | 2.95276 GHz   | -51.82 dBm | -11.82 dB |
| 3.000 GHz  | 3.500 GHz  | 1.000 MHz | 3.39393 GHz   | -50.01 dBm | -10.01 dB |
| 3.750 GHz  | 7.000 GHz  | 1.000 MHz | 6.97470 GHz   | -47.30 dBm | -7.30 dB  |
| 7.000 GHz  | 14.000 GHz | 1.000 MHz | 12.70084 GHz  | -49.18 dBm | -9.18 dB  |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 19.05493 GHz  | -45.96 dBm | -5.96 dB  |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.74177 GHz  | -45.93 dBm | -5.93 dB  |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.09731 GHz  | -44.51 dBm | -4.51 dB  |

Date: 3.SEP.2025 13:49:57

## Spectrum

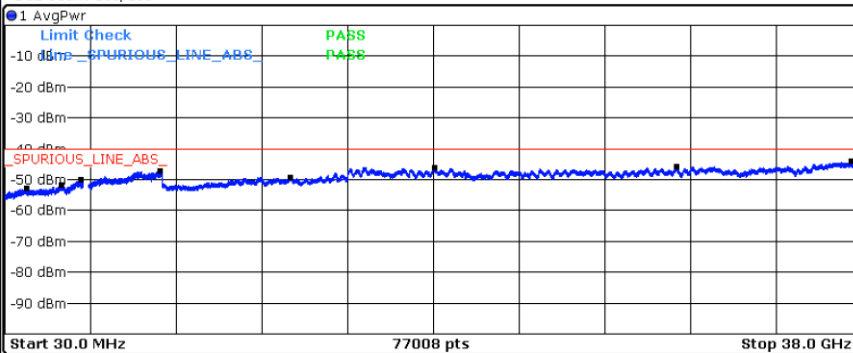
Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep  
SGL Count 100/100

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 996.36432 MHz | -52.79 dBm | -12.79 dB |
| 1.000 GHz  | 3.000 GHz  | 1.000 MHz | 2.63084 GHz   | -51.80 dBm | -11.80 dB |
| 3.000 GHz  | 3.500 GHz  | 1.000 MHz | 3.49288 GHz   | -50.20 dBm | -10.20 dB |
| 3.750 GHz  | 7.000 GHz  | 1.000 MHz | 6.74955 GHz   | -47.32 dBm | -7.32 dB  |
| 7.000 GHz  | 14.000 GHz | 1.000 MHz | 13.98975 GHz  | -49.26 dBm | -9.26 dB  |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 15.97013 GHz  | -46.00 dBm | -6.00 dB  |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.78426 GHz  | -45.62 dBm | -5.62 dB  |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.51028 GHz  | -44.41 dBm | -4.41 dB  |

Date: 3.SEP.2025 13:51:18

## Highest Channel

## Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep  
SGL Count 100/100

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 979.88256 MHz | -52.96 dBm | -12.96 dB |
| 1.000 GHz  | 3.000 GHz  | 1.000 MHz | 2.52337 GHz   | -51.71 dBm | -11.71 dB |
| 3.000 GHz  | 3.500 GHz  | 1.000 MHz | 3.38343 GHz   | -49.96 dBm | -9.96 dB  |
| 3.750 GHz  | 7.000 GHz  | 1.000 MHz | 6.91667 GHz   | -47.25 dBm | -7.25 dB  |
| 7.000 GHz  | 14.000 GHz | 1.000 MHz | 12.68634 GHz  | -49.23 dBm | -9.23 dB  |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 19.04593 GHz  | -46.07 dBm | -6.07 dB  |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.76626 GHz  | -45.90 dBm | -5.90 dB  |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.52428 GHz  | -44.16 dBm | -4.16 dB  |

Date: 3.SEP.2025 13:52:39

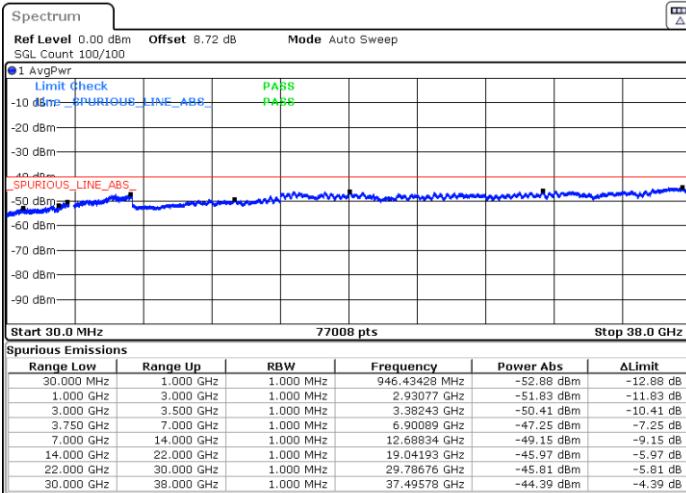


## LTE Band 48 / 15MHz

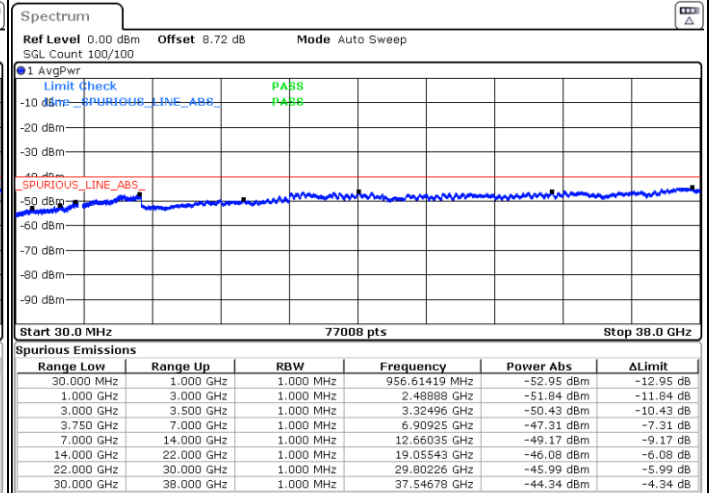
## QPSK / 1RB0

## Lowest Channel

## Middle Channel

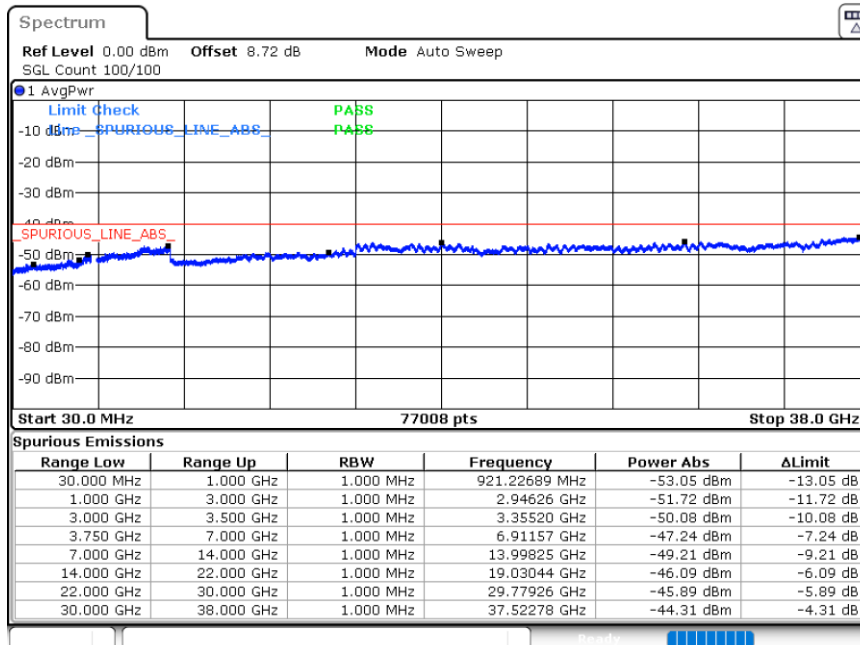


Date: 3.SEP.2025 13:54:43



Date: 3.SEP.2025 13:56:05

## Highest Channel



Date: 3.SEP.2025 13:57:26



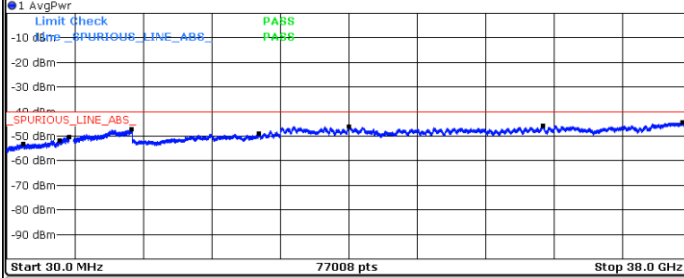
## LTE Band 48 / 20MHz

## QPSK / 1RB0

## Lowest Channel

## Middle Channel

Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep  
SQL Count 100/100

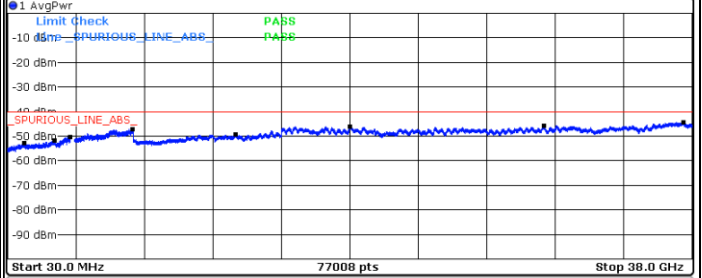
Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 948.37331 MHz | -53.09 dBm | -13.09 dB |
| 1.000 GHz  | 3.000 GHz  | 1.000 MHz | 2.95126 GHz   | -51.83 dBm | -11.83 dB |
| 3.000 GHz  | 3.500 GHz  | 1.000 MHz | 3.48063 GHz   | -50.40 dBm | -10.40 dB |
| 3.750 GHz  | 7.000 GHz  | 1.000 MHz | 6.93431 GHz   | -47.27 dBm | -7.27 dB  |
| 7.000 GHz  | 14.000 GHz | 1.000 MHz | 13.99425 GHz  | -49.07 dBm | -9.07 dB  |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 19.03694 GHz  | -46.09 dBm | -6.09 dB  |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.77276 GHz  | -45.94 dBm | -5.94 dB  |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.52778 GHz  | -44.43 dBm | -4.43 dB  |

Date: 3.SEP.2025 13:59:30

Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep  
SQL Count 100/100

Start 30.0 MHz 77008 pts Stop 38.0 GHz

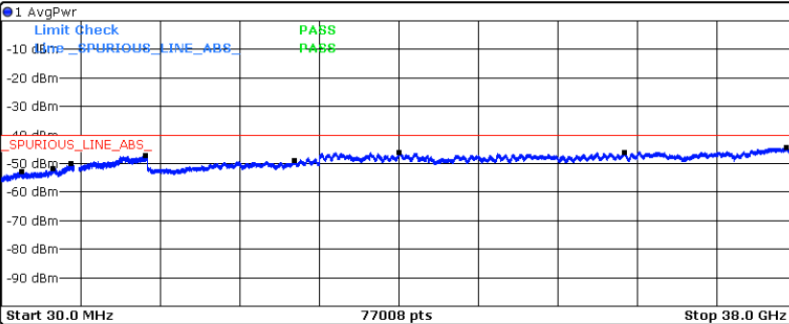
Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 938.67816 MHz | -52.78 dBm | -12.78 dB |
| 1.000 GHz  | 3.000 GHz  | 1.000 MHz | 2.62884 GHz   | -51.70 dBm | -11.70 dB |
| 3.000 GHz  | 3.500 GHz  | 1.000 MHz | 3.49813 GHz   | -50.42 dBm | -10.42 dB |
| 3.750 GHz  | 7.000 GHz  | 1.000 MHz | 6.93571 GHz   | -47.16 dBm | -7.16 dB  |
| 7.000 GHz  | 14.000 GHz | 1.000 MHz | 12.66835 GHz  | -49.21 dBm | -9.21 dB  |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 19.01694 GHz  | -46.05 dBm | -6.05 dB  |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.78576 GHz  | -45.94 dBm | -5.94 dB  |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.50578 GHz  | -44.52 dBm | -4.52 dB  |

Date: 3.SEP.2025 14:00:51

## Highest Channel

Spectrum

Ref Level 0.00 dBm Offset 8.72 dB Mode Auto Sweep  
SQL Count 100/100

Start 30.0 MHz 77008 pts Stop 38.0 GHz

Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 988.12344 MHz | -52.83 dBm | -12.83 dB |
| 1.000 GHz  | 3.000 GHz  | 1.000 MHz | 2.48188 GHz   | -51.59 dBm | -11.59 dB |
| 3.000 GHz  | 3.500 GHz  | 1.000 MHz | 3.36144 GHz   | -50.12 dBm | -10.12 dB |
| 3.750 GHz  | 7.000 GHz  | 1.000 MHz | 6.92456 GHz   | -47.31 dBm | -7.31 dB  |
| 7.000 GHz  | 14.000 GHz | 1.000 MHz | 13.99325 GHz  | -49.01 dBm | -9.01 dB  |
| 14.000 GHz | 22.000 GHz | 1.000 MHz | 19.03694 GHz  | -46.01 dBm | -6.01 dB  |
| 22.000 GHz | 30.000 GHz | 1.000 MHz | 29.79876 GHz  | -45.99 dBm | -5.99 dB  |
| 30.000 GHz | 38.000 GHz | 1.000 MHz | 37.53928 GHz  | -44.29 dBm | -4.29 dB  |

Date: 3.SEP.2025 14:02:13

## Frequency Stability

| Test Conditions  |                   | LTE Band 48 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 5MHz                             | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0048                              | PASS    |
| 40               | Normal Voltage    | 0.0016                              |         |
| 30               | Normal Voltage    | 0.0025                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0035                              |         |
| 0                | Normal Voltage    | 0.0019                              |         |
| -10              | Normal Voltage    | 0.0038                              |         |
| -20              | Normal Voltage    | 0.0014                              |         |
| -30              | Normal Voltage    | 0.0029                              |         |
| 20               | Maximum Voltage   | 0.0034                              |         |
| 20               | Normal Voltage    | 0.0017                              |         |
| 20               | Battery End Point | 0.0039                              |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                        |       |                            |         |
|------------------------|-------|----------------------------|---------|
| <b>Test Engineer :</b> | Chris | <b>Temperature :</b>       | 21~25°C |
|                        |       | <b>Relative Humidity :</b> | 51~53%  |

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

| LTE Band 48 / 20MHz / QPSK / Ant.9 |                      |                 |                  |                         |                          |                            |                             |                       |
|------------------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| 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) |
| Middle                             | 7236                 | -62.14          | -40              | -22.14                  | -73.60                   | 2.84                       | 14.30                       | H                     |
|                                    | 10848                | -60.72          | -40              | -20.72                  | -70.66                   | 3.49                       | 13.43                       | H                     |
|                                    | 14460                | -58.27          | -40              | -18.27                  | -68.51                   | 3.85                       | 14.09                       | H                     |
|                                    | 7236                 | -62.27          | -40              | -22.27                  | -73.73                   | 2.84                       | 14.30                       | V                     |
|                                    | 10848                | -60.47          | -40              | -20.47                  | -70.41                   | 3.49                       | 13.43                       | V                     |
|                                    | 14460                | -55.76          | -40              | -15.76                  | -66.00                   | 3.85                       | 14.09                       | V                     |

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