

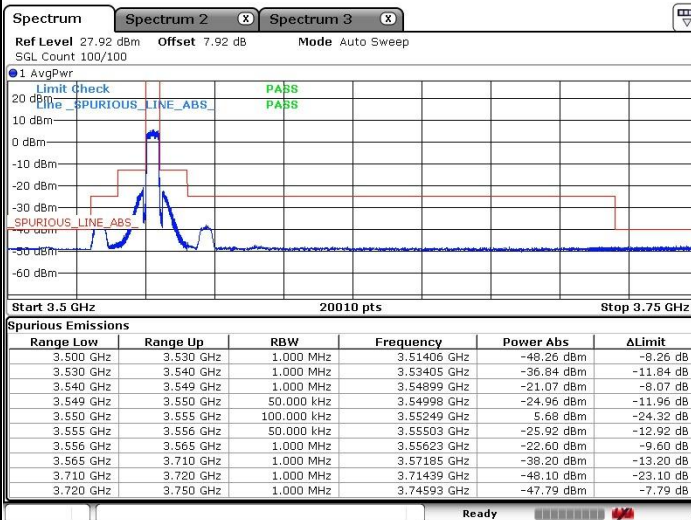


## LTE Band 48 / 5MHz

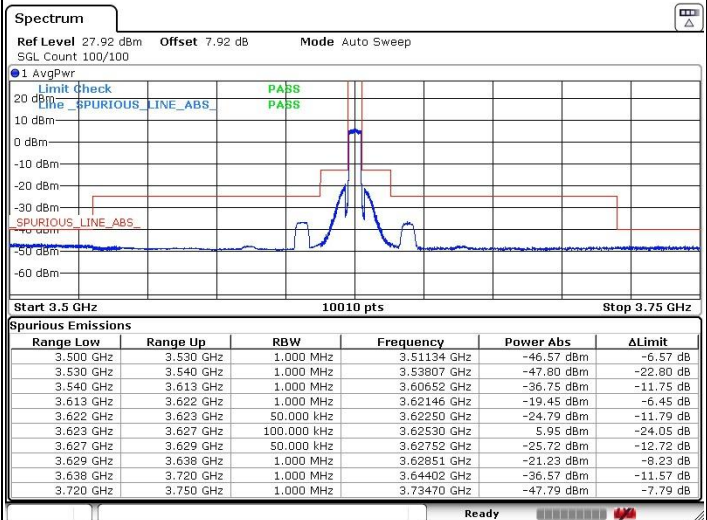
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



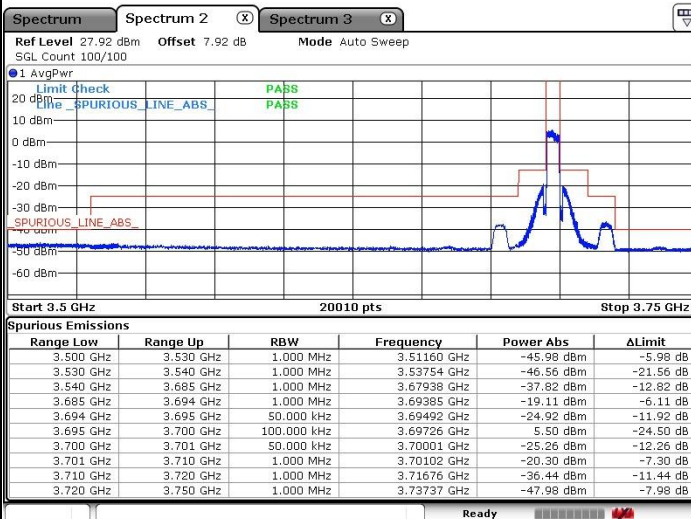
Date: 14.SEP.2020 20:05:06



Date: 16.SEP.2020 06:42:30

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 19:44:44

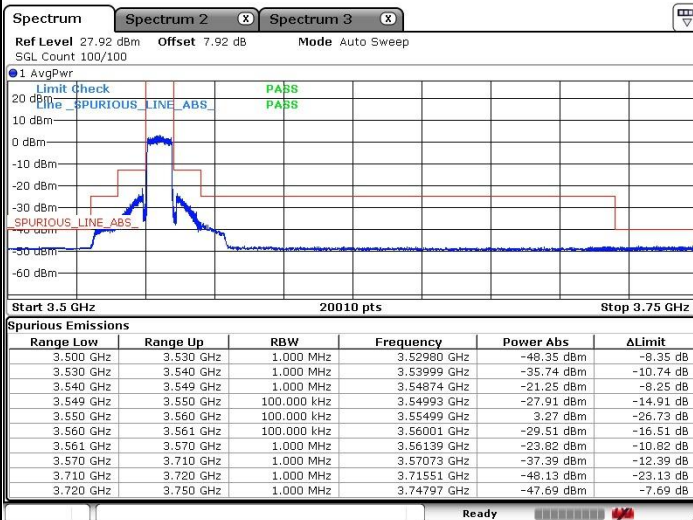


## LTE Band 48 / 10MHz

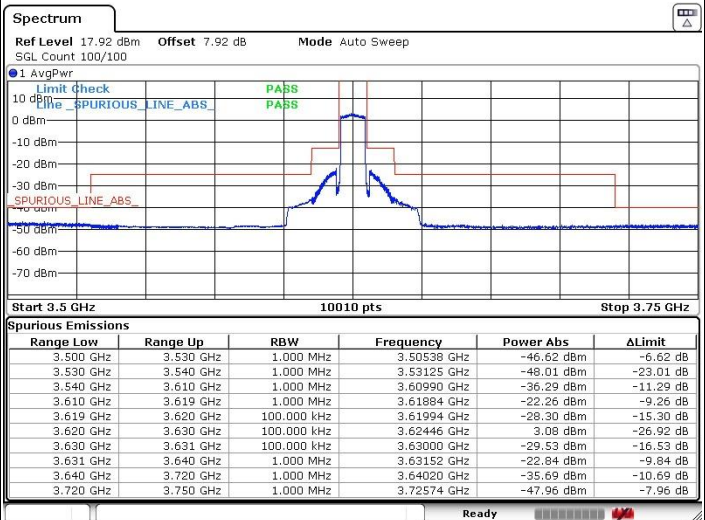
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



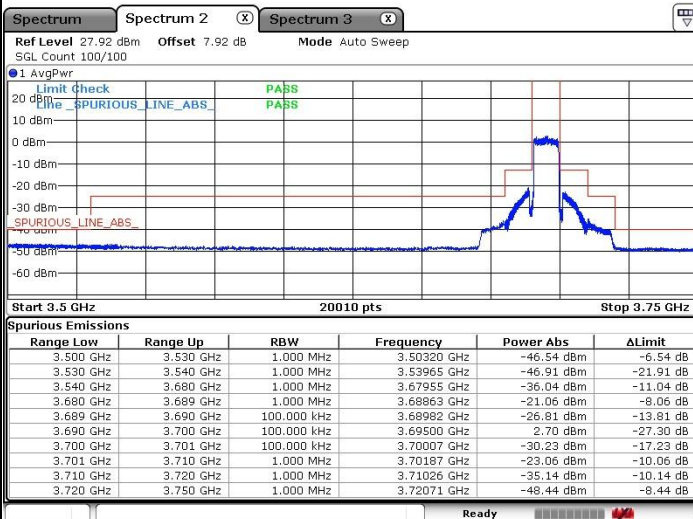
Date: 14.SEP.2020 20:11:09



Date: 16.SEP.2020 06:54:11

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 20:17:07

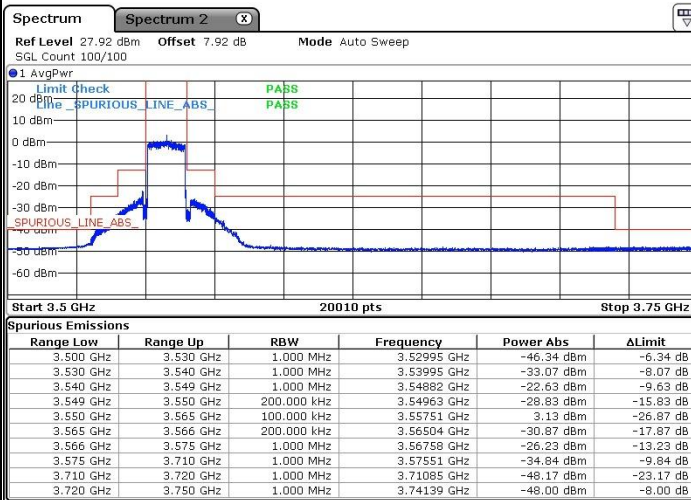


## LTE Band 48 / 15MHz

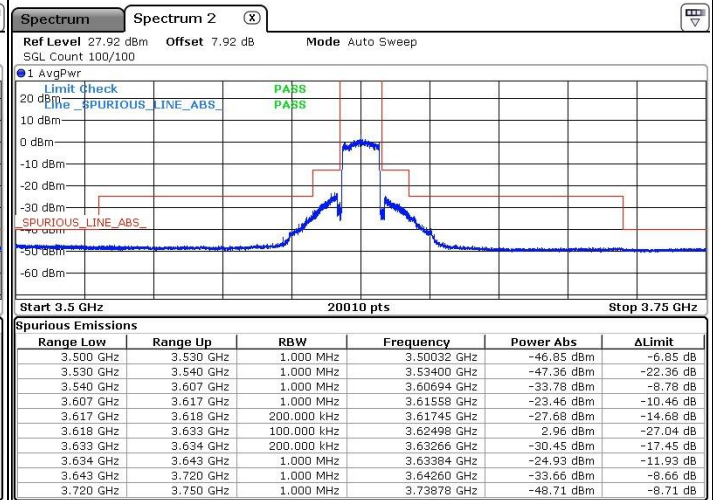
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



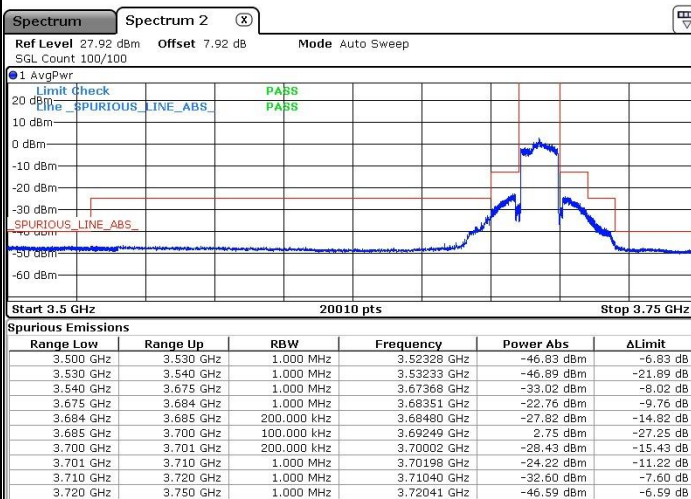
Date: 14.SEP.2020 19:00:41



Date: 14.SEP.2020 19:21:10

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 19:08:41

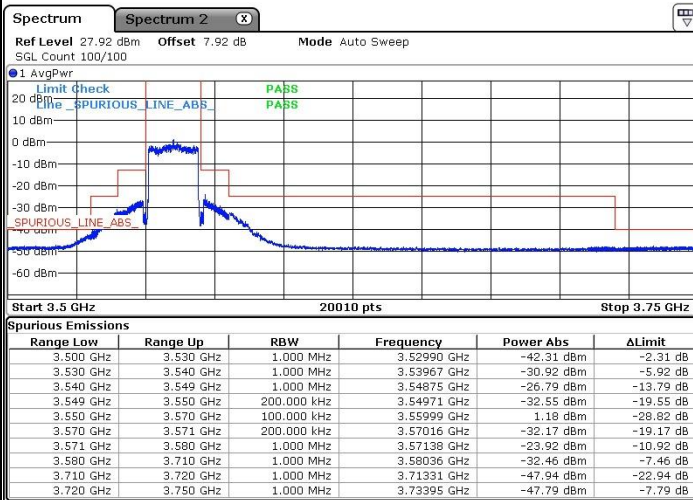


## LTE Band 48 / 20MHz

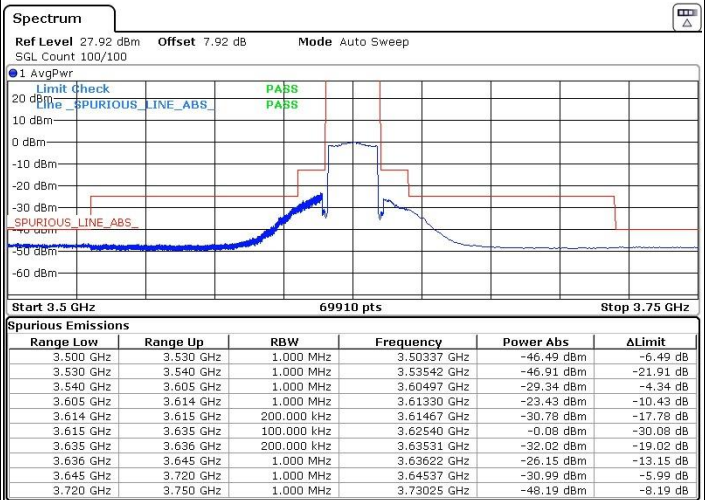
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



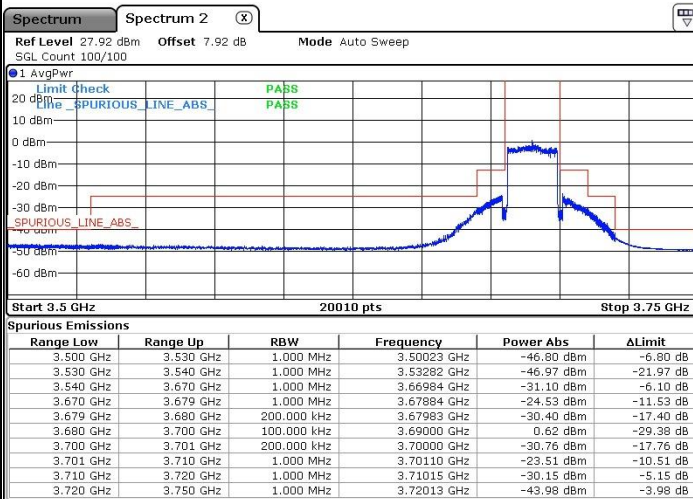
Date: 14.SEP.2020 18:45:38



Date: 16.SEP.2020 06:48:47

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 18:40:57

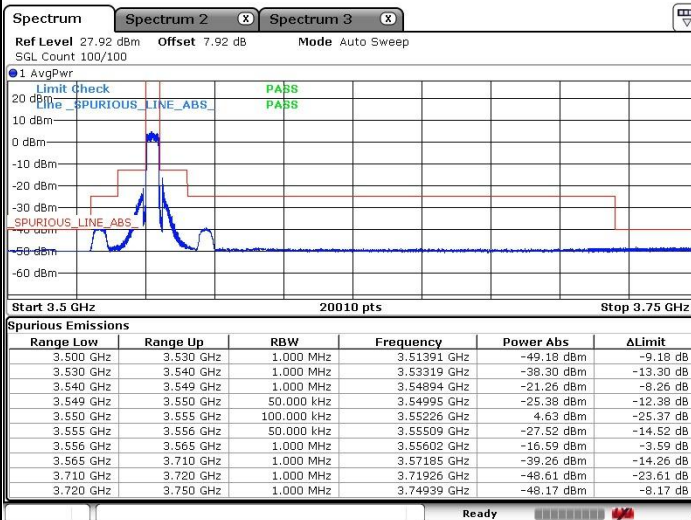


## LTE Band 48 / 5MHz

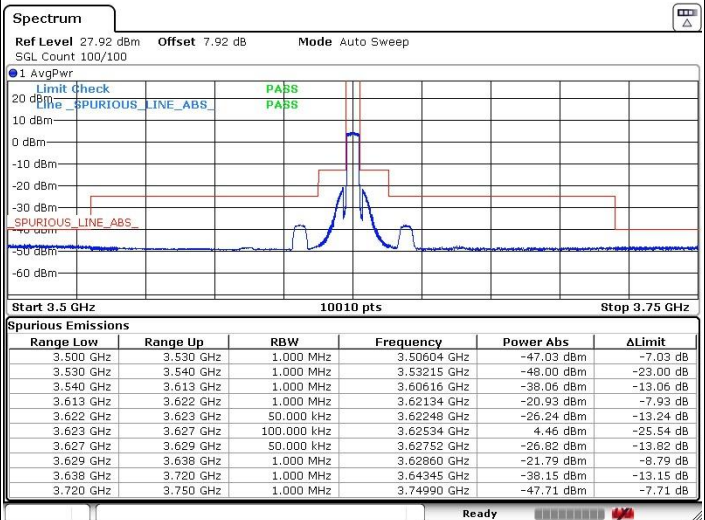
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



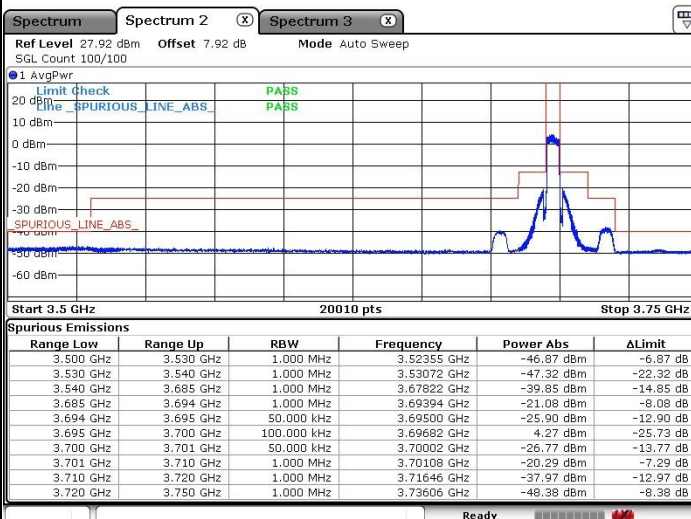
Date: 14.SEP.2020 20:03:28



Date: 16.SEP.2020 06:43:15

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 19:47:33



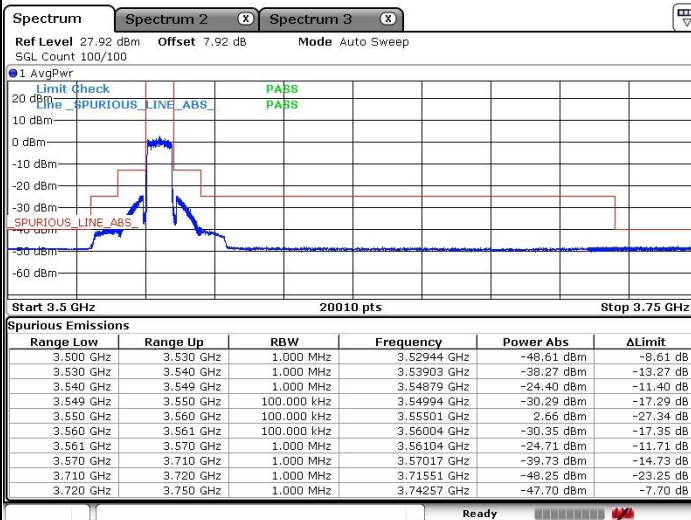


## LTE Band 48 / 10MHz

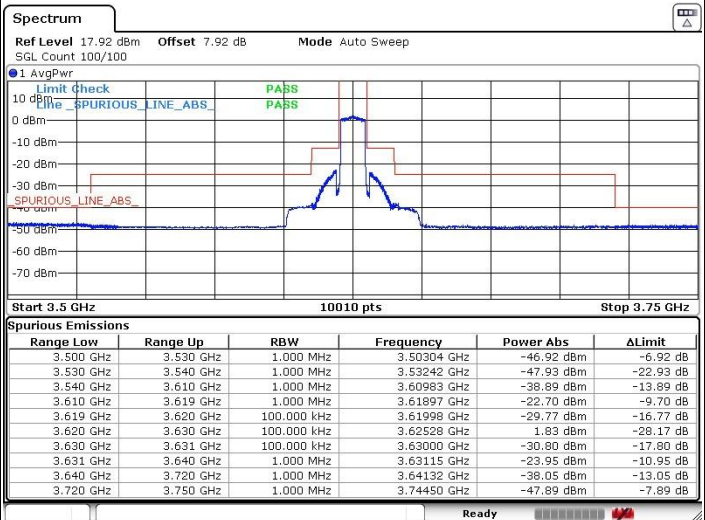
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



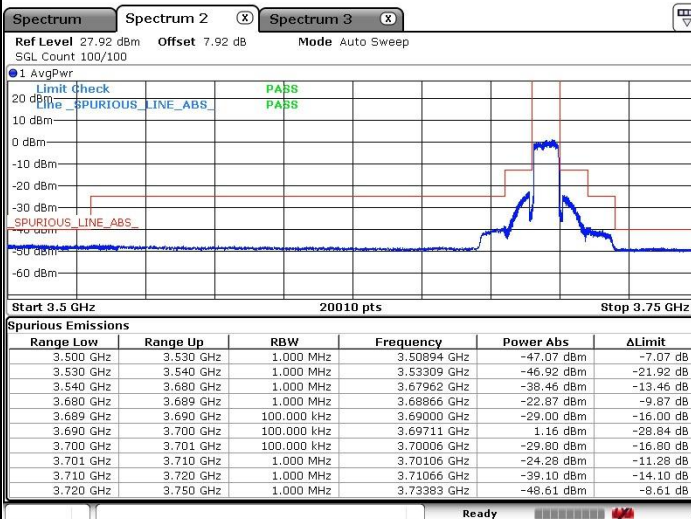
Date: 14.SEP.2020 20:12:04



Date: 16.SEP.2020 06:54:51

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 20:16:21

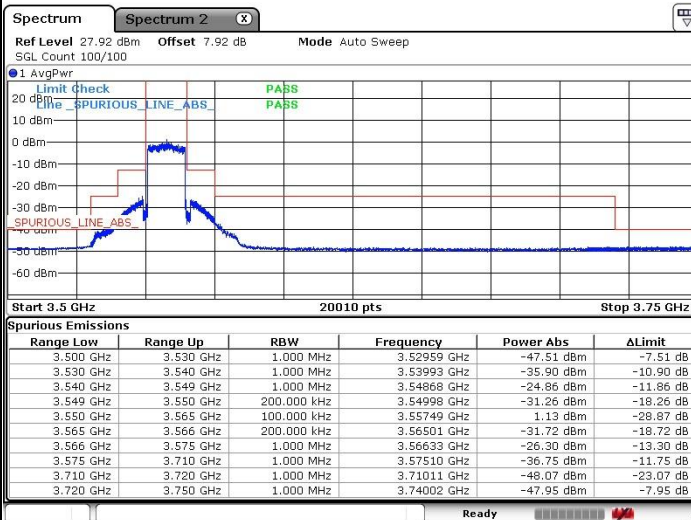


## LTE Band 48 / 15MHz

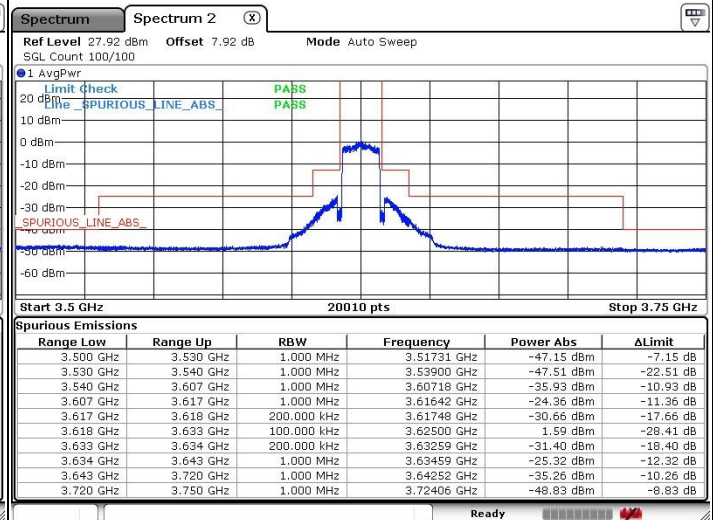
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



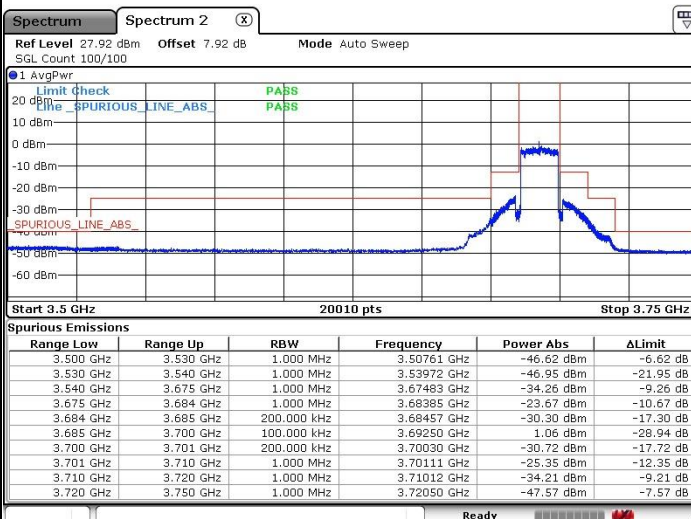
Date: 14.SEP.2020 19:02:32



Date: 14.SEP.2020 19:22:10

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 19:07:30

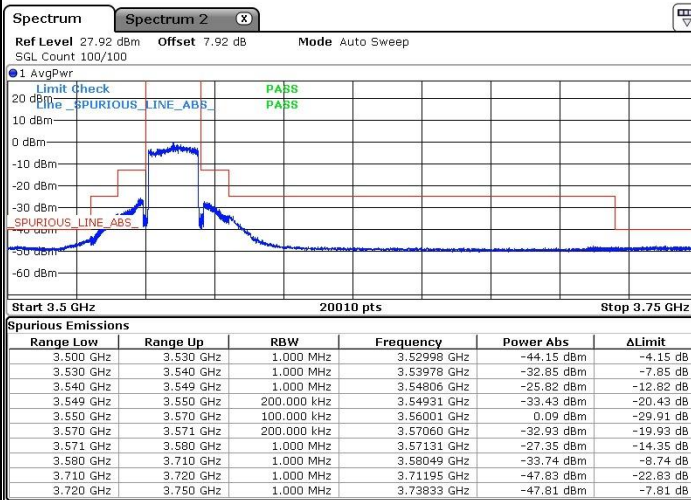


## LTE Band 48 / 20MHz

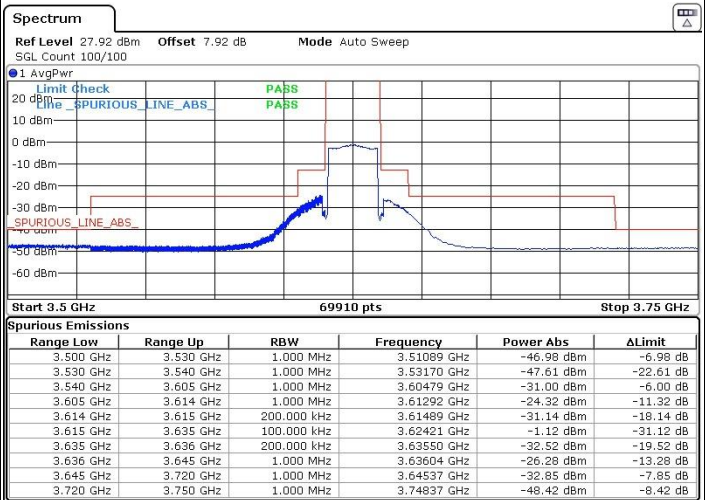
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



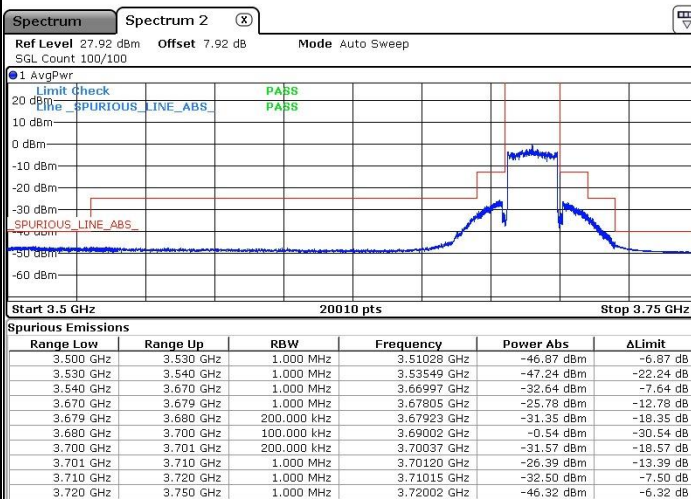
Date: 14.SEP.2020 18:45:06



Date: 16.SEP.2020 06:50:05

## Highest Channel / Full RB

## N/A



Date: 14.SEP.2020 18:42:46



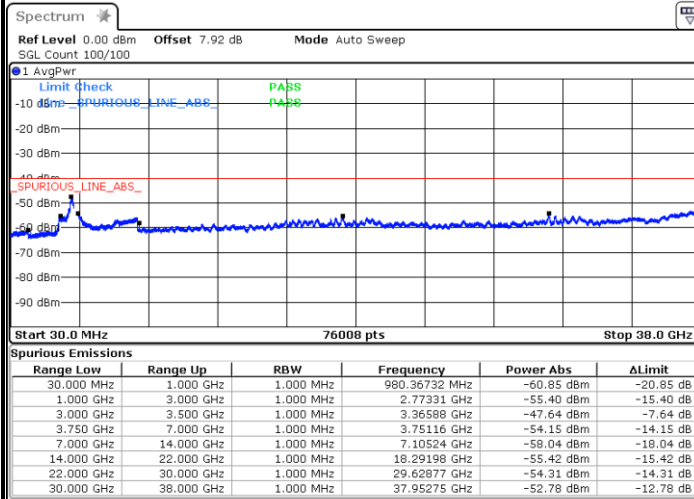


# Conducted Spurious Emission

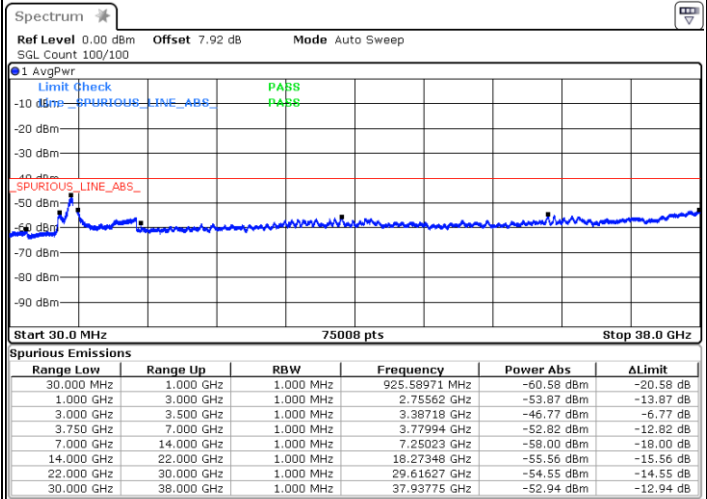
## LTE Band 48 / 5MHz

### QPSK

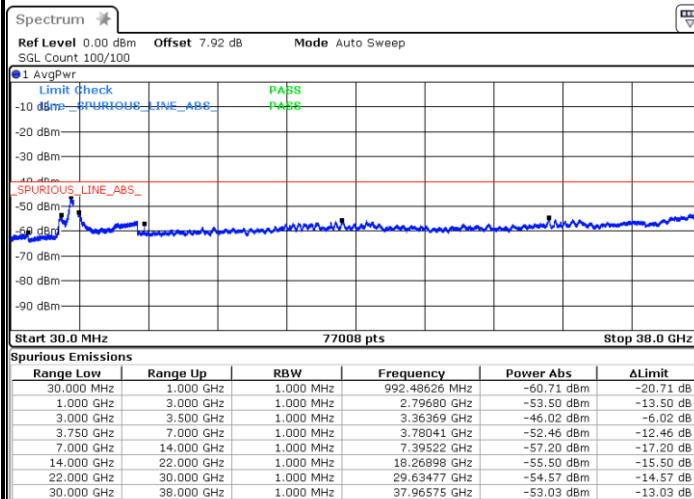
#### Lowest Channel / Full RB



#### Middle Channel / Full RB



#### Highest Channel / Full RB



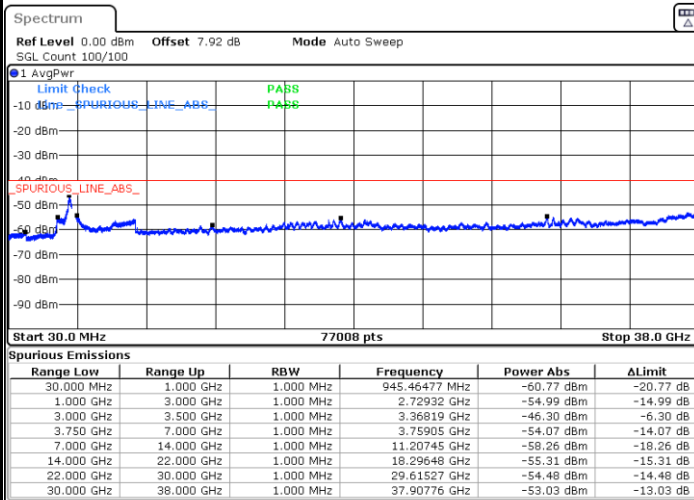
N/A



## LTE Band 48 / 10MHz

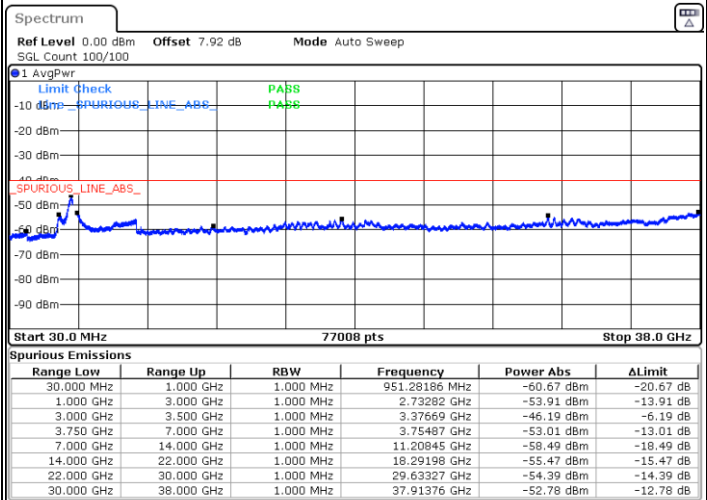
## QPSK

## Lowest Channel / Full RB



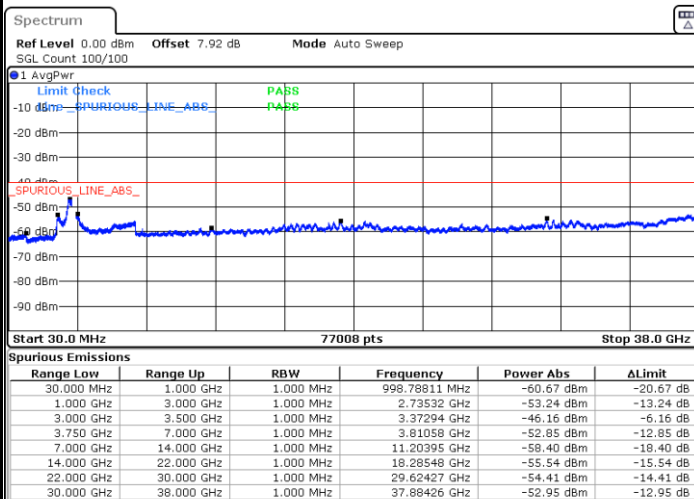
Date: 16 SEP 2020 05:03:11

## Middle Channel / Full RB



Date: 16 SEP 2020 05:10:06

## Highest Channel / Full RB



Date: 16 SEP 2020 05:13:44

N/A

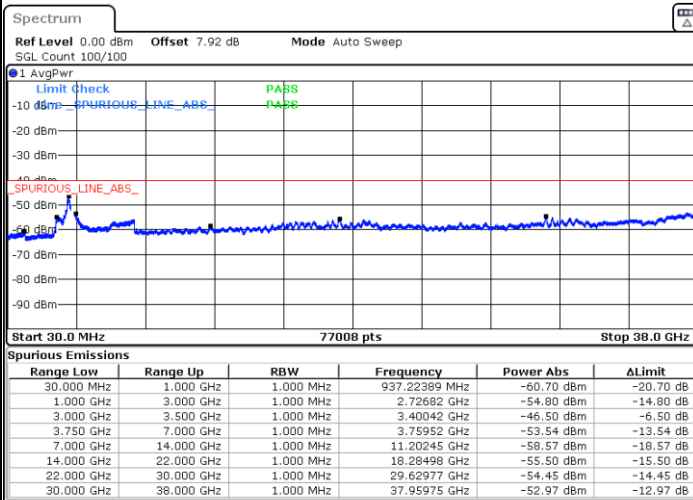


## LTE Band 48 / 15MHz

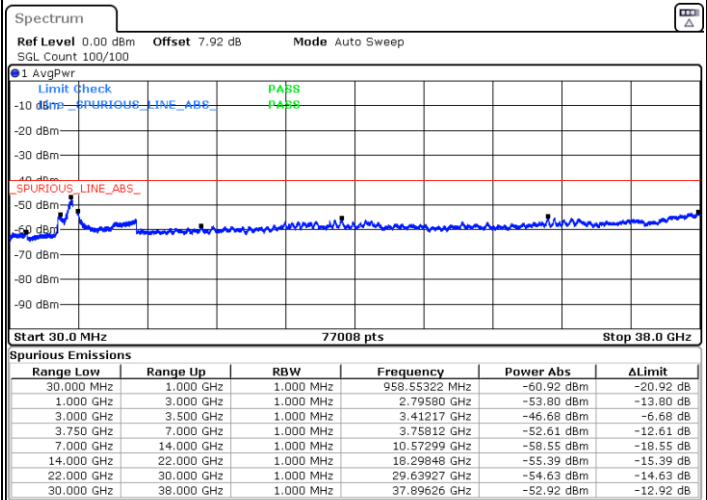
## QPSK

## Lowest Channel / Full RB

## Middle Channel / Full RB



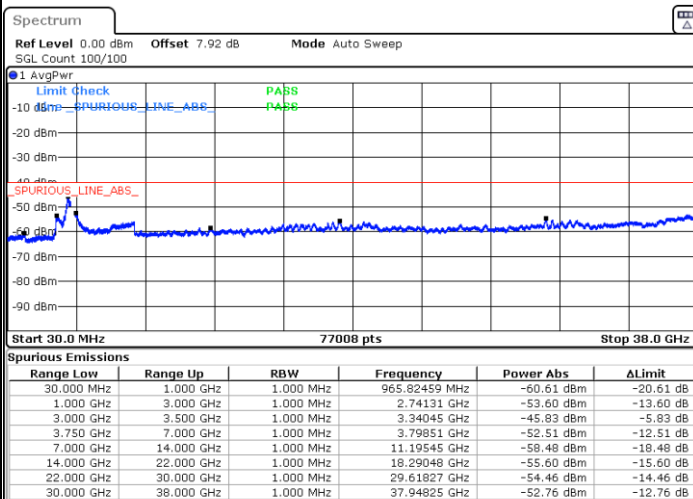
Date: 16 SEP 2020 05:18:59



Date: 16 SEP 2020 05:24:16

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:38:06

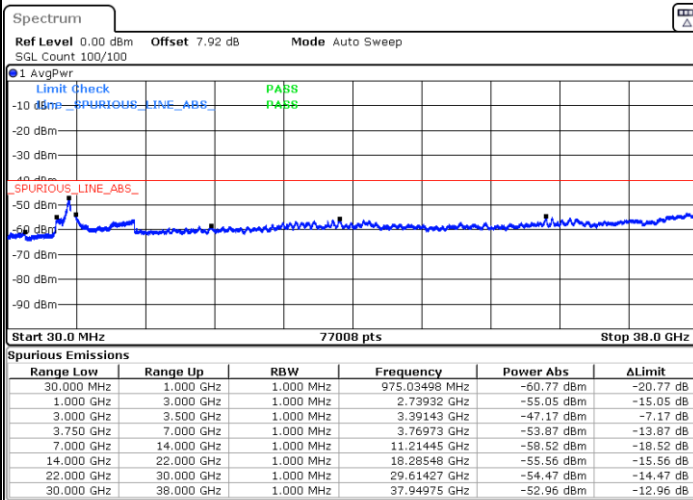


## LTE Band 48 / 20MHz

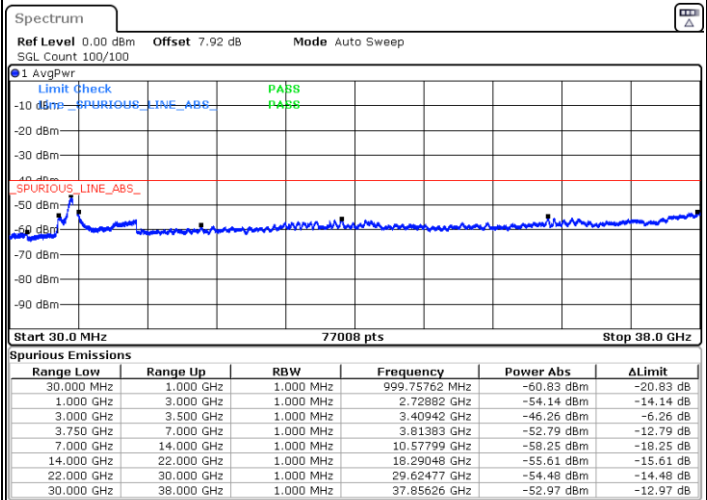
## QPSK

## Lowest Channel / Full RB

## Middle Channel / Full RB



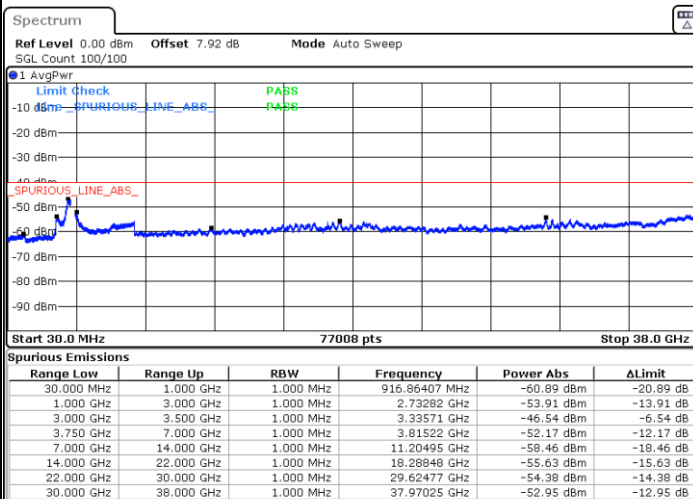
Date: 16 SEP 2020 05:41:56



Date: 16 SEP 2020 05:45:38

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:49:10

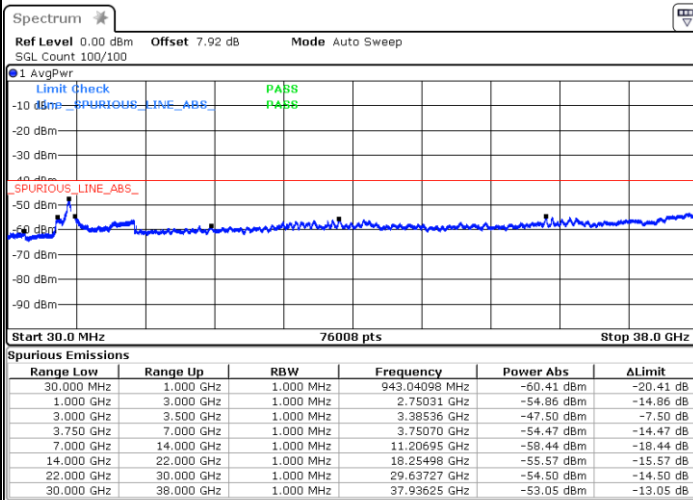


## LTE Band 48 / 5MHz

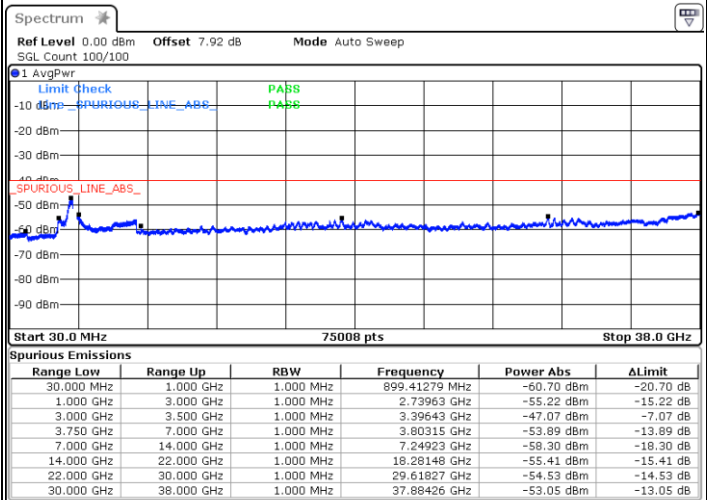
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



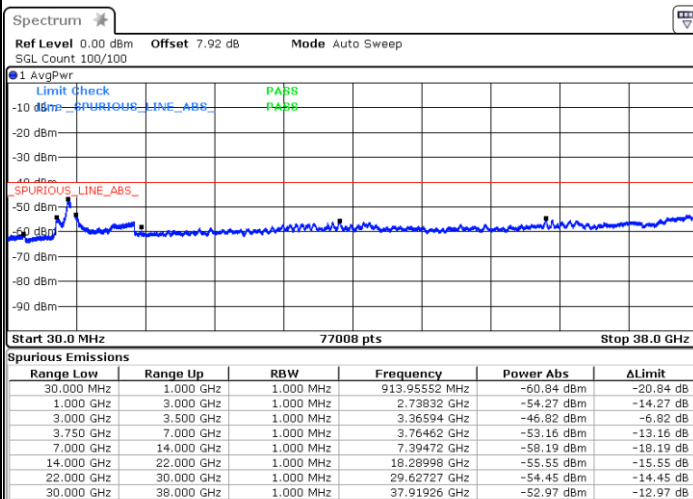
Date: 16 SEP 2020 04:47:04



Date: 16 SEP 2020 04:52:28

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 04:56:47

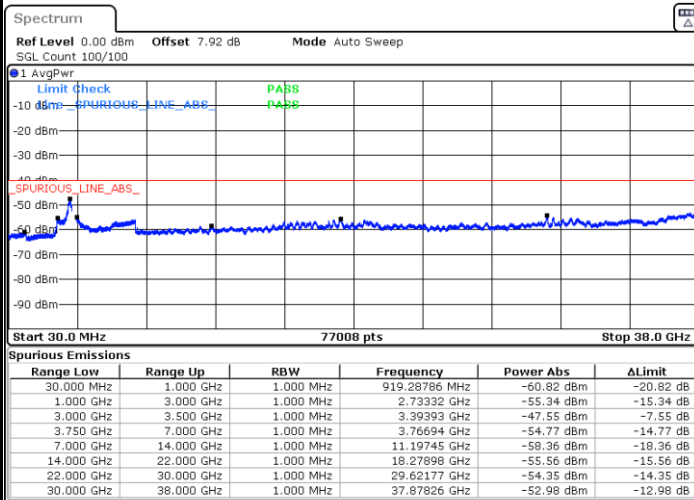




## LTE Band 48 / 10MHz

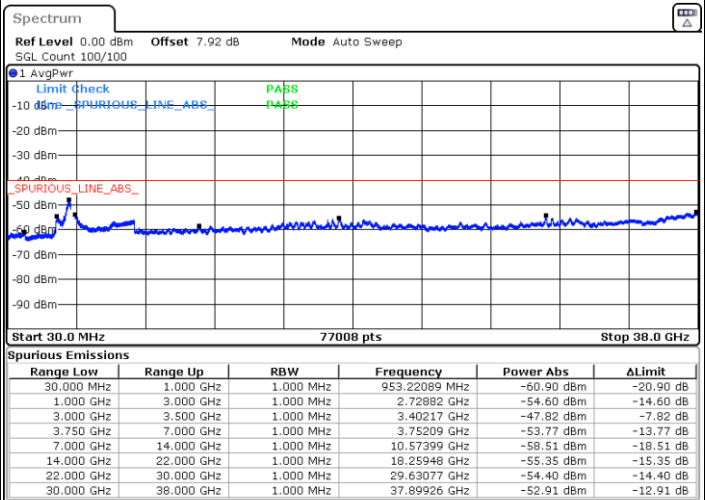
## 16QAM

## Lowest Channel / Full RB



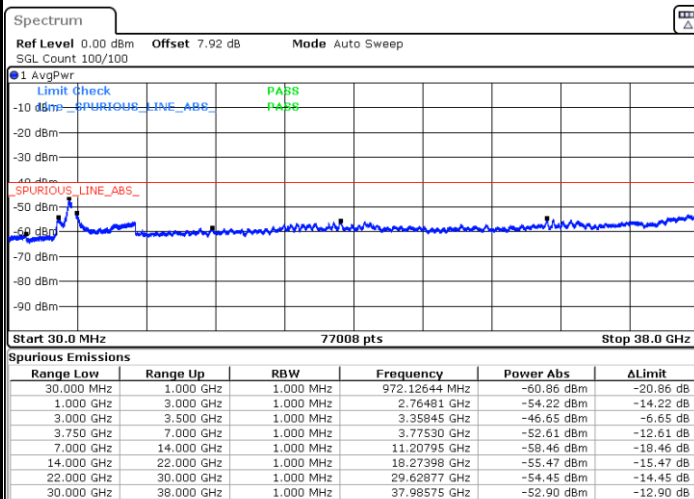
Date: 16 SEP 2020 05:04:22

## Middle Channel / Full RB



Date: 16 SEP 2020 05:11:18

## Highest Channel / Full RB



Date: 16 SEP 2020 05:14:50

N/A

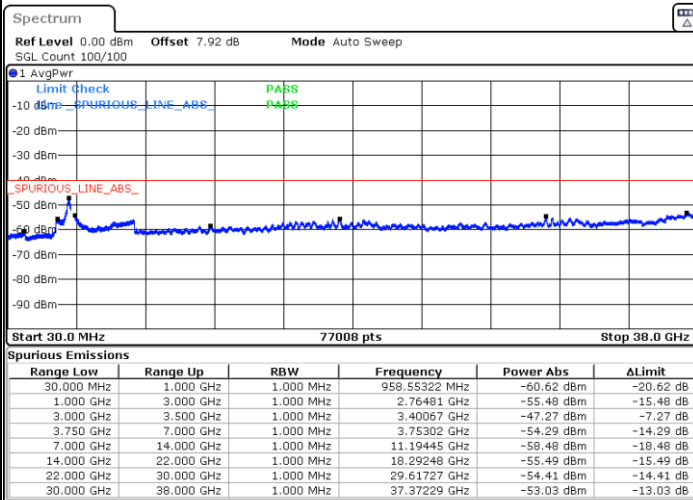


## LTE Band 48 / 15MHz

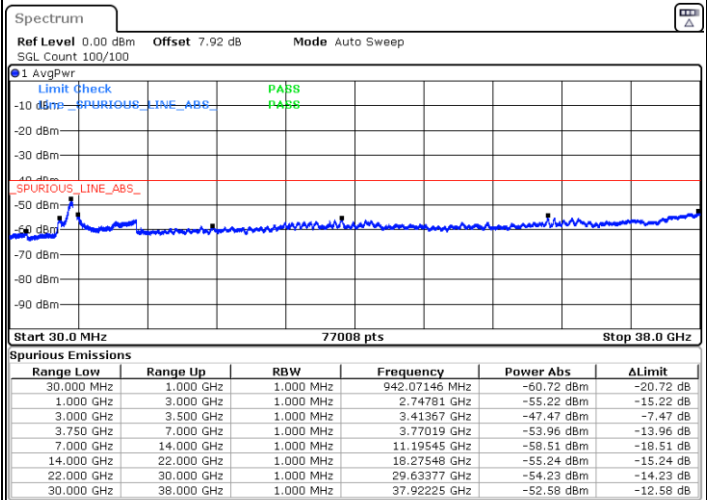
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



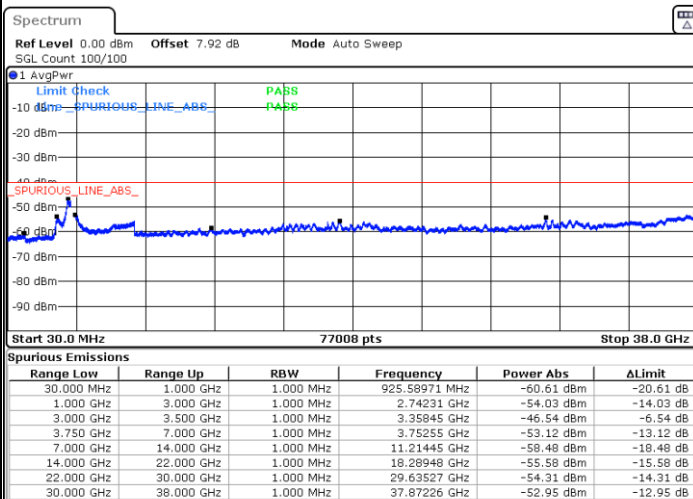
Date: 16 SEP 2020 05:20:23



Date: 16 SEP 2020 05:25:20

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:39:11

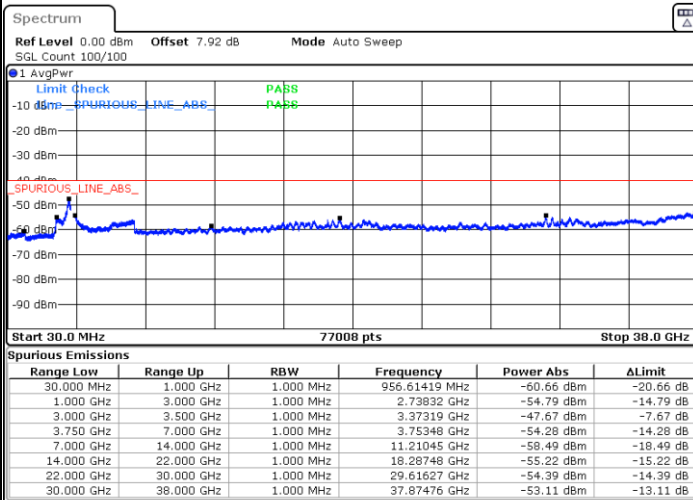


## LTE Band 48 / 20MHz

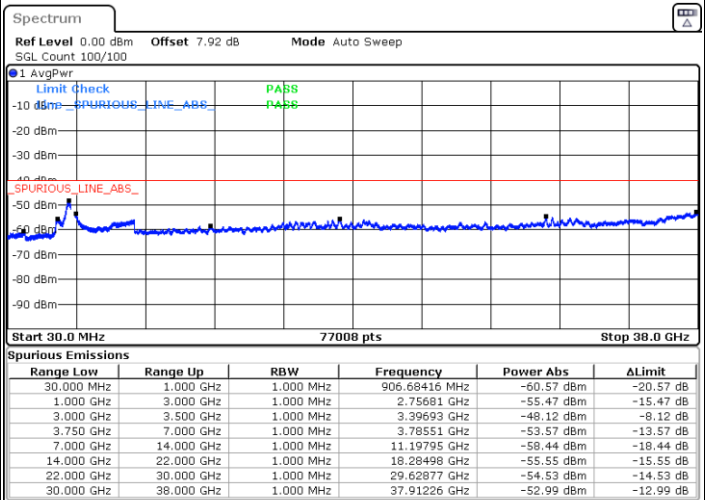
## 16QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



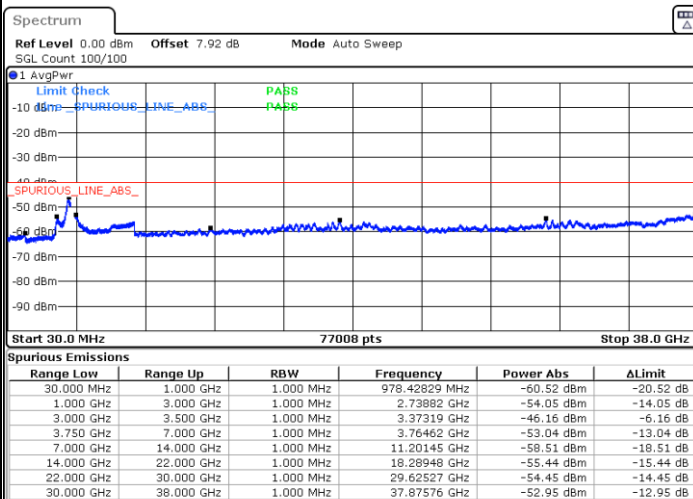
Date: 16 SEP 2020 05:43:18



Date: 16 SEP 2020 05:46:42

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:50:25

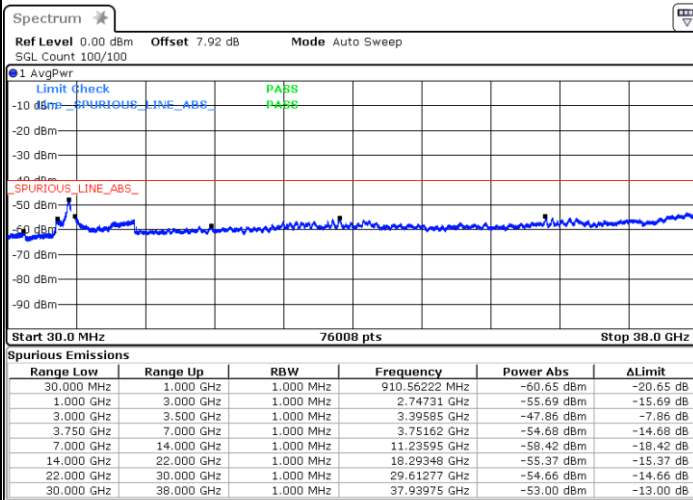


## LTE Band 48 / 5MHz

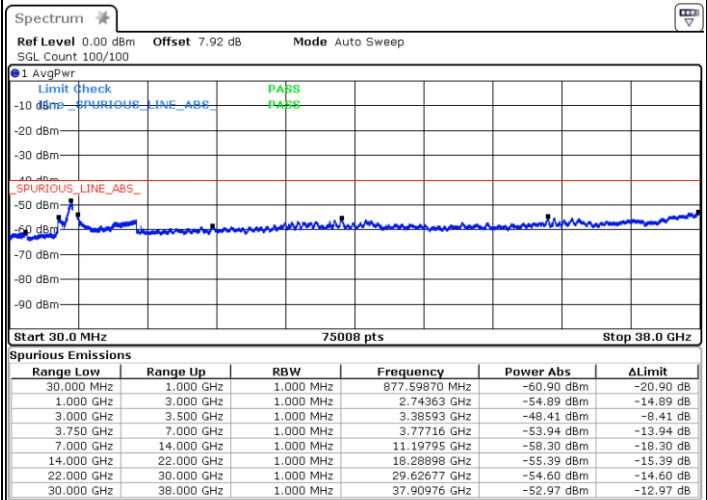
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



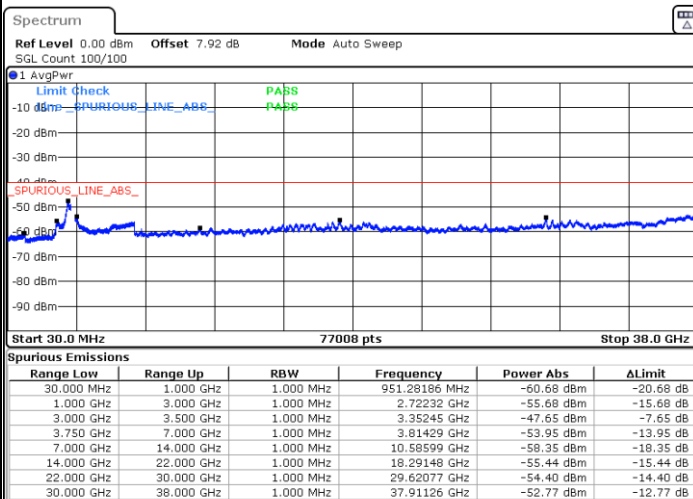
Date: 16 SEP 2020 04:48:19



Date: 16 SEP 2020 04:53:57

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:01:28

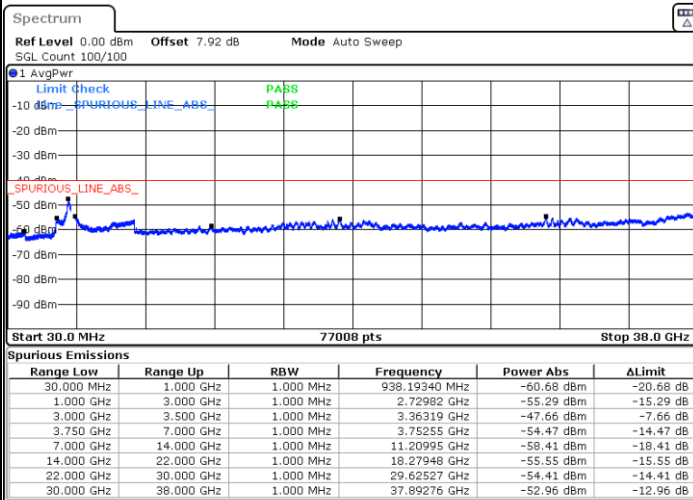


## LTE Band 48 / 10MHz

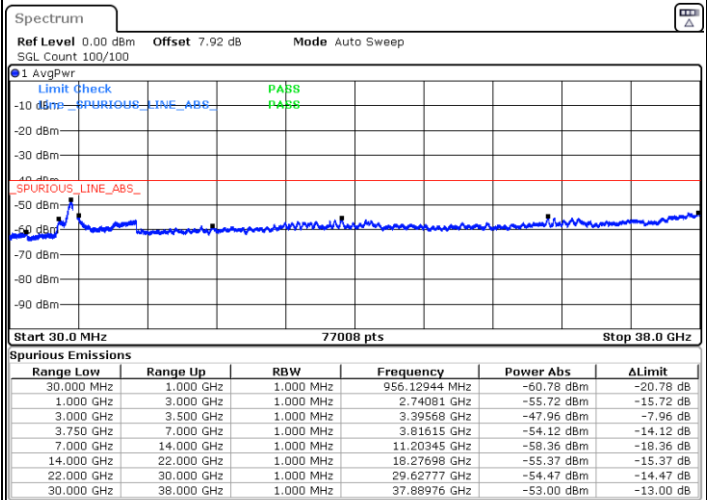
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



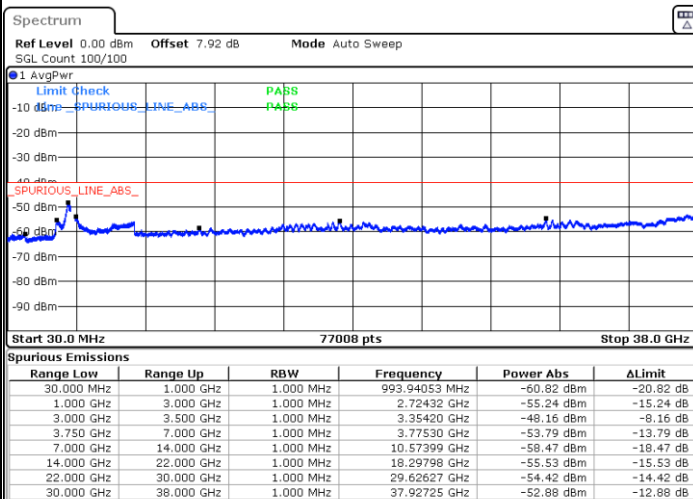
Date: 16 SEP 2020 05:08:43



Date: 16 SEP 2020 05:12:34

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:15:54

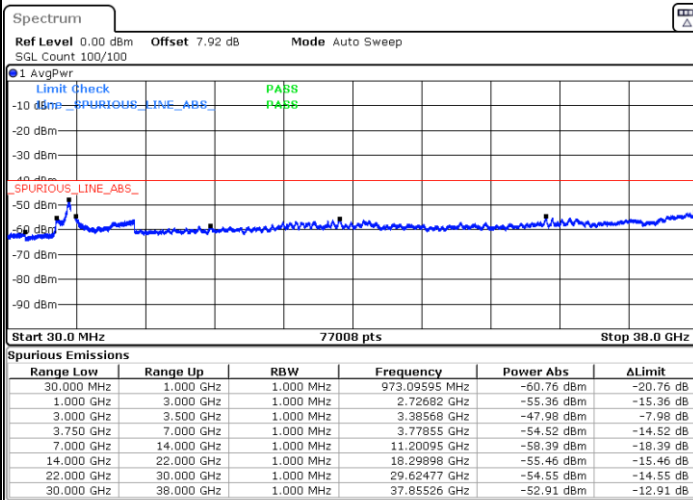


## LTE Band 48 / 15MHz

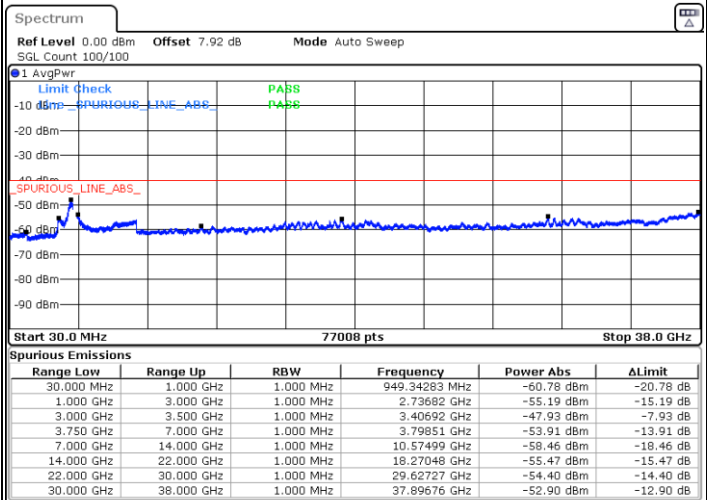
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



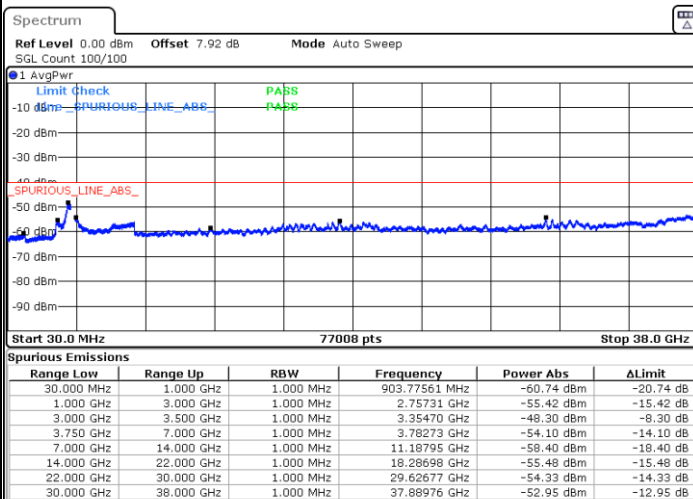
Date: 16 SEP 2020 05:21:37



Date: 16 SEP 2020 05:36:19

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:40:34



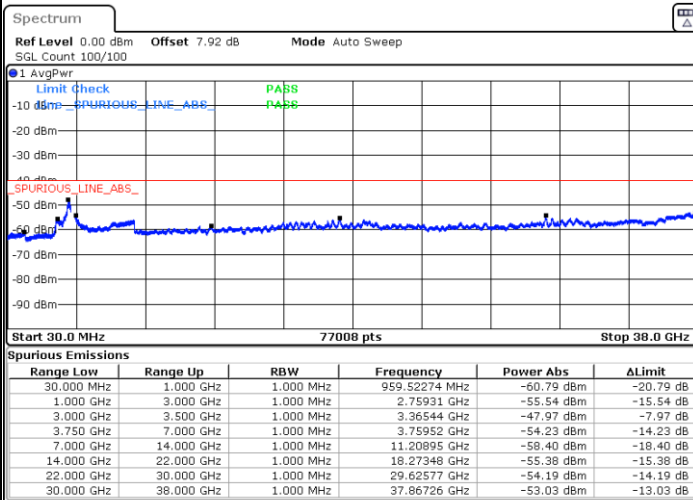


## LTE Band 48 / 20MHz

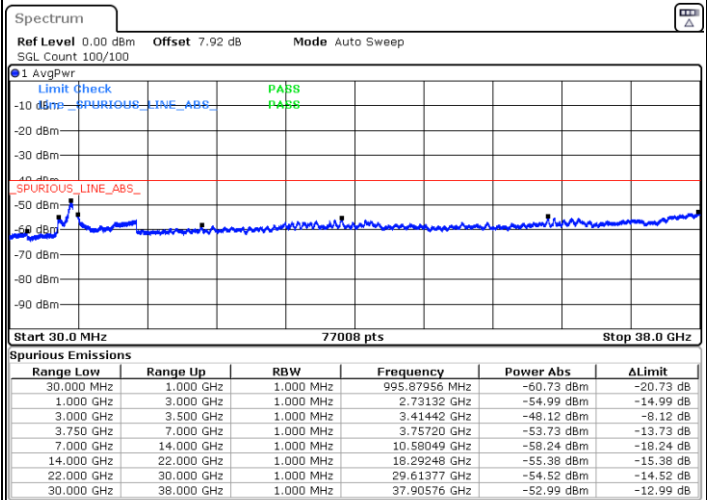
## 64QAM

## Lowest Channel / Full RB

## Middle Channel / Full RB



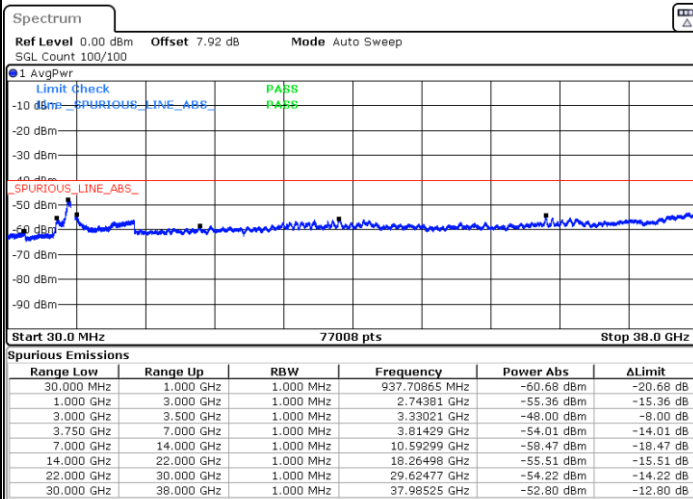
Date: 16 SEP 2020 05:44:25



Date: 16 SEP 2020 05:47:45

## Highest Channel / Full RB

## N/A



Date: 16 SEP 2020 05:51:30

## Frequency Stability

| Test Conditions  |                   | LTE Band 48 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0015                              | PASS    |
| 40               | Normal Voltage    | 0.0017                              |         |
| 30               | Normal Voltage    | 0.0016                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0013                              |         |
| 0                | Normal Voltage    | 0.0017                              |         |
| -10              | Normal Voltage    | 0.0016                              |         |
| -20              | Normal Voltage    | 0.0003                              |         |
| -30              | Normal Voltage    | 0.0001                              |         |
| 20               | Maximum Voltage   | 0.0002                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0007                              |         |

**Note:**

1. Normal Voltage =52 V. ; Battery End Point (BEP) =48 V. ; Maximum Voltage =56V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 48 / 20MHz / 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) |
| Middle                     | 7230                 | -53.07          | -40              | -13.07                  | -64.53                   | 2.84                       | 14.30                       | H                     |
|                            | 10848                | -55.05          | -40              | -15.05                  | -64.99                   | 3.49                       | 13.43                       | H                     |
|                            | 14466                | -48.59          | -40              | -8.59                   | -58.83                   | 3.85                       | 14.09                       | H                     |
|                            | 7230                 | -51.09          | -40              | -11.09                  | -62.55                   | 2.84                       | 14.30                       | V                     |
|                            | 10848                | -55.44          | -40              | -15.44                  | -65.38                   | 3.49                       | 13.43                       | V                     |
|                            | 14466                | -52.59          | -40              | -12.59                  | -62.83                   | 3.85                       | 14.09                       | V                     |

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