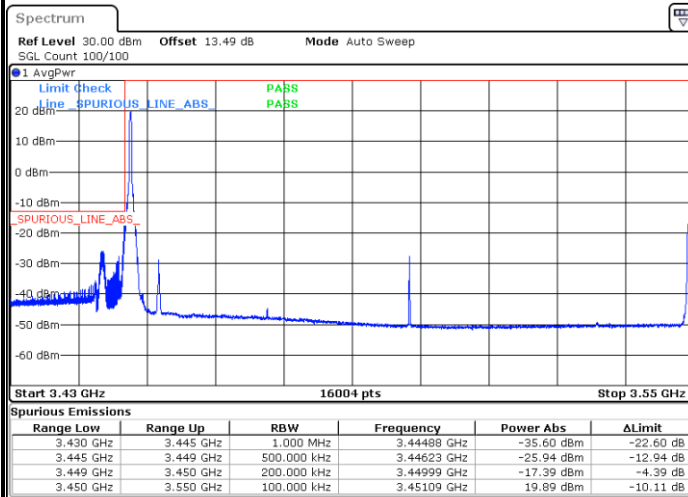
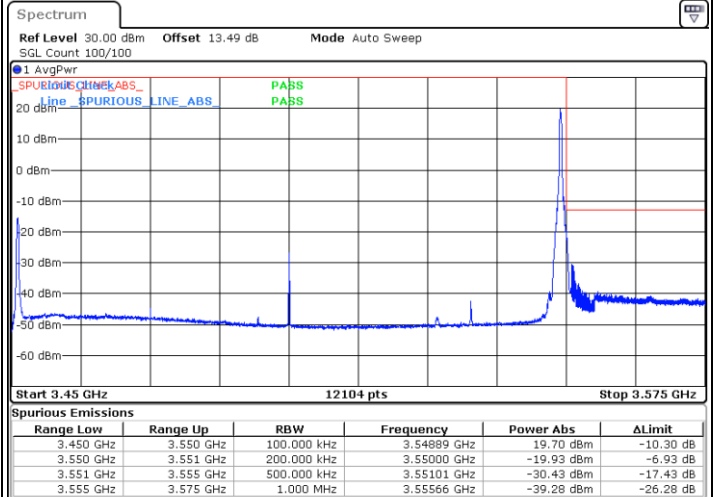
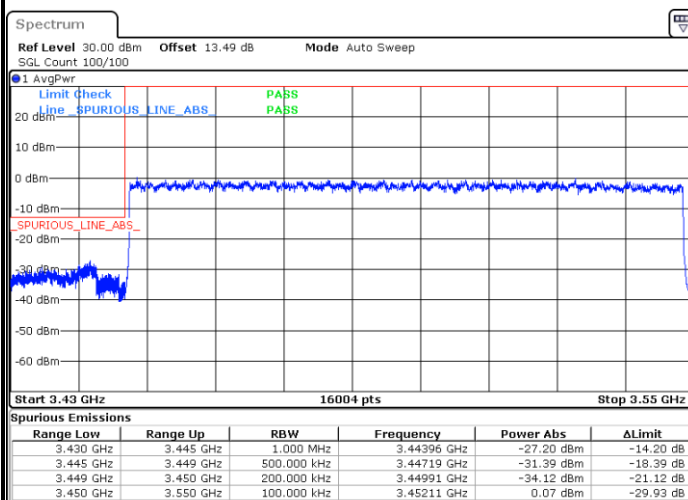
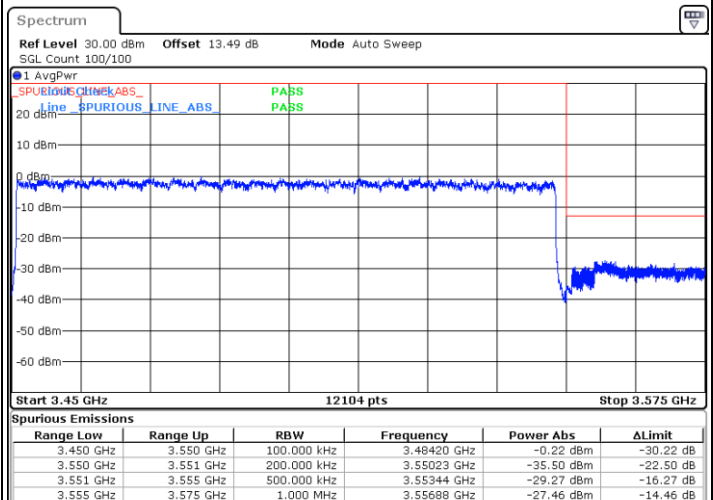
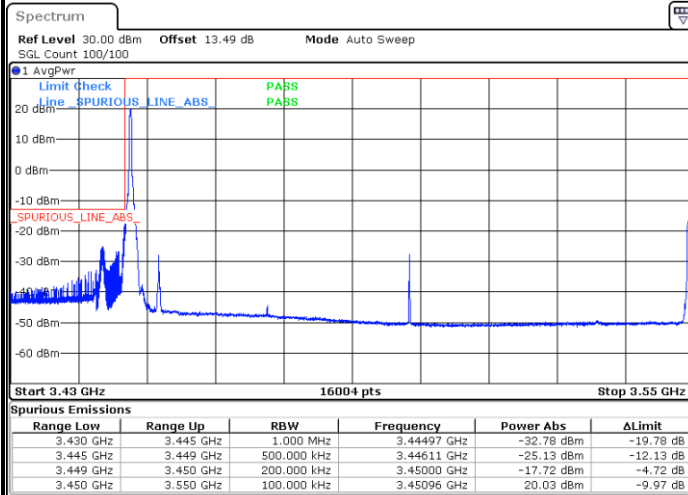


**FR1 n78 / 100MHz / DFT-S OFDM / QPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

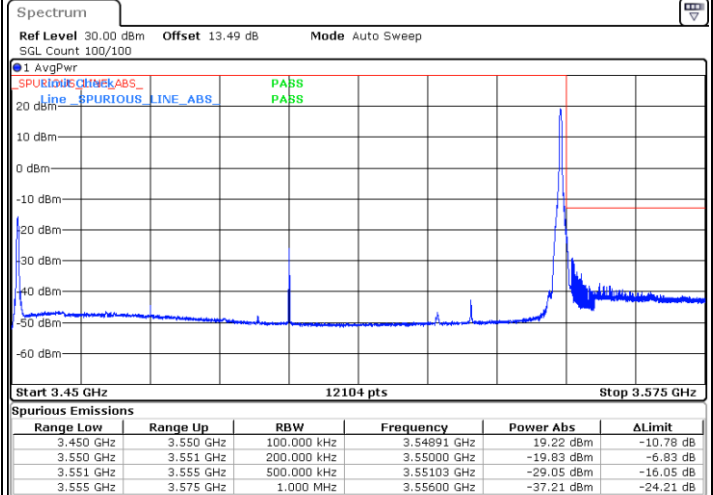


## FR1 n78 / 100MHz / DFT-S OFDM / 16QAM

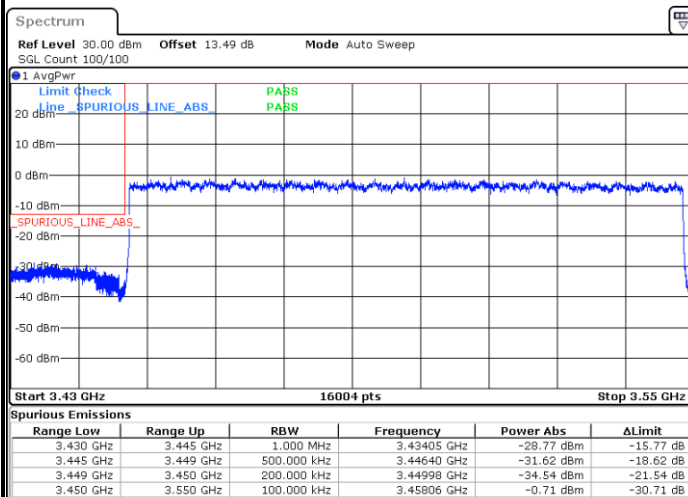
## Lowest Band Edge / 1RB0



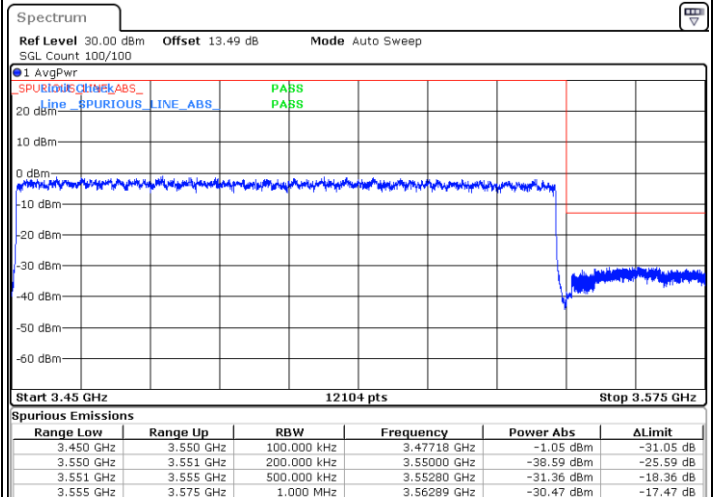
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



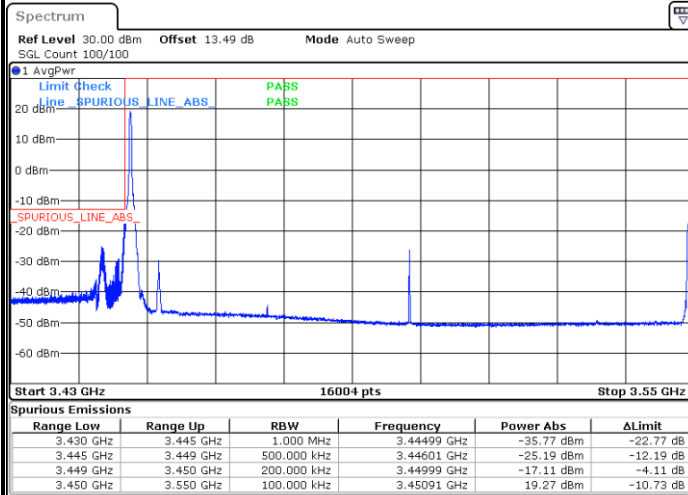
## Highest Band Edge / Full RB



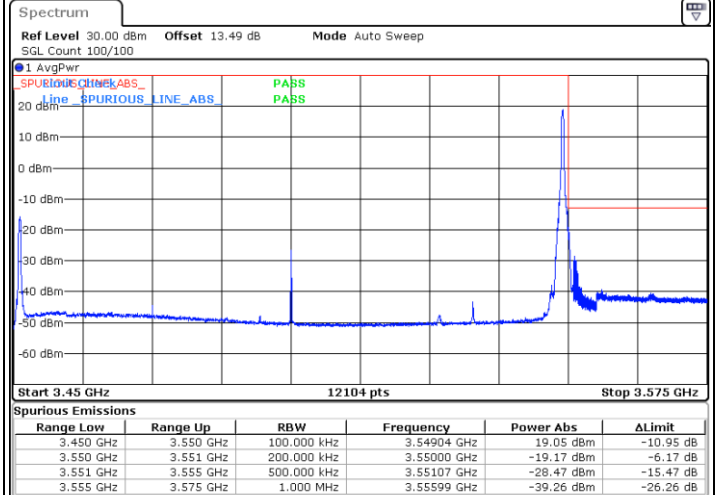


## FR1 n78 / 100MHz / DFT-S OFDM / 64QAM

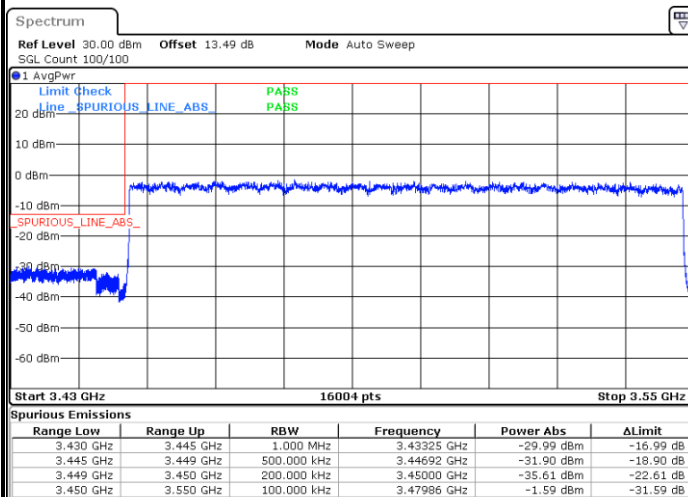
## Lowest Band Edge / 1RB0



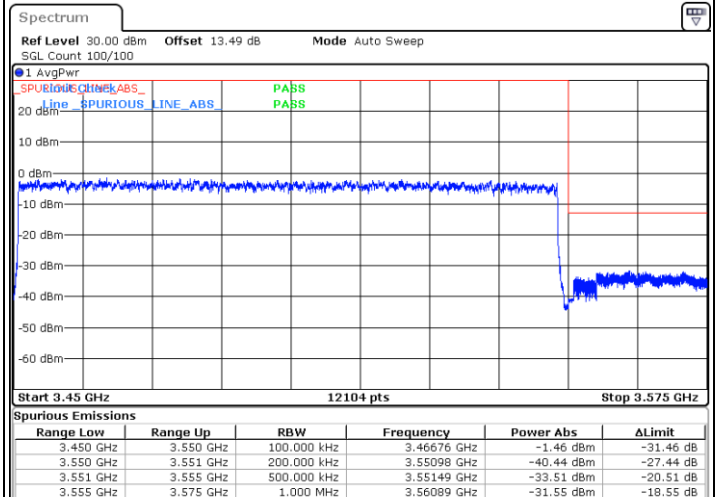
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



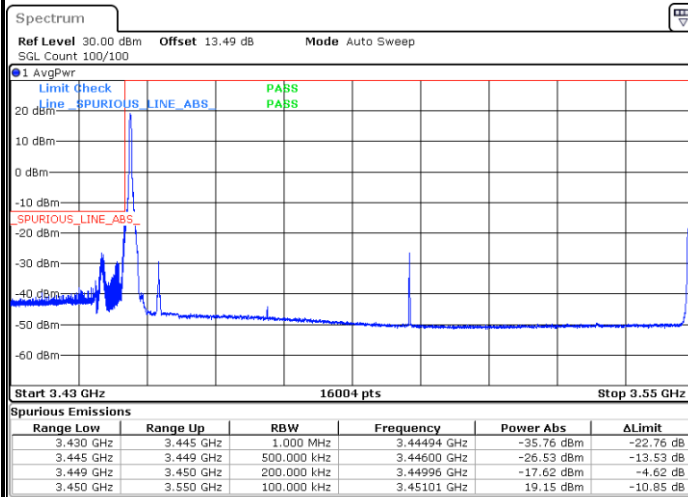
## Highest Band Edge / Full RB



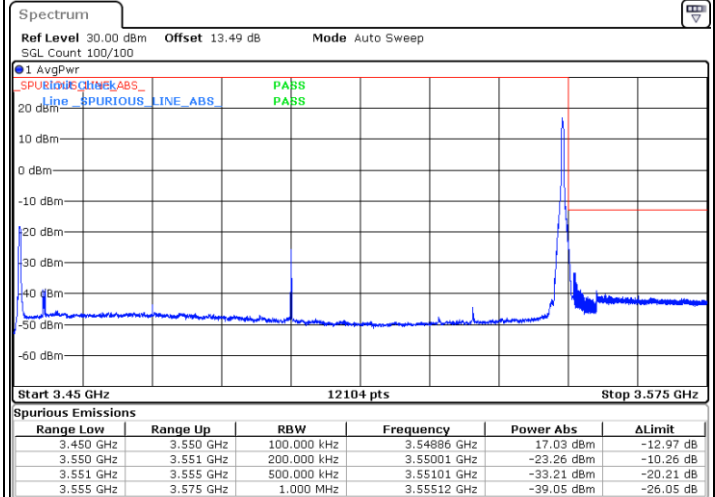


## FR1 n78 / 100MHz / DFT-S OFDM / 256QAM

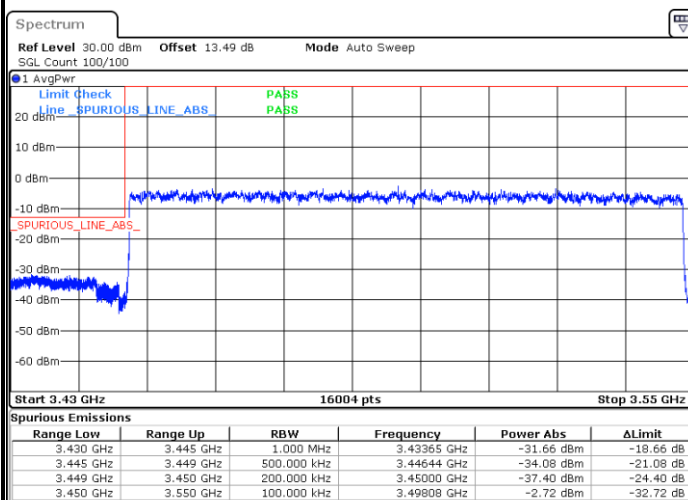
## Lowest Band Edge / 1RB0



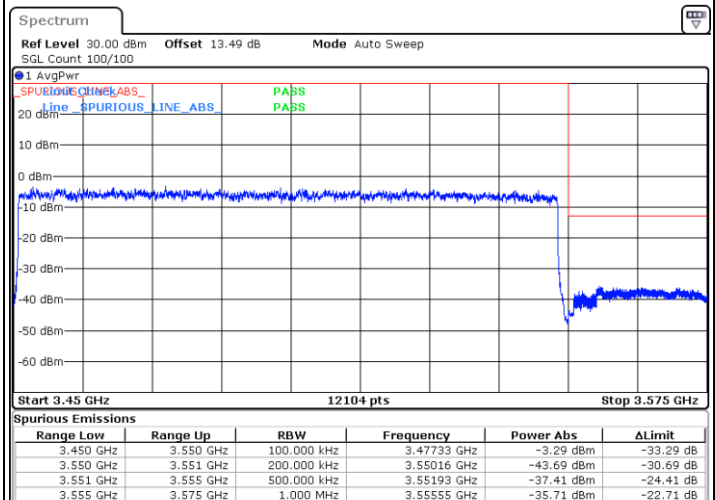
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

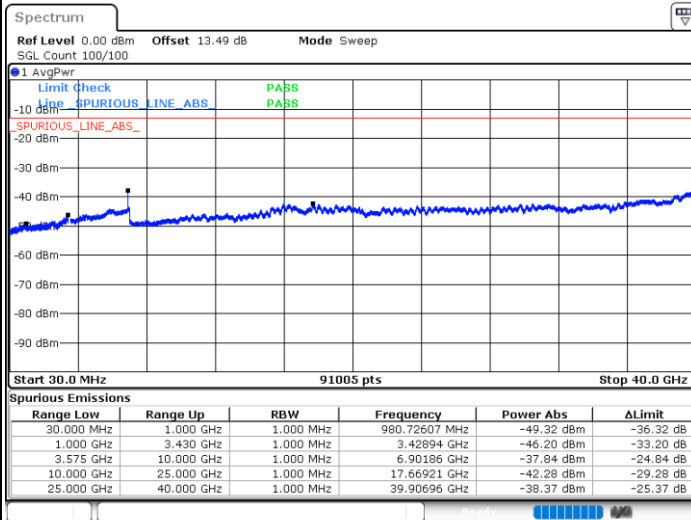




# Conducted Spurious Emission

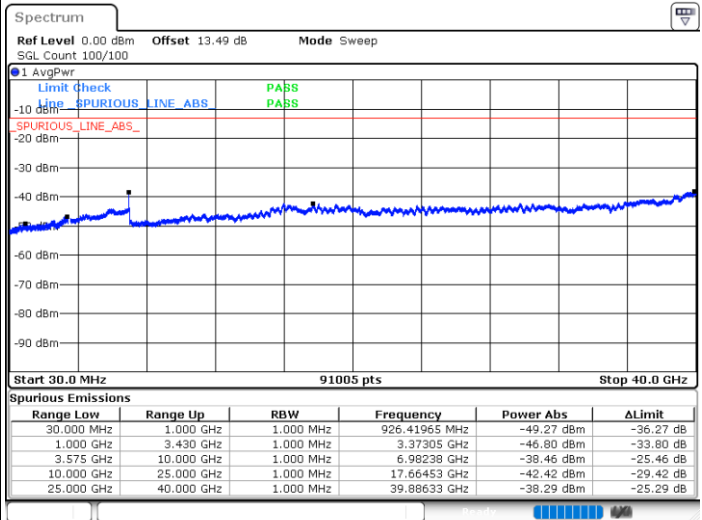
## FR1 n78 / 20MHz / DFT-S OFDM / QPSK

### Lowest Channel / 1RB1



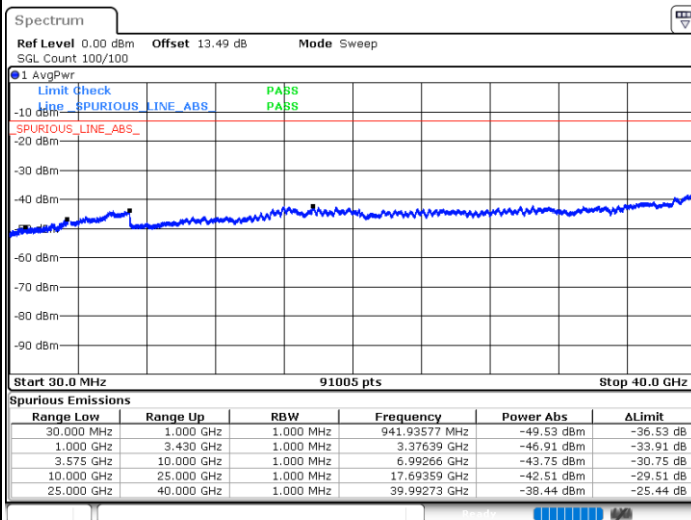
Date: 14.MAR.2022 21:18:54

### Middle Channel / 1RB1

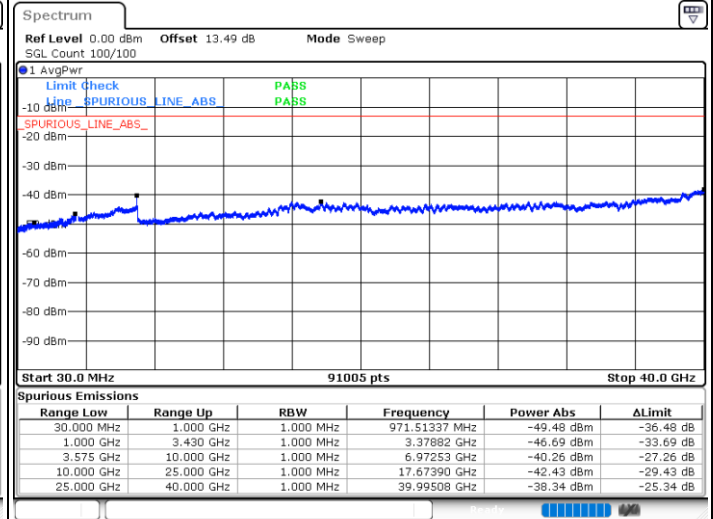
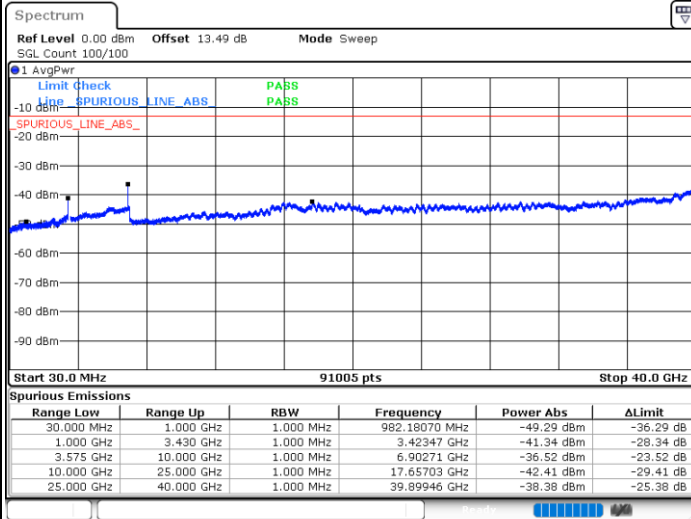
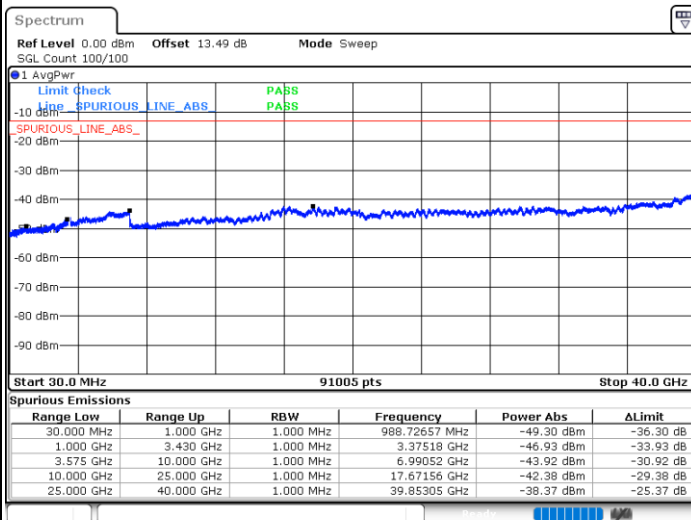


Date: 14.MAR.2022 21:20:30

### Highest Channel / 1RB1



Date: 14.MAR.2022 21:24:18

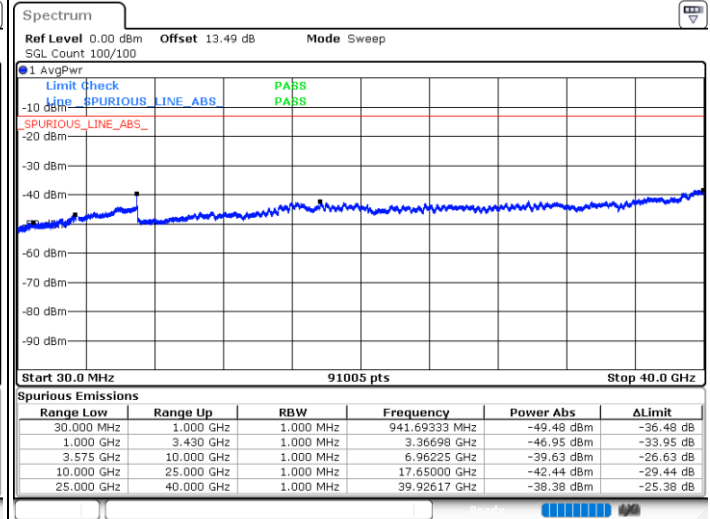
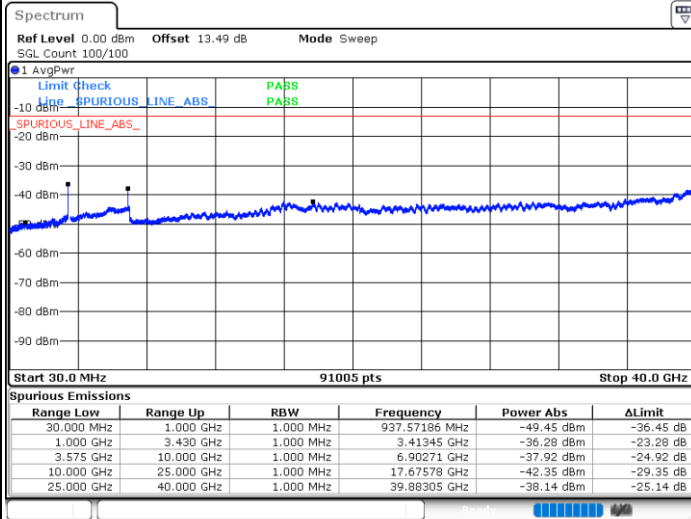
**FR1 n78 / 30MHz / DFT-S OFDM / QPSK****Lowest Channel / 1RB1****Middle Channel / 1RB1****Highest Channel / 1RB1**



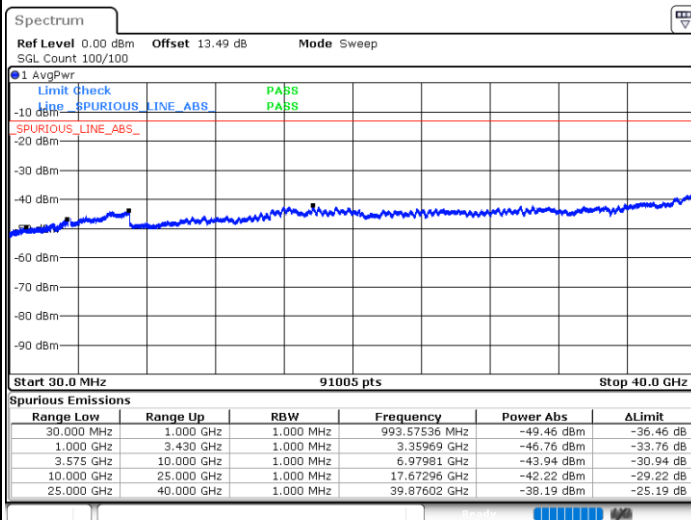
## FR1 n78 / 40MHz / DFT-S OFDM / QPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1



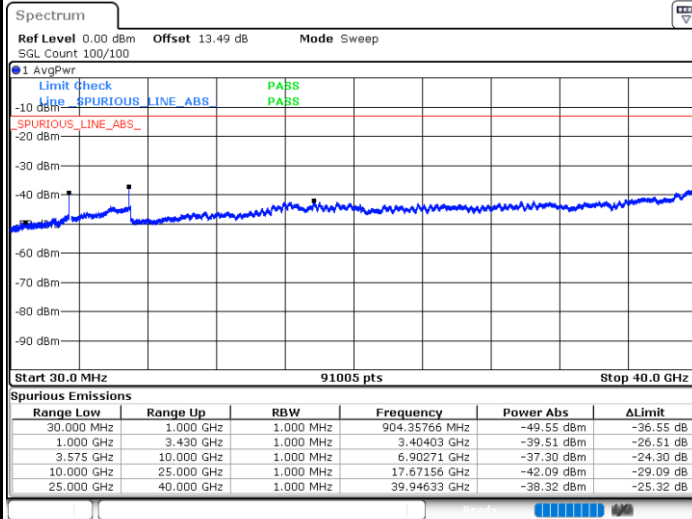
## Highest Channel / 1RB1



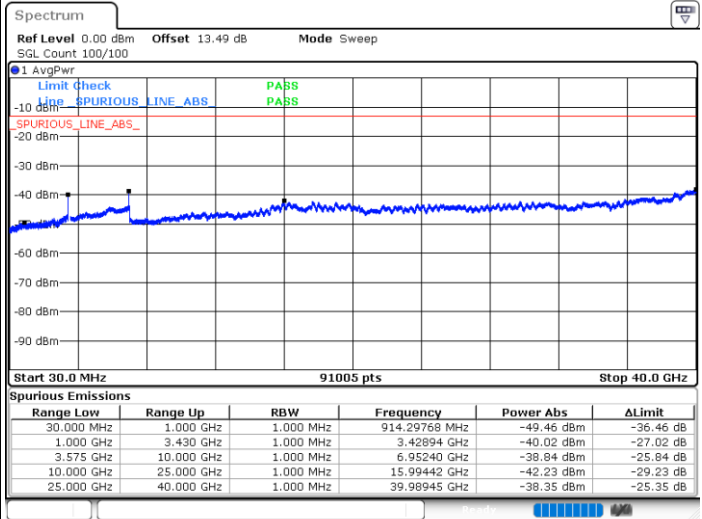


## FR1 n78 / 50MHz / DFT-S OFDM / QPSK

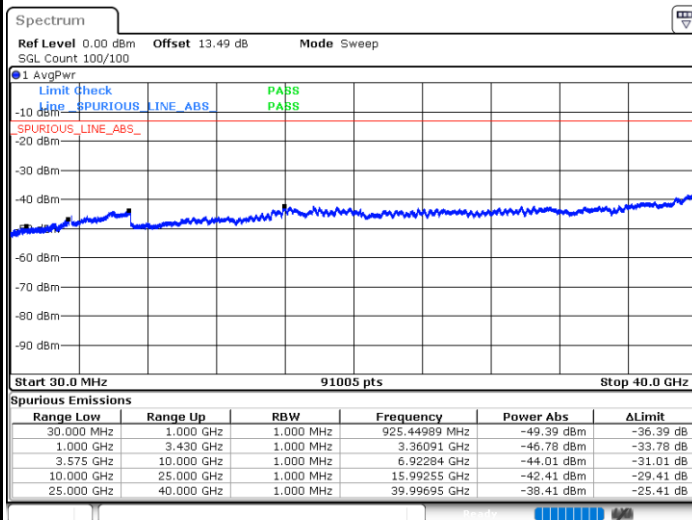
## Lowest Channel / 1RB1



## Middle Channel / 1RB1



## Highest Channel / 1RB1

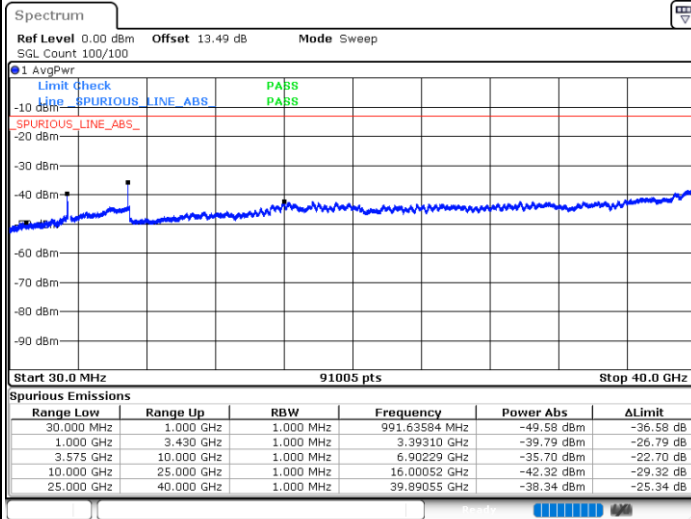




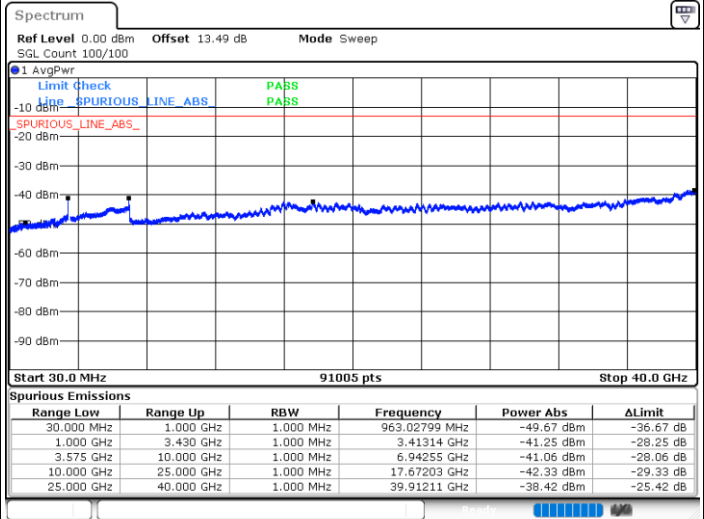
FR1 n78 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

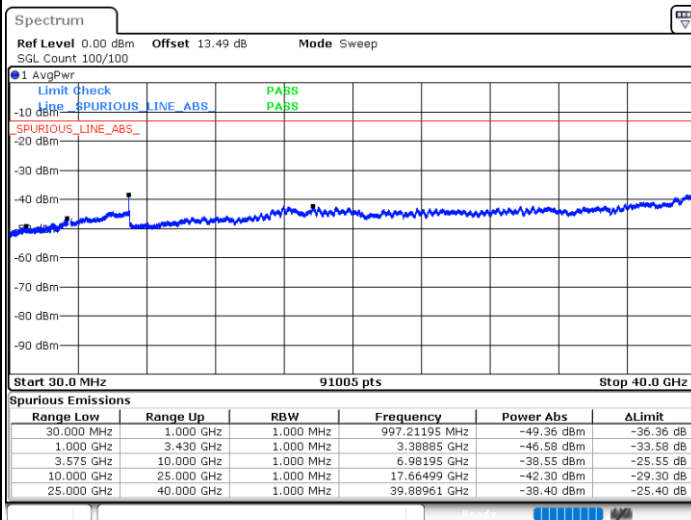


Date: 15.MAR.2022 03:01:14



Date: 15.MAR.2022 03:04:32

Highest Channel / 1RB1



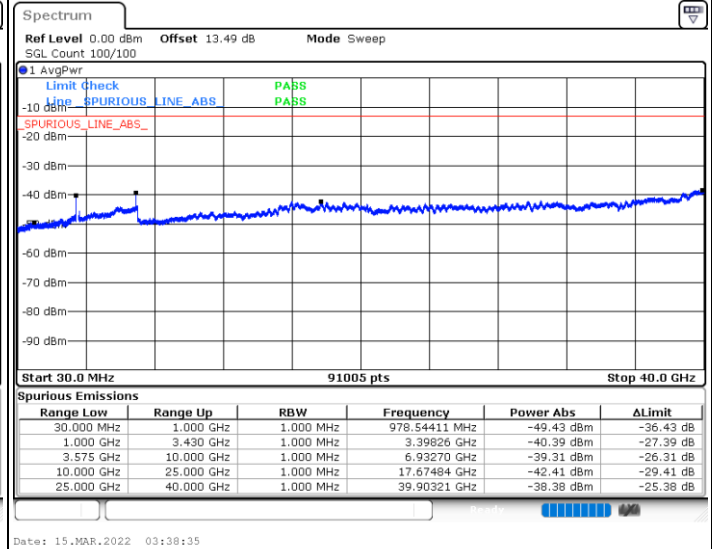
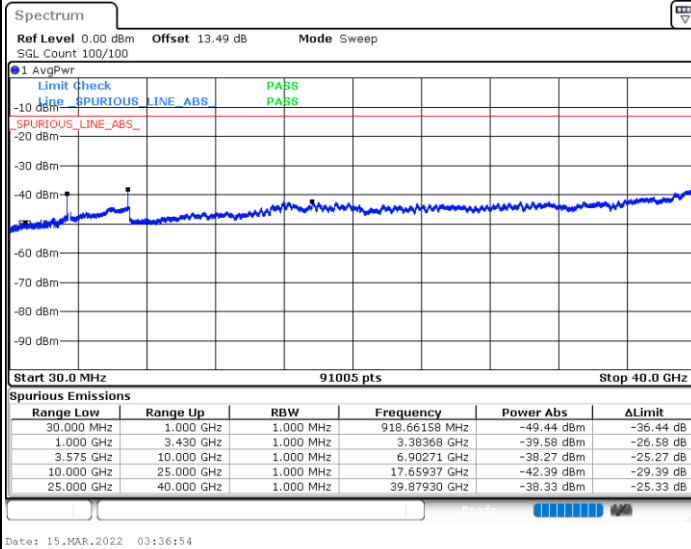
Date: 15.MAR.2022 03:07:30



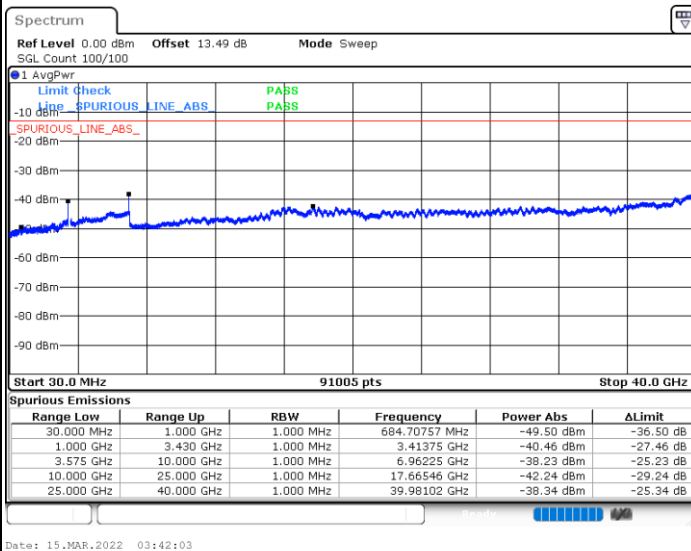
FR1 n78 / 70MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1

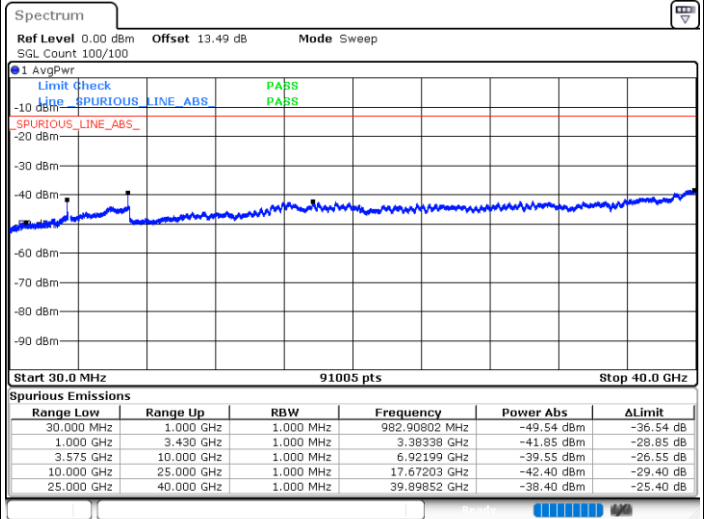
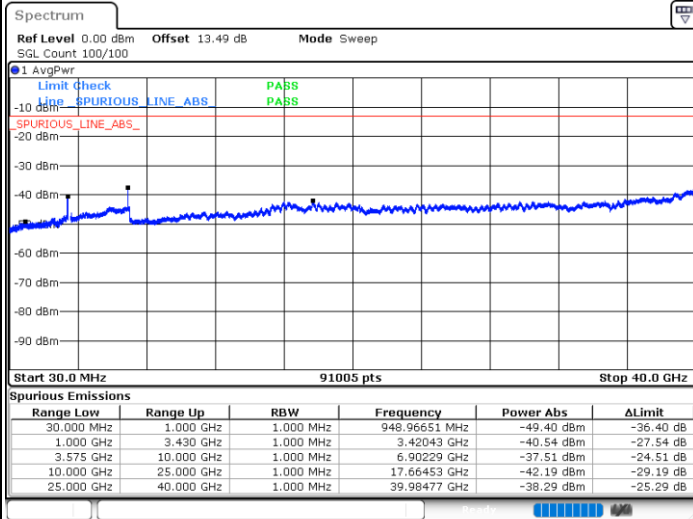




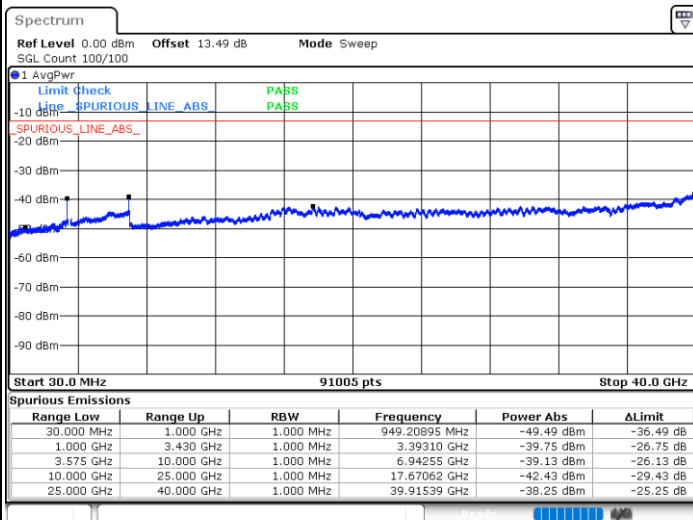
FR1 n78 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1

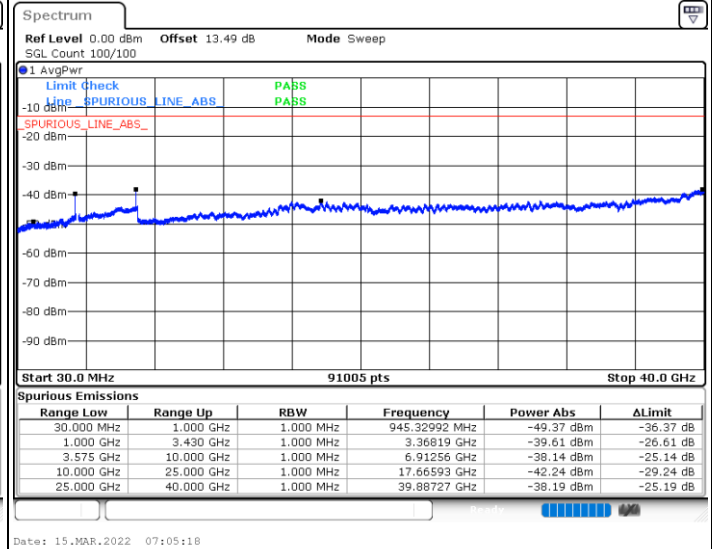
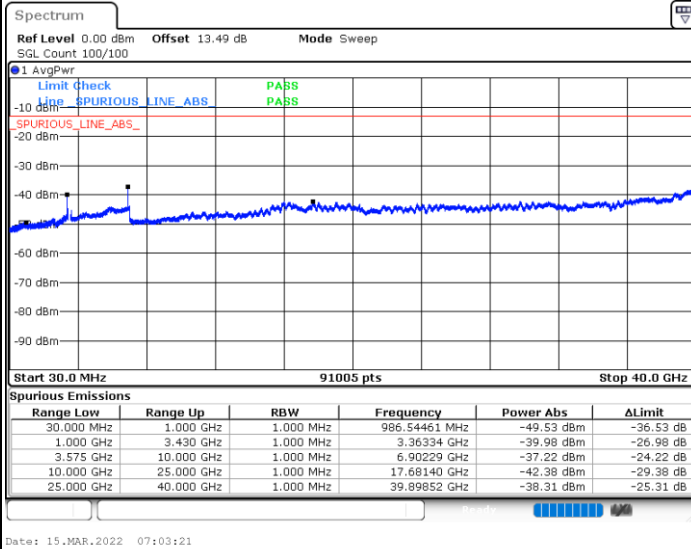




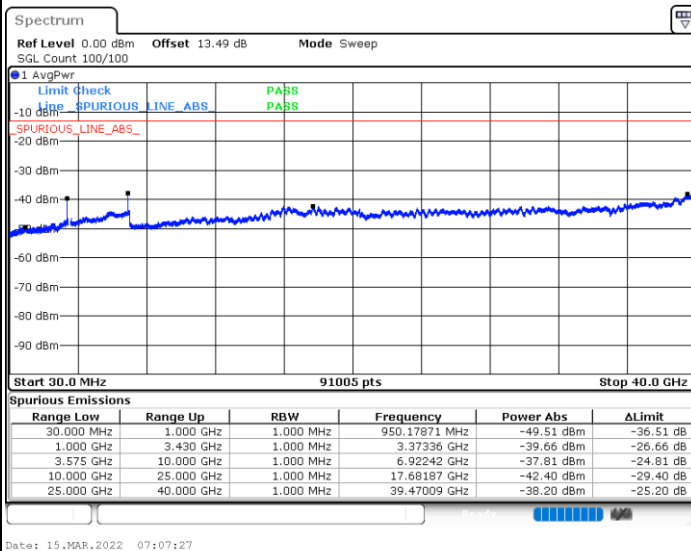
FR1 n78 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

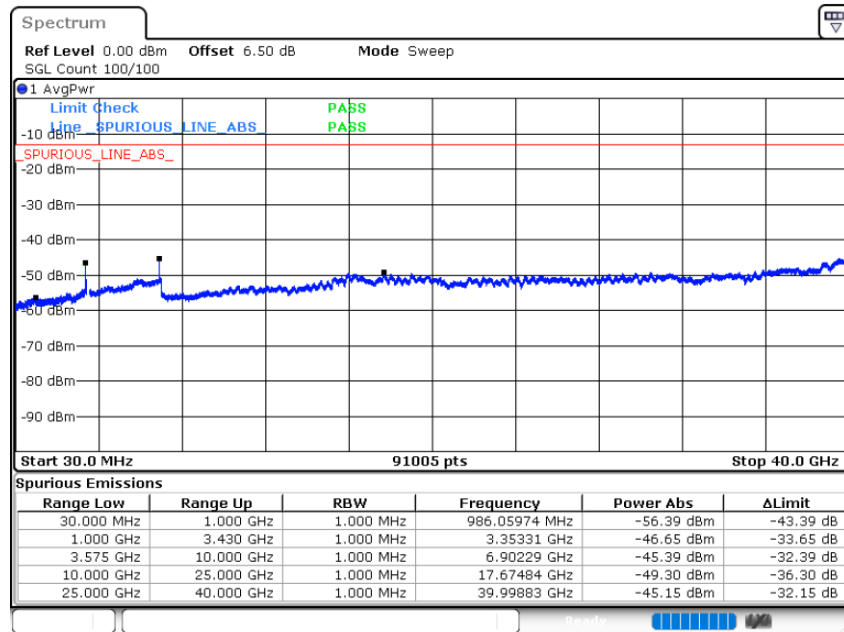


Highest Channel / 1RB1



FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Middle Channel / 1RB1



Date: 15.MAR.2022 08:18:52

## Frequency Stability

| Test Conditions  |                   | FR1 n78 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 20MHz                        | Note 2. |
|                  |                   | Deviation (ppm)                 | Result  |
| 50               | Normal Voltage    | 0.0031                          | PASS    |
| 40               | Normal Voltage    | 0.0021                          |         |
| 30               | Normal Voltage    | 0.0009                          |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |         |
| 10               | Normal Voltage    | 0.0006                          |         |
| 0                | Normal Voltage    | 0.0011                          |         |
| -10              | Normal Voltage    | 0.0019                          |         |
| -20              | Normal Voltage    | 0.0005                          |         |
| -30              | Normal Voltage    | 0.0028                          |         |
| 20               | Maximum Voltage   | 0.0022                          |         |
| 20               | Normal Voltage    | 0.0000                          |         |
| 20               | Battery End Point | 0.0029                          |         |

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. 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 Chen | <b>Temperature :</b>       | 22~23°C |
|                        |            | <b>Relative Humidity :</b> | 41~42%  |

Note: Pre-scanned harmonic for the different antenna combinations for EN-DC mode, we choose the worst combination to test.

| EN-DC_41A_n77A / LTE 20MHz + NR 100MHz / QPSK / ANT4(LTE) & ANT5(NR) |                   |              |               |                   |                    |                      |                       |                    |
|----------------------------------------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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                                                               | 6900              | -59.45       | -13           | -46.45            | -69.93             | 2.76                 | 13.24                 | H                  |
|                                                                      | 10356             | -51.98       | -13           | -38.98            | -61.57             | 3.42                 | 13.01                 | H                  |
|                                                                      | 13824             | -60.60       | -13           | -47.60            | -70.21             | 3.83                 | 13.44                 | H                  |
|                                                                      | 6900              | -57.41       | -13           | -44.41            | -67.85             | 2.80                 | 13.24                 | V                  |
|                                                                      | 10356             | -54.41       | -13           | -41.41            | -63.96             | 3.46                 | 13.01                 | V                  |
|                                                                      | 13824             | -60.90       | -13           | -47.90            | -70.46             | 3.88                 | 13.44                 | V                  |

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

| SA n78 / NR 100MHz / QPSK / ANT5(NR) |                   |              |               |                   |                    |                      |                       |                    |
|--------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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                               | 6900              | -60.12       | -13           | -47.12            | -70.60             | 2.76                 | 13.24                 | H                  |
|                                      | 10356             | -57.20       | -13           | -44.20            | -66.79             | 3.42                 | 13.01                 | H                  |
|                                      | 13824             | -60.83       | -13           | -47.83            | -70.44             | 3.83                 | 13.44                 | H                  |
|                                      | 6900              | -56.78       | -13           | -43.78            | -67.22             | 2.80                 | 13.24                 | V                  |
|                                      | 10356             | -49.47       | -13           | -36.47            | -59.02             | 3.46                 | 13.01                 | V                  |
|                                      | 13824             | -60.50       | -13           | -47.50            | -70.06             | 3.88                 | 13.44                 | V                  |

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

| EN-DC_7A_n78A / LTE 20MHz + NR 100MHz / QPSK / ANT4(LTE) & ANT5(NR) |                   |              |               |                   |                    |                      |                       |                    |
|---------------------------------------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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                                                              | 6900              | -60.14       | -13           | -47.14            | -70.62             | 2.76                 | 13.24                 | H                  |
|                                                                     | 10356             | -58.16       | -13           | -45.16            | -67.75             | 3.42                 | 13.01                 | H                  |
|                                                                     | 13824             | -60.44       | -13           | -47.44            | -70.05             | 3.83                 | 13.44                 | H                  |
|                                                                     | 6900              | -60.73       | -13           | -47.73            | -71.17             | 2.80                 | 13.24                 | V                  |
|                                                                     | 10356             | -61.76       | -13           | -48.76            | -71.31             | 3.46                 | 13.01                 | V                  |
|                                                                     | 13824             | -60.84       | -13           | -47.84            | -70.40             | 3.88                 | 13.44                 | V                  |

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