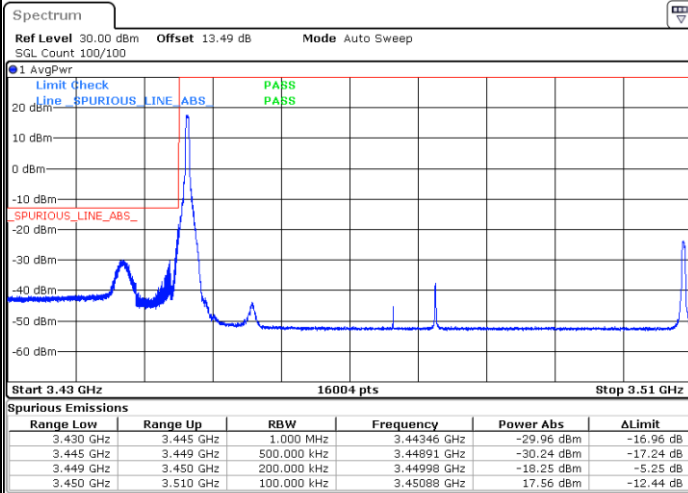




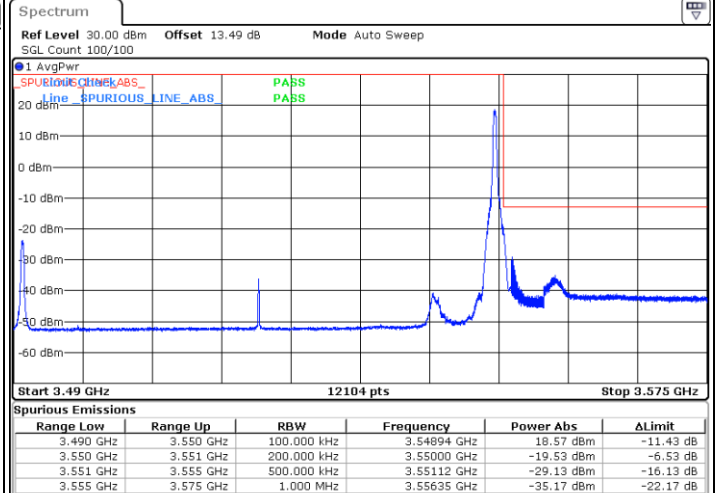
## FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



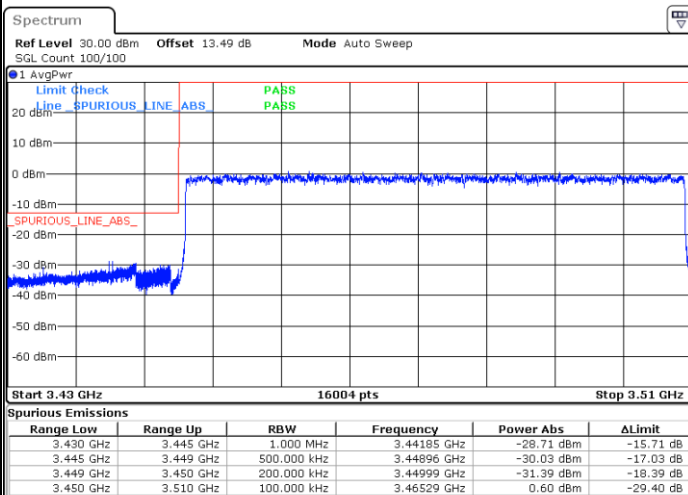
Date: 15.JUN.2022 03:37:04



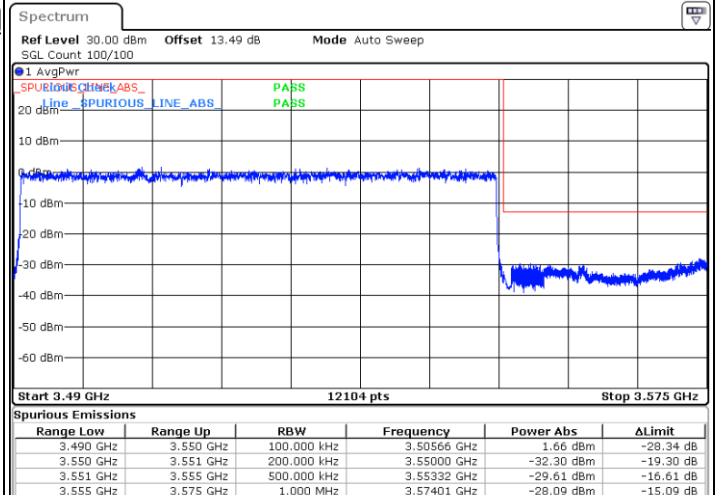
Date: 15.JUN.2022 03:52:04

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



Date: 15.JUN.2022 03:22:24



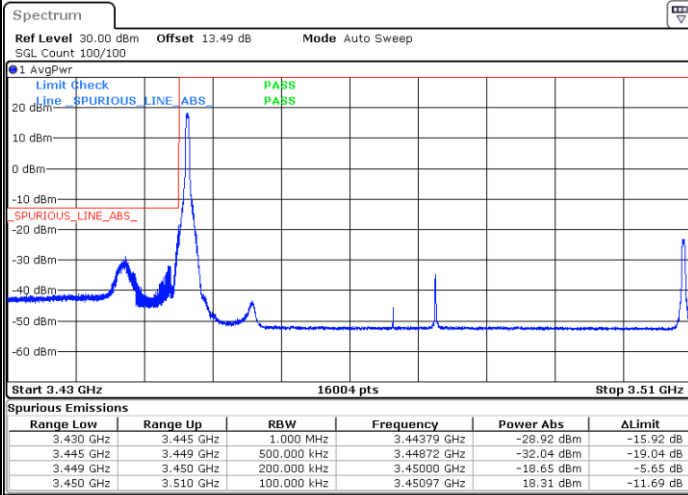
Date: 15.JUN.2022 03:53:32



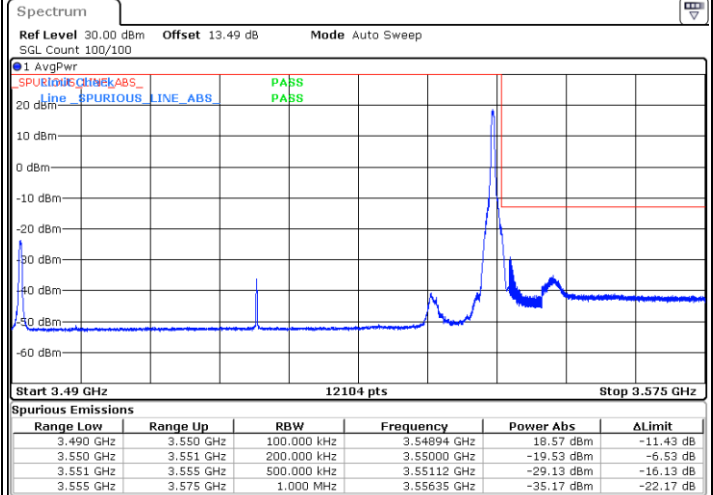
## FR1 n77 / 60MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



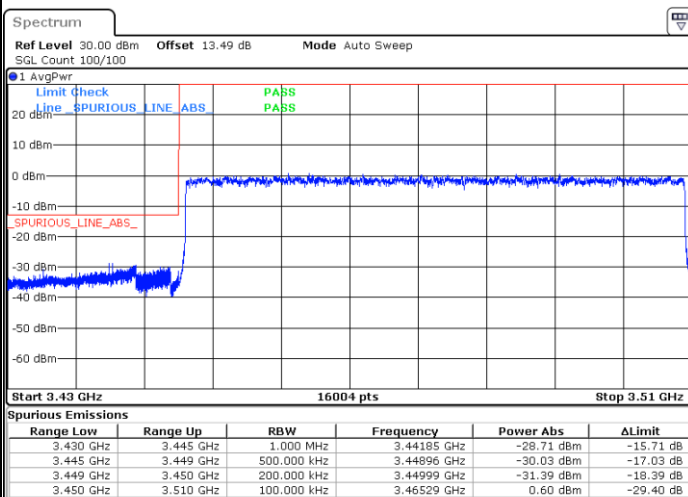
Date: 15 JUN 2022 03:35:39



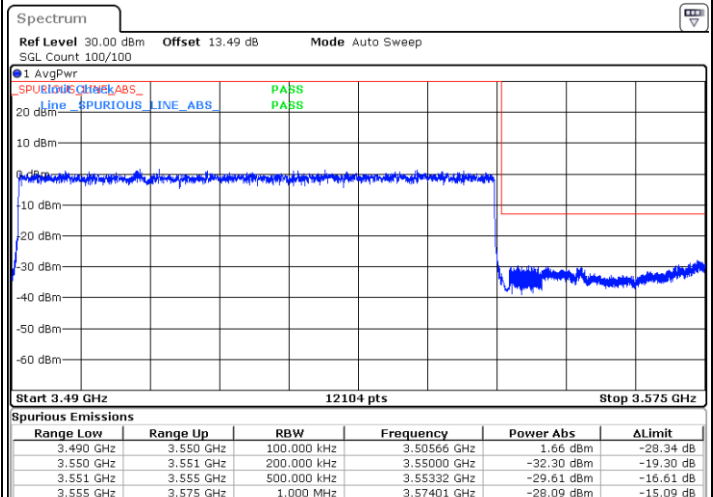
Date: 15 JUN 2022 03:52:04

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



Date: 15 JUN 2022 03:22:24



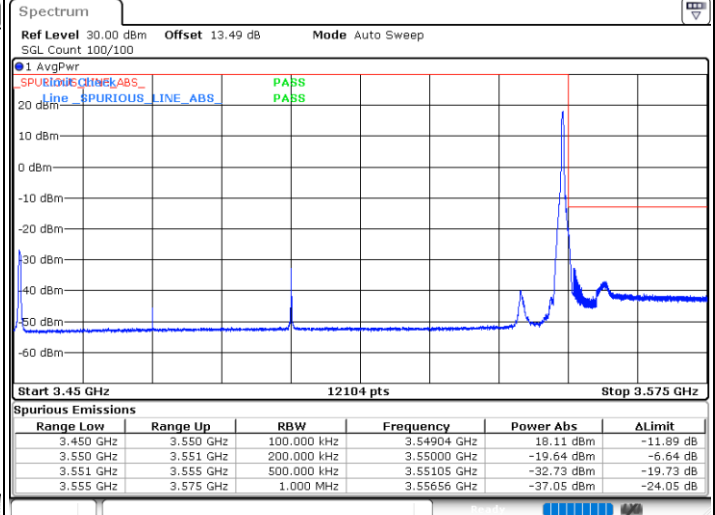
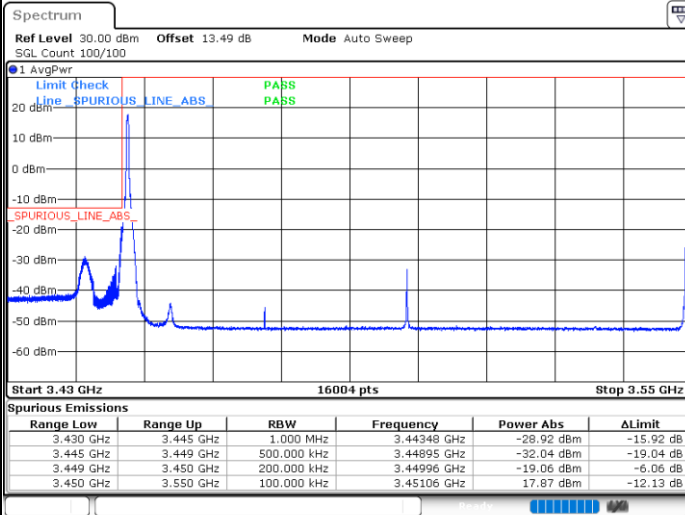
Date: 15 JUN 2022 03:53:32



## FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

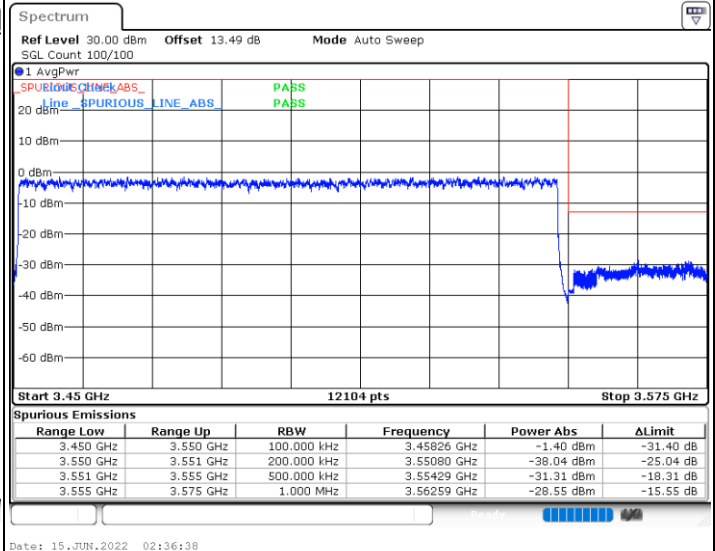
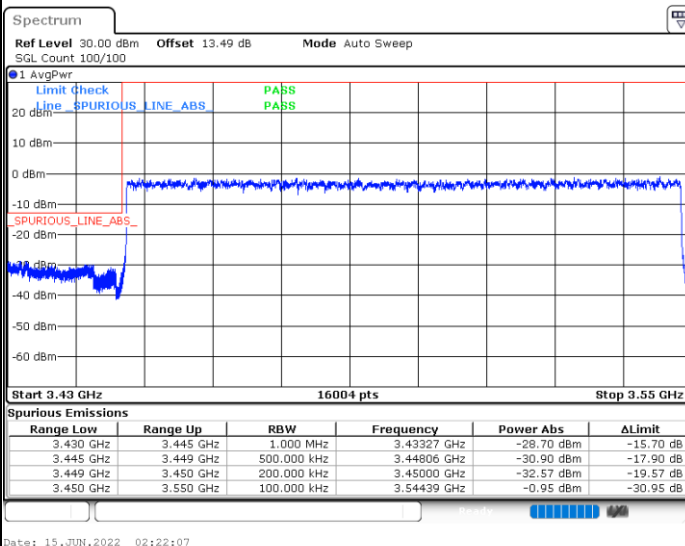
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

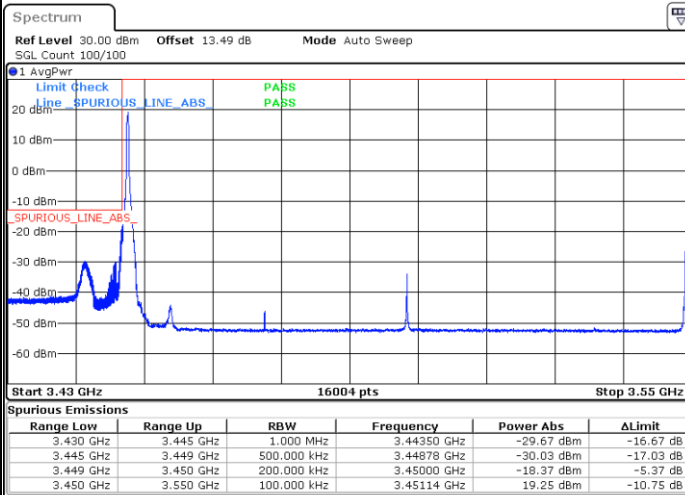




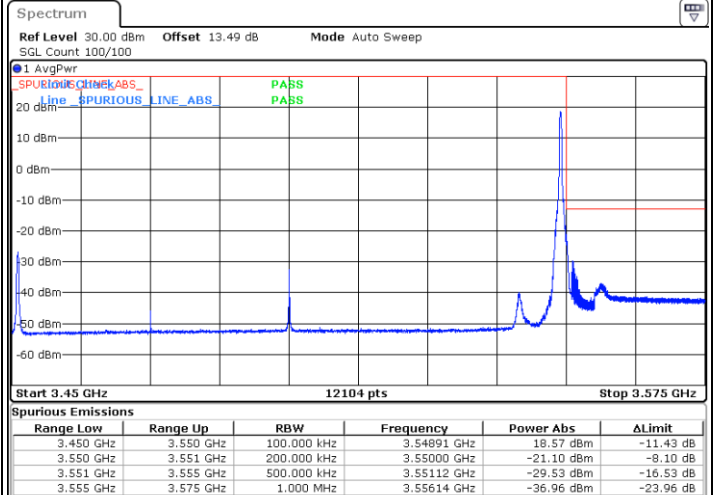
## FR1 n77 / 100MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



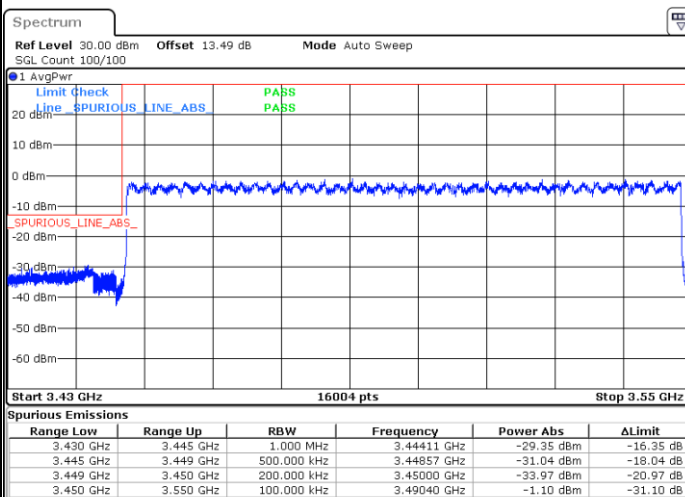
Date: 15.JUN.2022 02:18:20



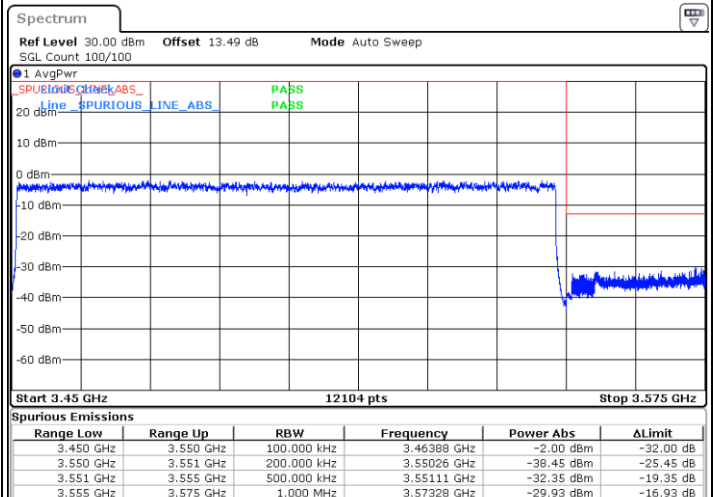
Date: 15.JUN.2022 02:39:20

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB



Date: 15.JUN.2022 02:19:21



Date: 15.JUN.2022 02:35:16

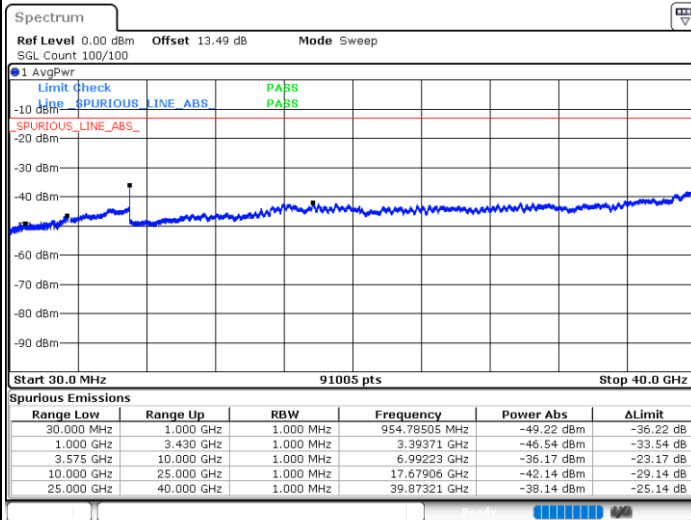


# Conducted Spurious Emission

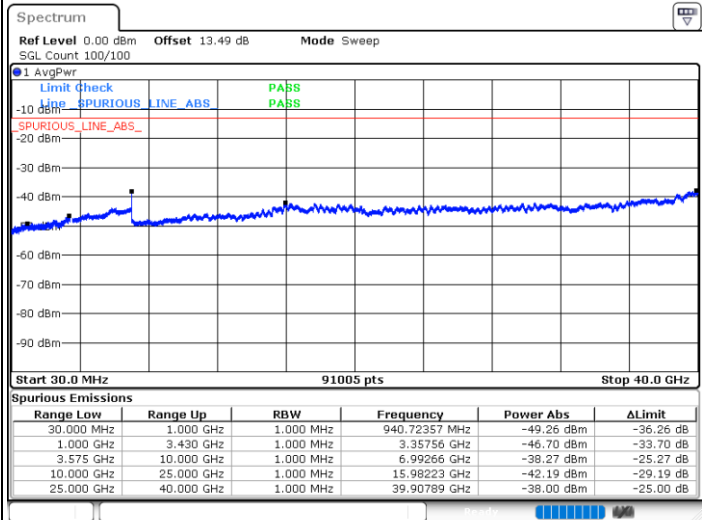
FR1 n77 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



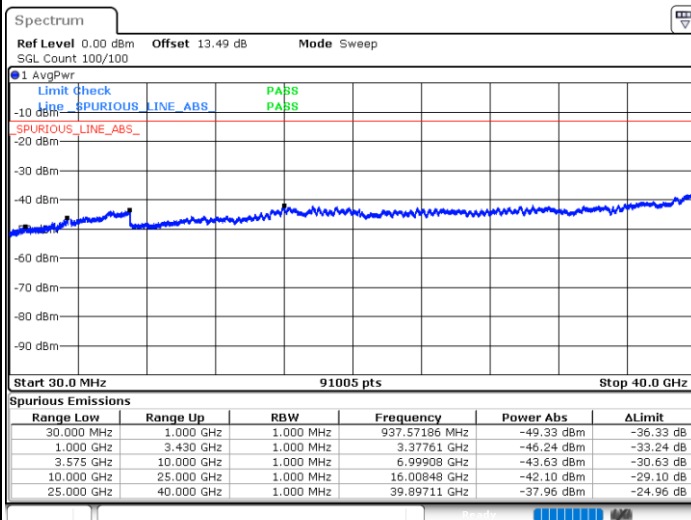
Date: 15 JUN 2022 07:21:50



Date: 15 JUN 2022 05:16:54

Highest Channel / 1RB1

N/A



Date: 15 JUN 2022 07:57:49

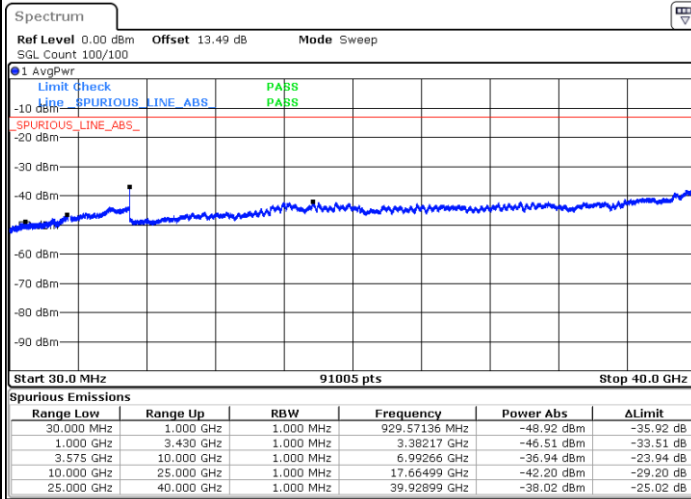
N/A



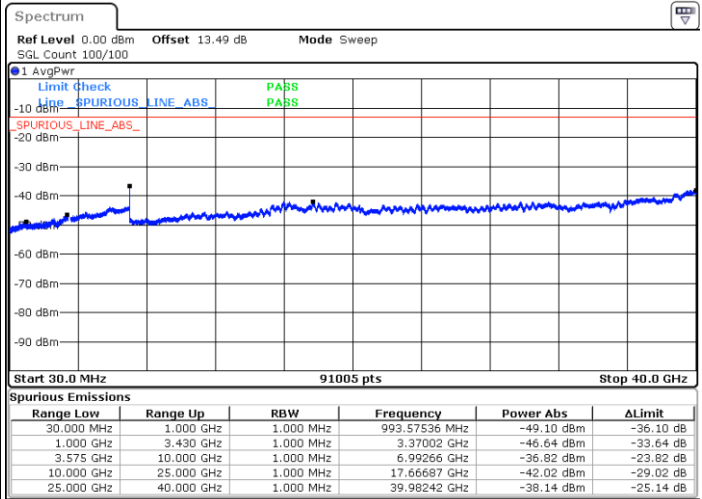
## FR1 n77 / 10MHz / DFT-S OFDM /QPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1



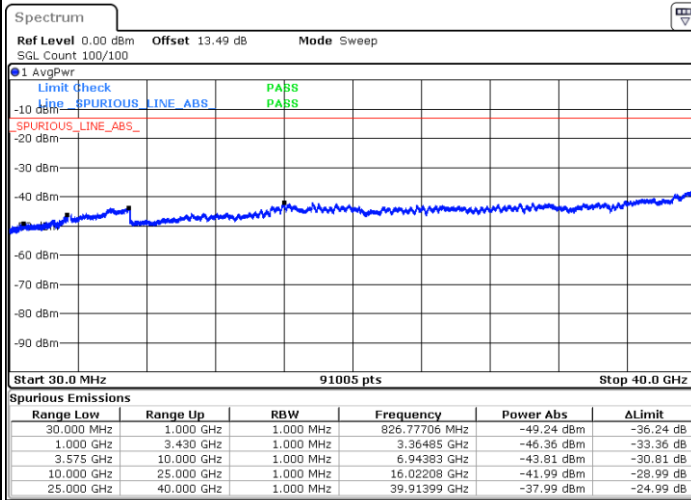
Date: 15.JUN.2022 05:13:05



Date: 15.JUN.2022 05:14:51

## Highest Channel / 1RB1

N/A



Date: 15.JUN.2022 08:00:50

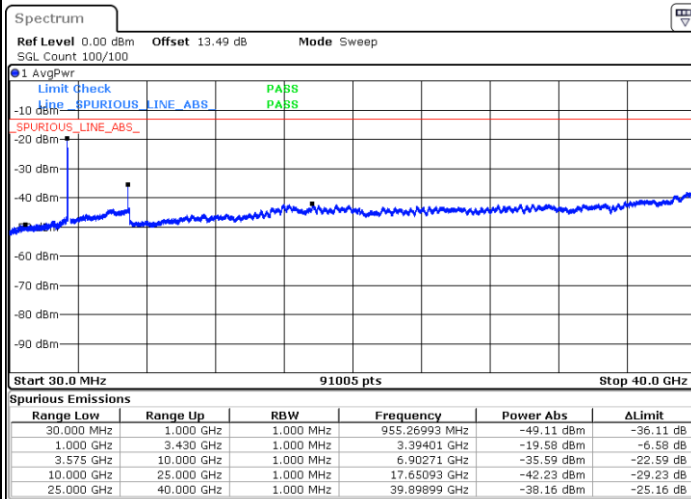
N/A



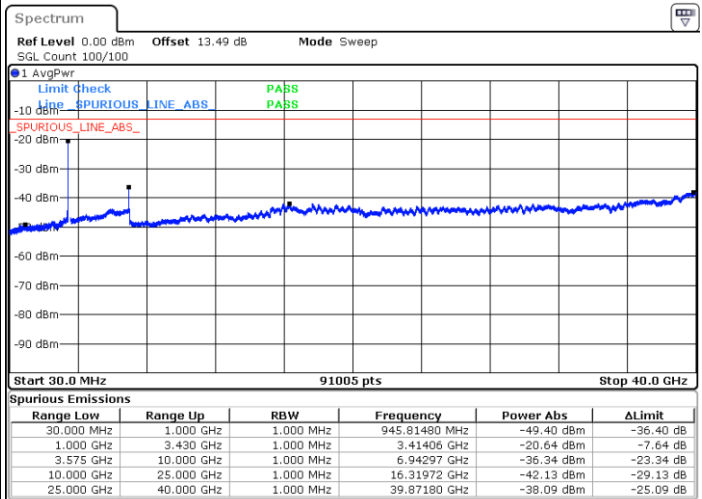
## FR1 n77 /60MHz / DFT-S OFDM / BPSK

## Lowest Channel / 1RB1

## Middle Channel / 1RB1



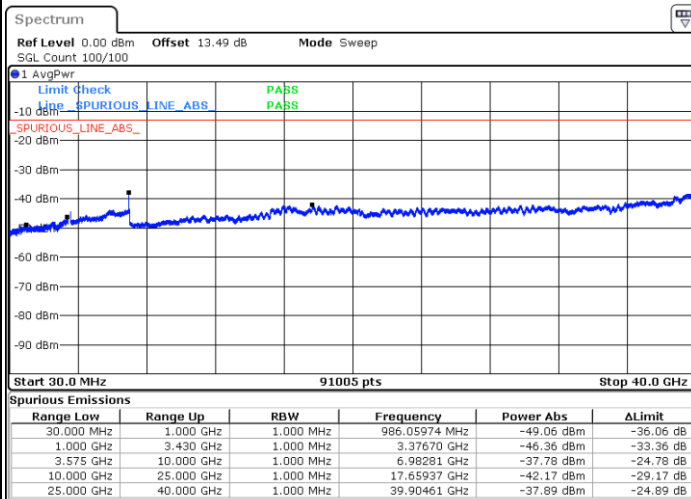
Date: 15.JUN.2022 03:39:02



Date: 15.JUN.2022 03:45:05

## Highest Channel / 1RB1

N/A



Date: 15.JUN.2022 03:46:36

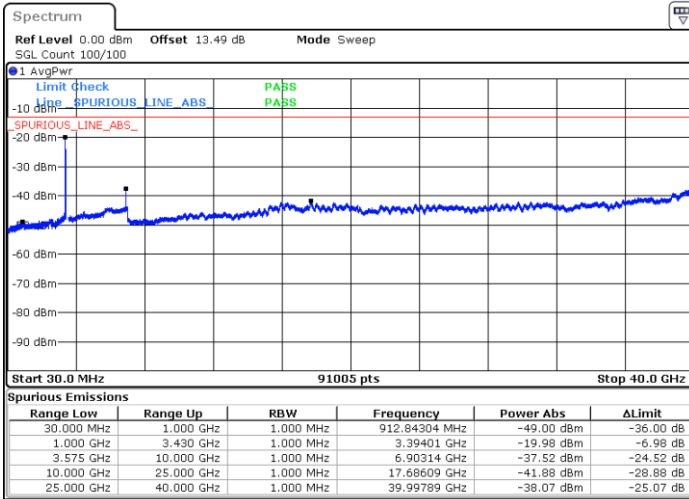
N/A



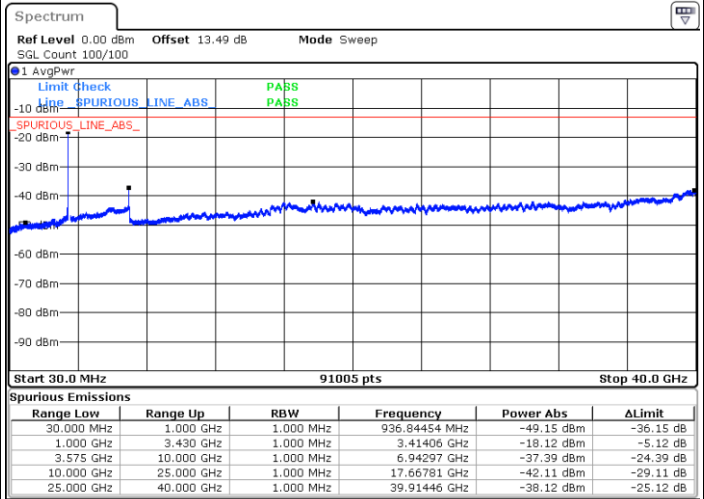
FR1 n77 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



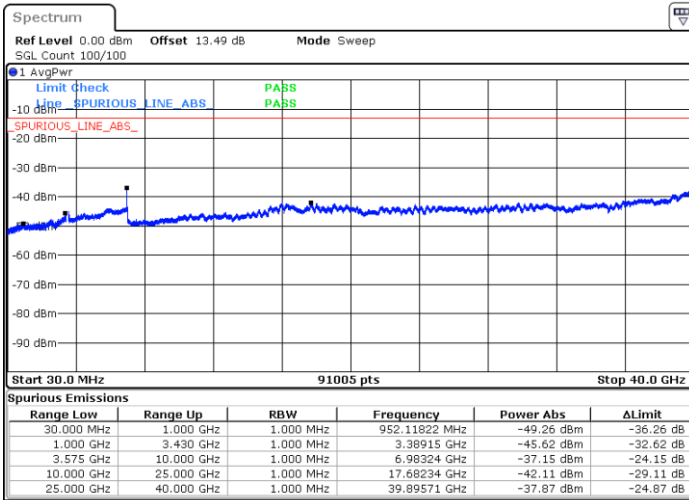
Date: 15.JUN.2022 03:40:38



Date: 15.JUN.2022 03:42:44

Highest Channel / 1RB1

N/A



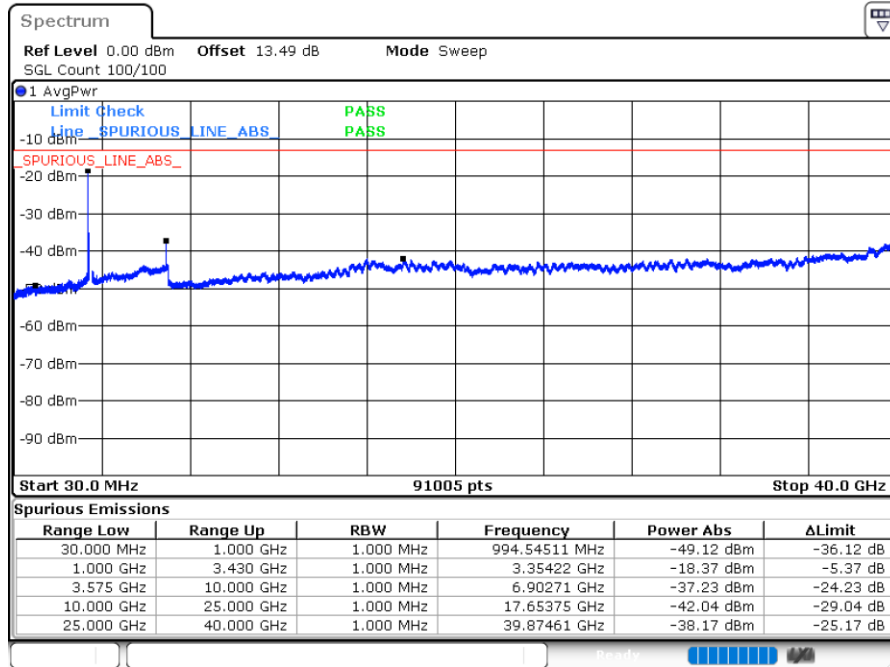
Date: 15.JUN.2022 03:47:46

N/A



FR1 n77 / 100MHz / DFT-S OFDM /BPSK

Middle Channel / 1RB1

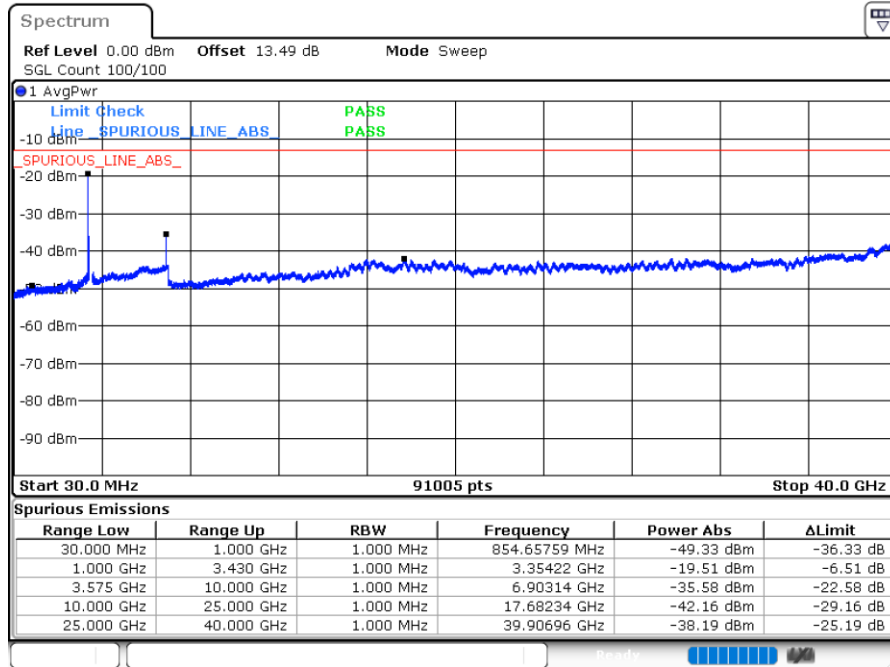


Date: 15 JUN 2022 02:25:07



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Middle Channel / 1RB1



Date: 15 JUN 2022 02:26:15

## Frequency Stability

| Test Conditions  |                   | FR1 n77 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 20MHz                        | Note 2. |
|                  |                   | Deviation (ppm)                 | Result  |
| 50               | Normal Voltage    | 0.0013                          | PASS    |
| 40               | Normal Voltage    | 0.0027                          |         |
| 30               | Normal Voltage    | 0.0049                          |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |         |
| 10               | Normal Voltage    | 0.0032                          |         |
| 0                | Normal Voltage    | 0.0031                          |         |
| -10              | Normal Voltage    | 0.0038                          |         |
| -20              | Normal Voltage    | 0.0026                          |         |
| -30              | Normal Voltage    | 0.0055                          |         |
| 20               | Maximum Voltage   | 0.0028                          |         |
| 20               | Normal Voltage    | 0.0069                          |         |
| 20               | Battery End Point | 0.0006                          |         |

**Note:**

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 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 : | Chris Chen | Temperature :       | 22~25°C |
|                 |            | Relative Humidity : | 48~52%  |

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

| SA n77 / 100MHz / QPSK / ANT0 |                   |              |               |                   |                    |                      |                       |                    |
|-------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -60.16       | -13           | -47.16            | -70.60             | 2.80                 | 13.24                 | H                  |
|                               | 10356             | -51.92       | -13           | -38.92            | -61.47             | 3.46                 | 13.01                 | H                  |
|                               | 13818             | -59.82       | -13           | -46.82            | -69.38             | 3.88                 | 13.44                 | H                  |
|                               | 17256             | -51.22       | -13           | -38.22            | -60.19             | 4.46                 | 13.43                 | H                  |
|                               | 6900              | -61.37       | -13           | -48.37            | -71.81             | 2.80                 | 13.24                 | V                  |
|                               | 10356             | -54.46       | -13           | -41.46            | -64.01             | 3.46                 | 13.01                 | V                  |
|                               | 13818             | -60.03       | -13           | -47.03            | -69.59             | 3.88                 | 13.44                 | V                  |
|                               | 17256             | -43.43       | -13           | -30.43            | -52.40             | 4.46                 | 13.43                 | V                  |

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

| EN-DC_41A_n77A / LTE 20MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT0(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              | -58.69       | -13           | -45.69            | -69.17             | 2.76                 | 13.24                 | H                  |
|                                                                      | 10356             | -55.67       | -13           | -42.67            | -65.26             | 3.42                 | 13.01                 | H                  |
|                                                                      | 13818             | -60.40       | -13           | -47.40            | -70.01             | 3.83                 | 13.44                 | H                  |
|                                                                      | 17256             | -52.90       | -13           | -39.90            | -61.92             | 4.41                 | 13.43                 | H                  |
|                                                                      | 6900              | -58.78       | -13           | -45.78            | -69.22             | 2.80                 | 13.24                 | V                  |
|                                                                      | 10356             | -60.43       | -13           | -47.43            | -69.98             | 3.46                 | 13.01                 | V                  |
|                                                                      | 13818             | -59.73       | -13           | -46.73            | -69.29             | 3.88                 | 13.44                 | V                  |
|                                                                      | 17256             | -39.00       | -13           | -26.00            | -47.97             | 4.46                 | 13.43                 | V                  |

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

| SA n78 / 100MHz / QPSK / ANT0 |                   |              |               |                   |                    |                      |                       |                    |
|-------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -59.82       | -13           | -46.82            | -70.30             | 2.76                 | 13.24                 | H                  |
|                               | 10356             | -50.58       | -13           | -37.58            | -60.17             | 3.42                 | 13.01                 | H                  |
|                               | 13818             | -60.82       | -13           | -47.82            | -70.43             | 3.83                 | 13.44                 | H                  |
|                               | 17256             | -51.78       | -13           | -38.78            | -60.80             | 4.41                 | 13.43                 | H                  |
|                               | 6900              | -61.26       | -13           | -48.26            | -71.70             | 2.80                 | 13.24                 | V                  |
|                               | 10356             | -54.35       | -13           | -41.35            | -63.90             | 3.46                 | 13.01                 | V                  |
|                               | 13818             | -60.72       | -13           | -47.72            | -70.28             | 3.88                 | 13.44                 | V                  |
|                               | 17256             | -45.96       | -13           | -32.96            | -54.93             | 4.46                 | 13.43                 | V                  |

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

| EN-DC 7A_n78A / LTE 20MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT0(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              | -58.92       | -13           | -45.92            | -69.40             | 2.76                 | 13.24                 | H                  |
|                                                                     | 10356             | -55.62       | -13           | -42.62            | -65.21             | 3.42                 | 13.01                 | H                  |
|                                                                     | 13818             | -59.95       | -13           | -46.95            | -69.56             | 3.83                 | 13.44                 | H                  |
|                                                                     | 17256             | -52.78       | -13           | -39.78            | -61.80             | 4.41                 | 13.43                 | H                  |
|                                                                     | 6900              | -58.73       | -13           | -45.73            | -69.17             | 2.80                 | 13.24                 | V                  |
|                                                                     | 10356             | -60.23       | -13           | -47.23            | -69.78             | 3.46                 | 13.01                 | V                  |
|                                                                     | 13818             | -59.83       | -13           | -46.83            | -69.39             | 3.88                 | 13.44                 | V                  |
|                                                                     | 17256             | -39.49       | -13           | -26.49            | -48.46             | 4.46                 | 13.43                 | V                  |

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