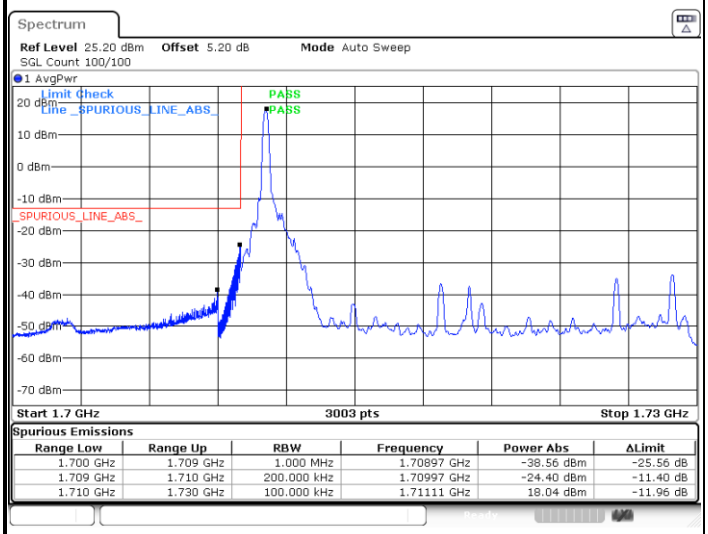
## LTE Band 4 / 20MHz / 64QAM

### Lowest Band Edge / 1 RB

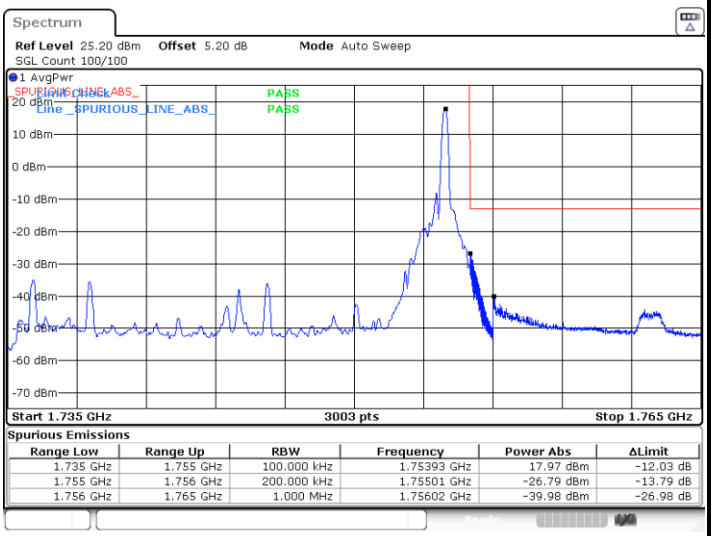



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.700 GHz | 1.709 GHz | 1.000 MHz | 1.70897 GHz | -38.56 dBm | -25.56 dB |
| 1.709 GHz | 1.710 GHz | 200.000 kHz | 1.70997 GHz | -24.40 dBm | -11.40 dB |
| 1.710 GHz | 1.730 GHz | 100.000 kHz | 1.71111 GHz | 18.04 dBm | -11.96 dB |

Date: 30.JAN.2024 00:27:33

### Highest Band Edge / 1 RB

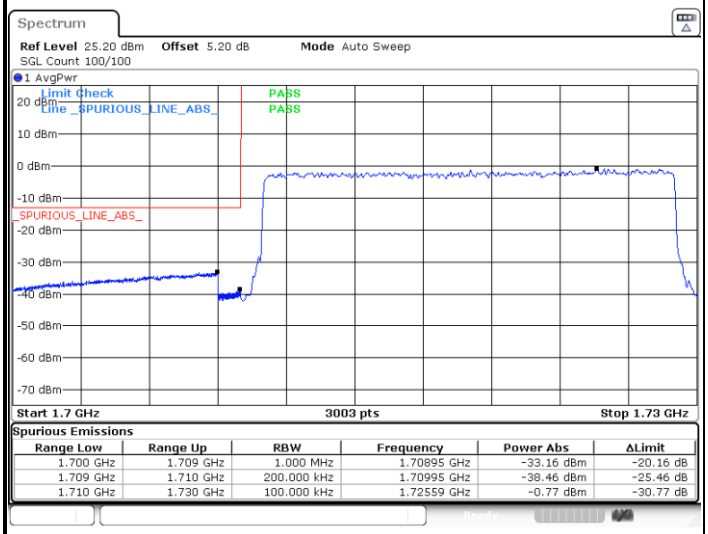



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.735 GHz | 1.755 GHz | 100.000 kHz | 1.75393 GHz | 17.97 dBm | -12.03 dB |
| 1.755 GHz | 1.756 GHz | 200.000 kHz | 1.75501 GHz | -26.79 dBm | -13.79 dB |
| 1.756 GHz | 1.765 GHz | 1.000 MHz | 1.75602 GHz | -39.98 dBm | -26.98 dB |

Date: 30.JAN.2024 00:36:03

### Lowest Band Edge / Full RB

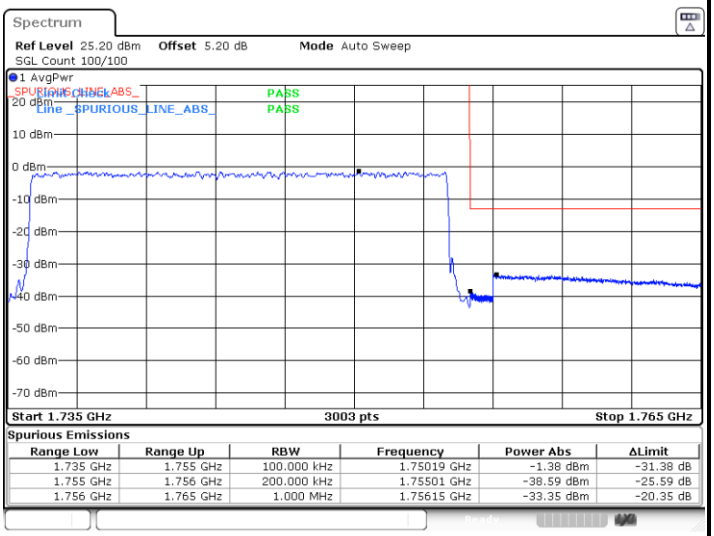



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.700 GHz | 1.709 GHz | 1.000 MHz | 1.70895 GHz | -33.16 dBm | -20.16 dB |
| 1.709 GHz | 1.710 GHz | 200.000 kHz | 1.70995 GHz | -38.46 dBm | -25.46 dB |
| 1.710 GHz | 1.730 GHz | 100.000 kHz | 1.72559 GHz | -0.77 dBm | -30.77 dB |

Date: 30.JAN.2024 00:28:17

### Highest Band Edge / Full RB




Spurious Emissions

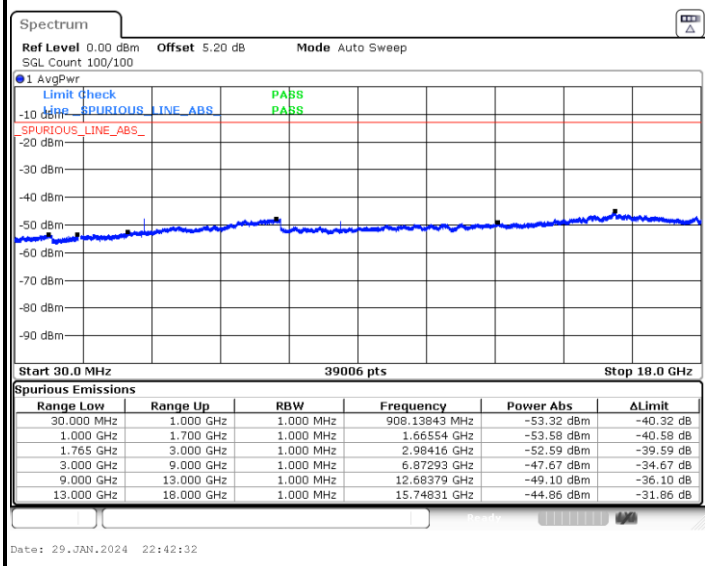
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 1.735 GHz | 1.755 GHz | 100.000 kHz | 1.75019 GHz | -1.38 dBm | -31.38 dB |
| 1.755 GHz | 1.756 GHz | 200.000 kHz | 1.75501 GHz | -38.59 dBm | -25.59 dB |
| 1.756 GHz | 1.765 GHz | 1.000 MHz | 1.75615 GHz | -33.35 dBm | -20.35 dB |

Date: 30.JAN.2024 00:36:48

# Conducted Spurious Emission

## LTE Band 4 / 1.4MHz

### Lowest Channel / QPSK

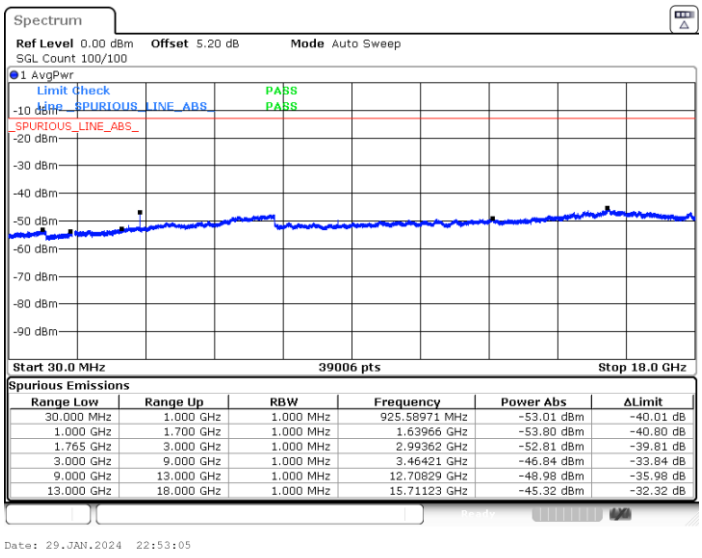



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 908.13843 MHz | -53.32 dBm | -40.32 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66554 GHz | -53.58 dBm | -40.58 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98416 GHz | -52.59 dBm | -39.59 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.87293 GHz | -47.67 dBm | -34.67 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.68379 GHz | -49.10 dBm | -36.10 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.74831 GHz | -44.86 dBm | -31.86 dB |

Date: 29.JAN.2024 22:42:32

### Middle Channel / QPSK

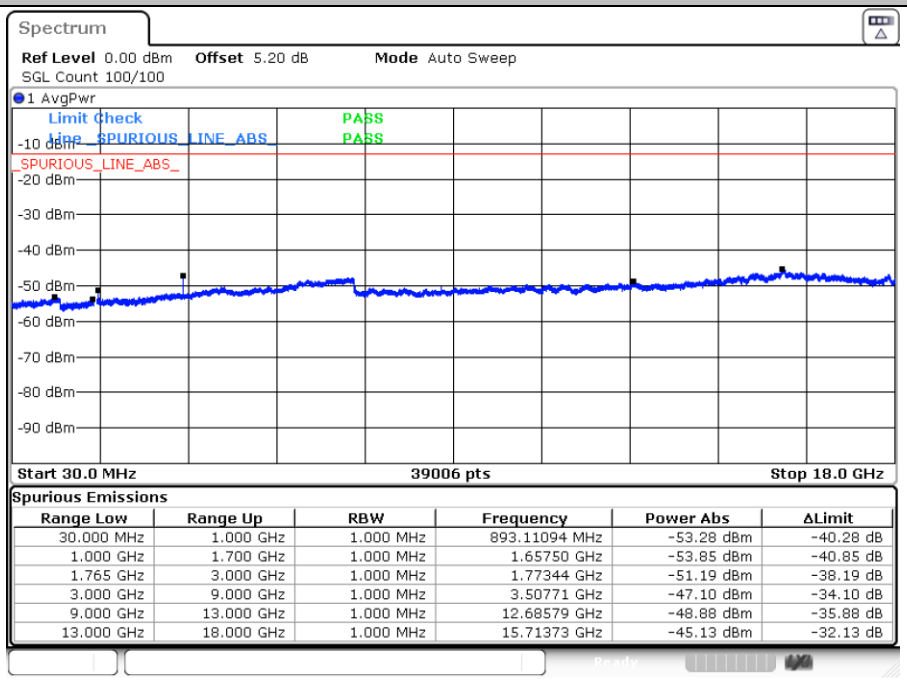



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 925.58971 MHz | -53.01 dBm | -40.01 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.63966 GHz | -53.80 dBm | -40.80 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99362 GHz | -52.81 dBm | -39.81 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.46421 GHz | -46.84 dBm | -33.84 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70829 GHz | -48.98 dBm | -35.98 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.71123 GHz | -45.32 dBm | -32.32 dB |

Date: 29.JAN.2024 22:53:05

### Highest Channel / QPSK



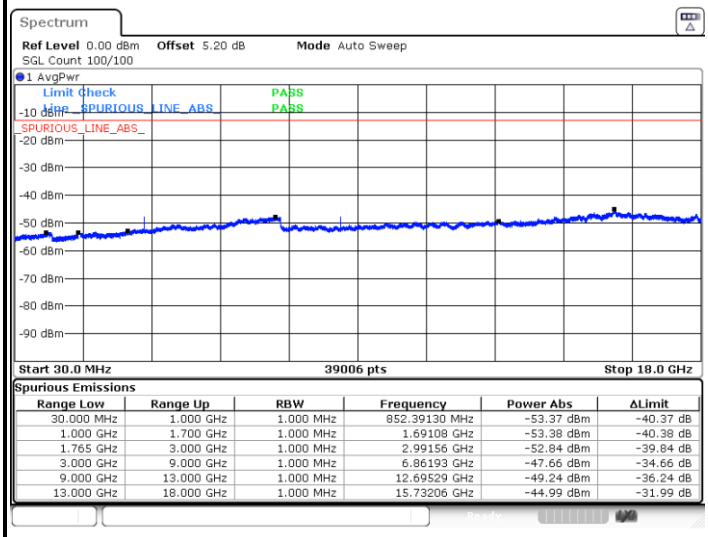

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 893.11094 MHz | -53.28 dBm | -40.28 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.65750 GHz | -53.85 dBm | -40.85 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77344 GHz | -51.19 dBm | -38.19 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.50771 GHz | -47.10 dBm | -34.10 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.68579 GHz | -48.88 dBm | -35.88 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.71373 GHz | -45.13 dBm | -32.13 dB |

Date: 29.JAN.2024 22:55:06

## LTE Band 4 / 3MHz

### Lowest Channel / QPSK

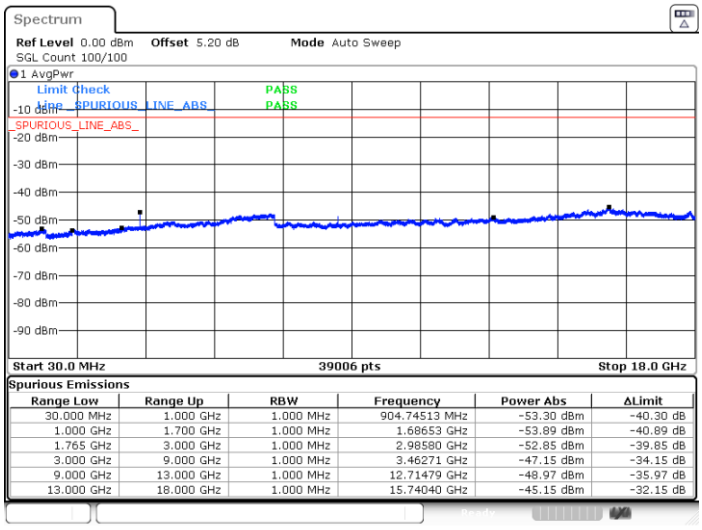



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 852.39130 MHz | -53.37 dBm | -40.37 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69108 GHz | -53.38 dBm | -40.38 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99156 GHz | -52.84 dBm | -39.84 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 6.86193 GHz | -47.66 dBm | -34.66 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69529 GHz | -49.24 dBm | -36.24 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.73206 GHz | -44.99 dBm | -31.99 dB |

Date: 29.JAN.2024 23:05:39

### Middle Channel / QPSK

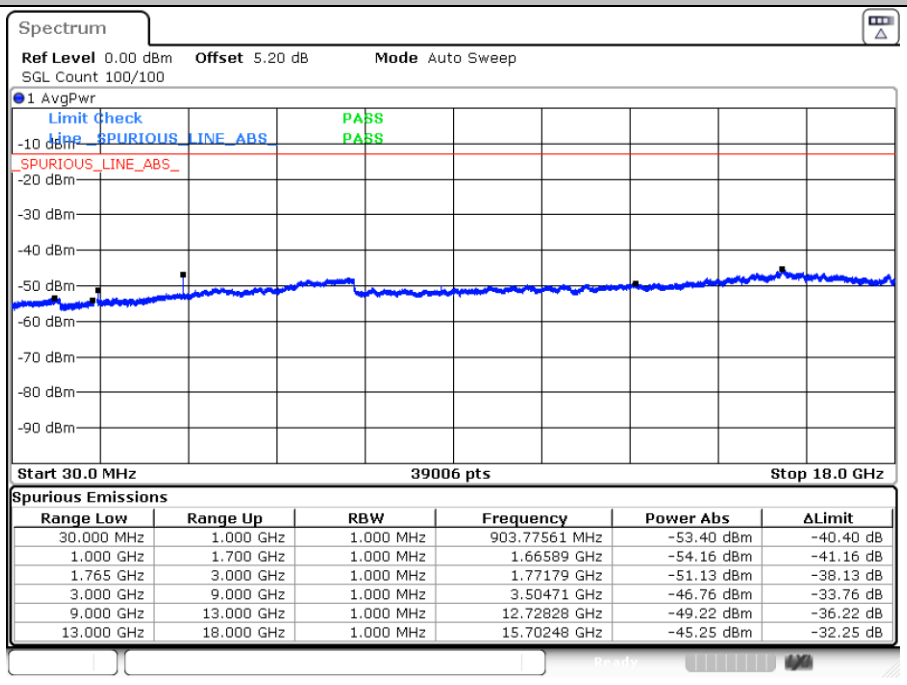



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 904.74513 MHz | -53.30 dBm | -40.30 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68653 GHz | -53.89 dBm | -40.89 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98580 GHz | -52.85 dBm | -39.85 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.46271 GHz | -47.15 dBm | -34.15 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.71479 GHz | -48.97 dBm | -35.97 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.74040 GHz | -45.15 dBm | -32.15 dB |

Date: 29.JAN.2024 23:16:10

### Highest Channel / QPSK



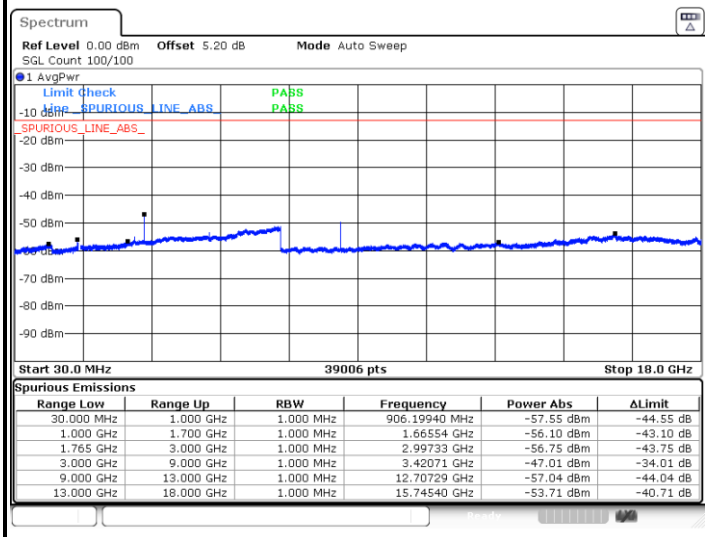

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 903.77561 MHz | -53.40 dBm | -40.40 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66589 GHz | -54.16 dBm | -41.16 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77179 GHz | -51.13 dBm | -38.13 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.50471 GHz | -46.76 dBm | -33.76 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.72828 GHz | -49.22 dBm | -36.22 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.70248 GHz | -45.25 dBm | -32.25 dB |

Date: 29.JAN.2024 23:18:12

## LTE Band 4 / 5MHz

### Lowest Channel / QPSK

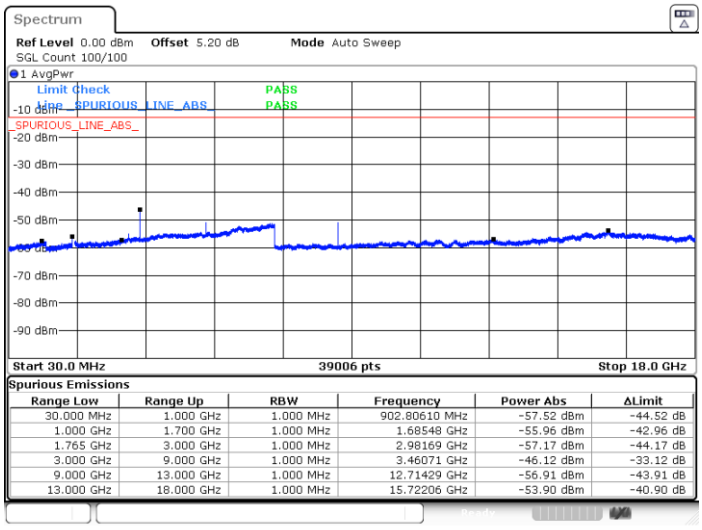



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 906.19940 MHz | -57.55 dBm | -44.55 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.66554 GHz | -56.10 dBm | -43.10 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99733 GHz | -56.75 dBm | -43.75 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42071 GHz | -47.01 dBm | -34.01 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70729 GHz | -57.04 dBm | -44.04 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.74540 GHz | -53.71 dBm | -40.71 dB |

Date: 29.JAN.2024 23:37:46

### Middle Channel / QPSK

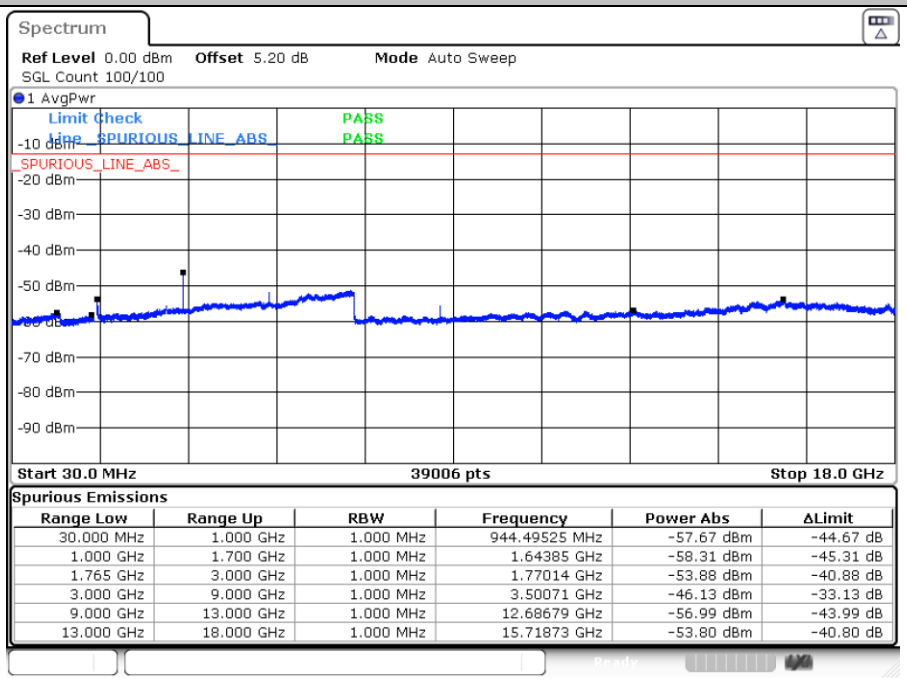



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 902.80610 MHz | -57.52 dBm | -44.52 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68548 GHz | -55.96 dBm | -42.96 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98169 GHz | -57.17 dBm | -44.17 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.46071 GHz | -46.12 dBm | -33.12 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.71429 GHz | -56.91 dBm | -43.91 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.72206 GHz | -53.90 dBm | -40.90 dB |

Date: 29.JAN.2024 23:45:46

### Highest Channel / QPSK



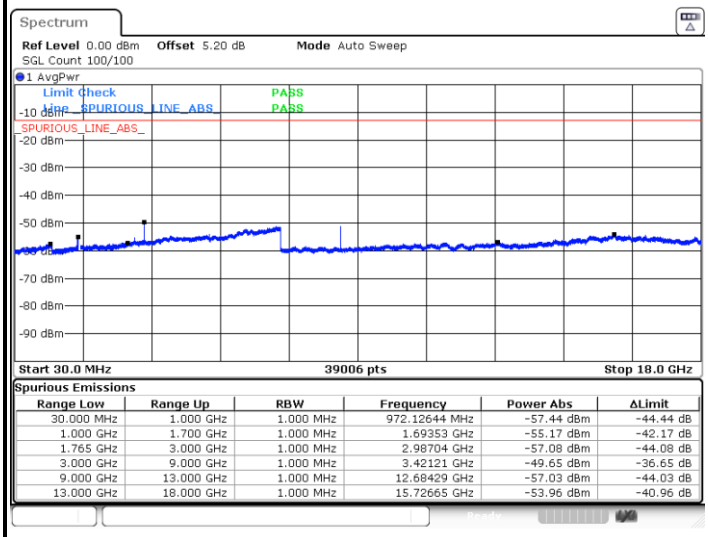

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 944.49525 MHz | -57.67 dBm | -44.67 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.64385 GHz | -58.31 dBm | -45.31 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77014 GHz | -53.88 dBm | -40.88 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.50071 GHz | -46.13 dBm | -33.13 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.68679 GHz | -56.99 dBm | -43.99 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.71873 GHz | -53.80 dBm | -40.80 dB |

Date: 29.JAN.2024 23:47:47

## LTE Band 4 / 10MHz

### Lowest Channel / QPSK

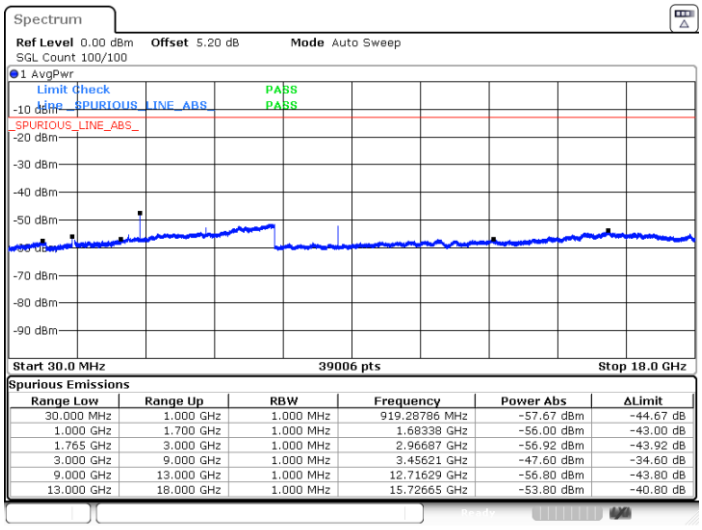



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 972.12644 MHz | -57.44 dBm | -44.44 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69353 GHz | -55.17 dBm | -42.17 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98704 GHz | -57.08 dBm | -44.08 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42121 GHz | -49.65 dBm | -36.65 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.68429 GHz | -57.03 dBm | -44.03 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.72665 GHz | -53.96 dBm | -40.96 dB |

Date: 29.JAN.2024 23:55:19

### Middle Channel / QPSK

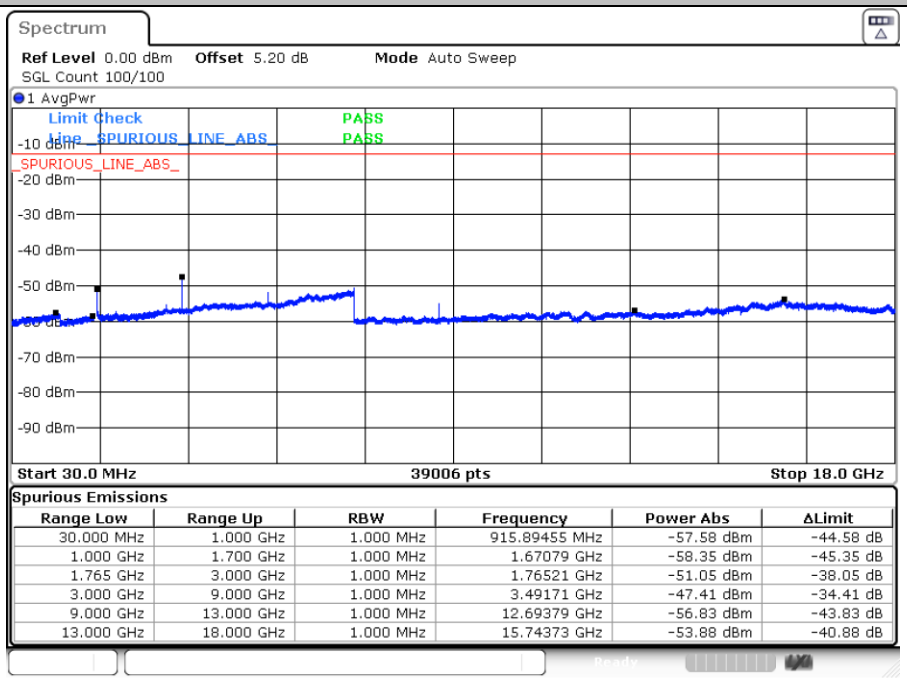



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 919.28786 MHz | -57.67 dBm | -44.67 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.68338 GHz | -56.00 dBm | -43.00 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.96687 GHz | -56.92 dBm | -43.92 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45621 GHz | -47.60 dBm | -34.60 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.71629 GHz | -56.80 dBm | -43.80 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.72665 GHz | -53.80 dBm | -40.80 dB |

Date: 30.JAN.2024 00:01:47

### Highest Channel / QPSK



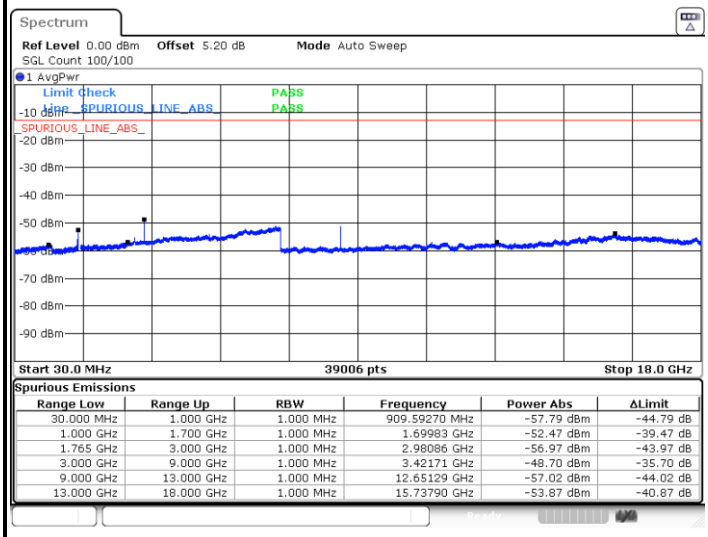

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 915.89455 MHz | -57.58 dBm | -44.58 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67079 GHz | -58.35 dBm | -45.35 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76521 GHz | -51.05 dBm | -38.05 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.49171 GHz | -47.41 dBm | -34.41 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69379 GHz | -56.83 dBm | -43.83 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.74373 GHz | -53.88 dBm | -40.88 dB |

Date: 30.JAN.2024 00:03:49

## LTE Band 4 / 15MHz

### Lowest Channel / QPSK

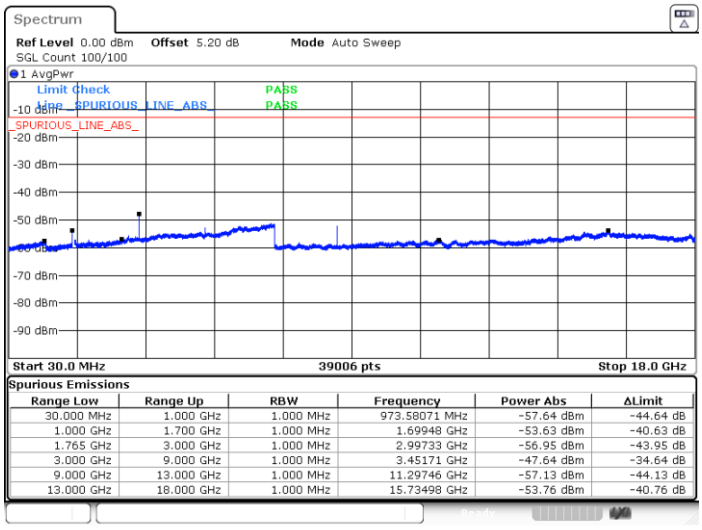



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 909.59270 MHz | -57.79 dBm | -44.79 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69983 GHz | -52.47 dBm | -39.47 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98086 GHz | -56.97 dBm | -43.97 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42171 GHz | -48.70 dBm | -35.70 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.65129 GHz | -57.02 dBm | -44.02 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.73790 GHz | -53.87 dBm | -40.87 dB |

Date: 30.JAN.2024 00:10:19

### Middle Channel / QPSK

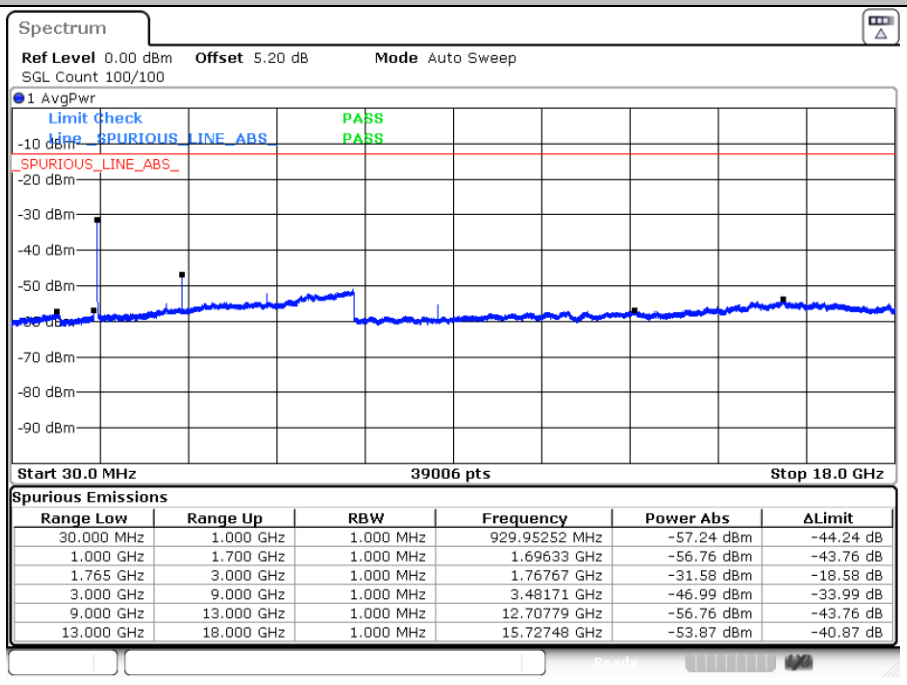



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 973.58071 MHz | -57.64 dBm | -44.64 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69948 GHz | -53.63 dBm | -40.63 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.99733 GHz | -56.95 dBm | -43.95 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.45171 GHz | -47.64 dBm | -34.64 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 11.29746 GHz | -57.13 dBm | -44.13 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.73498 GHz | -53.76 dBm | -40.76 dB |

Date: 30.JAN.2024 00:16:48

### Highest Channel / QPSK



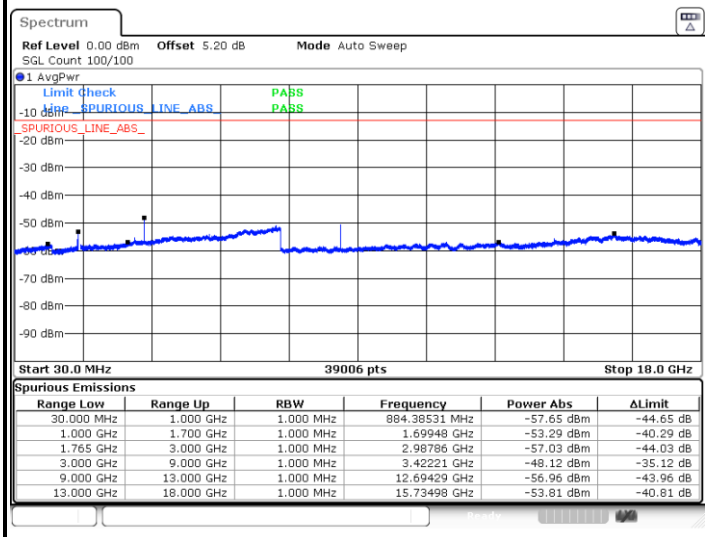

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 929.95252 MHz | -57.24 dBm | -44.24 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69633 GHz | -56.76 dBm | -43.76 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.76767 GHz | -31.58 dBm | -18.58 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.48171 GHz | -46.99 dBm | -33.99 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70779 GHz | -56.76 dBm | -43.76 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.72748 GHz | -53.87 dBm | -40.87 dB |

Date: 30.JAN.2024 00:18:49

## LTE Band 4 / 20MHz

### Lowest Channel / QPSK

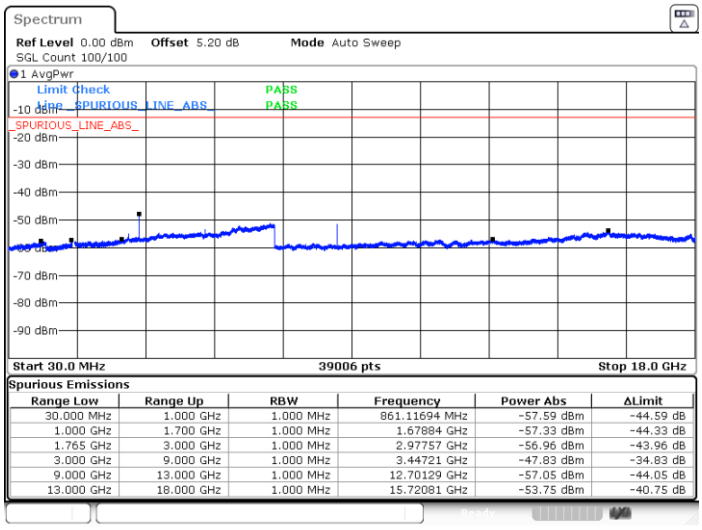



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 884.38531 MHz | -57.65 dBm | -44.65 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69948 GHz | -53.29 dBm | -40.29 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.98786 GHz | -57.03 dBm | -44.03 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.42221 GHz | -48.12 dBm | -35.12 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.69429 GHz | -56.96 dBm | -43.96 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.73498 GHz | -53.81 dBm | -40.81 dB |

Date: 30.JAN.2024 00:25:18

### Middle Channel / QPSK

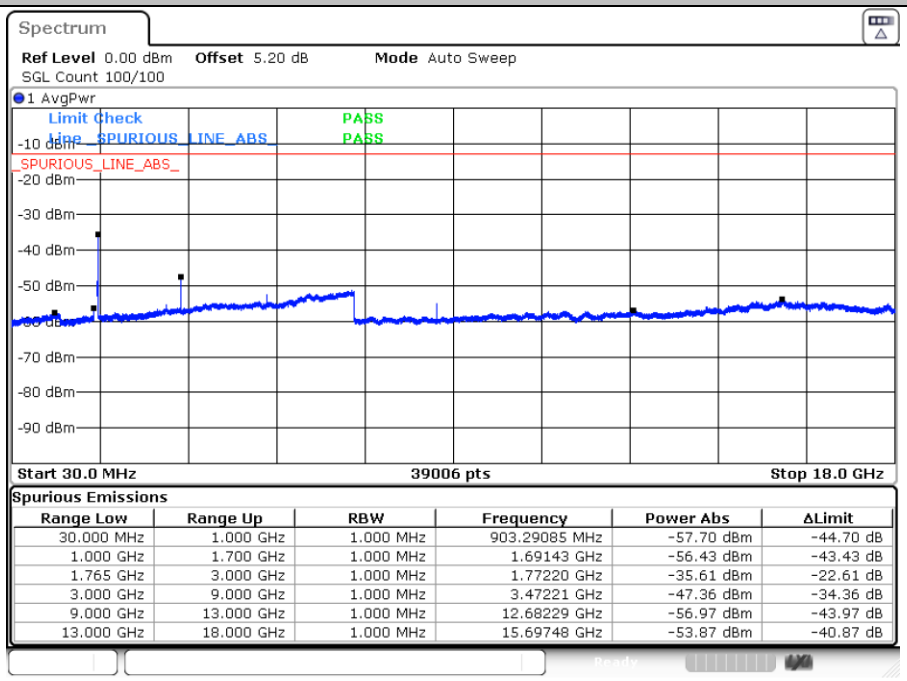



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 861.11694 MHz | -57.59 dBm | -44.59 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.67884 GHz | -57.33 dBm | -44.33 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 2.97757 GHz | -56.96 dBm | -43.96 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.44721 GHz | -47.83 dBm | -34.83 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.70129 GHz | -57.05 dBm | -44.05 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.72081 GHz | -53.75 dBm | -40.75 dB |

Date: 30.JAN.2024 00:31:47

### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 903.29085 MHz | -57.70 dBm | -44.70 dB |
| 1.000 GHz | 1.700 GHz | 1.000 MHz | 1.69143 GHz | -56.43 dBm | -43.43 dB |
| 1.765 GHz | 3.000 GHz | 1.000 MHz | 1.77220 GHz | -35.61 dBm | -22.61 dB |
| 3.000 GHz | 9.000 GHz | 1.000 MHz | 3.47221 GHz | -47.36 dBm | -34.36 dB |
| 9.000 GHz | 13.000 GHz | 1.000 MHz | 12.68229 GHz | -56.97 dBm | -43.97 dB |
| 13.000 GHz | 18.000 GHz | 1.000 MHz | 15.69748 GHz | -53.87 dBm | -40.87 dB |

Date: 30.JAN.2024 00:33:49

# Frequency Stability

| Test Conditions | | LTE Band 4 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0018 | PASS |
| 40 | Normal Voltage | 0.0006 | |
| 30 | Normal Voltage | 0.0036 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0034 | |
| 0 | Normal Voltage | 0.0027 | |
| -10 | Normal Voltage | 0.0019 | |
| -20 | Normal Voltage | 0.0016 | |
| -30 | Normal Voltage | 0.0048 | |
| 20 | Maximum Voltage | 0.0056 | |
| 20 | Normal Voltage | 0.0012 | |
| 20 | Battery End Point | 0.0041 | |

**Note:**

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

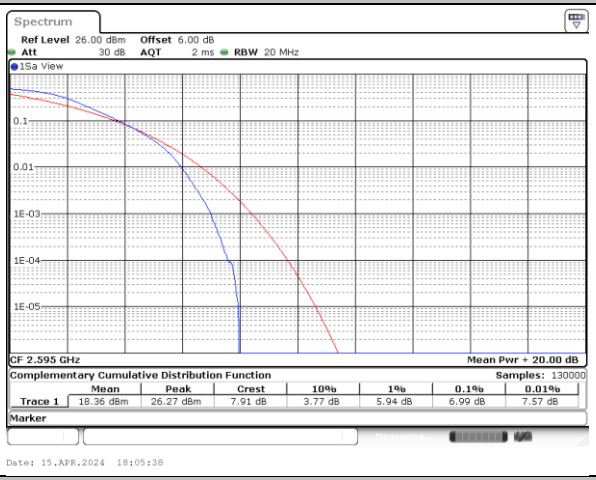
# LTE Band 38

## Peak-to-Average Ratio

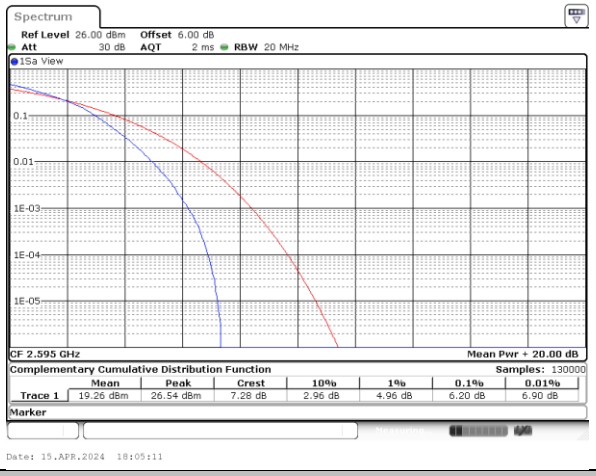
| Mode | LTE Band 38 / 20MHz | | | |
|---|---|---|---|---|
| Mod. | QPSK | 16QAM | 64QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Result |
| Middle CH | 6.99 | 6.20 | 6.75 | PASS |

## LTE Band 38 / 20MHz

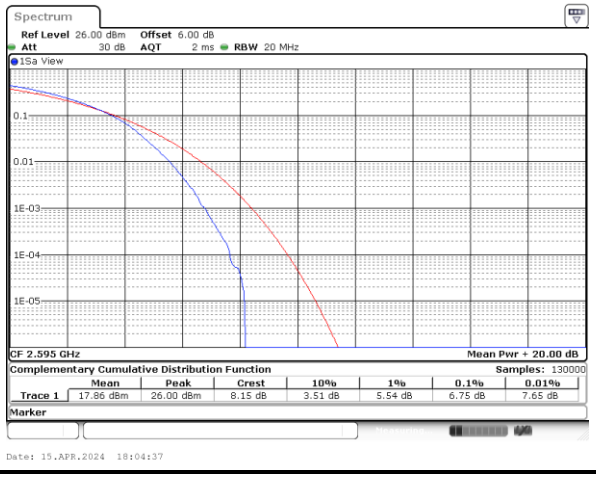
### Middle Channel / Full RB / QPSK




### Middle Channel / Full RB / 16QAM



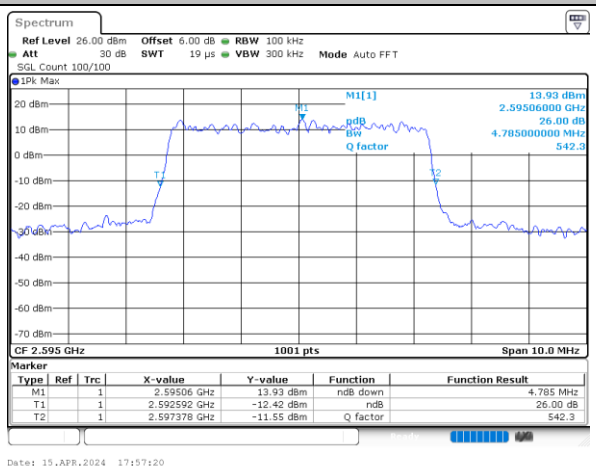

### Middle Channel / Full RB / 64QAM

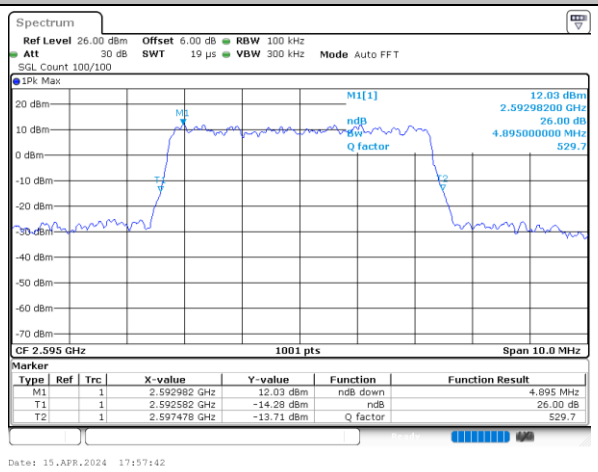


# 26dB Bandwidth

| Mode | LTE Band 38 : 26dB BW(MHz) | |
|---|---|---|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.79 | 4.90 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.65 | 9.77 |
| BW | 15MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 14.39 | 14.21 |
| BW | 20MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 18.78 | 18.94 |

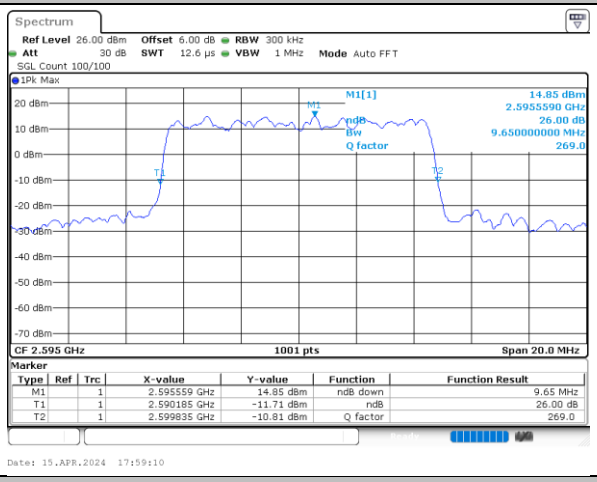
| LTE Band 38 | |
|---|---|
| Middle Channel / 5MHz / QPSK | Middle Channel / 5MHz / 16QAM |



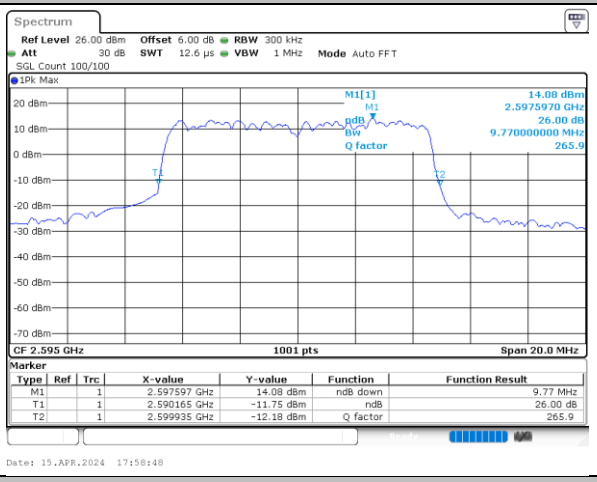



## LTE Band 38

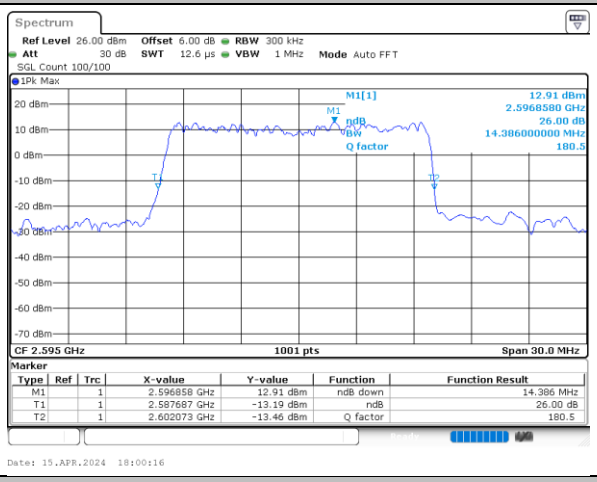
### Middle Channel / 10MHz / QPSK



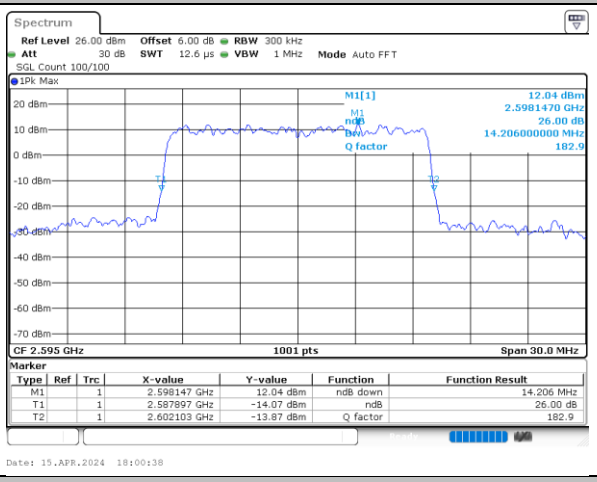

### Middle Channel / 10MHz / 16QAM



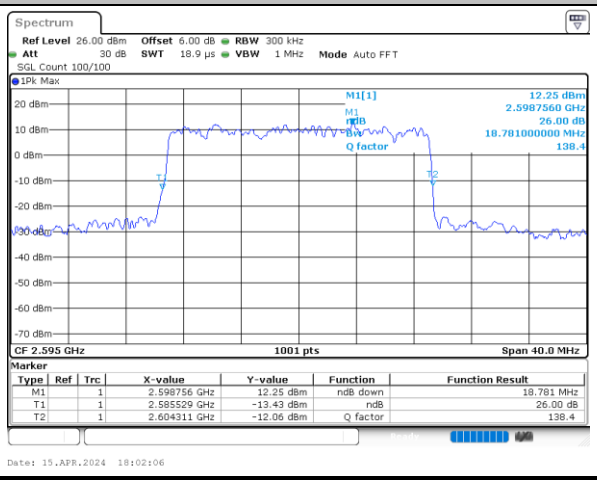

### Middle Channel / 15MHz / QPSK



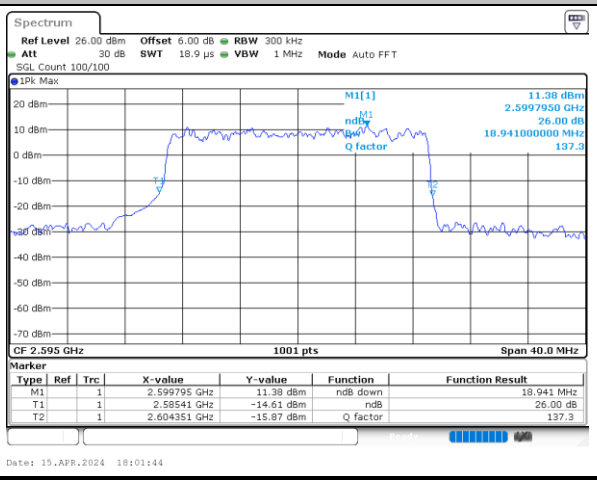

### Middle Channel / 15MHz / 16QAM




### Middle Channel / 20MHz / QPSK



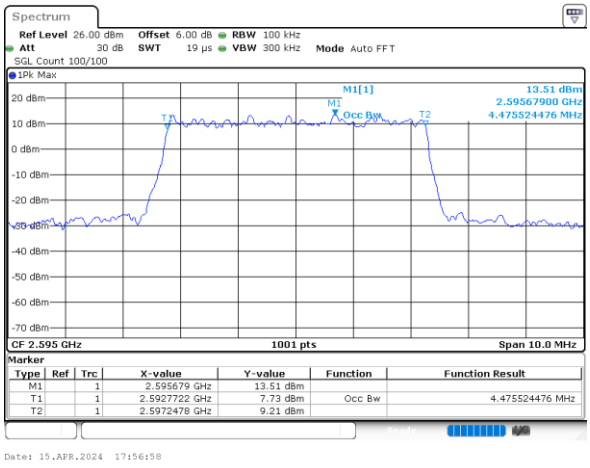

### Middle Channel / 20MHz / 16QAM

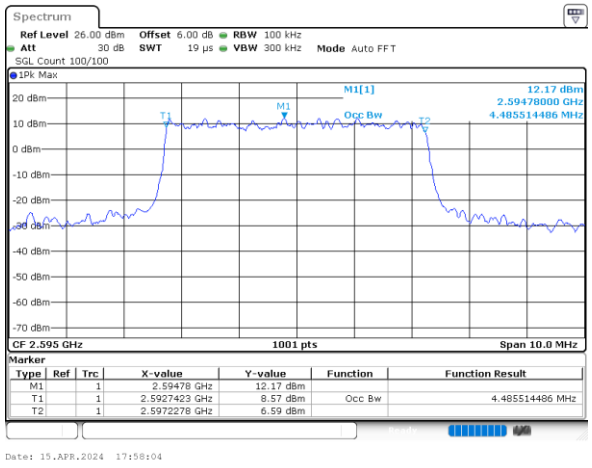


# Occupied Bandwidth

| Mode | LTE Band 38 : 99%OBW(MHz) | |
|---|---|---|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.48 | 4.49 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.01 | 9.01 |
| BW | 15MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 13.46 | 13.37 |
| BW | 20MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 17.86 | 17.86 |

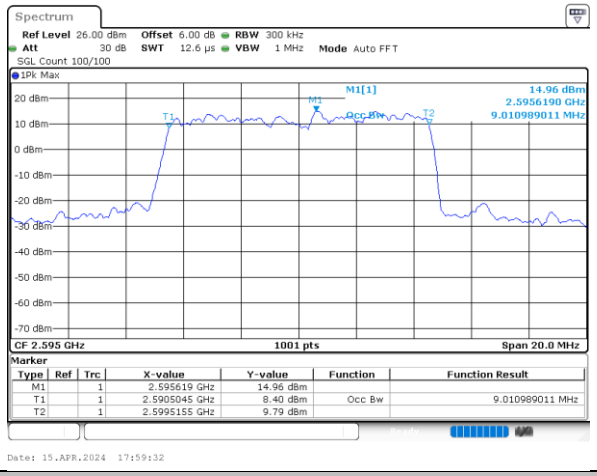
| LTE Band 38 | |
|---|---|
| Middle Channel / 5MHz / QPSK | Middle Channel / 5MHz / 16QAM |



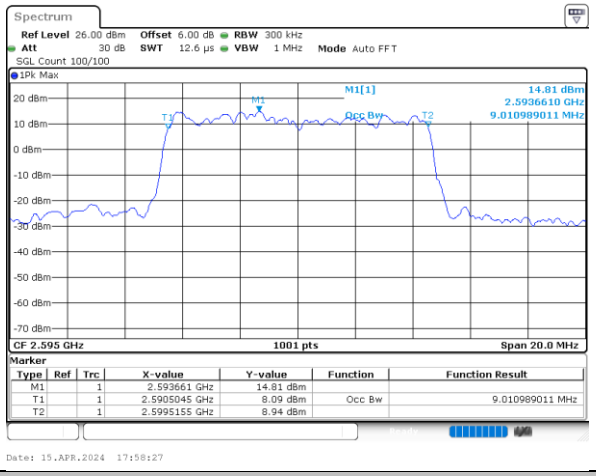



## LTE Band 38

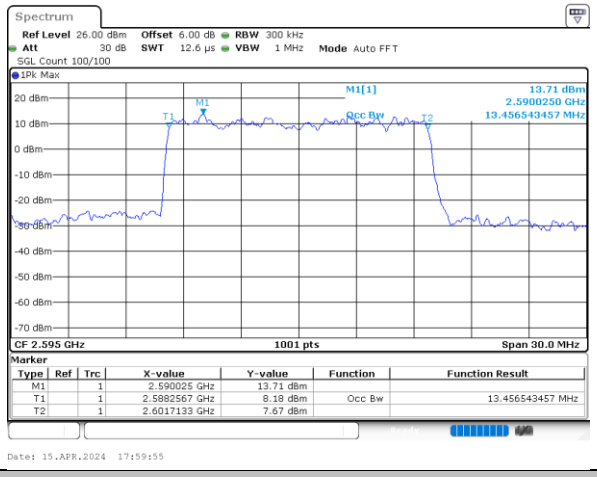
### Middle Channel / 10MHz / QPSK



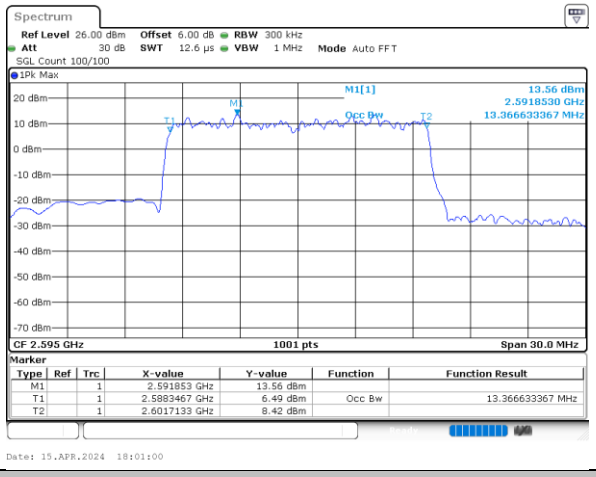

### Middle Channel / 10MHz / 16QAM



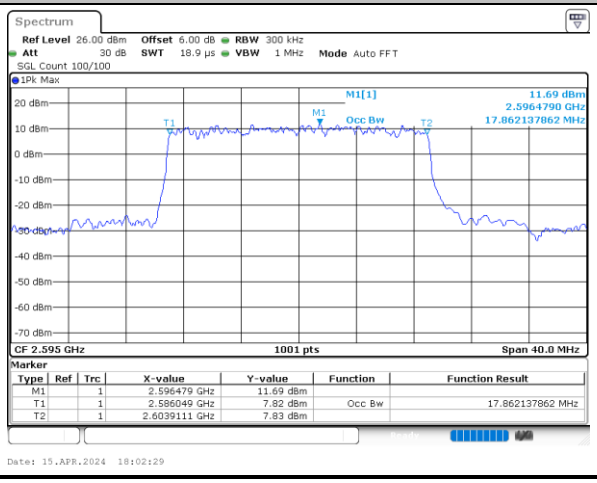

### Middle Channel / 15MHz / QPSK



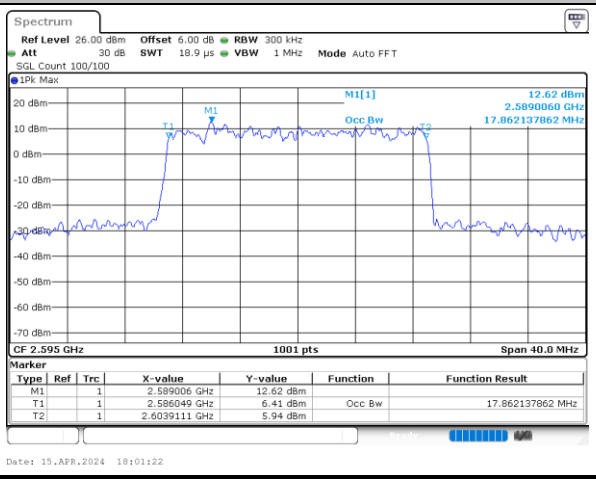

### Middle Channel / 15MHz / 16QAM




### Middle Channel / 20MHz / QPSK



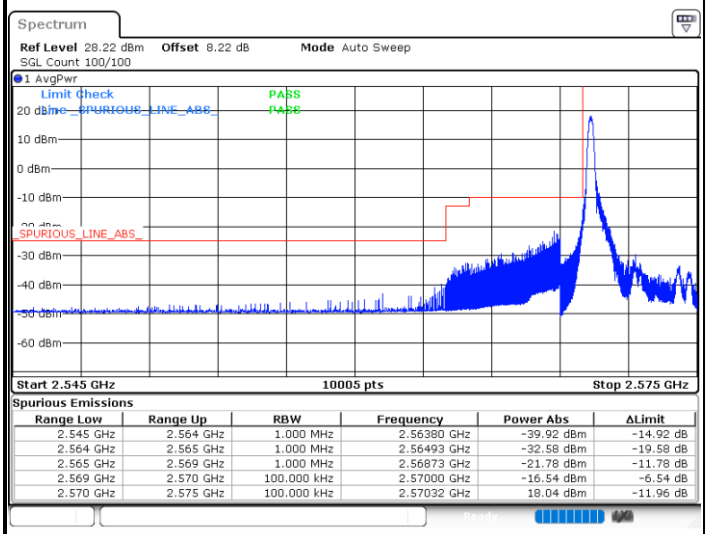

### Middle Channel / 20MHz / 16QAM



# Conducted Band Edge

## LTE Band 38 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

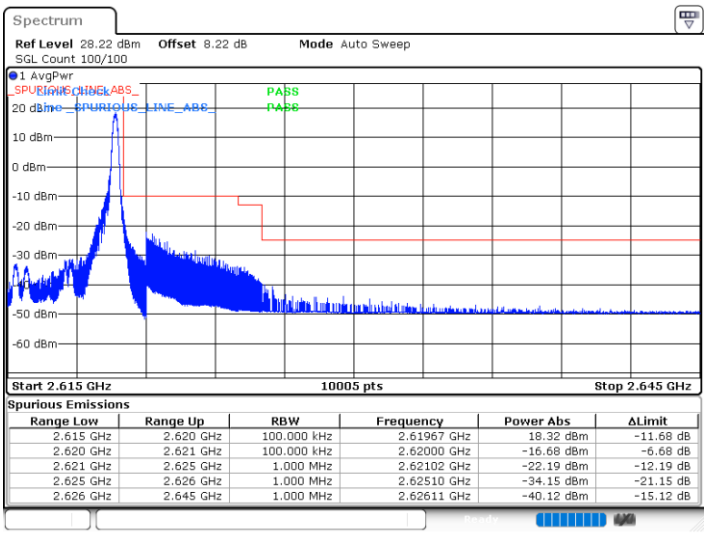



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.564 GHz | 1.000 MHz | 2.56380 GHz | -39.92 dBm | -14.92 dB |
| 2.564 GHz | 2.565 GHz | 1.000 MHz | 2.56493 GHz | -32.58 dBm | -19.58 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56873 GHz | -21.78 dBm | -11.78 dB |
| 2.569 GHz | 2.570 GHz | 100.000 kHz | 2.57000 GHz | -16.54 dBm | -6.54 dB |
| 2.570 GHz | 2.575 GHz | 100.000 kHz | 2.57032 GHz | 18.04 dBm | -11.96 dB |

Date: 15.APR.2024 16:58:25

### Highest Band Edge / 1 RB

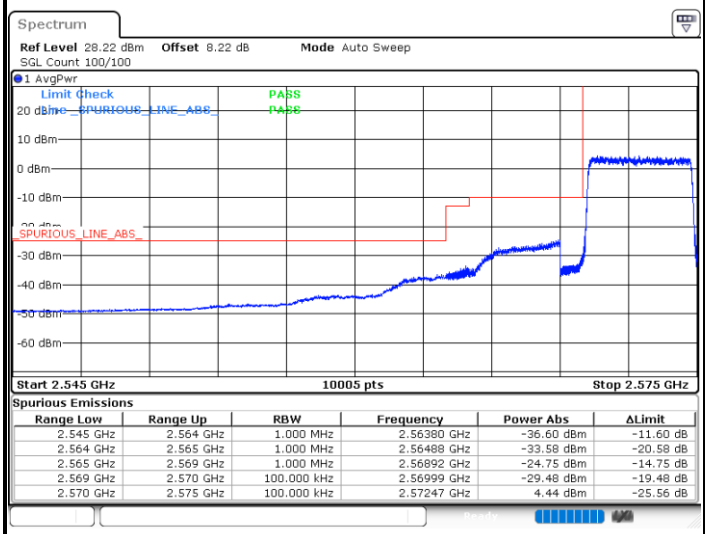



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.615 GHz | 2.620 GHz | 100.000 kHz | 2.61967 GHz | 18.32 dBm | -11.68 dB |
| 2.620 GHz | 2.621 GHz | 100.000 kHz | 2.62000 GHz | -16.68 dBm | -6.68 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62102 GHz | -22.19 dBm | -12.19 dB |
| 2.625 GHz | 2.626 GHz | 1.000 MHz | 2.62510 GHz | -34.15 dBm | -21.15 dB |
| 2.626 GHz | 2.645 GHz | 1.000 MHz | 2.62611 GHz | -40.12 dBm | -15.12 dB |

Date: 15.APR.2024 17:04:23

### Lowest Band Edge / Full RB

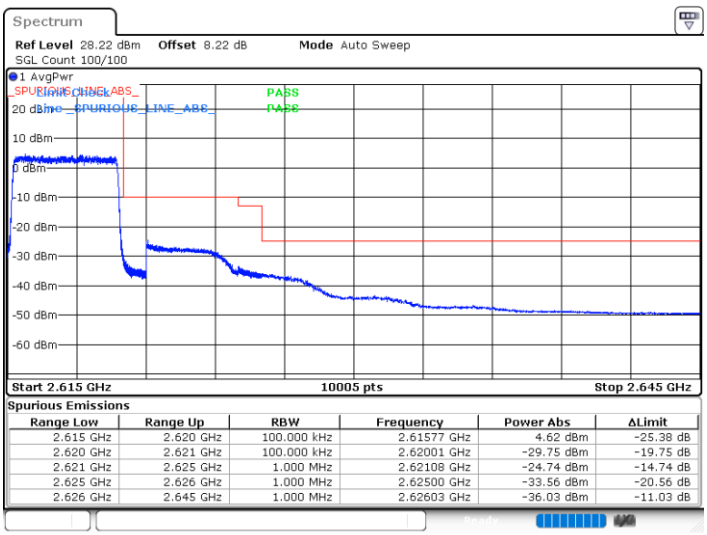



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.564 GHz | 1.000 MHz | 2.56380 GHz | -36.60 dBm | -11.60 dB |
| 2.564 GHz | 2.565 GHz | 1.000 MHz | 2.56488 GHz | -33.58 dBm | -20.58 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56892 GHz | -24.75 dBm | -14.75 dB |
| 2.569 GHz | 2.570 GHz | 100.000 kHz | 2.56999 GHz | -29.48 dBm | -19.48 dB |
| 2.570 GHz | 2.575 GHz | 100.000 kHz | 2.57247 GHz | 4.44 dBm | -25.56 dB |

Date: 15.APR.2024 16:56:16

### Highest Band Edge / Full RB



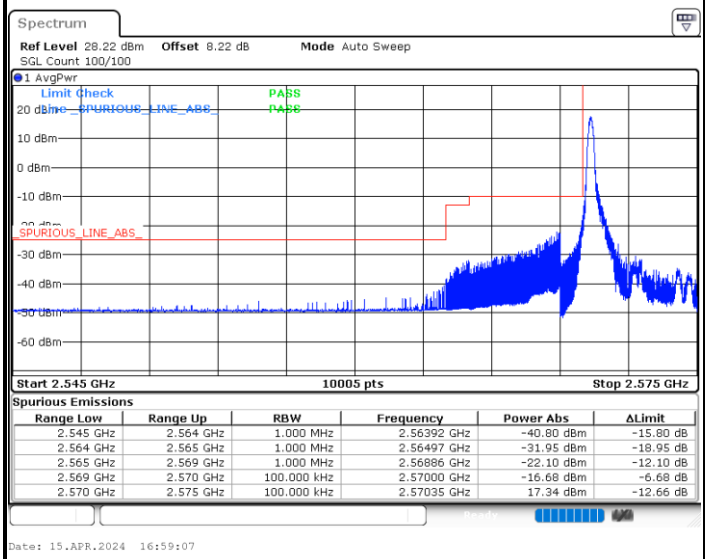

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.615 GHz | 2.620 GHz | 100.000 kHz | 2.61577 GHz | 4.62 dBm | -25.38 dB |
| 2.620 GHz | 2.621 GHz | 100.000 kHz | 2.62001 GHz | -29.75 dBm | -19.75 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62108 GHz | -24.74 dBm | -14.74 dB |
| 2.625 GHz | 2.626 GHz | 1.000 MHz | 2.62500 GHz | -33.56 dBm | -20.56 dB |
| 2.626 GHz | 2.645 GHz | 1.000 MHz | 2.62603 GHz | -36.03 dBm | -11.03 dB |

Date: 15.APR.2024 17:06:31

## LTE Band 38 / 5MHz / 16QAM

### Lowest Band Edge / 1RB

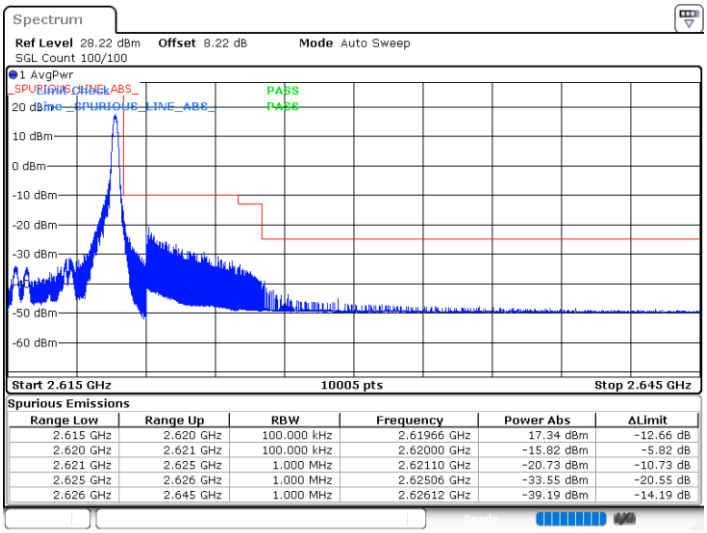



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.564 GHz | 1.000 MHz | 2.56392 GHz | -40.80 dBm | -15.80 dB |
| 2.564 GHz | 2.565 GHz | 1.000 MHz | 2.56497 GHz | -31.95 dBm | -18.95 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56886 GHz | -22.10 dBm | -12.10 dB |
| 2.569 GHz | 2.570 GHz | 100.000 kHz | 2.57000 GHz | -16.68 dBm | -6.68 dB |
| 2.570 GHz | 2.575 GHz | 100.000 kHz | 2.57035 GHz | 17.34 dBm | -12.66 dB |

Date: 15.APR.2024 16:59:07

### Highest Band Edge / 1 RB

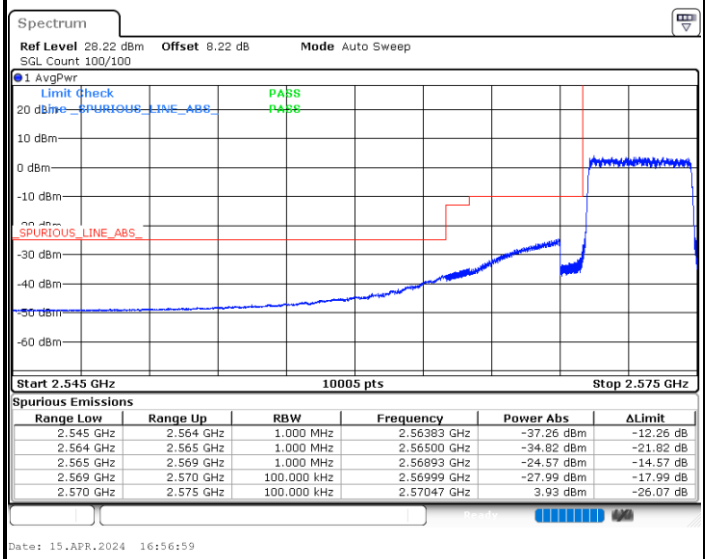



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.615 GHz | 2.620 GHz | 100.000 kHz | 2.61966 GHz | 17.34 dBm | -12.66 dB |
| 2.620 GHz | 2.621 GHz | 100.000 kHz | 2.62000 GHz | -15.82 dBm | -5.82 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62110 GHz | -20.73 dBm | -10.73 dB |
| 2.625 GHz | 2.626 GHz | 1.000 MHz | 2.62506 GHz | -33.55 dBm | -20.55 dB |
| 2.626 GHz | 2.645 GHz | 1.000 MHz | 2.62612 GHz | -39.19 dBm | -14.19 dB |

Date: 15.APR.2024 17:05:06

### Lowest Band Edge / Full RB

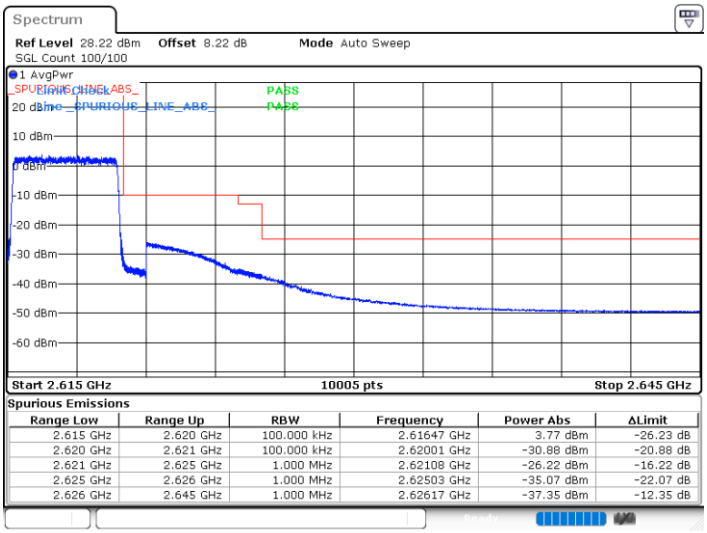



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.564 GHz | 1.000 MHz | 2.56383 GHz | -37.26 dBm | -12.26 dB |
| 2.564 GHz | 2.565 GHz | 1.000 MHz | 2.56500 GHz | -34.82 dBm | -21.82 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56893 GHz | -24.57 dBm | -14.57 dB |
| 2.569 GHz | 2.570 GHz | 100.000 kHz | 2.56999 GHz | -27.99 dBm | -17.99 dB |
| 2.570 GHz | 2.575 GHz | 100.000 kHz | 2.57047 GHz | 3.93 dBm | -26.07 dB |

Date: 15.APR.2024 16:56:59

### Highest Band Edge / Full RB



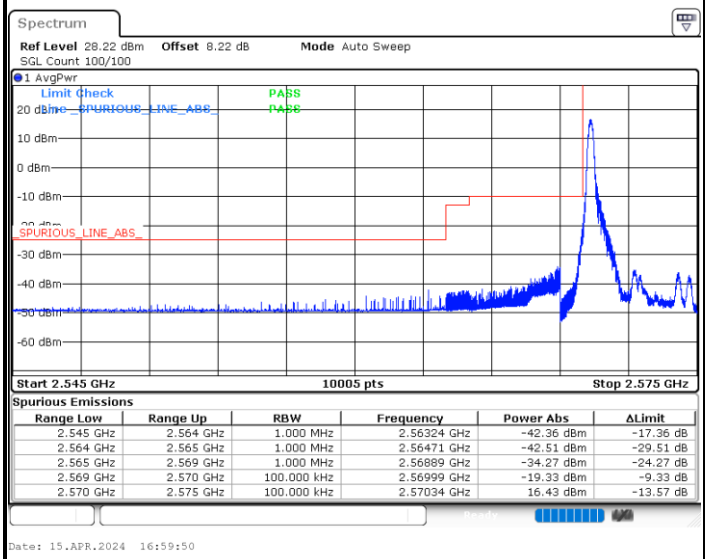

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.615 GHz | 2.620 GHz | 100.000 kHz | 2.61647 GHz | 3.77 dBm | -26.23 dB |
| 2.620 GHz | 2.621 GHz | 100.000 kHz | 2.62001 GHz | -30.88 dBm | -20.88 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62108 GHz | -26.22 dBm | -16.22 dB |
| 2.625 GHz | 2.626 GHz | 1.000 MHz | 2.62503 GHz | -35.07 dBm | -22.07 dB |
| 2.626 GHz | 2.645 GHz | 1.000 MHz | 2.62617 GHz | -37.35 dBm | -12.35 dB |

Date: 15.APR.2024 17:07:13

## LTE Band 38 / 5MHz / 64QAM

### Lowest Band Edge / 1RB

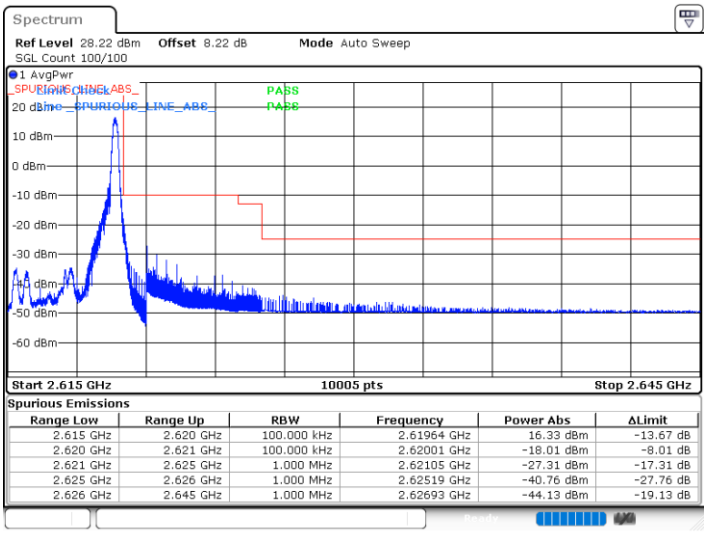



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.564 GHz | 1.000 MHz | 2.56324 GHz | -42.36 dBm | -17.36 dB |
| 2.564 GHz | 2.565 GHz | 1.000 MHz | 2.56471 GHz | -42.51 dBm | -29.51 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56889 GHz | -34.27 dBm | -24.27 dB |
| 2.569 GHz | 2.570 GHz | 100.000 kHz | 2.56999 GHz | -19.33 dBm | -9.33 dB |
| 2.570 GHz | 2.575 GHz | 100.000 kHz | 2.57034 GHz | 16.43 dBm | -13.57 dB |

Date: 15.APR.2024 16:59:50

### Highest Band Edge / 1 RB

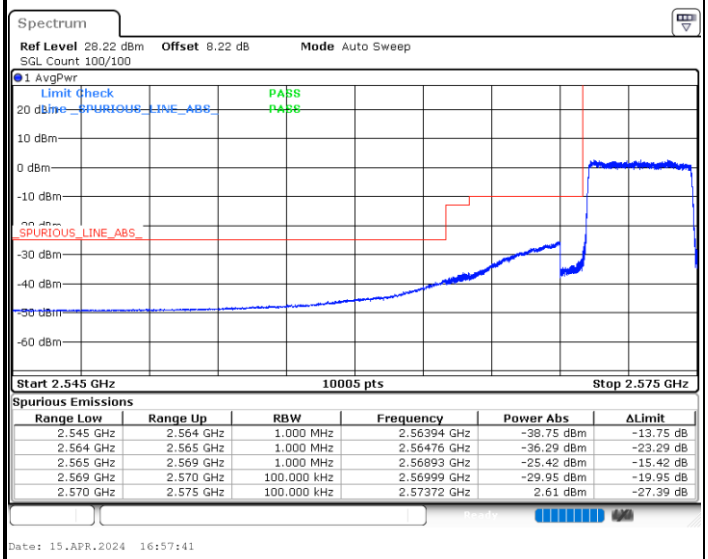



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.615 GHz | 2.620 GHz | 100.000 kHz | 2.61964 GHz | 16.33 dBm | -13.67 dB |
| 2.620 GHz | 2.621 GHz | 100.000 kHz | 2.62001 GHz | -18.01 dBm | -8.01 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62105 GHz | -27.31 dBm | -17.31 dB |
| 2.625 GHz | 2.626 GHz | 1.000 MHz | 2.62519 GHz | -40.76 dBm | -27.76 dB |
| 2.626 GHz | 2.645 GHz | 1.000 MHz | 2.62693 GHz | -44.13 dBm | -19.13 dB |

Date: 15.APR.2024 17:05:49

### Lowest Band Edge / Full RB

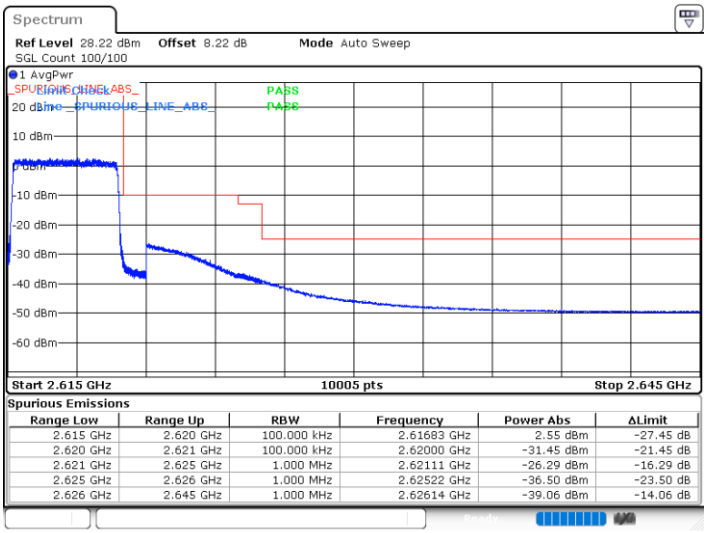



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.564 GHz | 1.000 MHz | 2.56394 GHz | -38.75 dBm | -13.75 dB |
| 2.564 GHz | 2.565 GHz | 1.000 MHz | 2.56476 GHz | -36.29 dBm | -23.29 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56893 GHz | -25.42 dBm | -15.42 dB |
| 2.569 GHz | 2.570 GHz | 100.000 kHz | 2.56999 GHz | -29.95 dBm | -19.95 dB |
| 2.570 GHz | 2.575 GHz | 100.000 kHz | 2.57372 GHz | 2.61 dBm | -27.39 dB |

Date: 15.APR.2024 16:57:41

### Highest Band Edge / Full RB



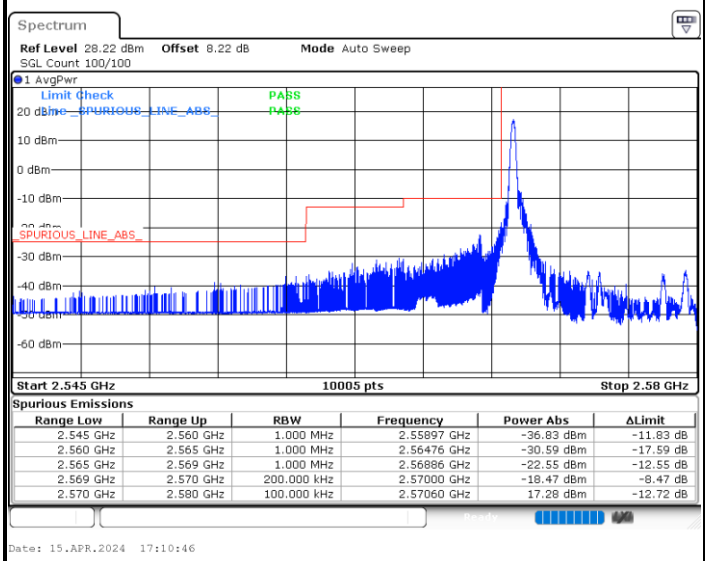

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.615 GHz | 2.620 GHz | 100.000 kHz | 2.61683 GHz | 2.55 dBm | -27.45 dB |
| 2.620 GHz | 2.621 GHz | 100.000 kHz | 2.62000 GHz | -31.45 dBm | -21.45 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62111 GHz | -26.29 dBm | -16.29 dB |
| 2.625 GHz | 2.626 GHz | 1.000 MHz | 2.62522 GHz | -36.50 dBm | -23.50 dB |
| 2.626 GHz | 2.645 GHz | 1.000 MHz | 2.62614 GHz | -39.06 dBm | -14.06 dB |

Date: 15.APR.2024 17:07:56

## LTE Band 38 / 10MHz / QPSK

### Lowest Band Edge / 1 RB

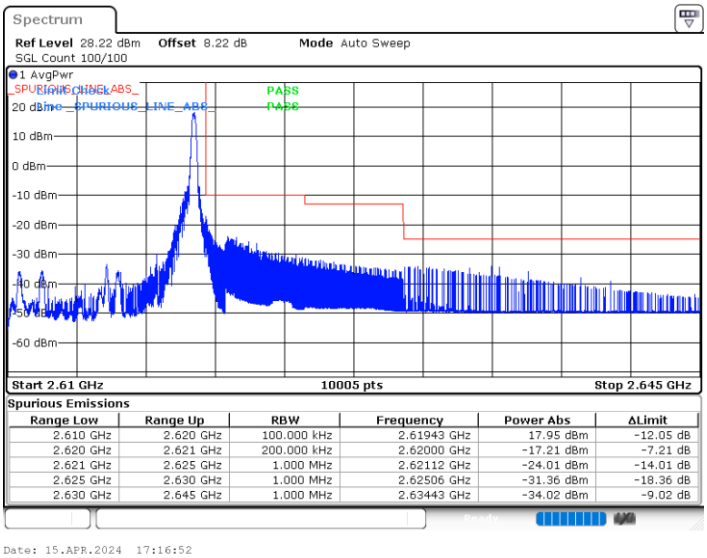



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.560 GHz | 1.000 MHz | 2.55897 GHz | -36.83 dBm | -11.83 dB |
| 2.560 GHz | 2.565 GHz | 1.000 MHz | 2.56476 GHz | -30.59 dBm | -17.59 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56886 GHz | -22.55 dBm | -12.55 dB |
| 2.569 GHz | 2.570 GHz | 200.000 kHz | 2.57000 GHz | -18.47 dBm | -8.47 dB |
| 2.570 GHz | 2.580 GHz | 100.000 kHz | 2.57060 GHz | 17.28 dBm | -12.72 dB |

Date: 15.APR.2024 17:10:46

### Highest Band Edge / 1 RB

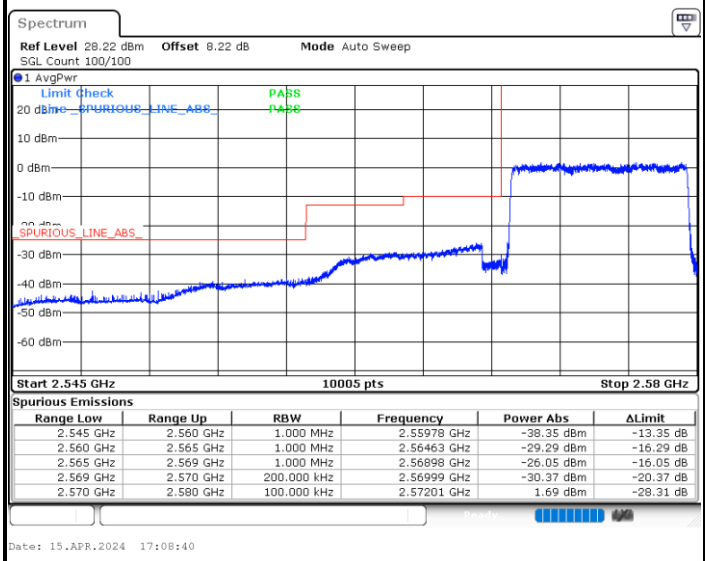



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.610 GHz | 2.620 GHz | 100.000 kHz | 2.61943 GHz | 17.95 dBm | -12.05 dB |
| 2.620 GHz | 2.621 GHz | 200.000 kHz | 2.62000 GHz | -17.21 dBm | -7.21 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62112 GHz | -24.01 dBm | -14.01 dB |
| 2.625 GHz | 2.630 GHz | 1.000 MHz | 2.62506 GHz | -31.36 dBm | -18.36 dB |
| 2.630 GHz | 2.645 GHz | 1.000 MHz | 2.63443 GHz | -34.02 dBm | -9.02 dB |

Date: 15.APR.2024 17:16:52

### Lowest Band Edge / Full RB

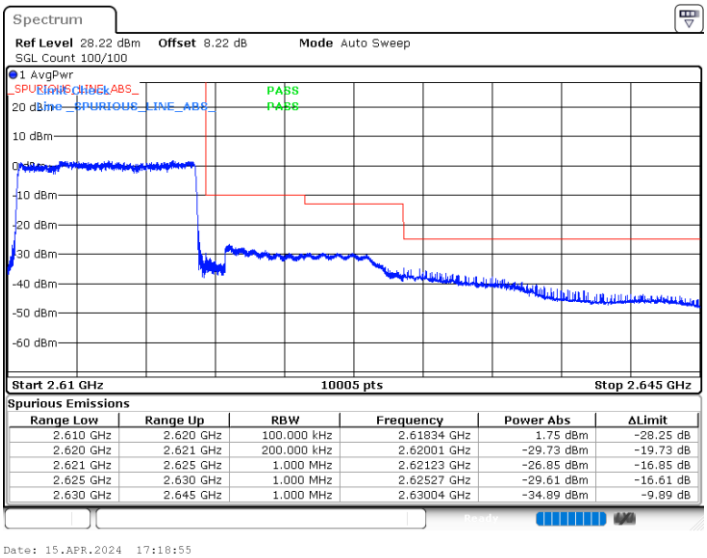



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.560 GHz | 1.000 MHz | 2.55978 GHz | -38.35 dBm | -13.35 dB |
| 2.560 GHz | 2.565 GHz | 1.000 MHz | 2.56463 GHz | -29.29 dBm | -16.29 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56898 GHz | -26.05 dBm | -16.05 dB |
| 2.569 GHz | 2.570 GHz | 200.000 kHz | 2.56999 GHz | -30.37 dBm | -20.37 dB |
| 2.570 GHz | 2.580 GHz | 100.000 kHz | 2.57201 GHz | 1.69 dBm | -28.31 dB |

Date: 15.APR.2024 17:08:40

### Highest Band Edge / Full RB



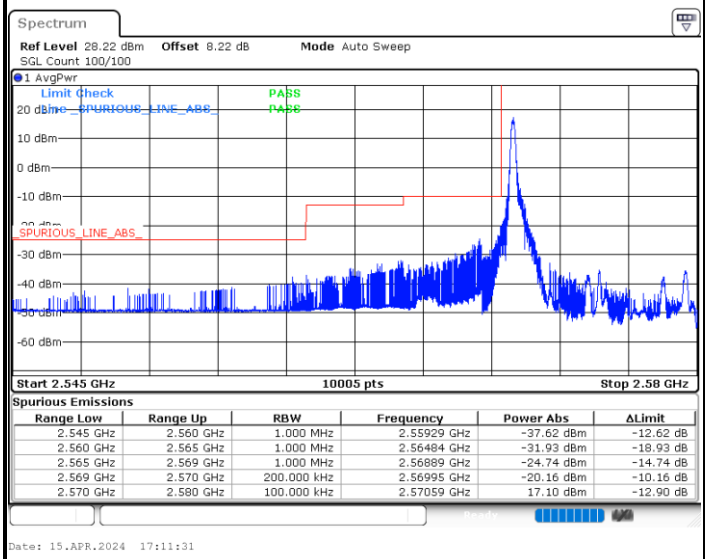

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.610 GHz | 2.620 GHz | 100.000 kHz | 2.61834 GHz | 1.75 dBm | -28.25 dB |
| 2.620 GHz | 2.621 GHz | 200.000 kHz | 2.62001 GHz | -29.73 dBm | -19.73 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62123 GHz | -26.85 dBm | -16.85 dB |
| 2.625 GHz | 2.630 GHz | 1.000 MHz | 2.62527 GHz | -29.61 dBm | -16.61 dB |
| 2.630 GHz | 2.645 GHz | 1.000 MHz | 2.63004 GHz | -34.89 dBm | -9.89 dB |

Date: 15.APR.2024 17:18:55

## LTE Band 38 / 10MHz / 16QAM

### Lowest Band Edge / 1 RB

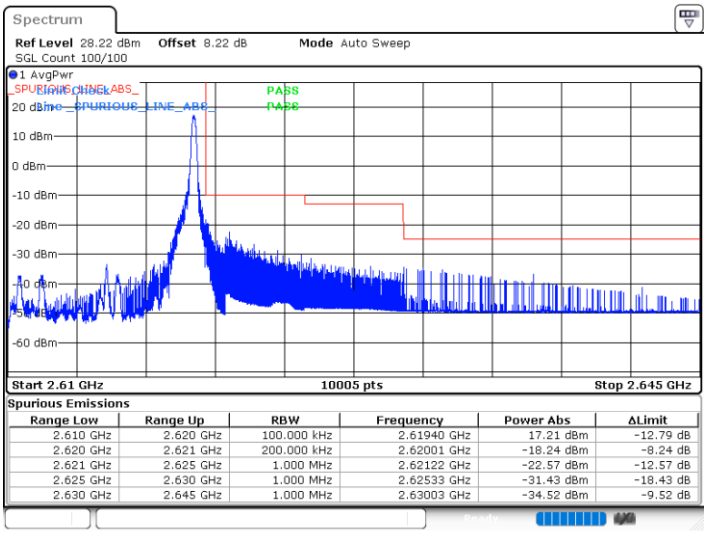



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.560 GHz | 1.000 MHz | 2.55929 GHz | -37.62 dBm | -12.62 dB |
| 2.560 GHz | 2.565 GHz | 1.000 MHz | 2.56484 GHz | -31.93 dBm | -18.93 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56889 GHz | -24.74 dBm | -14.74 dB |
| 2.569 GHz | 2.570 GHz | 200.000 kHz | 2.56995 GHz | -20.16 dBm | -10.16 dB |
| 2.570 GHz | 2.580 GHz | 100.000 kHz | 2.57059 GHz | 17.10 dBm | -12.90 dB |

Date: 15.APR.2024 17:11:31

### Highest Band Edge / 1 RB

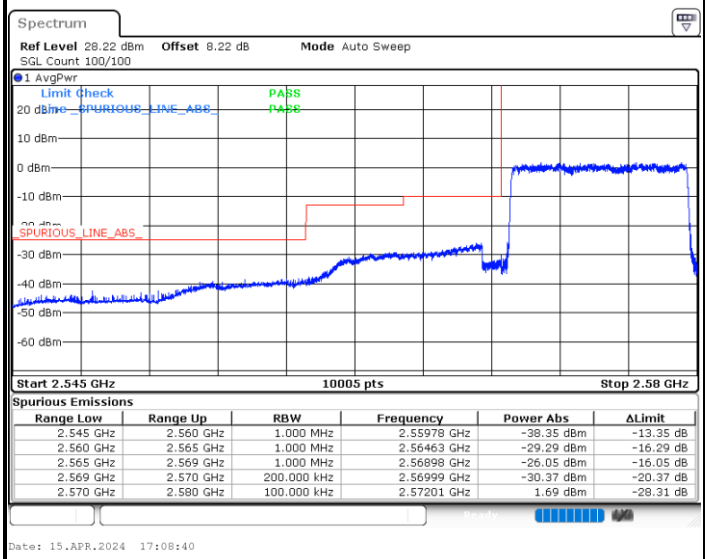



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.610 GHz | 2.620 GHz | 100.000 kHz | 2.61940 GHz | 17.21 dBm | -12.79 dB |
| 2.620 GHz | 2.621 GHz | 200.000 kHz | 2.62001 GHz | -18.24 dBm | -8.24 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62122 GHz | -22.57 dBm | -12.57 dB |
| 2.625 GHz | 2.630 GHz | 1.000 MHz | 2.62533 GHz | -31.43 dBm | -18.43 dB |
| 2.630 GHz | 2.645 GHz | 1.000 MHz | 2.63003 GHz | -34.52 dBm | -9.52 dB |

Date: 15.APR.2024 17:17:33

### Lowest Band Edge / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.560 GHz | 1.000 MHz | 2.55978 GHz | -38.35 dBm | -13.35 dB |
| 2.560 GHz | 2.565 GHz | 1.000 MHz | 2.56463 GHz | -29.29 dBm | -16.29 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56898 GHz | -26.05 dBm | -16.05 dB |
| 2.569 GHz | 2.570 GHz | 200.000 kHz | 2.56999 GHz | -30.37 dBm | -20.37 dB |
| 2.570 GHz | 2.580 GHz | 100.000 kHz | 2.57201 GHz | 1.69 dBm | -28.31 dB |

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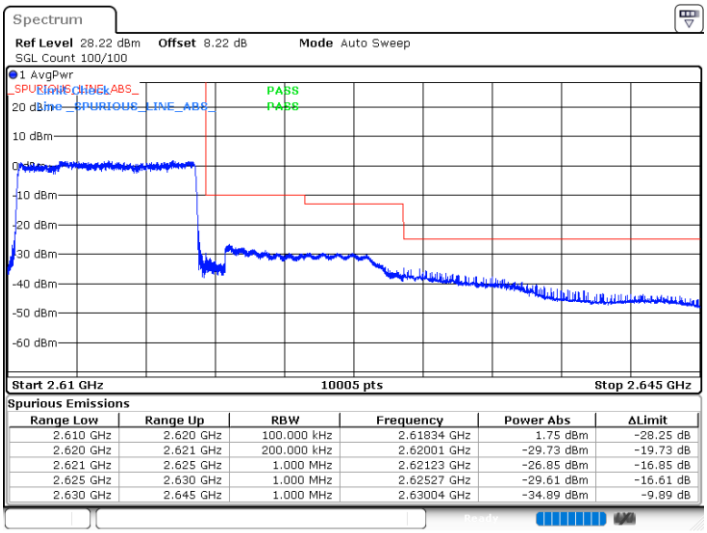
### Highest Band Edge / Full RB



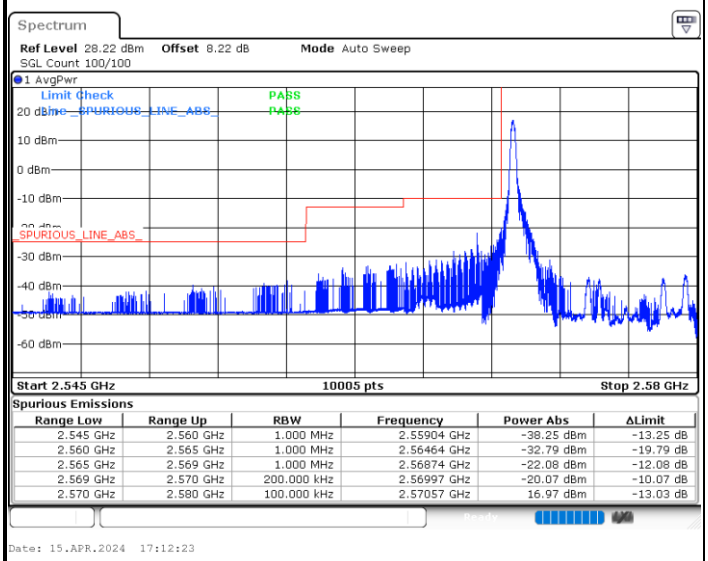

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.610 GHz | 2.620 GHz | 100.000 kHz | 2.61834 GHz | 1.75 dBm | -28.25 dB |
| 2.620 GHz | 2.621 GHz | 200.000 kHz | 2.62001 GHz | -29.73 dBm | -19.73 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62123 GHz | -26.85 dBm | -16.85 dB |
| 2.625 GHz | 2.630 GHz | 1.000 MHz | 2.62527 GHz | -29.61 dBm | -16.61 dB |
| 2.630 GHz | 2.645 GHz | 1.000 MHz | 2.63004 GHz | -34.89 dBm | -9.89 dB |

Date: 15.APR.2024 17:18:55

## LTE Band 38 / 10MHz / 64QAM

### Lowest Band Edge / 1 RB

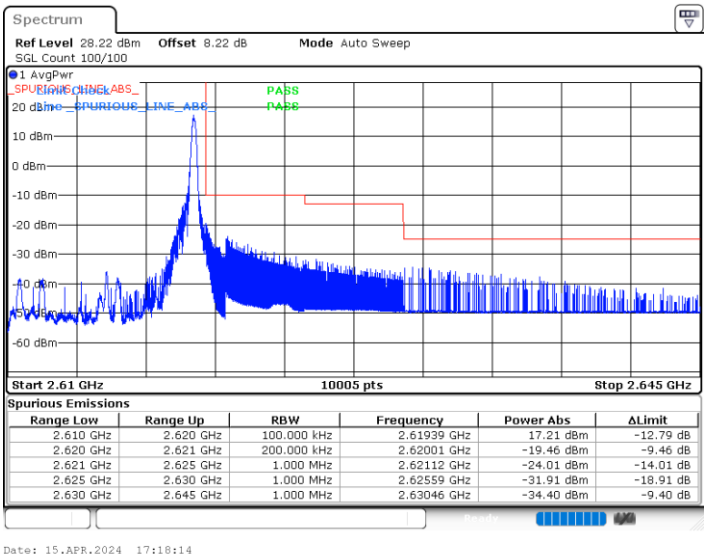



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.560 GHz | 1.000 MHz | 2.55904 GHz | -38.25 dBm | -13.25 dB |
| 2.560 GHz | 2.565 GHz | 1.000 MHz | 2.56464 GHz | -32.79 dBm | -19.79 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56874 GHz | -22.08 dBm | -12.08 dB |
| 2.569 GHz | 2.570 GHz | 200.000 kHz | 2.56997 GHz | -20.07 dBm | -10.07 dB |
| 2.570 GHz | 2.580 GHz | 100.000 kHz | 2.57057 GHz | 16.97 dBm | -13.03 dB |

Date: 15.APR.2024 17:12:23

### Highest Band Edge / 1 RB

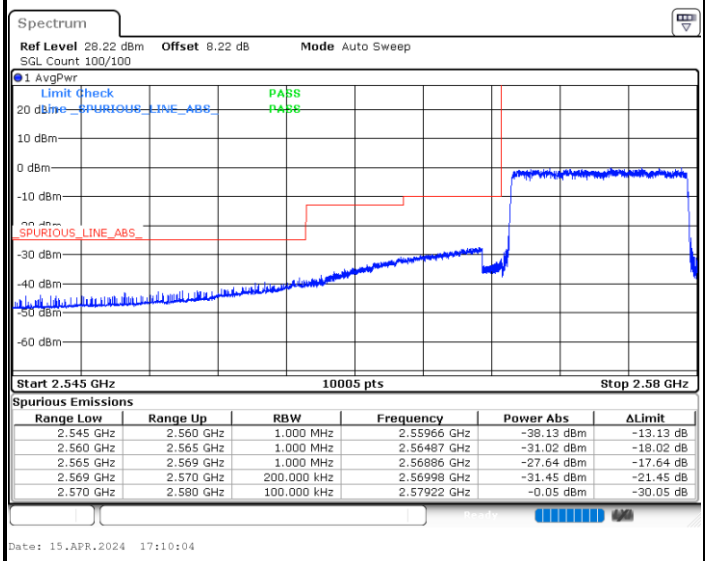



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.610 GHz | 2.620 GHz | 100.000 kHz | 2.61939 GHz | 17.21 dBm | -12.79 dB |
| 2.620 GHz | 2.621 GHz | 200.000 kHz | 2.62001 GHz | -19.46 dBm | -9.46 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62112 GHz | -24.01 dBm | -14.01 dB |
| 2.625 GHz | 2.630 GHz | 1.000 MHz | 2.62559 GHz | -31.91 dBm | -18.91 dB |
| 2.630 GHz | 2.645 GHz | 1.000 MHz | 2.63046 GHz | -34.40 dBm | -9.40 dB |

Date: 15.APR.2024 17:18:14

### Lowest Band Edge / Full RB

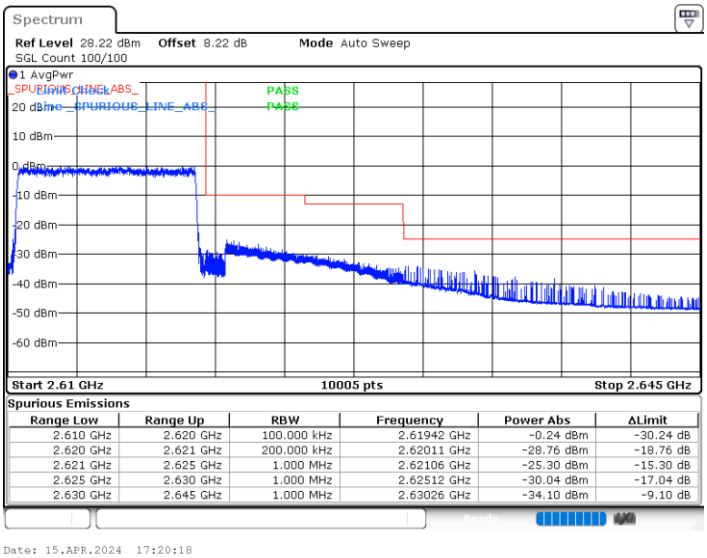



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.560 GHz | 1.000 MHz | 2.55966 GHz | -38.13 dBm | -13.13 dB |
| 2.560 GHz | 2.565 GHz | 1.000 MHz | 2.56487 GHz | -31.02 dBm | -18.02 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56886 GHz | -27.64 dBm | -17.64 dB |
| 2.569 GHz | 2.570 GHz | 200.000 kHz | 2.56998 GHz | -31.45 dBm | -21.45 dB |
| 2.570 GHz | 2.580 GHz | 100.000 kHz | 2.57922 GHz | -0.05 dBm | -30.05 dB |

Date: 15.APR.2024 17:10:04

### Highest Band Edge / Full RB



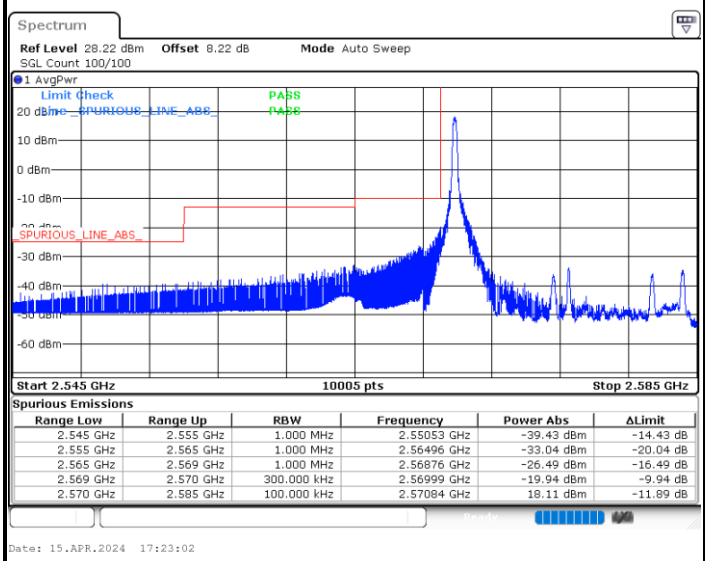

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.610 GHz | 2.620 GHz | 100.000 kHz | 2.61942 GHz | -0.24 dBm | -30.24 dB |
| 2.620 GHz | 2.621 GHz | 200.000 kHz | 2.62011 GHz | -28.76 dBm | -18.76 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62106 GHz | -25.30 dBm | -15.30 dB |
| 2.625 GHz | 2.630 GHz | 1.000 MHz | 2.62512 GHz | -30.04 dBm | -17.04 dB |
| 2.630 GHz | 2.645 GHz | 1.000 MHz | 2.63026 GHz | -34.10 dBm | -9.10 dB |

Date: 15.APR.2024 17:20:18

## LTE Band 38 / 15MHz / QPSK

### Lowest Band Edge / 1 RB

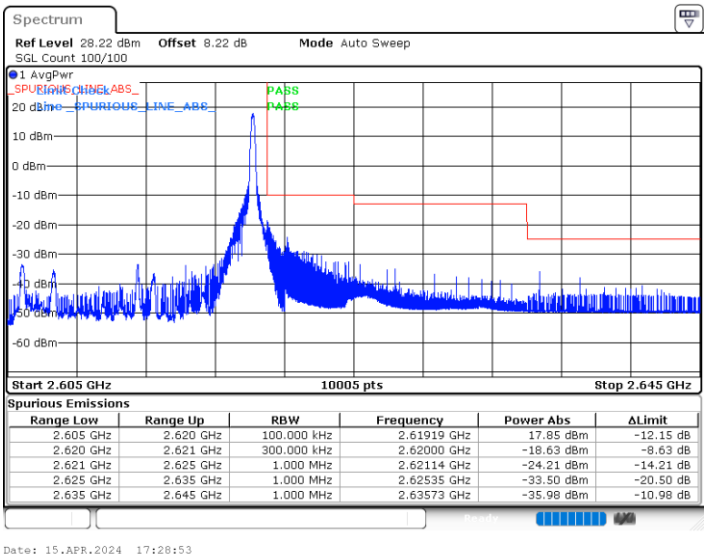



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.555 GHz | 1.000 MHz | 2.55053 GHz | -39.43 dBm | -14.43 dB |
| 2.555 GHz | 2.565 GHz | 1.000 MHz | 2.56496 GHz | -33.04 dBm | -20.04 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56876 GHz | -26.49 dBm | -16.49 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.56999 GHz | -19.94 dBm | -9.94 dB |
| 2.570 GHz | 2.585 GHz | 100.000 kHz | 2.57084 GHz | 18.11 dBm | -11.89 dB |

Date: 15.APR.2024 17:23:02

### Highest Band Edge / 1 RB

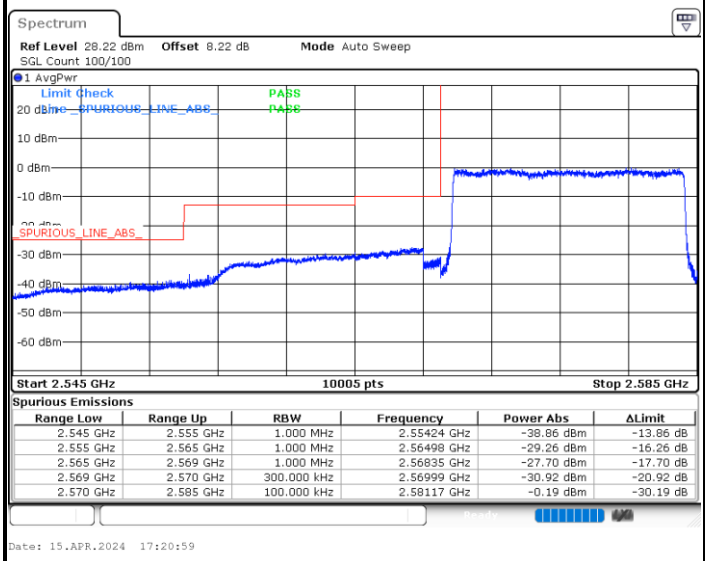



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.605 GHz | 2.620 GHz | 100.000 kHz | 2.61919 GHz | 17.85 dBm | -12.15 dB |
| 2.620 GHz | 2.621 GHz | 300.000 kHz | 2.62000 GHz | -18.63 dBm | -8.63 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62114 GHz | -24.21 dBm | -14.21 dB |
| 2.625 GHz | 2.635 GHz | 1.000 MHz | 2.62535 GHz | -33.50 dBm | -20.50 dB |
| 2.635 GHz | 2.645 GHz | 1.000 MHz | 2.63573 GHz | -35.98 dBm | -10.98 dB |

Date: 15.APR.2024 17:28:53

### Lowest Band Edge / Full RB

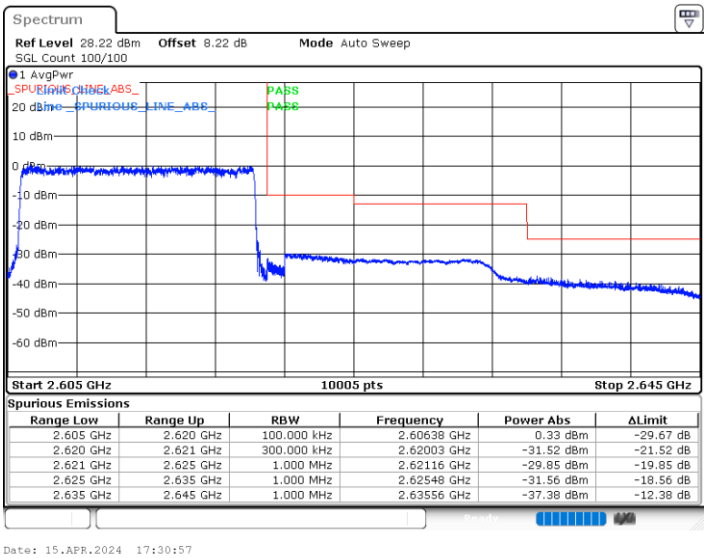



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.555 GHz | 1.000 MHz | 2.55424 GHz | -38.86 dBm | -13.86 dB |
| 2.555 GHz | 2.565 GHz | 1.000 MHz | 2.56498 GHz | -29.26 dBm | -16.26 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56835 GHz | -27.70 dBm | -17.70 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.56999 GHz | -30.92 dBm | -20.92 dB |
| 2.570 GHz | 2.585 GHz | 100.000 kHz | 2.58117 GHz | -0.19 dBm | -30.19 dB |

Date: 15.APR.2024 17:20:59

### Highest Band Edge / Full RB



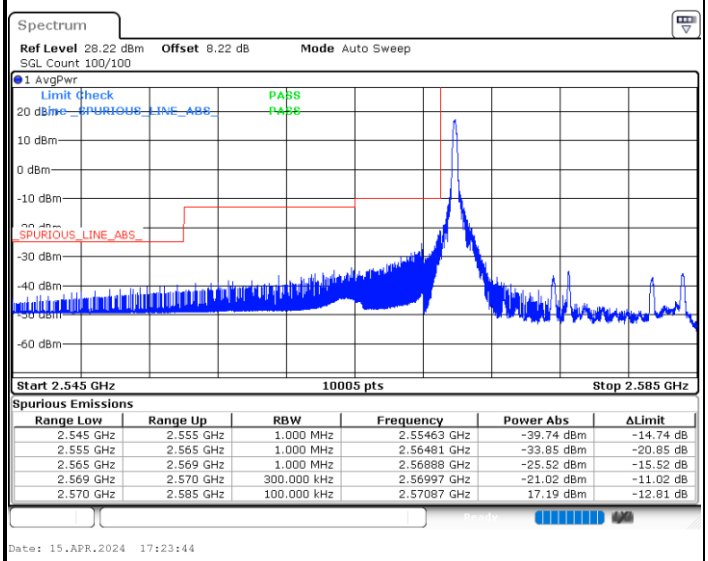

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.605 GHz | 2.620 GHz | 100.000 kHz | 2.60638 GHz | 0.33 dBm | -29.67 dB |
| 2.620 GHz | 2.621 GHz | 300.000 kHz | 2.62003 GHz | -31.52 dBm | -21.52 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62116 GHz | -29.85 dBm | -19.85 dB |
| 2.625 GHz | 2.635 GHz | 1.000 MHz | 2.62548 GHz | -31.56 dBm | -18.56 dB |
| 2.635 GHz | 2.645 GHz | 1.000 MHz | 2.63556 GHz | -37.38 dBm | -12.38 dB |

Date: 15.APR.2024 17:30:57

## LTE Band 38 / 15MHz / 16QAM

### Lowest Band Edge / 1 RB

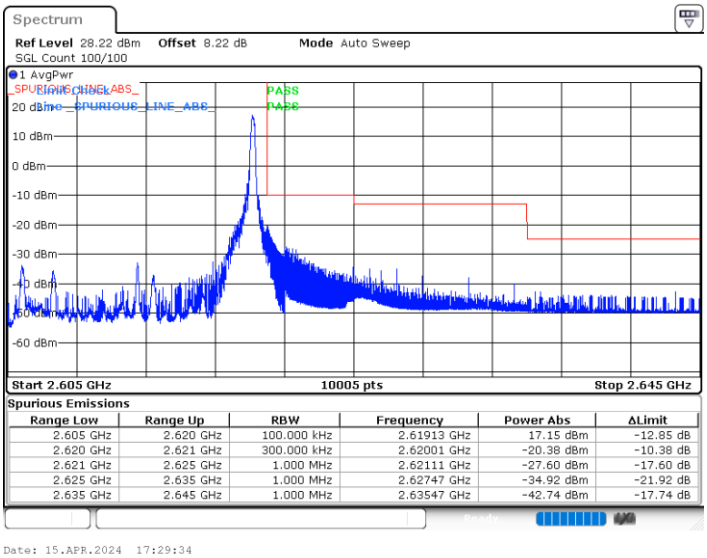



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.555 GHz | 1.000 MHz | 2.55463 GHz | -39.74 dBm | -14.74 dB |
| 2.555 GHz | 2.565 GHz | 1.000 MHz | 2.56481 GHz | -33.85 dBm | -20.85 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56888 GHz | -25.52 dBm | -15.52 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.56997 GHz | -21.02 dBm | -11.02 dB |
| 2.570 GHz | 2.585 GHz | 100.000 kHz | 2.57087 GHz | 17.19 dBm | -12.81 dB |

Date: 15.APR.2024 17:23:44

### Highest Band Edge / 1 RB

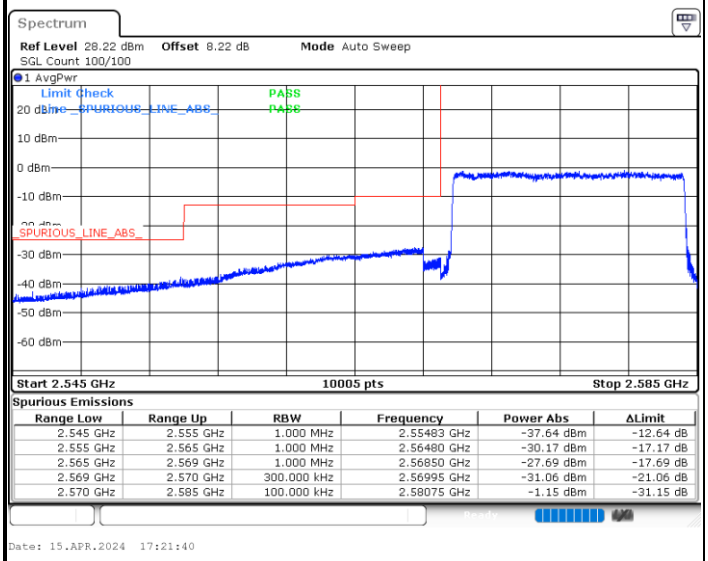



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.605 GHz | 2.620 GHz | 100.000 kHz | 2.61913 GHz | 17.15 dBm | -12.85 dB |
| 2.620 GHz | 2.621 GHz | 300.000 kHz | 2.62001 GHz | -20.38 dBm | -10.38 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62111 GHz | -27.60 dBm | -17.60 dB |
| 2.625 GHz | 2.635 GHz | 1.000 MHz | 2.62747 GHz | -34.92 dBm | -21.92 dB |
| 2.635 GHz | 2.645 GHz | 1.000 MHz | 2.63547 GHz | -42.74 dBm | -17.74 dB |

Date: 15.APR.2024 17:29:34

### Lowest Band Edge / Full RB

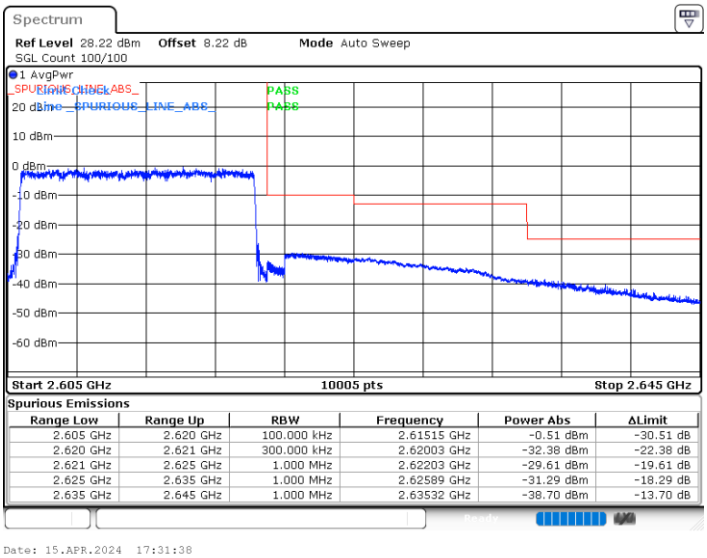



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.555 GHz | 1.000 MHz | 2.55483 GHz | -37.64 dBm | -12.64 dB |
| 2.555 GHz | 2.565 GHz | 1.000 MHz | 2.56480 GHz | -30.17 dBm | -17.17 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56850 GHz | -27.69 dBm | -17.69 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.56995 GHz | -31.06 dBm | -21.06 dB |
| 2.570 GHz | 2.585 GHz | 100.000 kHz | 2.58075 GHz | -1.15 dBm | -31.15 dB |

Date: 15.APR.2024 17:21:40

### Highest Band Edge / Full RB



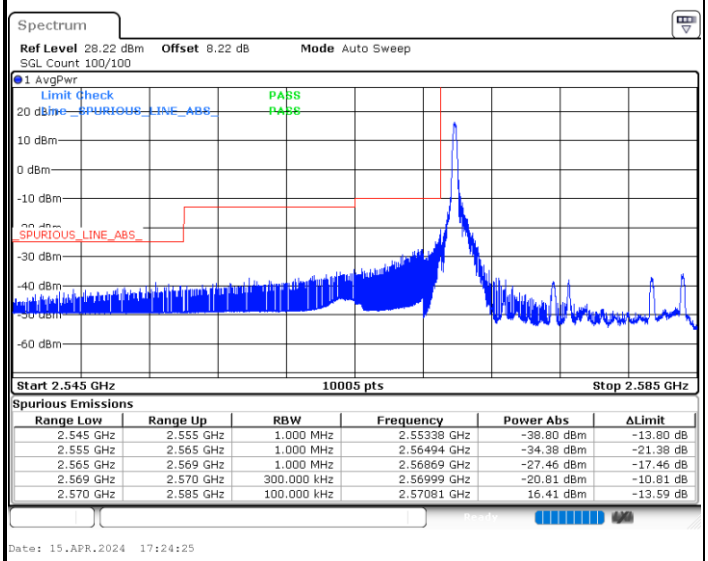

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.605 GHz | 2.620 GHz | 100.000 kHz | 2.61515 GHz | -0.51 dBm | -30.51 dB |
| 2.620 GHz | 2.621 GHz | 300.000 kHz | 2.62003 GHz | -32.38 dBm | -22.38 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62203 GHz | -29.61 dBm | -19.61 dB |
| 2.625 GHz | 2.635 GHz | 1.000 MHz | 2.62589 GHz | -31.29 dBm | -18.29 dB |
| 2.635 GHz | 2.645 GHz | 1.000 MHz | 2.63532 GHz | -38.70 dBm | -13.70 dB |

Date: 15.APR.2024 17:31:38

## LTE Band 38 / 15MHz / 64QAM

### Lowest Band Edge / 1 RB

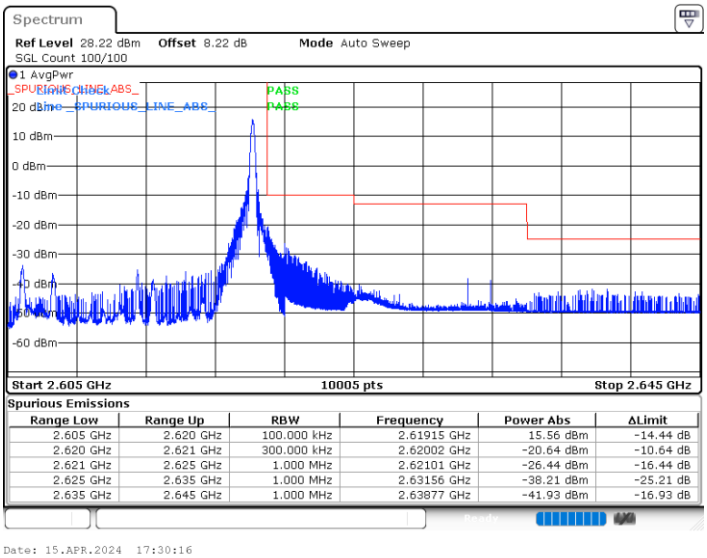



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.555 GHz | 1.000 MHz | 2.55338 GHz | -38.80 dBm | -13.80 dB |
| 2.555 GHz | 2.565 GHz | 1.000 MHz | 2.56494 GHz | -34.38 dBm | -21.38 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56869 GHz | -27.46 dBm | -17.46 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.56999 GHz | -20.81 dBm | -10.81 dB |
| 2.570 GHz | 2.585 GHz | 100.000 kHz | 2.57081 GHz | 16.41 dBm | -13.59 dB |

Date: 15.APR.2024 17:24:25

### Highest Band Edge / 1 RB

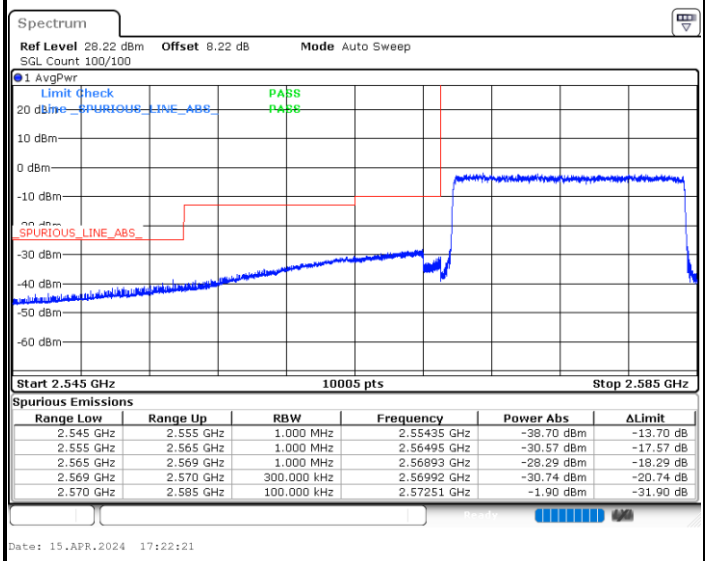



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.605 GHz | 2.620 GHz | 100.000 kHz | 2.61915 GHz | 15.56 dBm | -14.44 dB |
| 2.620 GHz | 2.621 GHz | 300.000 kHz | 2.62002 GHz | -20.64 dBm | -10.64 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62101 GHz | -26.44 dBm | -16.44 dB |
| 2.625 GHz | 2.635 GHz | 1.000 MHz | 2.63156 GHz | -38.21 dBm | -25.21 dB |
| 2.635 GHz | 2.645 GHz | 1.000 MHz | 2.63877 GHz | -41.93 dBm | -16.93 dB |

Date: 15.APR.2024 17:30:16

### Lowest Band Edge / Full RB

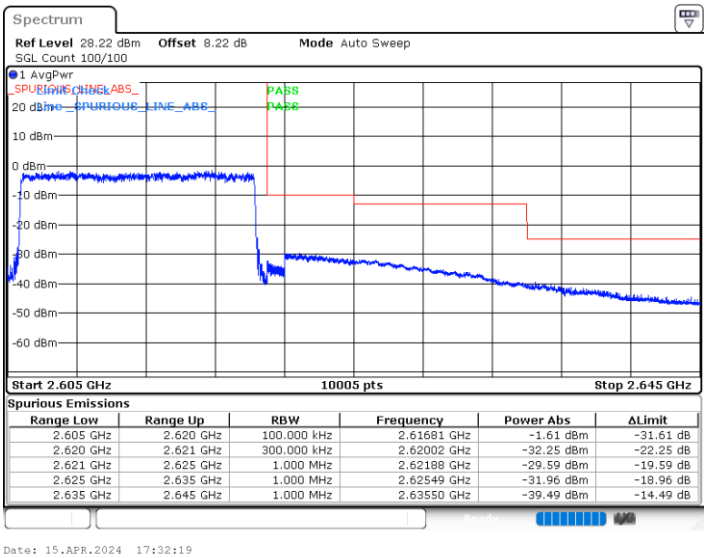



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.555 GHz | 1.000 MHz | 2.55435 GHz | -38.70 dBm | -13.70 dB |
| 2.555 GHz | 2.565 GHz | 1.000 MHz | 2.56495 GHz | -30.57 dBm | -17.57 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56893 GHz | -28.29 dBm | -18.29 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.56992 GHz | -30.74 dBm | -20.74 dB |
| 2.570 GHz | 2.585 GHz | 100.000 kHz | 2.57251 GHz | -1.90 dBm | -31.90 dB |

Date: 15.APR.2024 17:22:21

### Highest Band Edge / Full RB



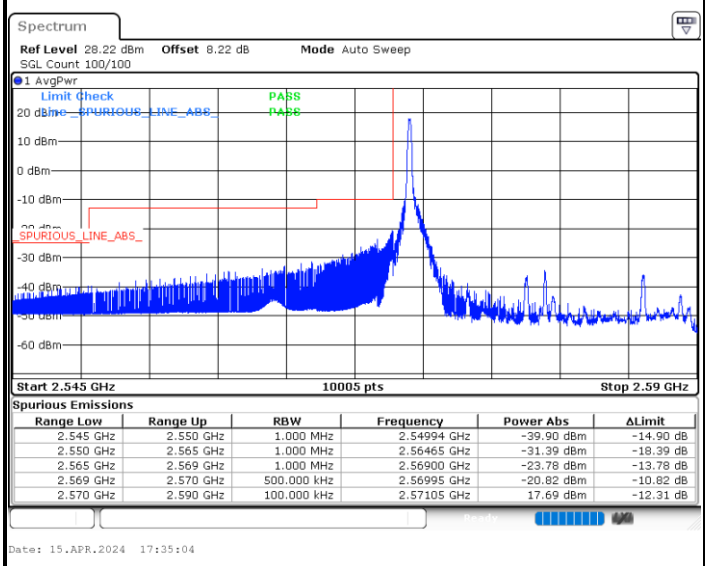

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.605 GHz | 2.620 GHz | 100.000 kHz | 2.61681 GHz | -1.61 dBm | -31.61 dB |
| 2.620 GHz | 2.621 GHz | 300.000 kHz | 2.62002 GHz | -32.25 dBm | -22.25 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62188 GHz | -29.59 dBm | -19.59 dB |
| 2.625 GHz | 2.635 GHz | 1.000 MHz | 2.62549 GHz | -31.96 dBm | -18.96 dB |
| 2.635 GHz | 2.645 GHz | 1.000 MHz | 2.63550 GHz | -39.49 dBm | -14.49 dB |

Date: 15.APR.2024 17:32:19

## LTE Band 38 / 20MHz / QPSK

### Lowest Band Edge / 1 RB

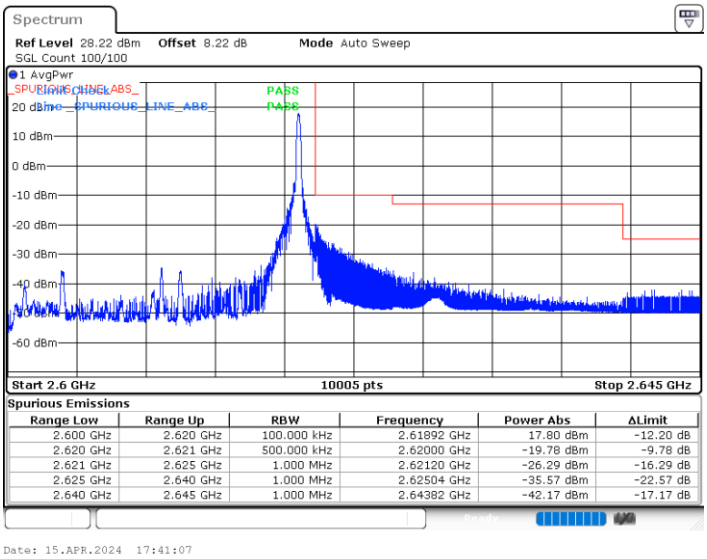



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.550 GHz | 1.000 MHz | 2.54994 GHz | -39.90 dBm | -14.90 dB |
| 2.550 GHz | 2.565 GHz | 1.000 MHz | 2.56465 GHz | -31.39 dBm | -18.39 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56900 GHz | -23.78 dBm | -13.78 dB |
| 2.569 GHz | 2.570 GHz | 500.000 kHz | 2.56995 GHz | -20.82 dBm | -10.82 dB |
| 2.570 GHz | 2.590 GHz | 100.000 kHz | 2.57105 GHz | 17.69 dBm | -12.31 dB |

Date: 15.APR.2024 17:35:04

### Highest Band Edge / 1 RB

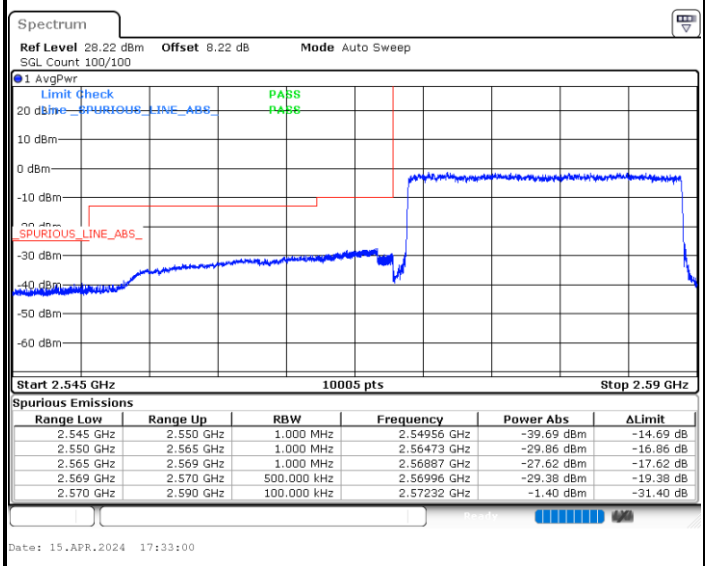



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.600 GHz | 2.620 GHz | 100.000 kHz | 2.61892 GHz | 17.80 dBm | -12.20 dB |
| 2.620 GHz | 2.621 GHz | 500.000 kHz | 2.62000 GHz | -19.78 dBm | -9.78 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62120 GHz | -26.29 dBm | -16.29 dB |
| 2.625 GHz | 2.640 GHz | 1.000 MHz | 2.62504 GHz | -35.57 dBm | -22.57 dB |
| 2.640 GHz | 2.645 GHz | 1.000 MHz | 2.64382 GHz | -42.17 dBm | -17.17 dB |

Date: 15.APR.2024 17:41:07

### Lowest Band Edge / Full RB

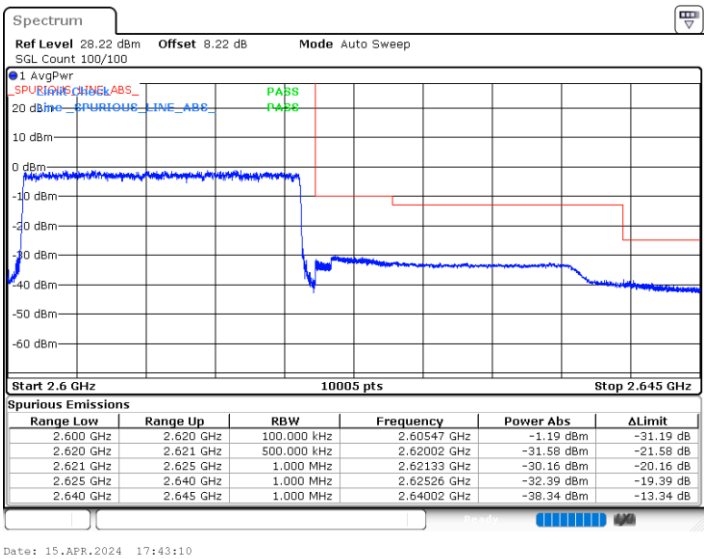



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.550 GHz | 1.000 MHz | 2.54956 GHz | -39.69 dBm | -14.69 dB |
| 2.550 GHz | 2.565 GHz | 1.000 MHz | 2.56473 GHz | -29.86 dBm | -16.86 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56887 GHz | -27.62 dBm | -17.62 dB |
| 2.569 GHz | 2.570 GHz | 500.000 kHz | 2.56996 GHz | -29.38 dBm | -19.38 dB |
| 2.570 GHz | 2.590 GHz | 100.000 kHz | 2.57232 GHz | -1.40 dBm | -31.40 dB |

Date: 15.APR.2024 17:33:00

### Highest Band Edge / Full RB



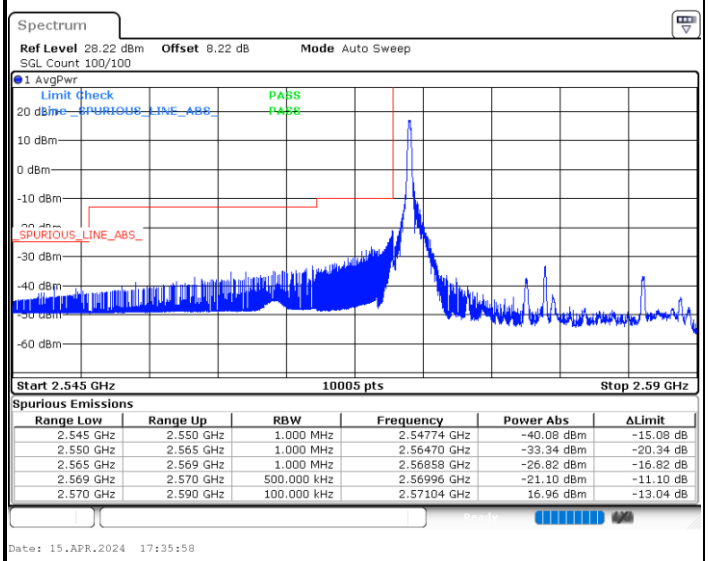

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.600 GHz | 2.620 GHz | 100.000 kHz | 2.60547 GHz | -1.19 dBm | -31.19 dB |
| 2.620 GHz | 2.621 GHz | 500.000 kHz | 2.62002 GHz | -31.58 dBm | -21.58 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62133 GHz | -30.16 dBm | -20.16 dB |
| 2.625 GHz | 2.640 GHz | 1.000 MHz | 2.62526 GHz | -32.39 dBm | -19.39 dB |
| 2.640 GHz | 2.645 GHz | 1.000 MHz | 2.64002 GHz | -38.34 dBm | -13.34 dB |

Date: 15.APR.2024 17:43:10

## LTE Band 38 / 20MHz / 16QAM

### Lowest Band Edge / 1 RB

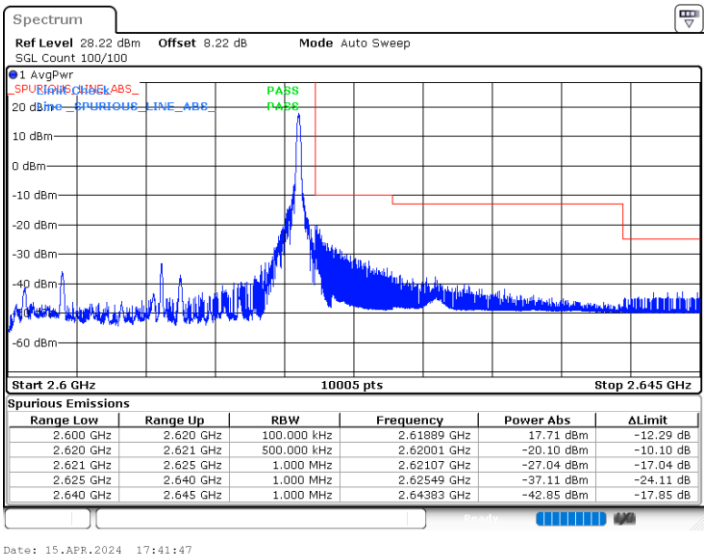



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.550 GHz | 1.000 MHz | 2.54774 GHz | -40.08 dBm | -15.08 dB |
| 2.550 GHz | 2.565 GHz | 1.000 MHz | 2.56470 GHz | -33.34 dBm | -20.34 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56858 GHz | -26.82 dBm | -16.82 dB |
| 2.569 GHz | 2.570 GHz | 500.000 kHz | 2.56996 GHz | -21.10 dBm | -11.10 dB |
| 2.570 GHz | 2.590 GHz | 100.000 kHz | 2.57104 GHz | 16.96 dBm | -13.04 dB |

Date: 15.APR.2024 17:35:58

### Highest Band Edge / 1 RB

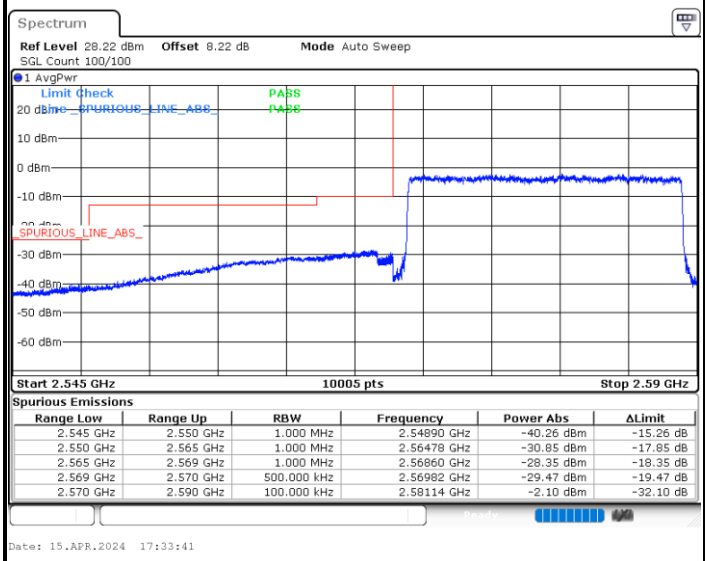



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.600 GHz | 2.620 GHz | 100.000 kHz | 2.61889 GHz | 17.71 dBm | -12.29 dB |
| 2.620 GHz | 2.621 GHz | 500.000 kHz | 2.62001 GHz | -20.10 dBm | -10.10 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62107 GHz | -27.04 dBm | -17.04 dB |
| 2.625 GHz | 2.640 GHz | 1.000 MHz | 2.62549 GHz | -37.11 dBm | -24.11 dB |
| 2.640 GHz | 2.645 GHz | 1.000 MHz | 2.64383 GHz | -42.85 dBm | -17.85 dB |

Date: 15.APR.2024 17:41:47

### Lowest Band Edge / Full RB

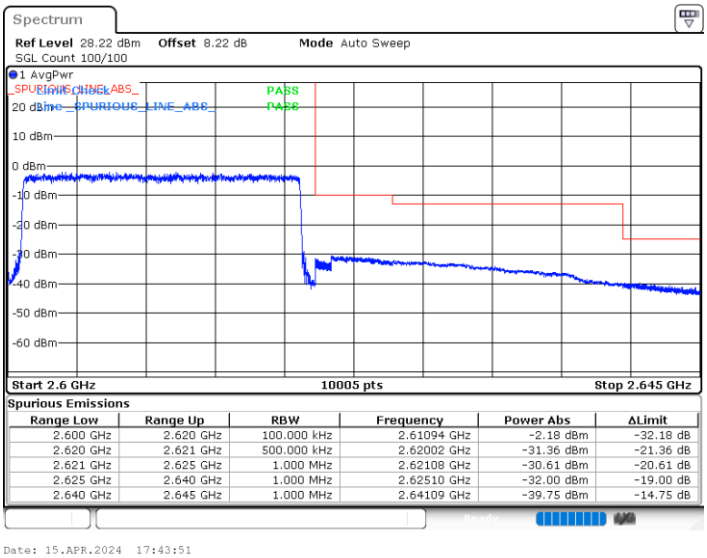



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.550 GHz | 1.000 MHz | 2.54890 GHz | -40.26 dBm | -15.26 dB |
| 2.550 GHz | 2.565 GHz | 1.000 MHz | 2.56478 GHz | -30.85 dBm | -17.85 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56860 GHz | -28.35 dBm | -18.35 dB |
| 2.569 GHz | 2.570 GHz | 500.000 kHz | 2.56982 GHz | -29.47 dBm | -19.47 dB |
| 2.570 GHz | 2.590 GHz | 100.000 kHz | 2.58114 GHz | -2.10 dBm | -32.10 dB |

Date: 15.APR.2024 17:33:41

### Highest Band Edge / Full RB



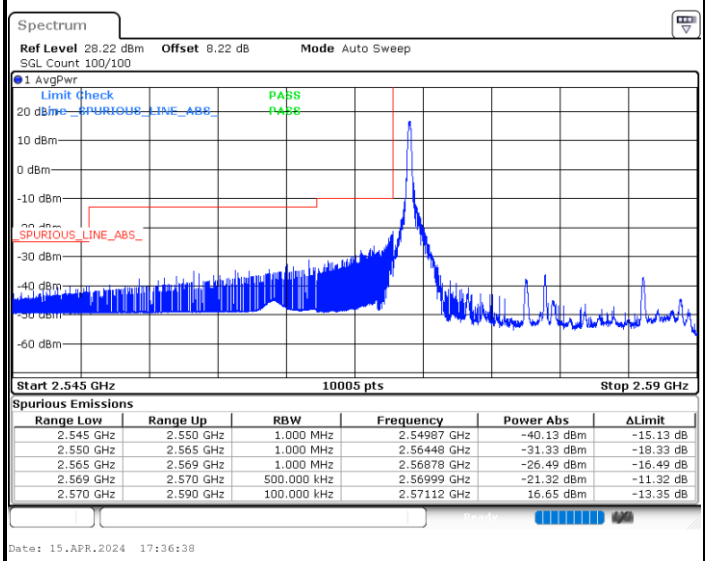

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.600 GHz | 2.620 GHz | 100.000 kHz | 2.61094 GHz | -2.18 dBm | -32.18 dB |
| 2.620 GHz | 2.621 GHz | 500.000 kHz | 2.62002 GHz | -31.36 dBm | -21.36 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62108 GHz | -30.61 dBm | -20.61 dB |
| 2.625 GHz | 2.640 GHz | 1.000 MHz | 2.62510 GHz | -32.00 dBm | -19.00 dB |
| 2.640 GHz | 2.645 GHz | 1.000 MHz | 2.64109 GHz | -39.75 dBm | -14.75 dB |

Date: 15.APR.2024 17:43:51

## LTE Band 38 / 20MHz / 64QAM

### Lowest Band Edge / 1 RB

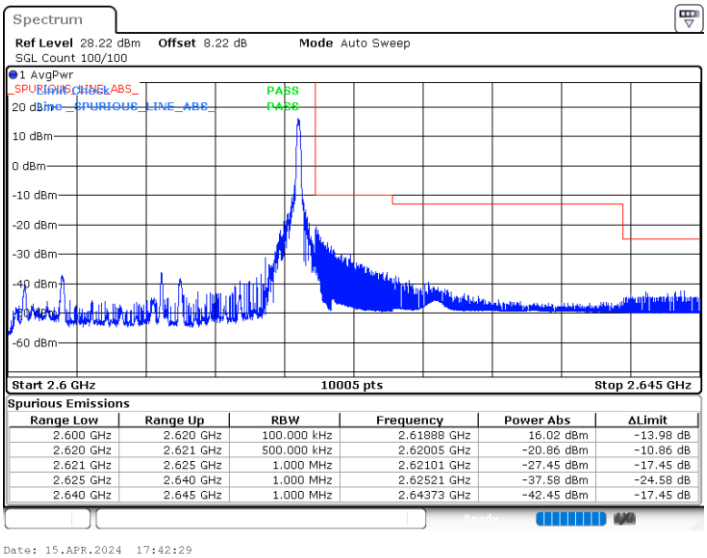



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.550 GHz | 1.000 MHz | 2.54987 GHz | -40.13 dBm | -15.13 dB |
| 2.550 GHz | 2.565 GHz | 1.000 MHz | 2.56448 GHz | -31.33 dBm | -18.33 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56878 GHz | -26.49 dBm | -16.49 dB |
| 2.569 GHz | 2.570 GHz | 500.000 kHz | 2.56999 GHz | -21.32 dBm | -11.32 dB |
| 2.570 GHz | 2.590 GHz | 100.000 kHz | 2.57112 GHz | 16.65 dBm | -13.35 dB |

Date: 15.APR.2024 17:36:38

### Highest Band Edge / 1 RB

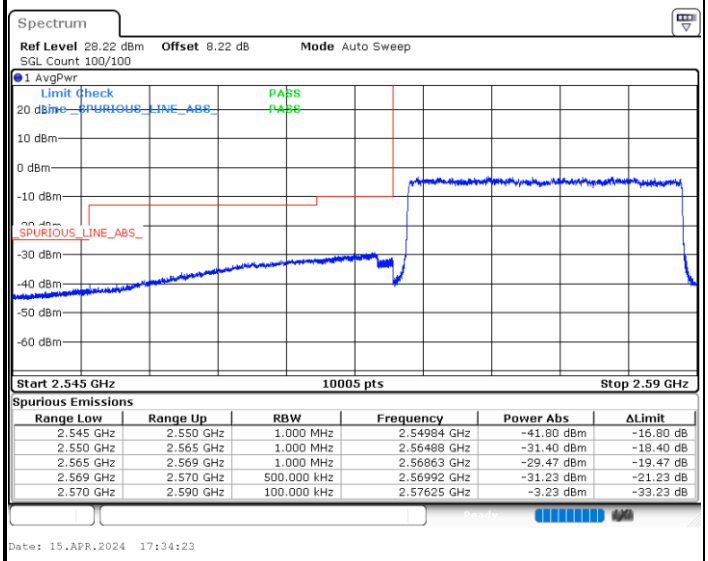



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.600 GHz | 2.620 GHz | 100.000 kHz | 2.61888 GHz | 16.02 dBm | -13.98 dB |
| 2.620 GHz | 2.621 GHz | 500.000 kHz | 2.62005 GHz | -20.86 dBm | -10.86 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62101 GHz | -27.45 dBm | -17.45 dB |
| 2.625 GHz | 2.640 GHz | 1.000 MHz | 2.62521 GHz | -37.58 dBm | -24.58 dB |
| 2.640 GHz | 2.645 GHz | 1.000 MHz | 2.64373 GHz | -42.45 dBm | -17.45 dB |

Date: 15.APR.2024 17:42:29

### Lowest Band Edge / Full RB

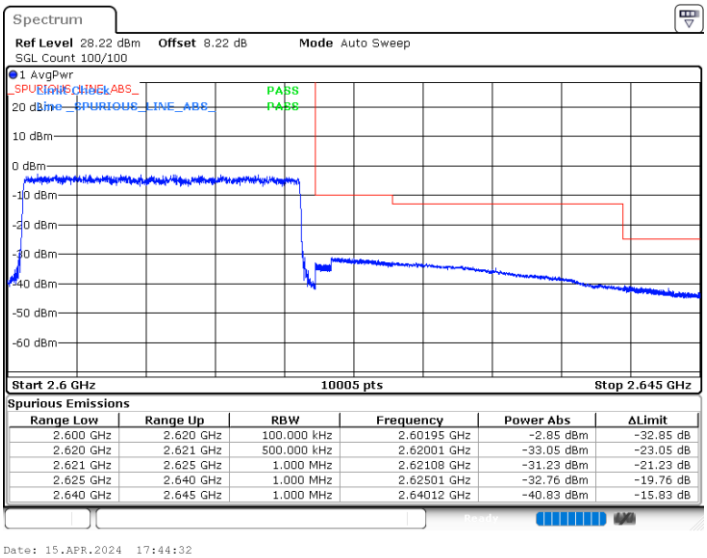



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.545 GHz | 2.550 GHz | 1.000 MHz | 2.54984 GHz | -41.80 dBm | -16.80 dB |
| 2.550 GHz | 2.565 GHz | 1.000 MHz | 2.56488 GHz | -31.40 dBm | -18.40 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56863 GHz | -29.47 dBm | -19.47 dB |
| 2.569 GHz | 2.570 GHz | 500.000 kHz | 2.56992 GHz | -31.23 dBm | -21.23 dB |
| 2.570 GHz | 2.590 GHz | 100.000 kHz | 2.57625 GHz | -3.23 dBm | -33.23 dB |

Date: 15.APR.2024 17:34:23

### Highest Band Edge / Full RB




Spurious Emissions

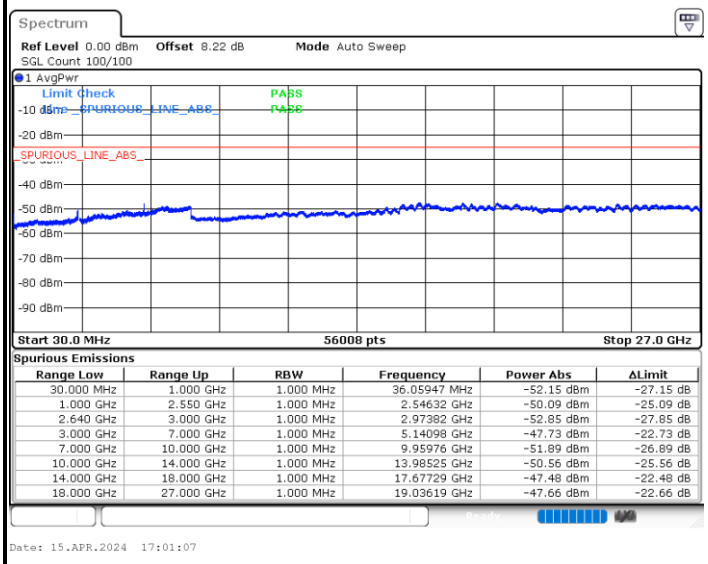
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.600 GHz | 2.620 GHz | 100.000 kHz | 2.60195 GHz | -2.85 dBm | -32.85 dB |
| 2.620 GHz | 2.621 GHz | 500.000 kHz | 2.62001 GHz | -33.05 dBm | -23.05 dB |
| 2.621 GHz | 2.625 GHz | 1.000 MHz | 2.62108 GHz | -31.23 dBm | -21.23 dB |
| 2.625 GHz | 2.640 GHz | 1.000 MHz | 2.62501 GHz | -32.76 dBm | -19.76 dB |
| 2.640 GHz | 2.645 GHz | 1.000 MHz | 2.64012 GHz | -40.83 dBm | -15.83 dB |

Date: 15.APR.2024 17:44:32

# Conducted Spurious Emission

## LTE Band 38 / 5MHz

### Lowest Channel / QPSK

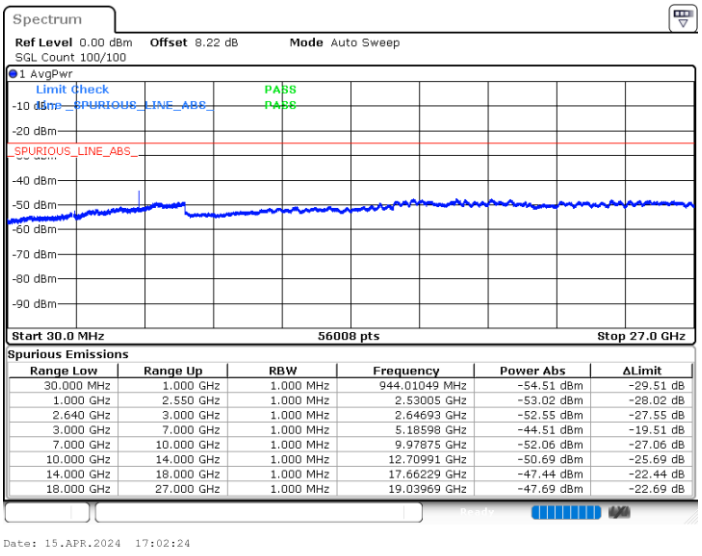



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 36.05947 MHz | -52.15 dBm | -27.15 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54632 GHz | -50.09 dBm | -25.09 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.97382 GHz | -52.85 dBm | -27.85 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.14098 GHz | -47.73 dBm | -22.73 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.95976 GHz | -51.89 dBm | -26.89 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.98525 GHz | -50.56 dBm | -25.56 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.67729 GHz | -47.48 dBm | -22.48 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.03619 GHz | -47.66 dBm | -22.66 dB |

Date: 15.APR.2024 17:01:07

### Middle Channel / QPSK

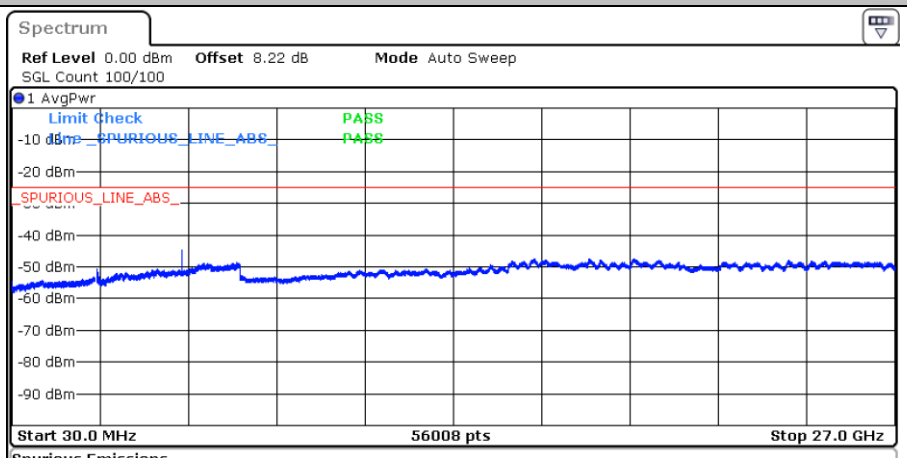



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 944.01049 MHz | -54.51 dBm | -29.51 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.53005 GHz | -53.02 dBm | -28.02 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.64693 GHz | -52.55 dBm | -27.55 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.18598 GHz | -44.51 dBm | -19.51 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.97875 GHz | -52.06 dBm | -27.06 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.70991 GHz | -50.69 dBm | -25.69 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.66229 GHz | -47.44 dBm | -22.44 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.03969 GHz | -47.69 dBm | -22.69 dB |

Date: 15.APR.2024 17:02:24

### Highest Channel / QPSK



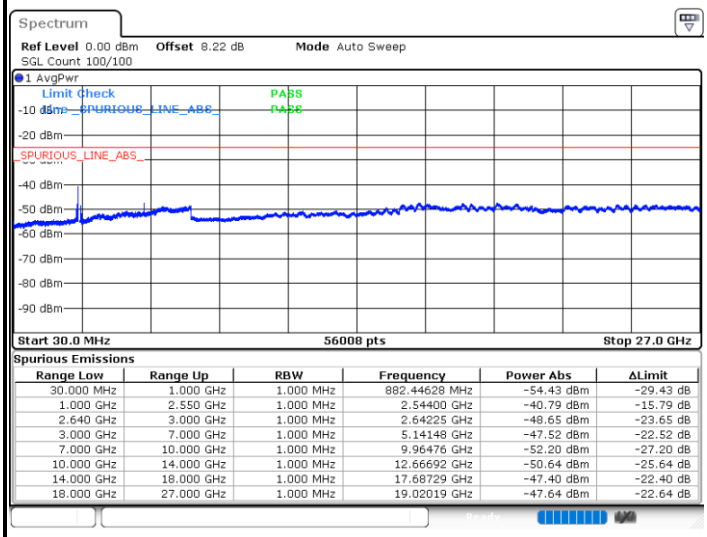

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 946.91904 MHz | -54.39 dBm | -29.39 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.53741 GHz | -53.03 dBm | -28.03 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.64099 GHz | -50.74 dBm | -25.74 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.23097 GHz | -44.55 dBm | -19.55 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.95026 GHz | -51.94 dBm | -26.94 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99725 GHz | -50.49 dBm | -25.49 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.00150 GHz | -47.39 dBm | -22.39 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.01719 GHz | -47.67 dBm | -22.67 dB |

Date: 15.APR.2024 17:03:40

## LTE Band 38 / 10MHz

### Lowest Channel / QPSK

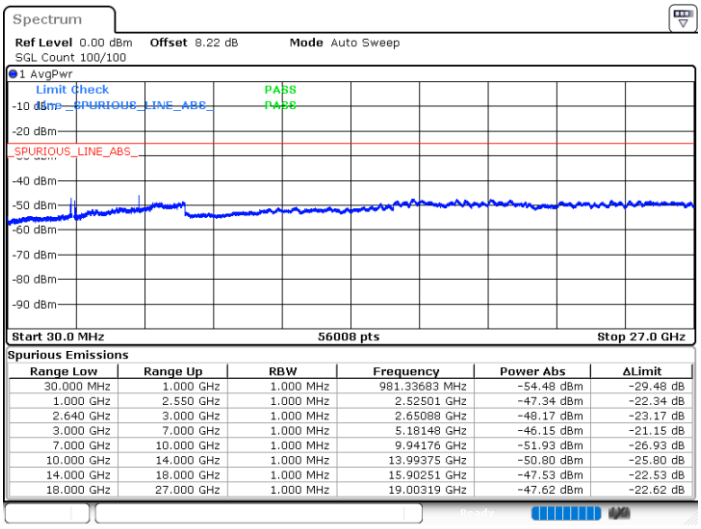



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 882.44628 MHz | -54.43 dBm | -29.43 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54400 GHz | -40.79 dBm | -15.79 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.64225 GHz | -48.65 dBm | -23.65 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.14148 GHz | -47.52 dBm | -22.52 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.96476 GHz | -52.20 dBm | -27.20 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.66692 GHz | -50.64 dBm | -25.64 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.68729 GHz | -47.40 dBm | -22.40 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.02019 GHz | -47.64 dBm | -22.64 dB |

Date: 15.APR.2024 17:13:39

### Middle Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 981.33683 MHz | -54.48 dBm | -29.48 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.52501 GHz | -47.34 dBm | -22.34 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.65088 GHz | -48.17 dBm | -23.17 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.18148 GHz | -46.15 dBm | -21.15 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.94176 GHz | -51.93 dBm | -26.93 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99375 GHz | -50.80 dBm | -25.80 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.90251 GHz | -47.53 dBm | -22.53 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.00319 GHz | -47.62 dBm | -22.62 dB |

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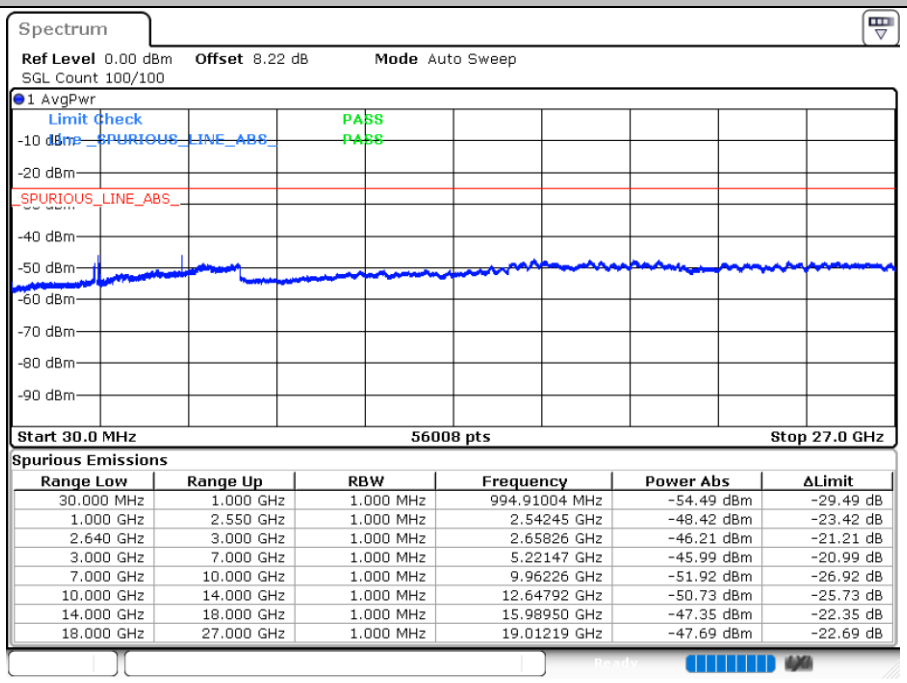
### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -54.49 dBm | -29.49 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54245 GHz | -48.42 dBm | -23.42 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.65826 GHz | -46.21 dBm | -21.21 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.22147 GHz | -45.99 dBm | -20.99 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.96226 GHz | -51.92 dBm | -26.92 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.64792 GHz | -50.73 dBm | -25.73 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.98950 GHz | -47.35 dBm | -22.35 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.01219 GHz | -47.69 dBm | -22.69 dB |

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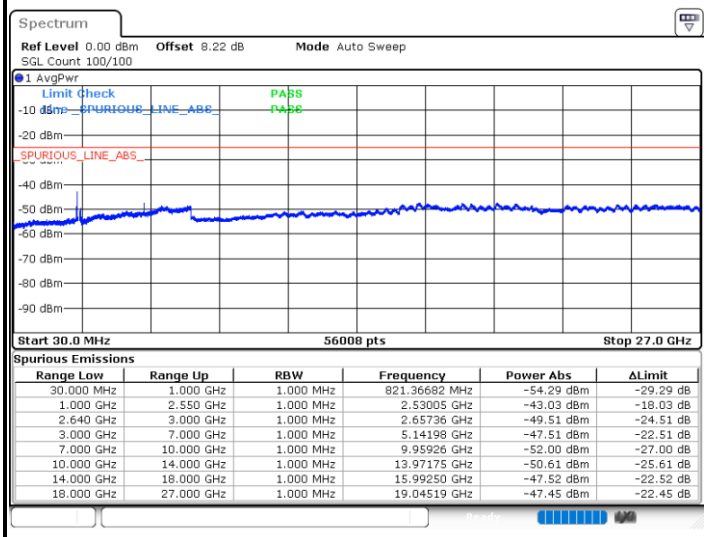
## LTE Band 38 / 15MHz

### Lowest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 821.36682 MHz | -54.29 dBm | -29.29 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.53005 GHz | -43.03 dBm | -18.03 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.65736 GHz | -49.51 dBm | -24.51 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.14198 GHz | -47.51 dBm | -22.51 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.95926 GHz | -52.00 dBm | -27.00 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.97175 GHz | -50.61 dBm | -25.61 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.99250 GHz | -47.52 dBm | -22.52 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.04519 GHz | -47.45 dBm | -22.45 dB |

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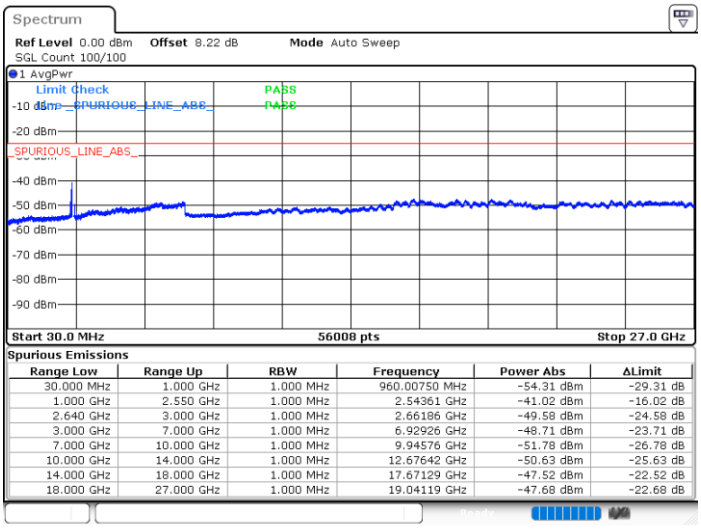
### Middle Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 960.00750 MHz | -54.31 dBm | -29.31 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54361 GHz | -41.02 dBm | -16.02 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.66186 GHz | -49.58 dBm | -24.58 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.92926 GHz | -48.71 dBm | -23.71 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.94576 GHz | -51.78 dBm | -26.78 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.67642 GHz | -50.63 dBm | -25.63 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 17.67129 GHz | -47.52 dBm | -22.52 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.04119 GHz | -47.68 dBm | -22.68 dB |

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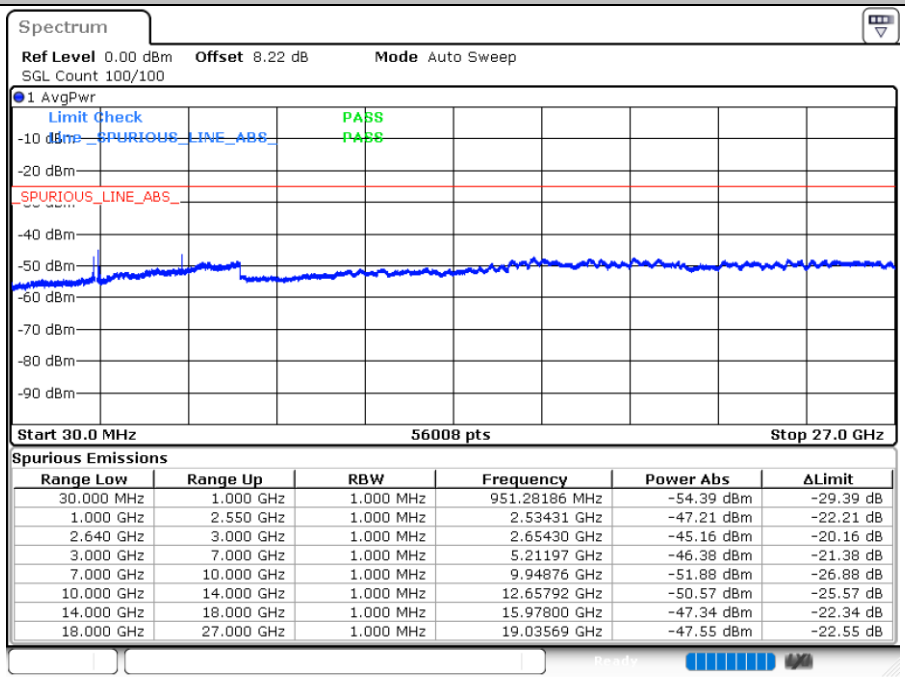
### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 951.28186 MHz | -54.39 dBm | -29.39 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.53431 GHz | -47.21 dBm | -22.21 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.65430 GHz | -45.16 dBm | -20.16 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.21197 GHz | -46.38 dBm | -21.38 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.94876 GHz | -51.88 dBm | -26.88 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.65792 GHz | -50.57 dBm | -25.57 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.97800 GHz | -47.34 dBm | -22.34 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.03569 GHz | -47.55 dBm | -22.55 dB |

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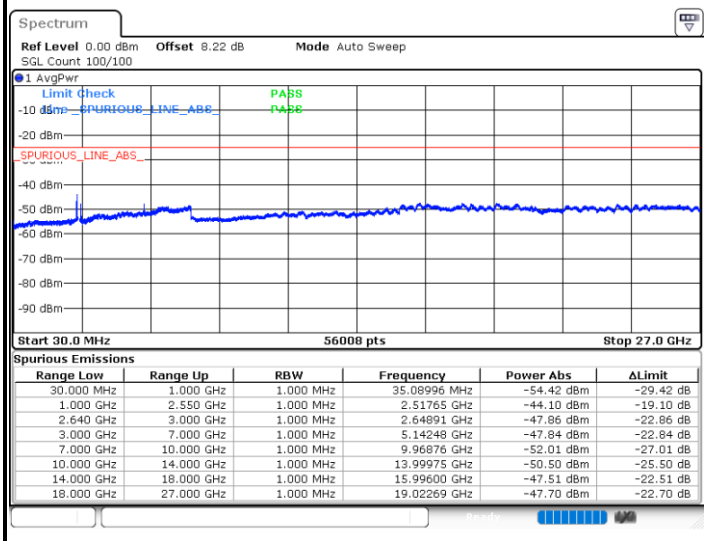
## LTE Band 38 / 20MHz

### Lowest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 35.08996 MHz | -54.42 dBm | -29.42 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.51765 GHz | -44.10 dBm | -19.10 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.64891 GHz | -47.86 dBm | -22.86 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.14248 GHz | -47.84 dBm | -22.84 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.96876 GHz | -52.01 dBm | -27.01 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99975 GHz | -50.50 dBm | -25.50 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.99600 GHz | -47.51 dBm | -22.51 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.02269 GHz | -47.70 dBm | -22.70 dB |

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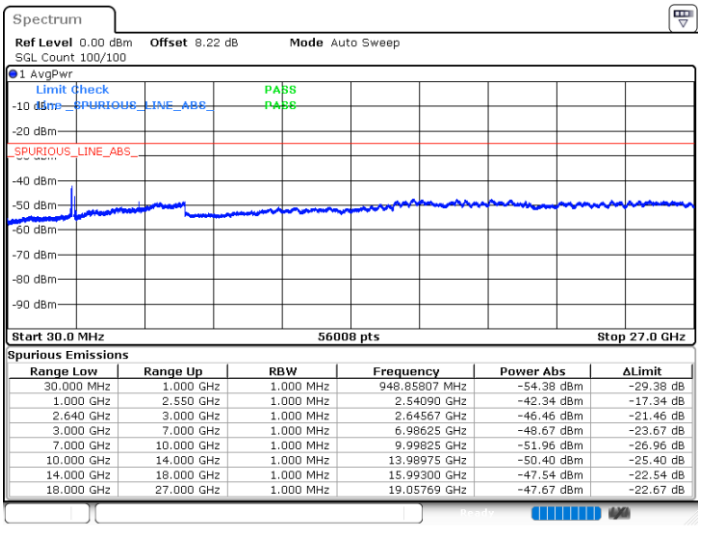
### Middle Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 948.85807 MHz | -54.38 dBm | -29.38 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.54090 GHz | -42.34 dBm | -17.34 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.64567 GHz | -46.46 dBm | -21.46 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.98625 GHz | -48.67 dBm | -23.67 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.99825 GHz | -51.96 dBm | -26.96 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.98975 GHz | -50.40 dBm | -25.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.99300 GHz | -47.54 dBm | -22.54 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.05769 GHz | -47.67 dBm | -22.67 dB |

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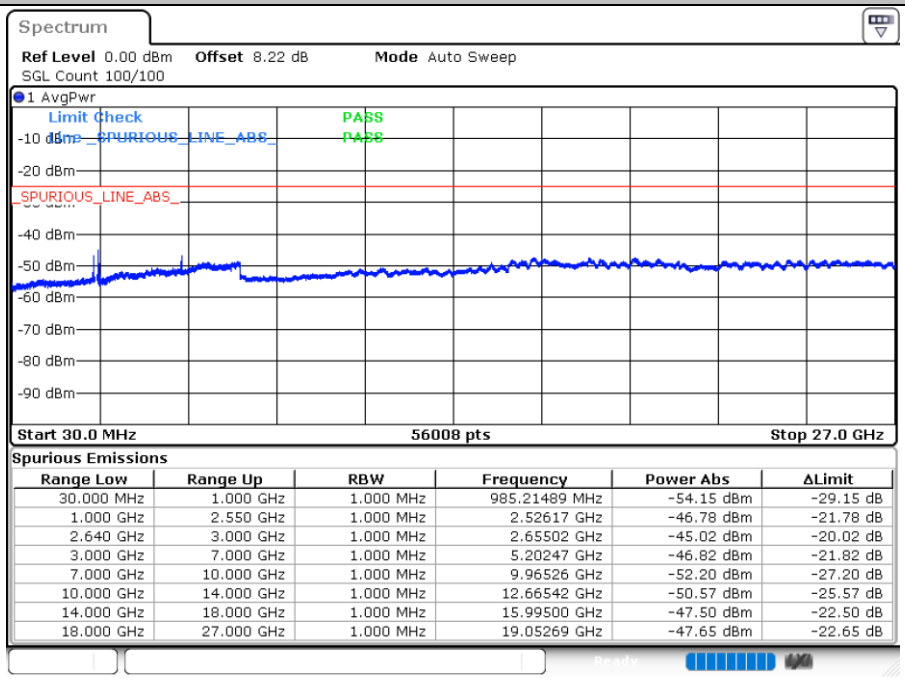
### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 985.21489 MHz | -54.15 dBm | -29.15 dB |
| 1.000 GHz | 2.550 GHz | 1.000 MHz | 2.52617 GHz | -46.78 dBm | -21.78 dB |
| 2.640 GHz | 3.000 GHz | 1.000 MHz | 2.65502 GHz | -45.02 dBm | -20.02 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.20247 GHz | -46.82 dBm | -21.82 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.96526 GHz | -52.20 dBm | -27.20 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 12.66542 GHz | -50.57 dBm | -25.57 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.99500 GHz | -47.50 dBm | -22.50 dB |
| 18.000 GHz | 27.000 GHz | 1.000 MHz | 19.05269 GHz | -47.65 dBm | -22.65 dB |

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# Frequency Stability

| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0021 | PASS |
| 40 | Normal Voltage | 0.0016 | |
| 30 | Normal Voltage | 0.0009 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0019 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0017 | |
| -20 | Normal Voltage | 0.0023 | |
| -30 | Normal Voltage | 0.0022 | |
| 20 | Maximum Voltage | 0.0018 | |
| 20 | Normal Voltage | 0.0005 | |
| 20 | Battery End Point | 0.0014 | |

**Note:**

**1.** Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48V.

**2.** Note: The frequency fundamental emissions stay within the authorized frequency block.

# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

| Test Engineer : | Simle Wang | Temperature : | 22~23℃ |
|---|---|---|---|
| | | Relative Humidity : | 40~42% |

| LTE Band 2 / 20MHz / QPSK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 3735 | -55.80 | -13 | -42.80 | -68.06 | 2.64 | 14.90 | H |
| | 5610 | -53.78 | -13 | -40.78 | -65.64 | 2.94 | 14.80 | H |
| | 7485 | -52.93 | -13 | -39.93 | -62.70 | 3.39 | 13.16 | H |
| | 3735 | -55.66 | -13 | -42.66 | -67.92 | 2.64 | 14.90 | V |
| | 5610 | -54.53 | -13 | -41.53 | -66.39 | 2.94 | 14.80 | V |
| | 7485 | -53.27 | -13 | -40.27 | -63.04 | 3.39 | 13.16 | V |

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

| LTE Band 4 / 20MHz / QPSK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 3435 | -48.38 | -13 | -35.38 | -59.12 | 2.604 | 13.34 | H |
| | 5175 | -53.73 | -13 | -40.73 | -64.24 | 3.011 | 13.52 | H |
| | 6900 | -54.44 | -13 | -41.44 | -64.64 | 3.271 | 13.47 | H |
| | 3435 | -58.31 | -13 | -45.31 | -69.05 | 2.604 | 13.34 | V |
| | 5175 | -53.99 | -13 | -40.99 | -64.50 | 3.011 | 13.52 | V |
| | 6900 | -53.82 | -13 | -40.82 | -64.02 | 3.271 | 13.47 | V |

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

| LTE Band 38 / 20MHz / QPSK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | -59.41 | -25 | -34.41 | -69.62 | 3.03 | 13.24 | H |
| | 7752 | -62.11 | -25 | -37.11 | -71.56 | 3.56 | 13.01 | H |
| | 10342 | -61.54 | -25 | -36.54 | -71.06 | 3.92 | 13.44 | H |
| | 5176 | -61.03 | -25 | -36.03 | -71.24 | 3.03 | 13.24 | V |
| | 7752 | -62.01 | -25 | -37.01 | -71.46 | 3.56 | 13.01 | V |
| | 10342 | -62.00 | -25 | -37.00 | -71.52 | 3.92 | 13.44 | V |

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