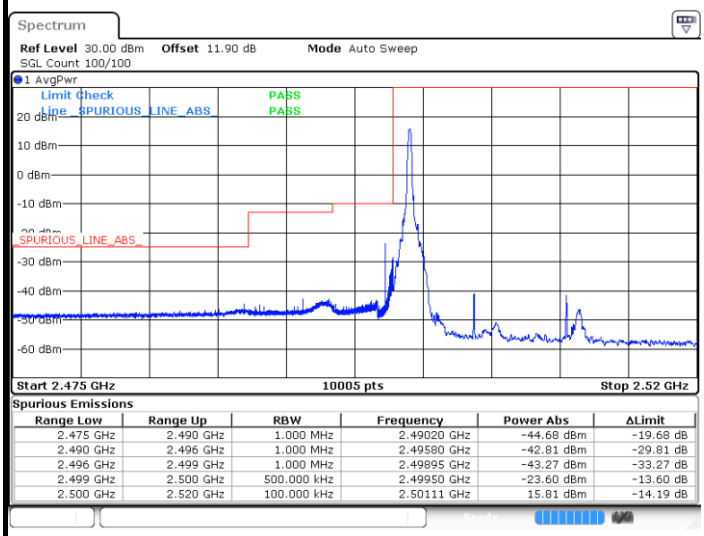
## LTE Band 7 / 20MHz / QPSK

### Lowest Band Edge / 1 RB

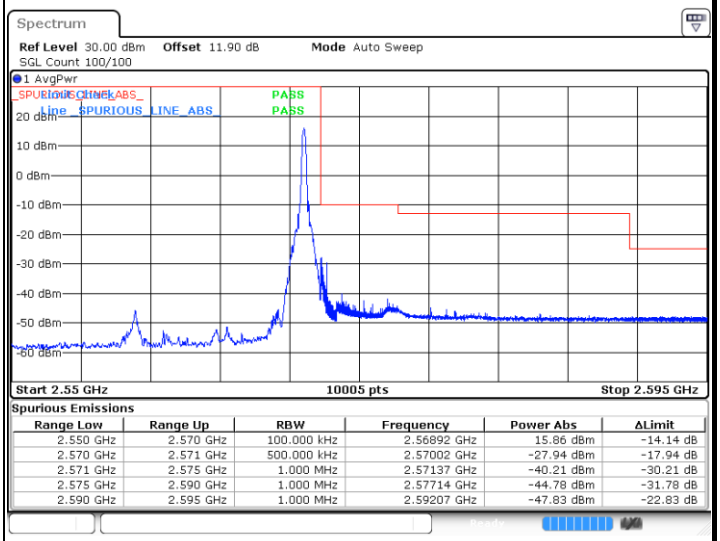



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49020 GHz | -44.68 dBm | -19.68 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49580 GHz | -42.81 dBm | -29.81 dB |
| 2.496 GHz | 2.499 GHz | 1.000 MHz | 2.49895 GHz | -43.27 dBm | -33.27 dB |
| 2.499 GHz | 2.500 GHz | 500.000 kHz | 2.49950 GHz | -23.60 dBm | -13.60 dB |
| 2.500 GHz | 2.520 GHz | 100.000 kHz | 2.50111 GHz | 15.81 dBm | -14.19 dB |

Date: 28.DEC.2019 11:53:28

### Highest Band Edge / 1 RB

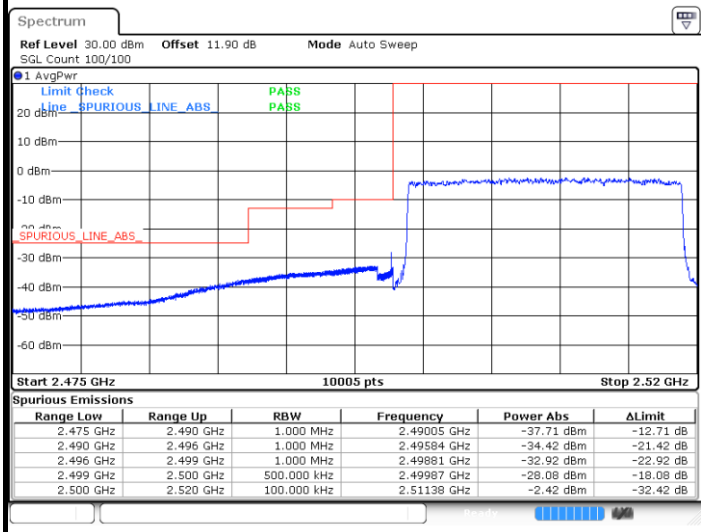



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56892 GHz | 15.86 dBm | -14.14 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57002 GHz | -27.94 dBm | -17.94 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57137 GHz | -40.21 dBm | -30.21 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57714 GHz | -44.78 dBm | -31.78 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59207 GHz | -47.83 dBm | -22.83 dB |

Date: 28.DEC.2019 12:04:28

### Lowest Band Edge / Full RB

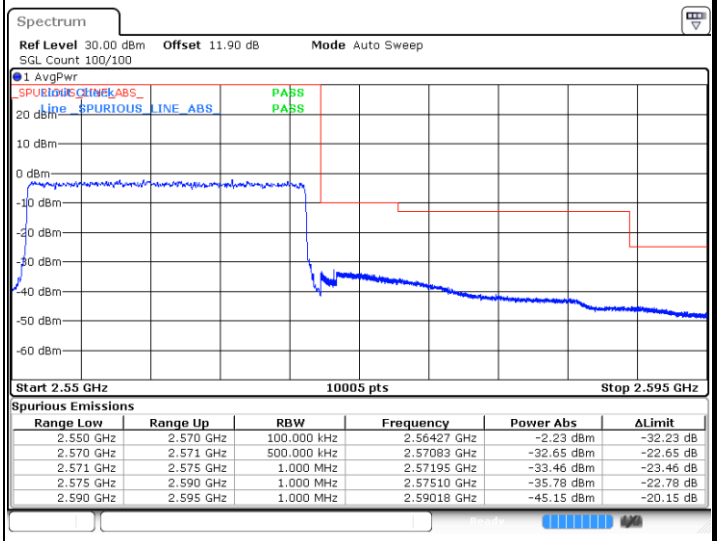



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49005 GHz | -37.71 dBm | -12.71 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49584 GHz | -34.42 dBm | -21.42 dB |
| 2.496 GHz | 2.499 GHz | 1.000 MHz | 2.49881 GHz | -32.92 dBm | -22.92 dB |
| 2.499 GHz | 2.500 GHz | 500.000 kHz | 2.49987 GHz | -28.08 dBm | -18.08 dB |
| 2.500 GHz | 2.520 GHz | 100.000 kHz | 2.51138 GHz | -2.42 dBm | -32.42 dB |

Date: 28.DEC.2019 11:56:11

### Highest Band Edge / Full RB



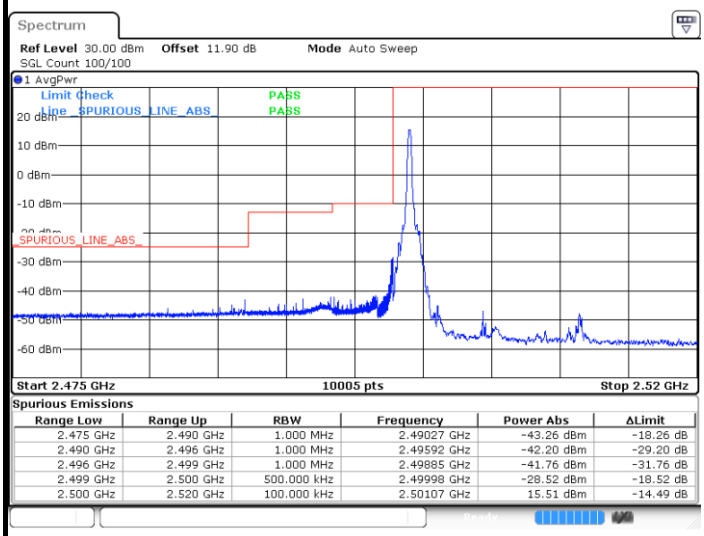

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56427 GHz | -2.23 dBm | -32.23 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57083 GHz | -32.65 dBm | -22.65 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57195 GHz | -33.46 dBm | -23.46 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57510 GHz | -35.78 dBm | -22.78 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59018 GHz | -45.15 dBm | -20.15 dB |

Date: 28.DEC.2019 12:08:32

## LTE Band 7 / 20MHz / 16QAM

### Lowest Band Edge /1 RB

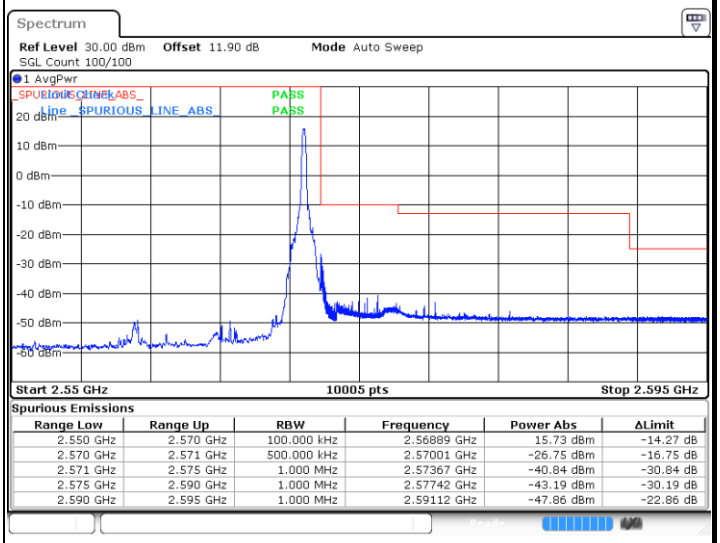



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49027 GHz | -43.26 dBm | -18.26 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49592 GHz | -42.20 dBm | -29.20 dB |
| 2.496 GHz | 2.499 GHz | 1.000 MHz | 2.49885 GHz | -41.76 dBm | -31.76 dB |
| 2.499 GHz | 2.500 GHz | 500.000 kHz | 2.49998 GHz | -28.52 dBm | -18.52 dB |
| 2.500 GHz | 2.520 GHz | 100.000 kHz | 2.50107 GHz | 15.51 dBm | -14.49 dB |

Date: 28.DEC.2019 11:54:50

### Highest Band Edge / 1RB

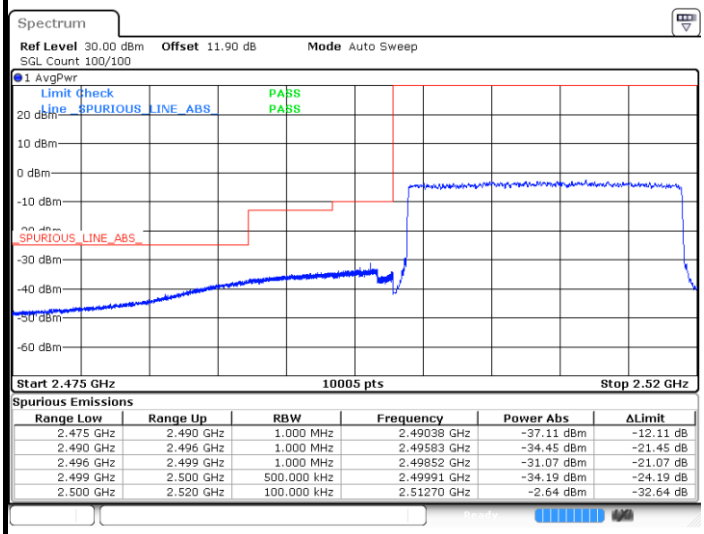



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56889 GHz | 15.73 dBm | -14.27 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57001 GHz | -26.75 dBm | -16.75 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57367 GHz | -40.84 dBm | -30.84 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57742 GHz | -43.19 dBm | -30.19 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59112 GHz | -47.86 dBm | -22.86 dB |

Date: 28.DEC.2019 12:05:49

### Lowest Band Edge / Full RB

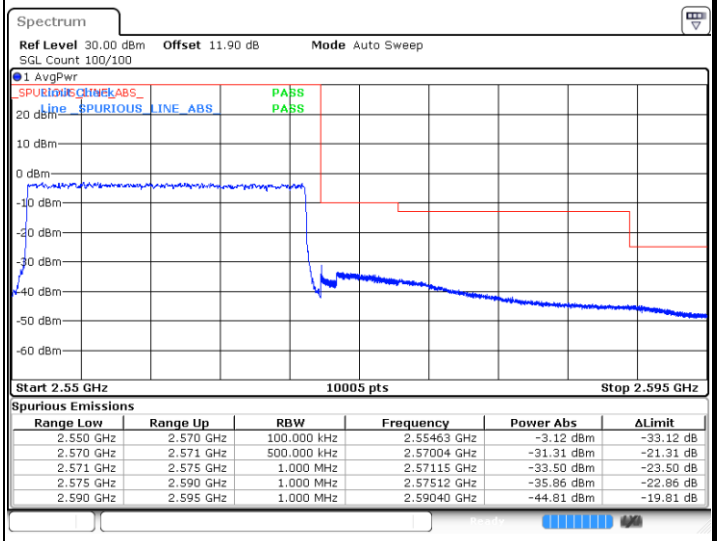



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49038 GHz | -37.11 dBm | -12.11 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49583 GHz | -34.45 dBm | -21.45 dB |
| 2.496 GHz | 2.499 GHz | 1.000 MHz | 2.49852 GHz | -31.07 dBm | -21.07 dB |
| 2.499 GHz | 2.500 GHz | 500.000 kHz | 2.49991 GHz | -34.19 dBm | -24.19 dB |
| 2.500 GHz | 2.520 GHz | 100.000 kHz | 2.51270 GHz | -2.64 dBm | -32.64 dB |

Date: 28.DEC.2019 11:57:33

### Highest Band Edge / Full RB



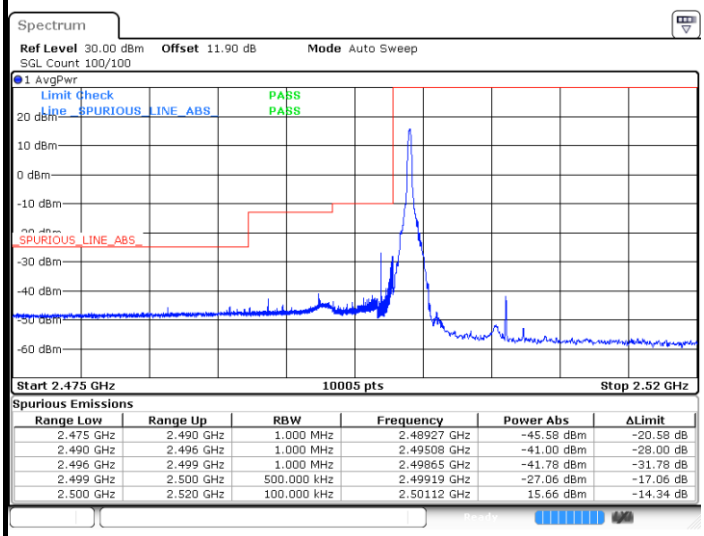

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.55463 GHz | -3.12 dBm | -33.12 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57004 GHz | -31.31 dBm | -21.31 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57115 GHz | -33.50 dBm | -23.50 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57512 GHz | -35.86 dBm | -22.86 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59040 GHz | -44.81 dBm | -19.81 dB |

Date: 28.DEC.2019 12:07:11

## LTE Band 7 / 20MHz / 64QAM

### Lowest Band Edge / 1 RB

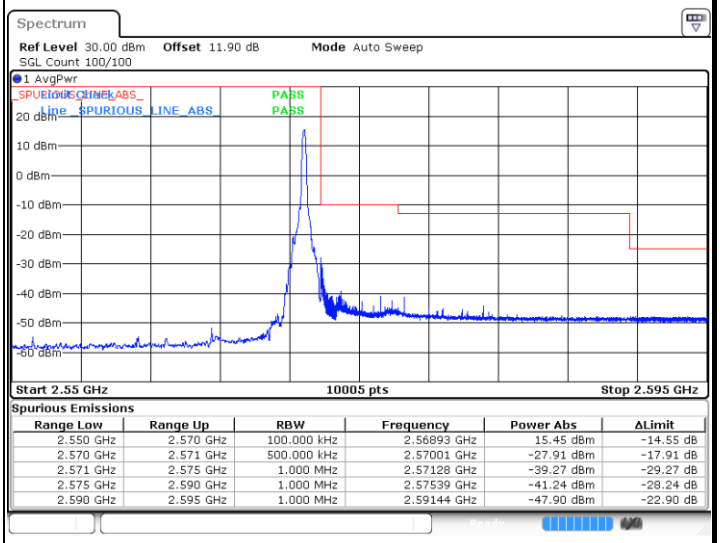



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48927 GHz | -45.58 dBm | -20.58 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49508 GHz | -41.00 dBm | -28.00 dB |
| 2.496 GHz | 2.499 GHz | 1.000 MHz | 2.49865 GHz | -41.78 dBm | -31.78 dB |
| 2.499 GHz | 2.500 GHz | 500.000 kHz | 2.49919 GHz | -27.06 dBm | -17.06 dB |
| 2.500 GHz | 2.520 GHz | 100.000 kHz | 2.50112 GHz | 15.66 dBm | -14.34 dB |

Date: 28.DEC.2019 12:12:18

### Highest Band Edge / 1 RB

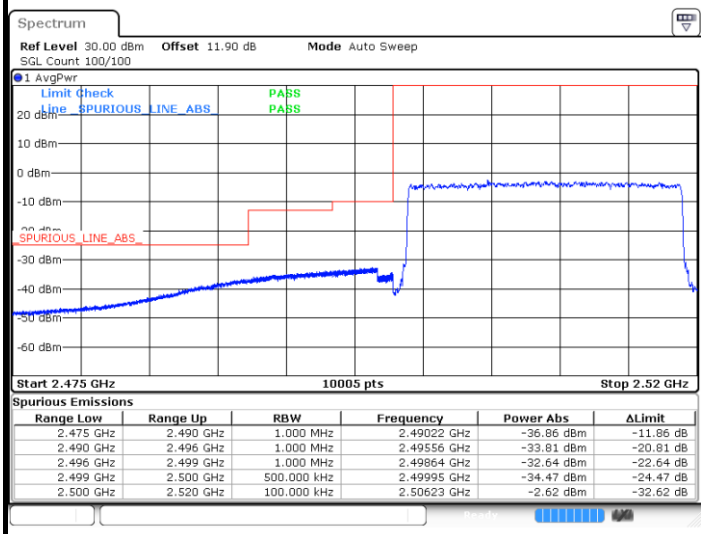



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56893 GHz | 15.45 dBm | -14.55 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57001 GHz | -27.91 dBm | -17.91 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57128 GHz | -39.27 dBm | -29.27 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57539 GHz | -41.24 dBm | -28.24 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59144 GHz | -47.90 dBm | -22.90 dB |

Date: 28.DEC.2019 12:17:48

### Lowest Band Edge / Full RB

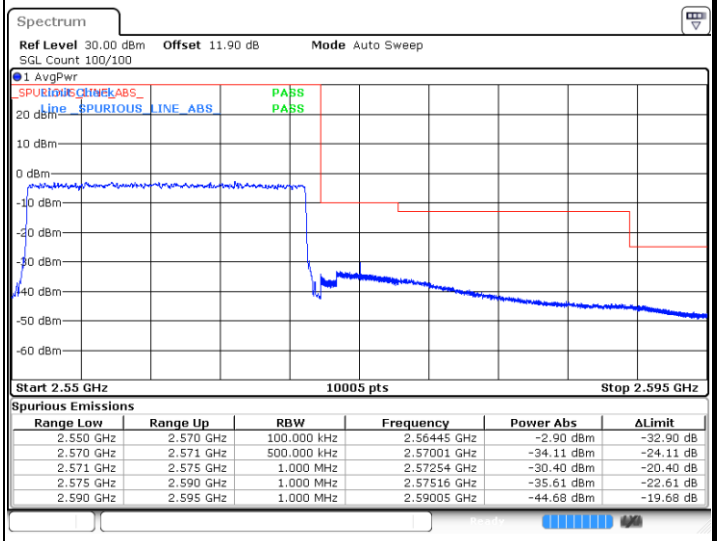



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49022 GHz | -36.86 dBm | -11.86 dB |
| 2.490 GHz | 2.496 GHz | 1.000 MHz | 2.49556 GHz | -33.81 dBm | -20.81 dB |
| 2.496 GHz | 2.499 GHz | 1.000 MHz | 2.49864 GHz | -32.64 dBm | -22.64 dB |
| 2.499 GHz | 2.500 GHz | 500.000 kHz | 2.49995 GHz | -34.47 dBm | -24.47 dB |
| 2.500 GHz | 2.520 GHz | 100.000 kHz | 2.50623 GHz | -2.62 dBm | -32.62 dB |

Date: 28.DEC.2019 12:13:40

### Highest Band Edge / Full RB




Spurious Emissions

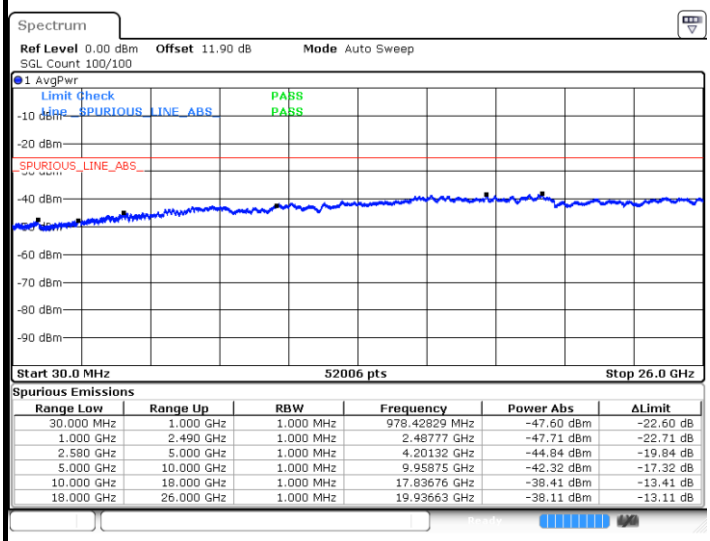
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56445 GHz | -2.90 dBm | -32.90 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57001 GHz | -34.11 dBm | -24.11 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57254 GHz | -30.40 dBm | -20.40 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57516 GHz | -35.61 dBm | -22.61 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59005 GHz | -44.68 dBm | -19.68 dB |

Date: 28.DEC.2019 12:19:09

# Conducted Spurious Emission

## LTE Band 7 / 5MHz

### Lowest Channel / QPSK

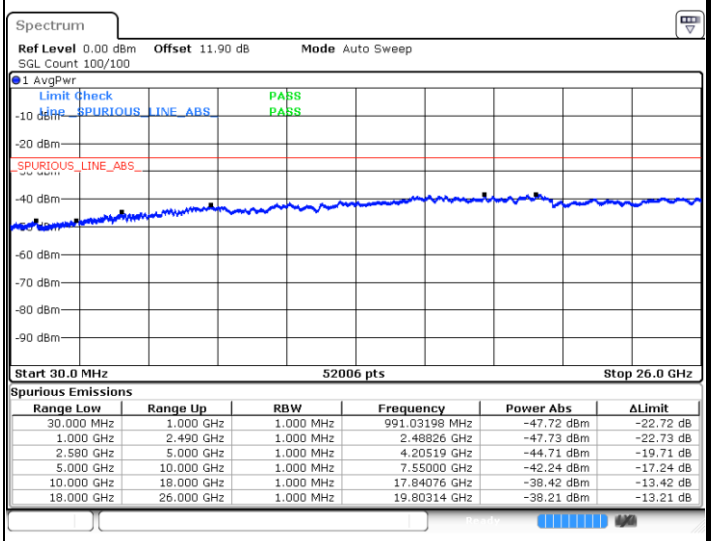



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.42829 MHz | -47.60 dBm | -22.60 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48777 GHz | -47.71 dBm | -22.71 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20132 GHz | -44.84 dBm | -19.84 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95875 GHz | -42.32 dBm | -17.32 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83676 GHz | -38.41 dBm | -13.41 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93663 GHz | -38.11 dBm | -13.11 dB |

Date: 28.DEC.2019 10:25:54

### Lowest Channel / 16QAM

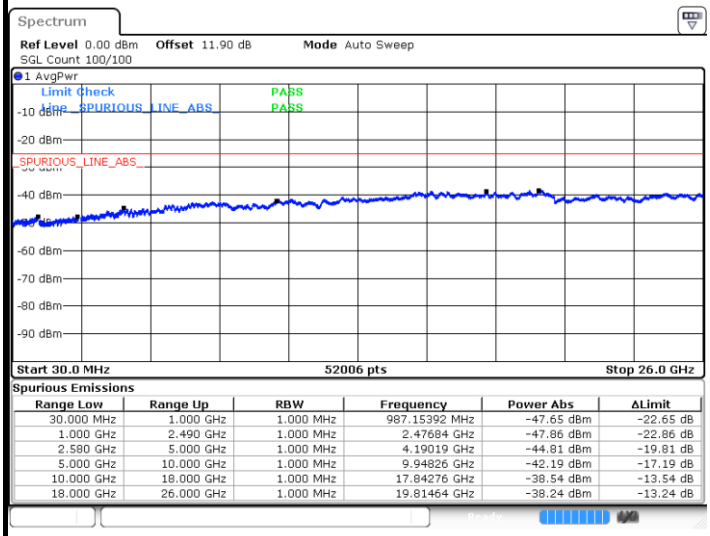



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 991.03198 MHz | -47.72 dBm | -22.72 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48826 GHz | -47.73 dBm | -22.73 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20519 GHz | -44.71 dBm | -19.71 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.55000 GHz | -42.24 dBm | -17.24 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84076 GHz | -38.42 dBm | -13.42 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80314 GHz | -38.21 dBm | -13.21 dB |

Date: 28.DEC.2019 10:26:54

### Middle Channel / QPSK

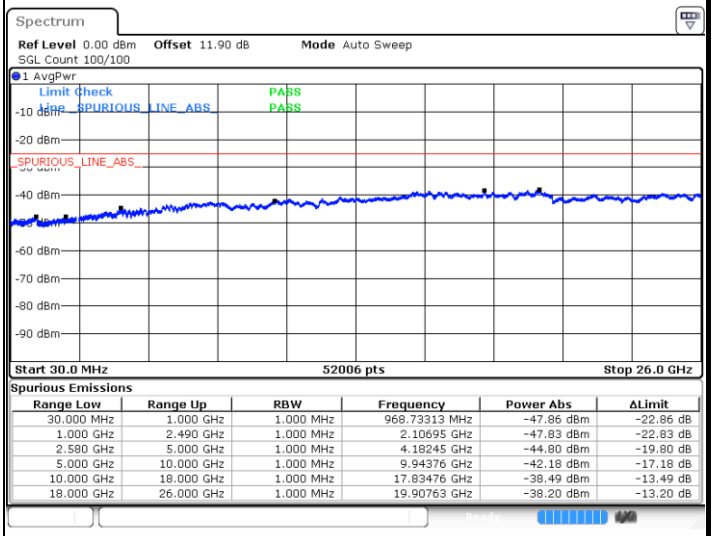



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 987.15392 MHz | -47.65 dBm | -22.65 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47684 GHz | -47.86 dBm | -22.86 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19019 GHz | -44.81 dBm | -19.81 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94826 GHz | -42.19 dBm | -17.19 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84276 GHz | -38.54 dBm | -13.54 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81464 GHz | -38.24 dBm | -13.24 dB |

Date: 28.DEC.2019 10:28:40

### Middle Channel / 16QAM



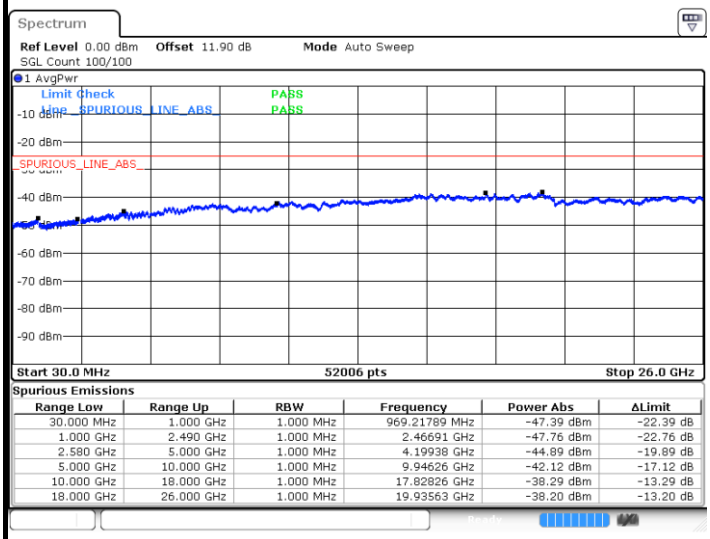

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 968.73313 MHz | -47.86 dBm | -22.86 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.10695 GHz | -47.83 dBm | -22.83 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18245 GHz | -44.80 dBm | -19.80 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94376 GHz | -42.18 dBm | -17.18 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83476 GHz | -38.49 dBm | -13.49 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90763 GHz | -38.20 dBm | -13.20 dB |

Date: 28.DEC.2019 10:29:39

## LTE Band 7 / 5MHz

### Highest Channel / QPSK

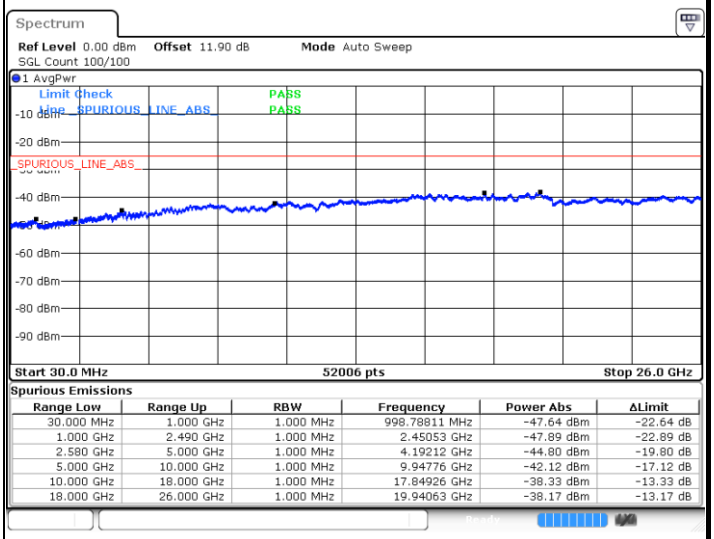



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 969.21789 MHz | -47.39 dBm | -22.39 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46691 GHz | -47.76 dBm | -22.76 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19938 GHz | -44.89 dBm | -19.89 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94626 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.82826 GHz | -38.29 dBm | -13.29 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93563 GHz | -38.20 dBm | -13.20 dB |

Date: 28.DEC.2019 10:36:53

### Highest Channel / 16QAM



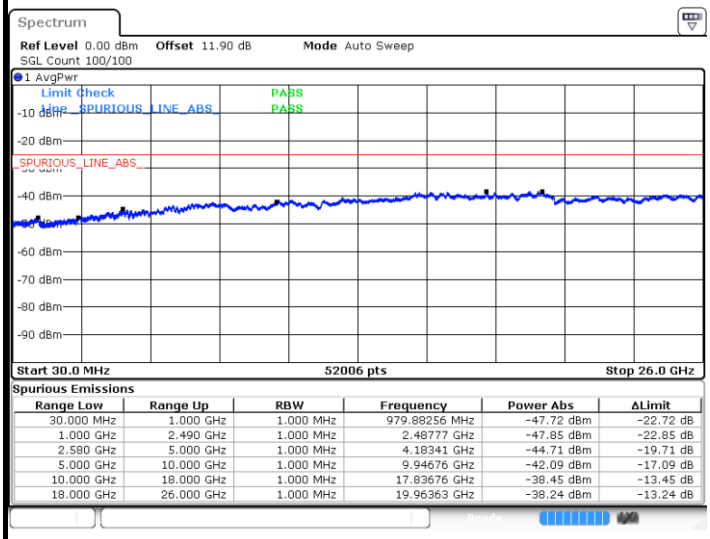

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 998.78811 MHz | -47.64 dBm | -22.64 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.45053 GHz | -47.89 dBm | -22.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19212 GHz | -44.80 dBm | -19.80 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94776 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84926 GHz | -38.33 dBm | -13.33 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94063 GHz | -38.17 dBm | -13.17 dB |

Date: 28.DEC.2019 10:37:53

## LTE Band 7 / 10MHz

### Lowest Channel / QPSK

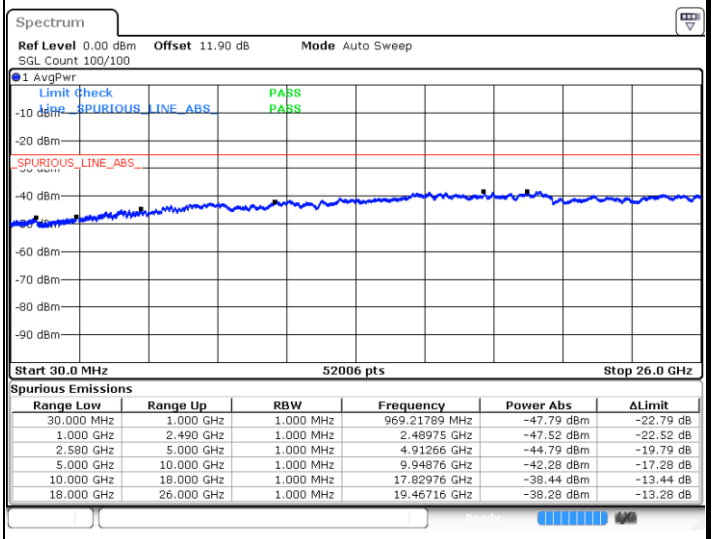



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 979.88256 MHz | -47.72 dBm | -22.72 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48777 GHz | -47.85 dBm | -22.85 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18341 GHz | -44.71 dBm | -19.71 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94676 GHz | -42.09 dBm | -17.09 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83676 GHz | -38.45 dBm | -13.45 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.96363 GHz | -38.24 dBm | -13.24 dB |

Date: 28.DEC.2019 10:54:44

### Lowest Channel / 16QAM



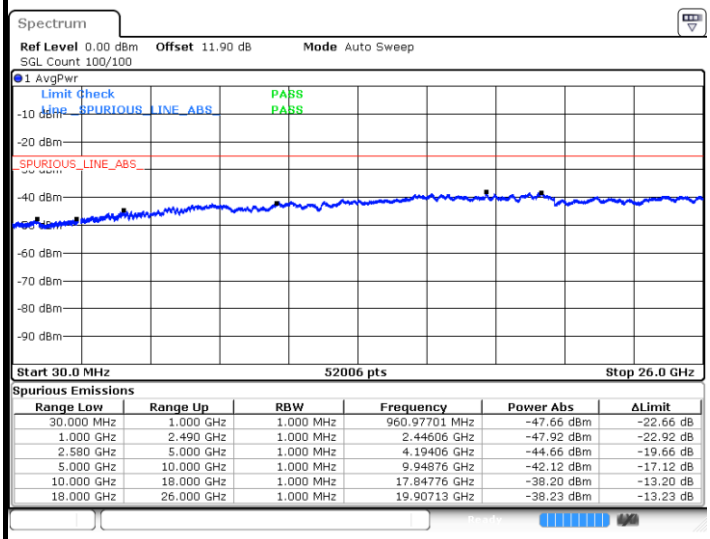

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 969.21789 MHz | -47.79 dBm | -22.79 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -47.52 dBm | -22.52 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.91266 GHz | -44.79 dBm | -19.79 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94876 GHz | -42.28 dBm | -17.28 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.82976 GHz | -38.44 dBm | -13.44 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.46716 GHz | -38.28 dBm | -13.28 dB |

Date: 28.DEC.2019 10:55:44

## LTE Band 7 / 10MHz

### Middle Channel / QPSK

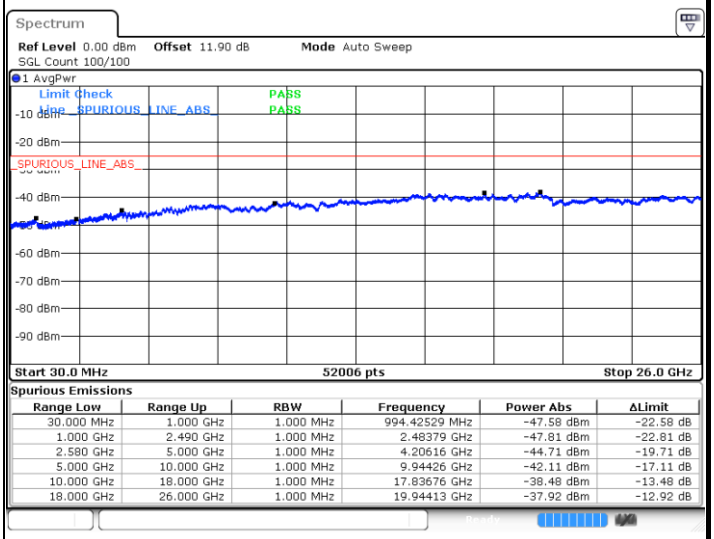



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 960.97701 MHz | -47.66 dBm | -22.66 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.44606 GHz | -47.92 dBm | -22.92 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19406 GHz | -44.66 dBm | -19.66 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94876 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84776 GHz | -38.20 dBm | -13.20 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90713 GHz | -38.23 dBm | -13.23 dB |

Date: 28.DEC.2019 10:57:30

### Middle Channel / 16QAM

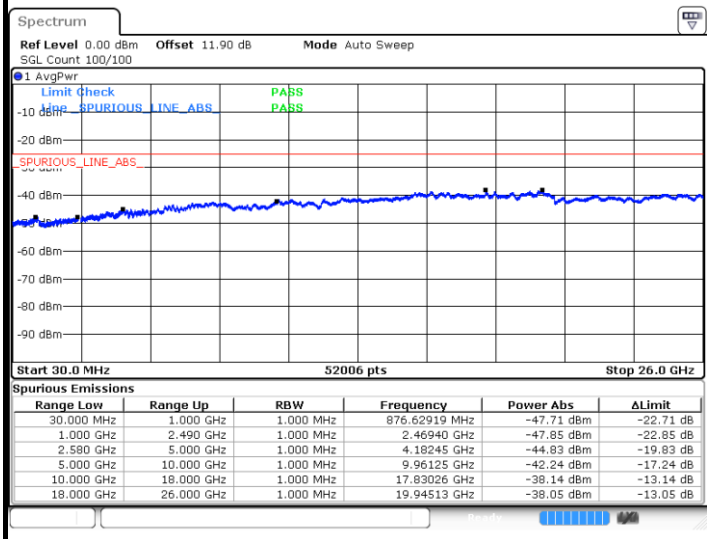



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.42529 MHz | -47.58 dBm | -22.58 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48379 GHz | -47.81 dBm | -22.81 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20616 GHz | -44.71 dBm | -19.71 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94426 GHz | -42.11 dBm | -17.11 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83676 GHz | -38.48 dBm | -13.48 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94413 GHz | -37.92 dBm | -12.92 dB |

Date: 28.DEC.2019 10:58:30

### Highest Channel / QPSK

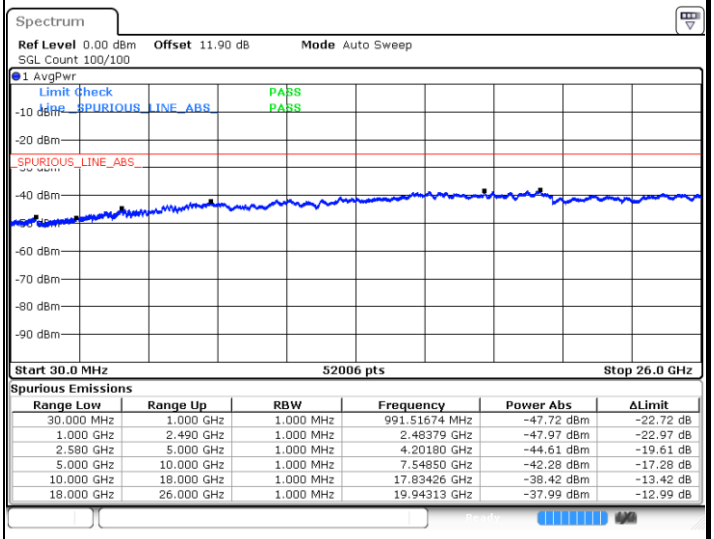



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 876.62919 MHz | -47.71 dBm | -22.71 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46940 GHz | -47.85 dBm | -22.85 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18245 GHz | -44.83 dBm | -19.83 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.96125 GHz | -42.24 dBm | -17.24 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83026 GHz | -38.14 dBm | -13.14 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94513 GHz | -38.05 dBm | -13.05 dB |

Date: 28.DEC.2019 11:05:43

### Highest Channel / 16QAM



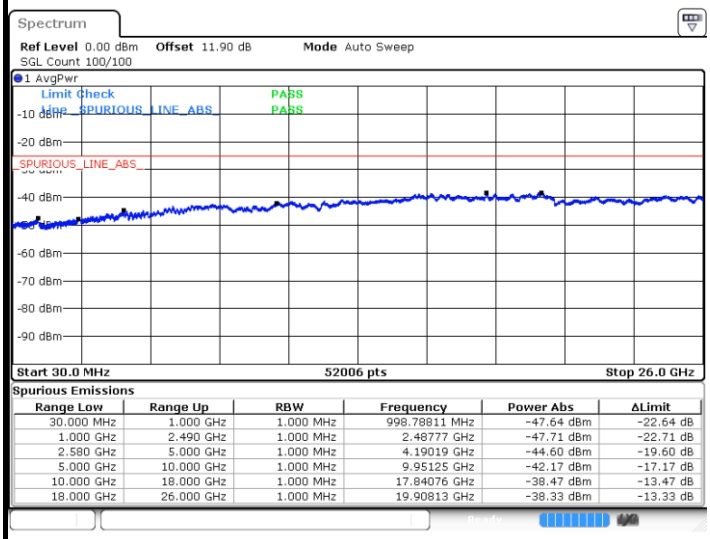

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 991.51674 MHz | -47.72 dBm | -22.72 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48379 GHz | -47.97 dBm | -22.97 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20180 GHz | -44.61 dBm | -19.61 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.54850 GHz | -42.28 dBm | -17.28 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83426 GHz | -38.42 dBm | -13.42 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94313 GHz | -37.99 dBm | -12.99 dB |

Date: 28.DEC.2019 11:06:44

## LTE Band 7 / 15MHz

### Lowest Channel / QPSK

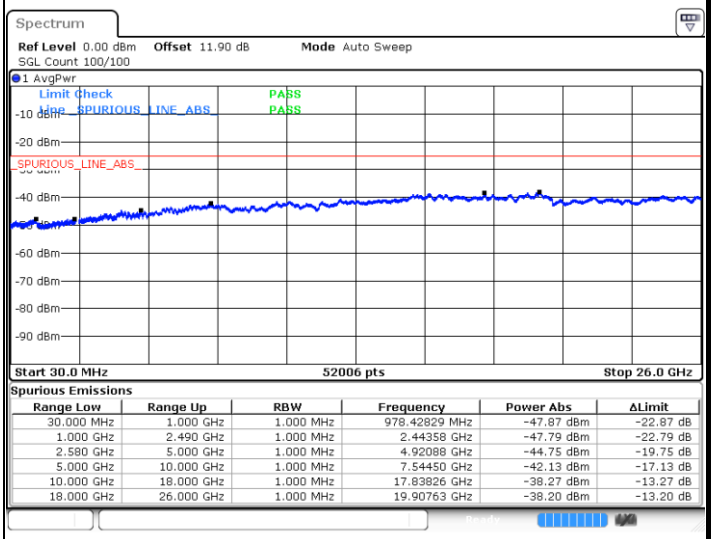



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 998.78811 MHz | -47.64 dBm | -22.64 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48777 GHz | -47.71 dBm | -22.71 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19019 GHz | -44.60 dBm | -19.60 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95125 GHz | -42.17 dBm | -17.17 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84076 GHz | -38.47 dBm | -13.47 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90813 GHz | -38.33 dBm | -13.33 dB |

Date: 28.DEC.2019 11:29:42

### Lowest Channel / 16QAM

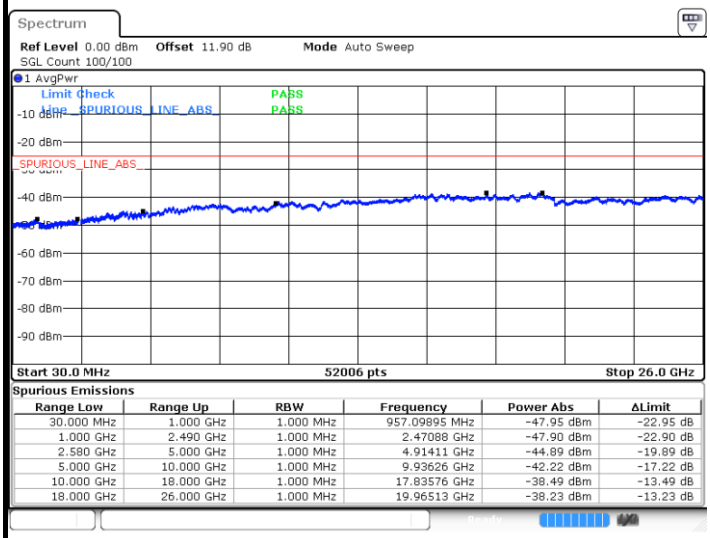



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.42829 MHz | -47.87 dBm | -22.87 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.44358 GHz | -47.79 dBm | -22.79 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92088 GHz | -44.75 dBm | -19.75 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.54450 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83826 GHz | -38.27 dBm | -13.27 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90763 GHz | -38.20 dBm | -13.20 dB |

Date: 28.DEC.2019 11:30:42

### Middle Channel / QPSK

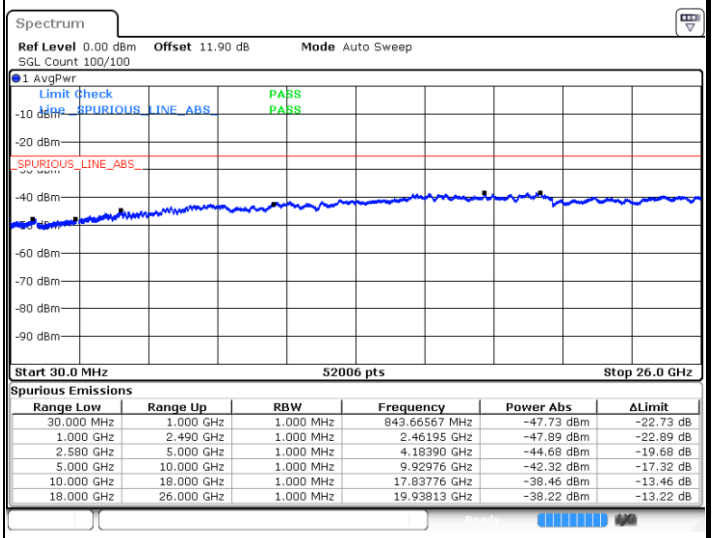



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 957.09895 MHz | -47.95 dBm | -22.95 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47088 GHz | -47.90 dBm | -22.90 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.91411 GHz | -44.89 dBm | -19.89 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93626 GHz | -42.22 dBm | -17.22 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83576 GHz | -38.49 dBm | -13.49 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.96513 GHz | -38.23 dBm | -13.23 dB |

Date: 28.DEC.2019 11:32:28

### Middle Channel / 16QAM



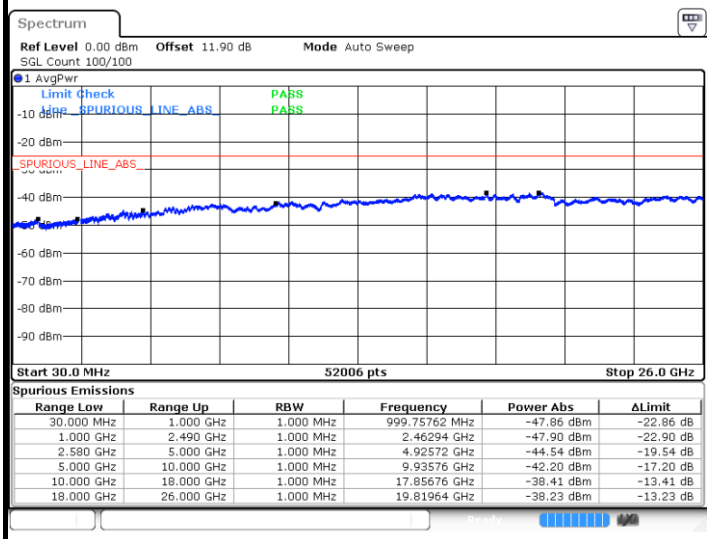

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 843.66567 MHz | -47.73 dBm | -22.73 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46195 GHz | -47.89 dBm | -22.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18390 GHz | -44.68 dBm | -19.68 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.92976 GHz | -42.32 dBm | -17.32 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83776 GHz | -38.46 dBm | -13.46 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93813 GHz | -38.22 dBm | -13.22 dB |

Date: 28.DEC.2019 11:33:27

## LTE Band7 / 15MHz

### Highest Channel / QPSK

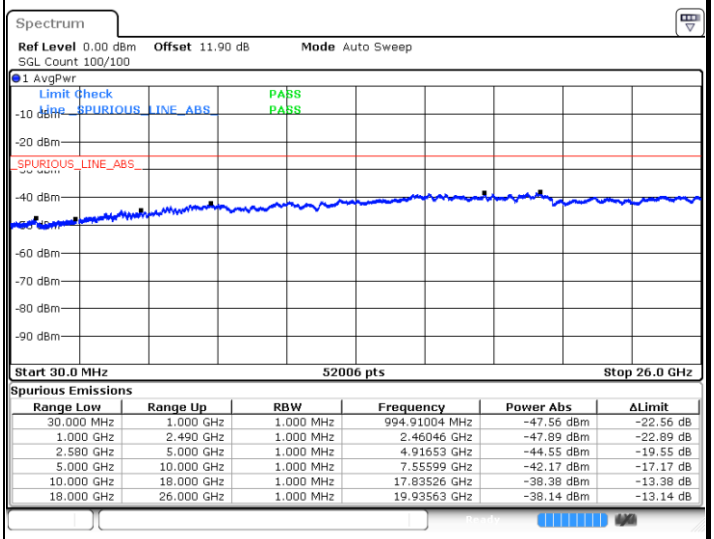



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 999.75762 MHz | -47.86 dBm | -22.86 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46294 GHz | -47.90 dBm | -22.90 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92572 GHz | -44.54 dBm | -19.54 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93576 GHz | -42.20 dBm | -17.20 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85676 GHz | -38.41 dBm | -13.41 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81964 GHz | -38.23 dBm | -13.23 dB |

Date: 28.DEC.2019 11:40:41

### Highest Channel / 16QAM



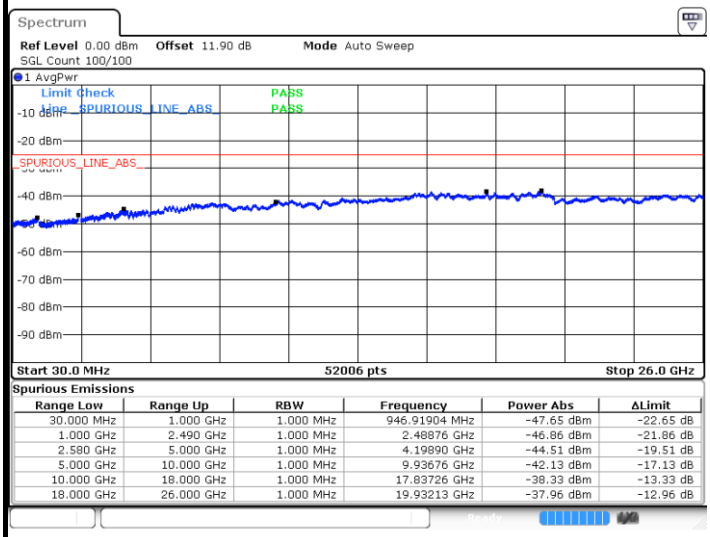

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -47.56 dBm | -22.56 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46046 GHz | -47.89 dBm | -22.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.91653 GHz | -44.55 dBm | -19.55 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.55599 GHz | -42.17 dBm | -17.17 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83526 GHz | -38.38 dBm | -13.38 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93563 GHz | -38.14 dBm | -13.14 dB |

Date: 28.DEC.2019 11:41:41

## LTE Band 7 / 20MHz

### Lowest Channel / QPSK

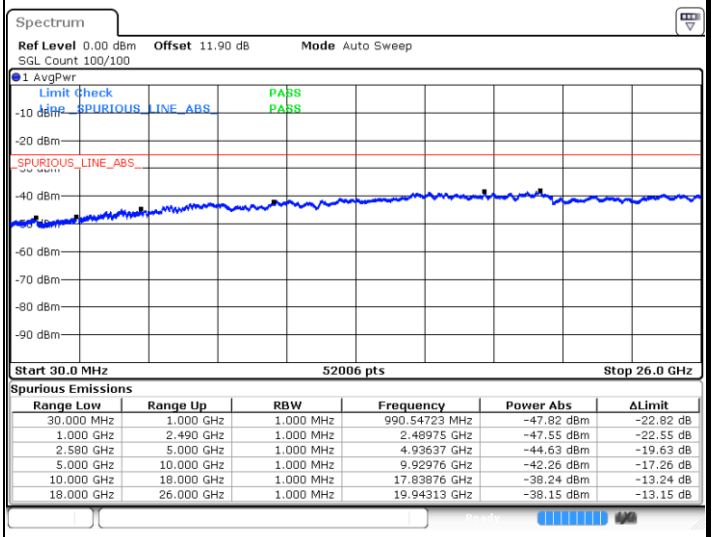



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 946.91904 MHz | -47.65 dBm | -22.65 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48876 GHz | -46.86 dBm | -21.86 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19890 GHz | -44.51 dBm | -19.51 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93676 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83726 GHz | -38.33 dBm | -13.33 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93213 GHz | -37.96 dBm | -12.96 dB |

Date: 28.DEC.2019 11:58:34

### Lowest Channel / 16QAM



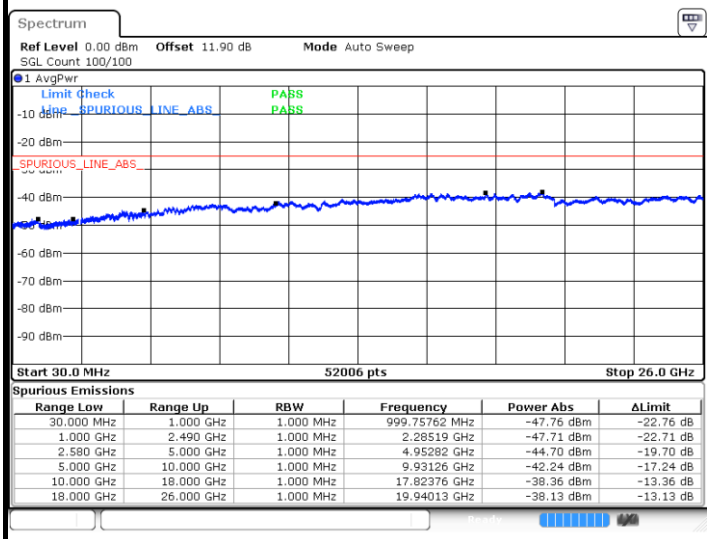

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 990.54723 MHz | -47.82 dBm | -22.82 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -47.55 dBm | -22.55 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93637 GHz | -44.63 dBm | -19.63 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.92976 GHz | -42.26 dBm | -17.26 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83876 GHz | -38.24 dBm | -13.24 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94313 GHz | -38.15 dBm | -13.15 dB |

Date: 28.DEC.2019 11:59:34

## LTE Band 7 / 20MHz

### Middle Channel / QPSK

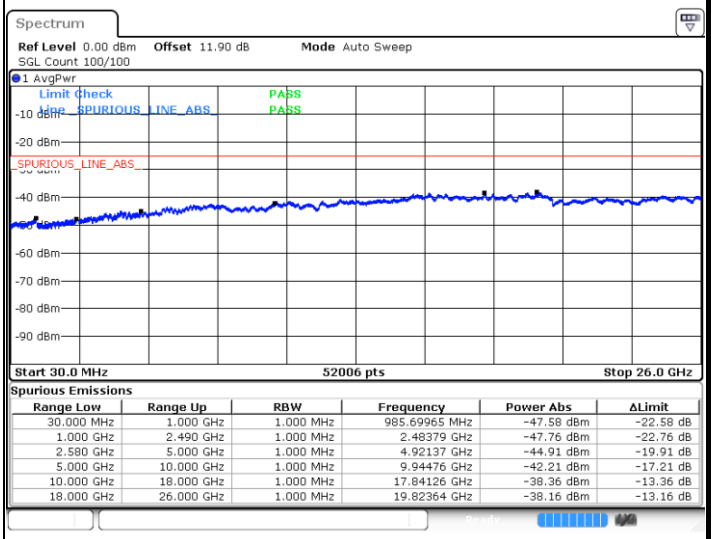



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 999.75762 MHz | -47.76 dBm | -22.76 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.28519 GHz | -47.71 dBm | -22.71 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.95282 GHz | -44.70 dBm | -19.70 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93126 GHz | -42.24 dBm | -17.24 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.82376 GHz | -38.36 dBm | -13.36 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94013 GHz | -38.13 dBm | -13.13 dB |

Date: 28.DEC.2019 12:01:20

### Middle Channel / 16QAM

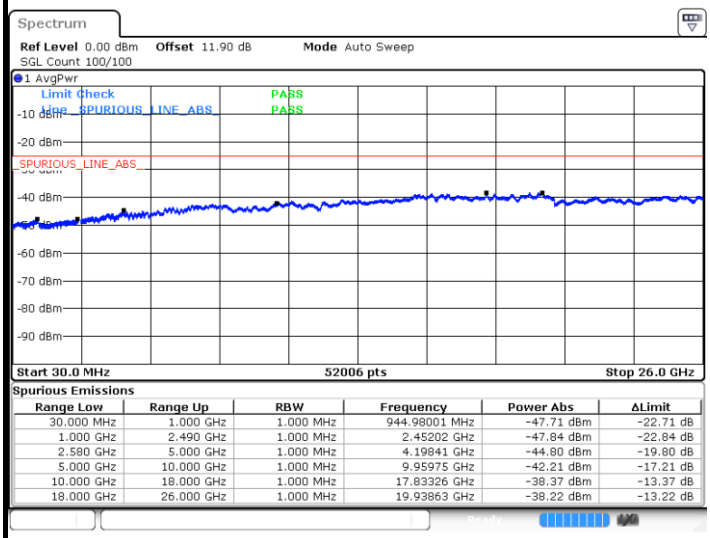



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 985.69965 MHz | -47.58 dBm | -22.58 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48379 GHz | -47.76 dBm | -22.76 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92137 GHz | -44.91 dBm | -19.91 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94476 GHz | -42.21 dBm | -17.21 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84126 GHz | -38.36 dBm | -13.36 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.82364 GHz | -38.16 dBm | -13.16 dB |

Date: 28.DEC.2019 12:02:19

### Highest Channel / QPSK

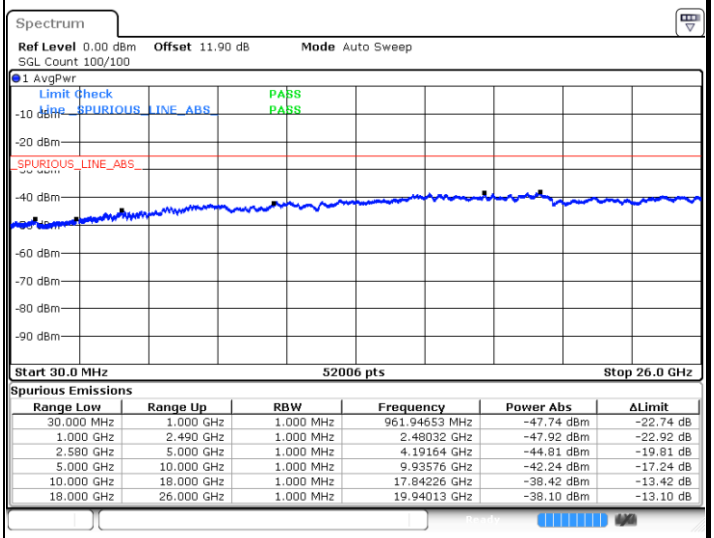



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 944.98001 MHz | -47.71 dBm | -22.71 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.45202 GHz | -47.84 dBm | -22.84 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19841 GHz | -44.80 dBm | -19.80 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95975 GHz | -42.21 dBm | -17.21 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83326 GHz | -38.37 dBm | -13.37 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93863 GHz | -38.22 dBm | -13.22 dB |

Date: 28.DEC.2019 12:09:33

### Highest Channel / 16QAM



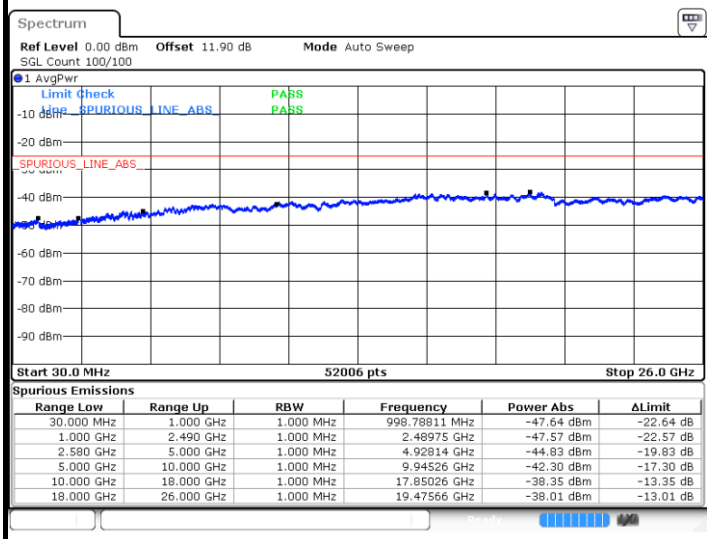

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 961.94653 MHz | -47.74 dBm | -22.74 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48032 GHz | -47.92 dBm | -22.92 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19164 GHz | -44.81 dBm | -19.81 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93576 GHz | -42.24 dBm | -17.24 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84226 GHz | -38.42 dBm | -13.42 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.94013 GHz | -38.10 dBm | -13.10 dB |

Date: 28.DEC.2019 12:10:33

## LTE Band 7 / 5MHz

### Lowest Channel / 64QAM

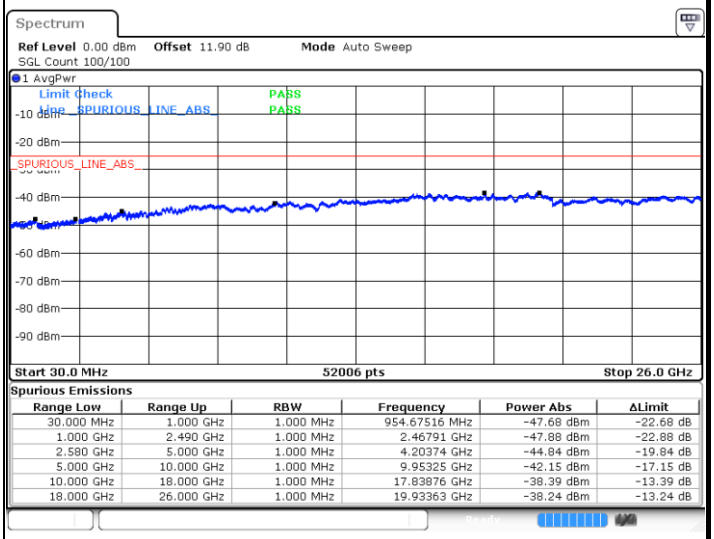



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 998.78811 MHz | -47.64 dBm | -22.64 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -47.57 dBm | -22.57 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92814 GHz | -44.83 dBm | -19.83 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94526 GHz | -42.30 dBm | -17.30 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85026 GHz | -38.35 dBm | -13.35 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.47566 GHz | -38.01 dBm | -13.01 dB |

Date: 28.DEC.2019 10:42:01

### Middle Channel / 64QAM

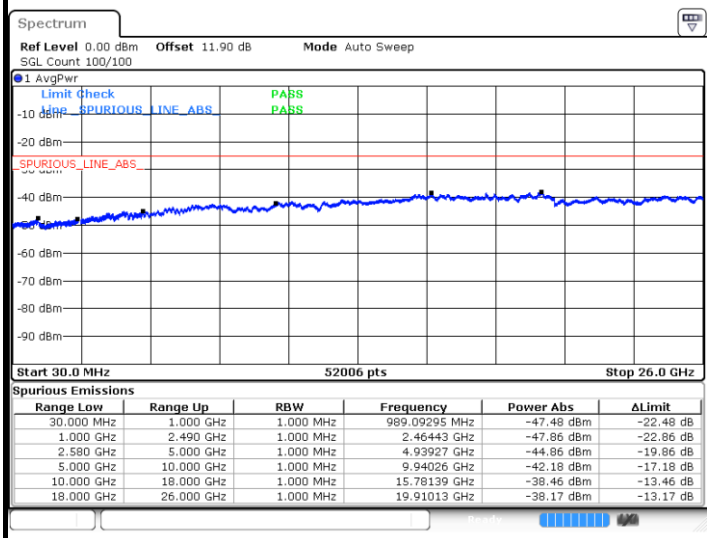



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 954.67516 MHz | -47.68 dBm | -22.68 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46791 GHz | -47.88 dBm | -22.88 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20374 GHz | -44.84 dBm | -19.84 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95325 GHz | -42.15 dBm | -17.15 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83876 GHz | -38.39 dBm | -13.39 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93363 GHz | -38.24 dBm | -13.24 dB |

Date: 28.DEC.2019 10:43:23

### Highest Channel / 64QAM



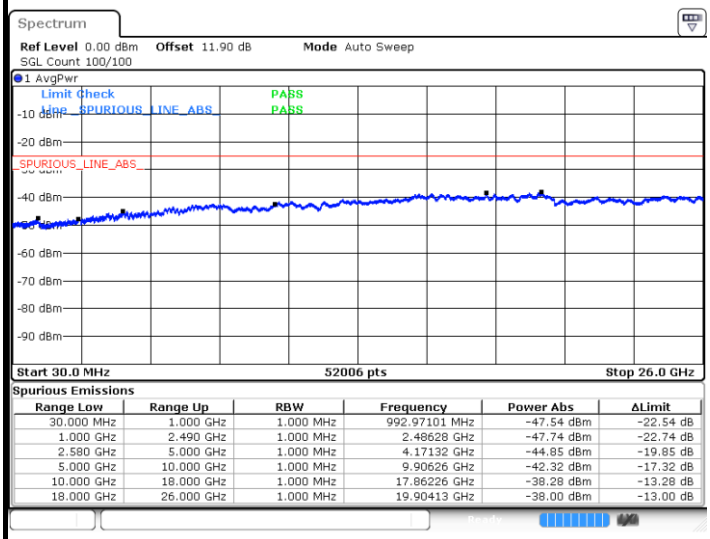

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 989.09295 MHz | -47.48 dBm | -22.48 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46443 GHz | -47.86 dBm | -22.86 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93927 GHz | -44.86 dBm | -19.86 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94026 GHz | -42.18 dBm | -17.18 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 15.78139 GHz | -38.46 dBm | -13.46 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.91013 GHz | -38.17 dBm | -13.17 dB |

Date: 28.DEC.2019 10:47:30

## LTE Band 7 / 10MHz

### Lowest Channel / 64QAM

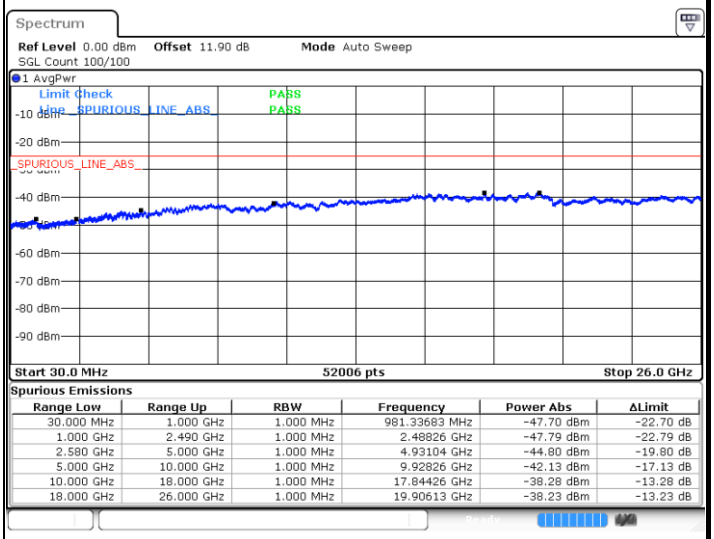



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 992.97101 MHz | -47.54 dBm | -22.54 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48628 GHz | -47.74 dBm | -22.74 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.17132 GHz | -44.85 dBm | -19.85 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.90626 GHz | -42.32 dBm | -17.32 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.86226 GHz | -38.28 dBm | -13.28 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90413 GHz | -38.00 dBm | -13.00 dB |

Date: 28.DEC.2019 11:10:50

### Middle Channel / 64QAM

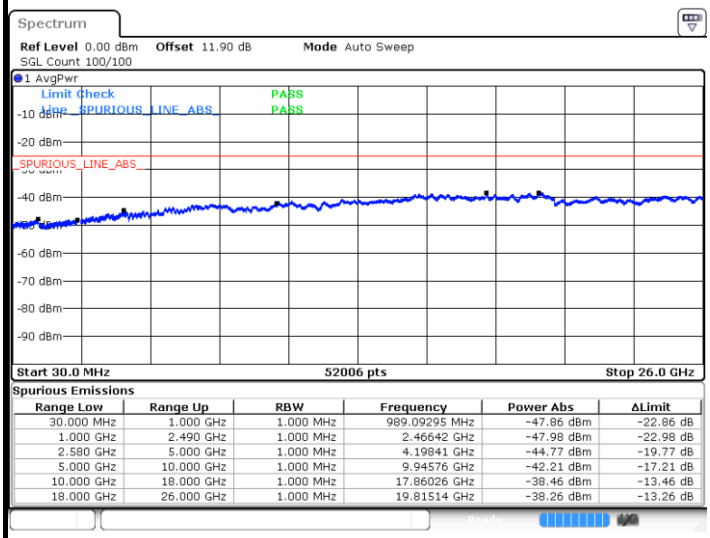



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 981.33683 MHz | -47.70 dBm | -22.70 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48826 GHz | -47.79 dBm | -22.79 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93104 GHz | -44.80 dBm | -19.80 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.92826 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84426 GHz | -38.28 dBm | -13.28 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90613 GHz | -38.23 dBm | -13.23 dB |

Date: 28.DEC.2019 11:18:19

### Highest Channel / 64QAM



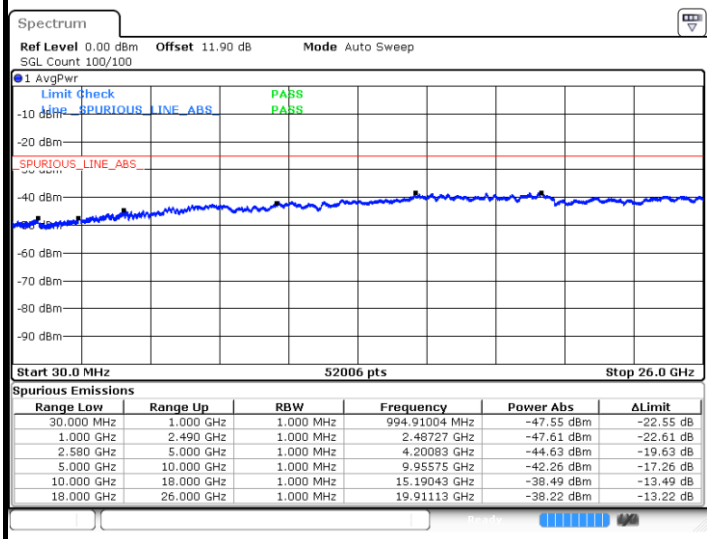

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 989.09295 MHz | -47.86 dBm | -22.86 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46642 GHz | -47.98 dBm | -22.98 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19841 GHz | -44.77 dBm | -19.77 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94576 GHz | -42.21 dBm | -17.21 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.86026 GHz | -38.46 dBm | -13.46 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81514 GHz | -38.26 dBm | -13.26 dB |

Date: 28.DEC.2019 11:22:26

## LTE Band 7 / 15MHz

### Lowest Channel / 64QAM

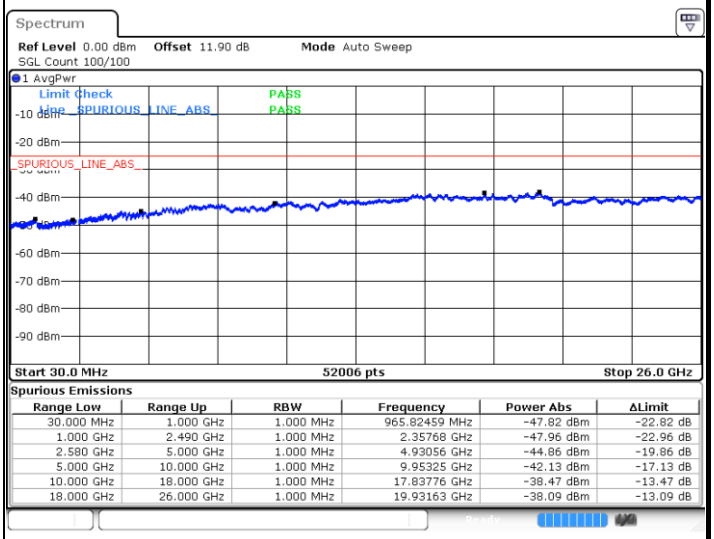



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -47.55 dBm | -22.55 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48727 GHz | -47.61 dBm | -22.61 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20083 GHz | -44.63 dBm | -19.63 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95575 GHz | -42.26 dBm | -17.26 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 15.19043 GHz | -38.49 dBm | -13.49 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.91113 GHz | -38.22 dBm | -13.22 dB |

Date: 28.DEC.2019 11:45:49

### Middle Channel / 64QAM

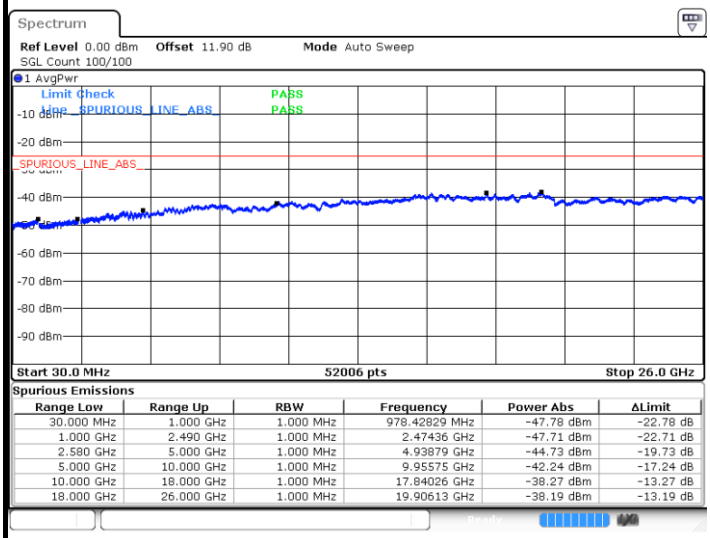



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 965.82459 MHz | -47.82 dBm | -22.82 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.35768 GHz | -47.96 dBm | -22.96 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93056 GHz | -44.86 dBm | -19.86 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95325 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83776 GHz | -38.47 dBm | -13.47 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93163 GHz | -38.09 dBm | -13.09 dB |

Date: 28.DEC.2019 11:47:11

### Highest Channel / 64QAM



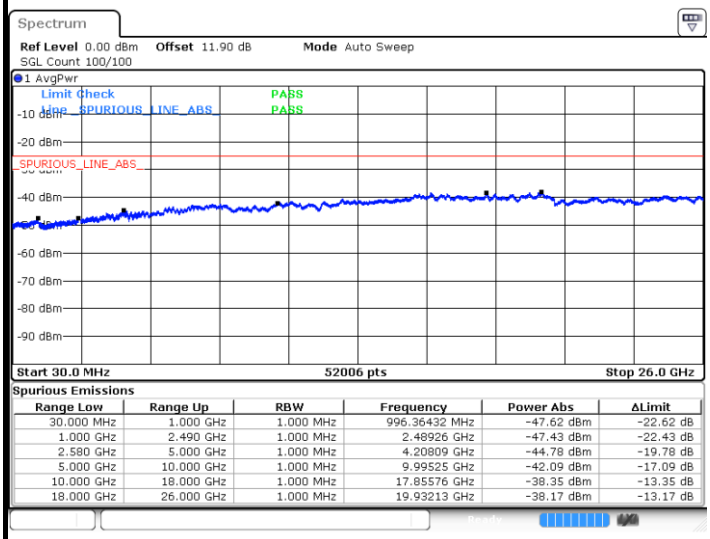

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.42829 MHz | -47.78 dBm | -22.78 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47436 GHz | -47.71 dBm | -22.71 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93879 GHz | -44.73 dBm | -19.73 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95575 GHz | -42.24 dBm | -17.24 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84026 GHz | -38.27 dBm | -13.27 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90613 GHz | -38.19 dBm | -13.19 dB |

Date: 28.DEC.2019 11:51:18

## LTE Band 7 / 20MHz

### Lowest Channel / 64QAM

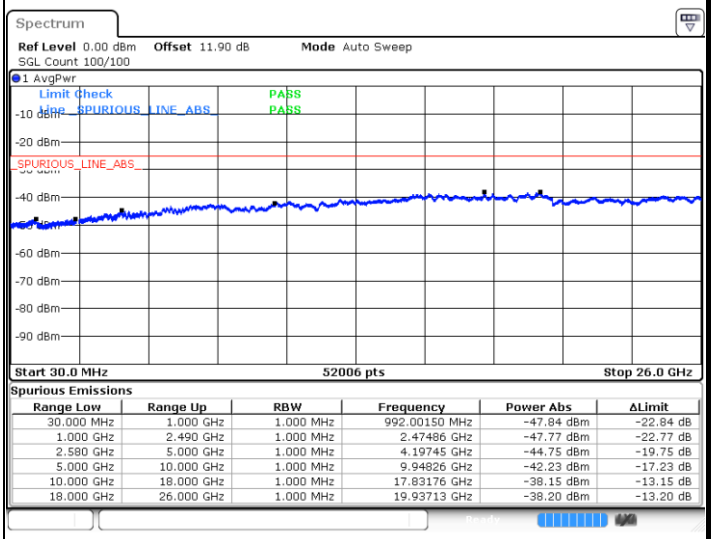



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 996.36432 MHz | -47.62 dBm | -22.62 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48926 GHz | -47.43 dBm | -22.43 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20809 GHz | -44.78 dBm | -19.78 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.99525 GHz | -42.09 dBm | -17.09 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85576 GHz | -38.35 dBm | -13.35 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93213 GHz | -38.17 dBm | -13.17 dB |

Date: 28.DEC.2019 12:14:40

### Middle Channel / 64QAM

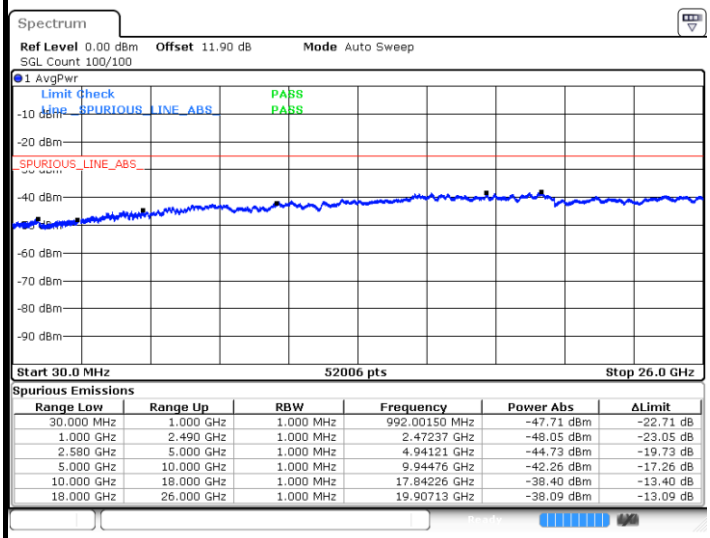



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 992.00150 MHz | -47.84 dBm | -22.84 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47486 GHz | -47.77 dBm | -22.77 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19745 GHz | -44.75 dBm | -19.75 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94826 GHz | -42.23 dBm | -17.23 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83176 GHz | -38.15 dBm | -13.15 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.93713 GHz | -38.20 dBm | -13.20 dB |

Date: 28.DEC.2019 12:16:03

### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 992.00150 MHz | -47.71 dBm | -22.71 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47237 GHz | -48.05 dBm | -23.05 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.94121 GHz | -44.73 dBm | -19.73 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94476 GHz | -42.26 dBm | -17.26 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84226 GHz | -38.40 dBm | -13.40 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.90713 GHz | -38.09 dBm | -13.09 dB |

Date: 28.DEC.2019 12:20:10

# Frequency Stability

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0009 | PASS |
| 40 | Normal Voltage | 0.0001 | |
| 30 | Normal Voltage | 0.0004 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0009 | |
| 0 | Normal Voltage | 0.0022 | |
| -10 | Normal Voltage | 0.0004 | |
| -20 | Normal Voltage | 0.0004 | |
| -30 | Normal Voltage | 0.0033 | |
| 20 | Maximum Voltage | 0.0006 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0007 | |

**Note:**

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.65 V.；Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

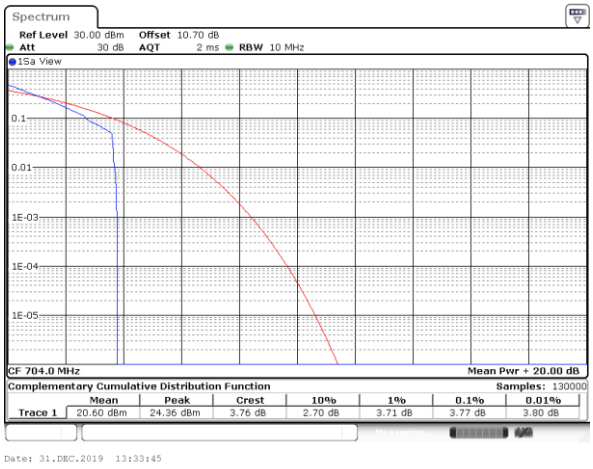
# LTE Band 12

## Peak-to-Average Ratio

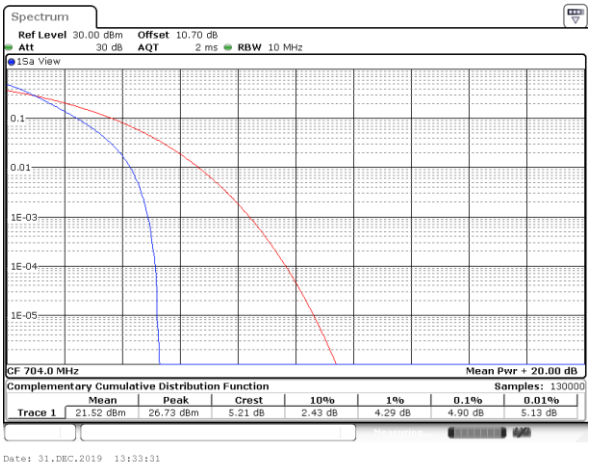
| Mode | LTE Band 12 / 10MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.77 | 4.90 | 4.49 | 5.80 | PASS |
| Middle CH | 3.59 | 4.84 | 5.36 | 5.88 | |
| Highest CH | 3.51 | 4.90 | 5.04 | 5.77 | |
| Mode | LTE Band 12 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 5.71 | 6.35 | - | - | PASS |
| Middle CH | 6.64 | 6.35 | - | - | |
| Highest CH | 6.43 | 6.17 | - | - | |

## LTE Band 12 / 10MHz / QPSK

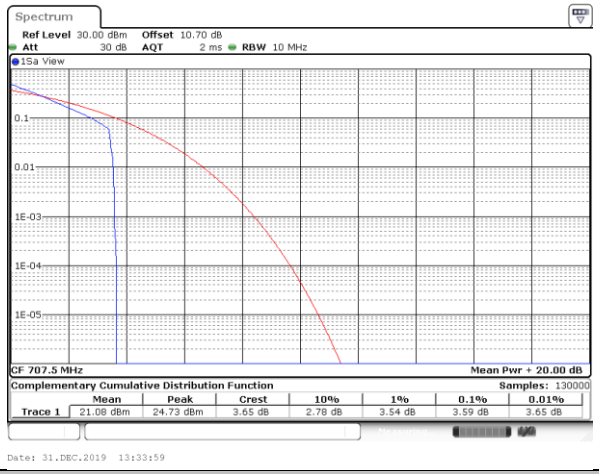
### Lowest Channel / 1RB



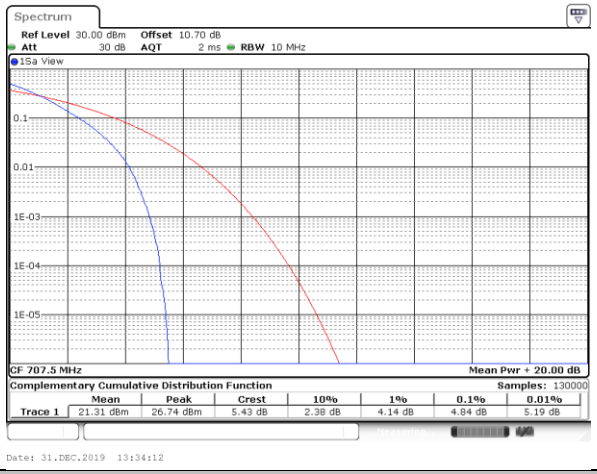

### Lowest Channel / Full RB



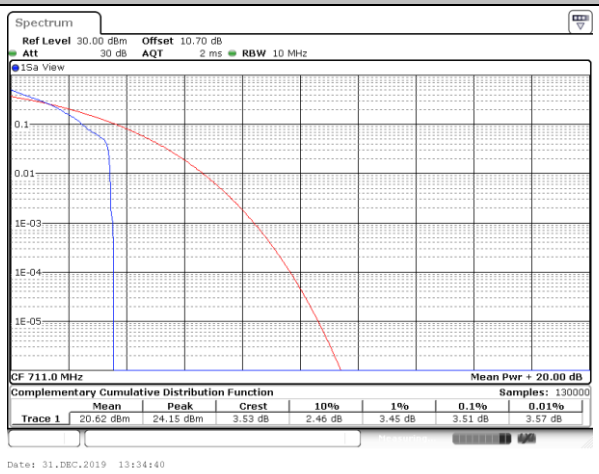

### Middle Channel / 1RB



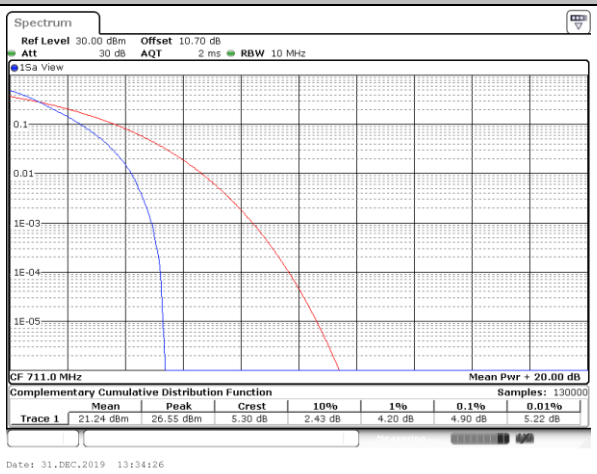

### Middle Channel / Full RB




### Highest Channel / 1RB

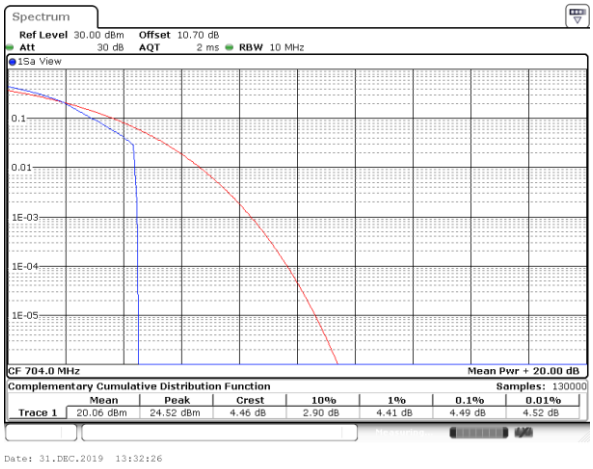



### Highest Channel / Full RB

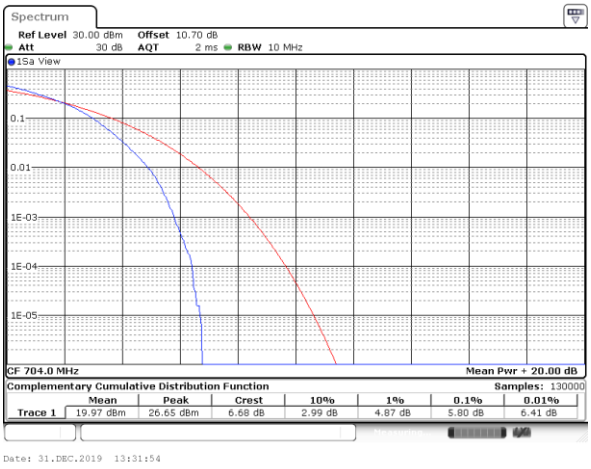


## LTE Band 12 / 10MHz / 16QAM

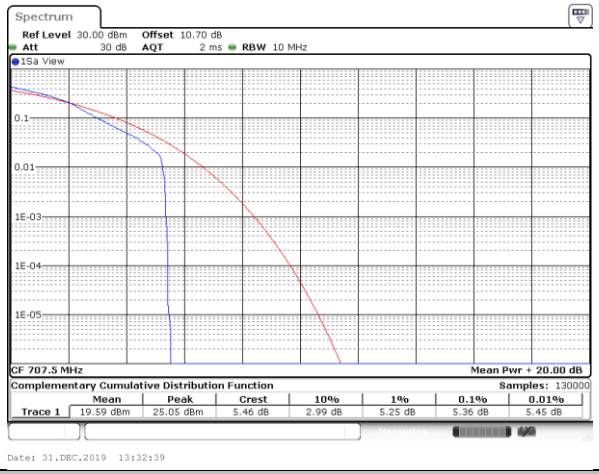
### Lowest Channel / 1RB



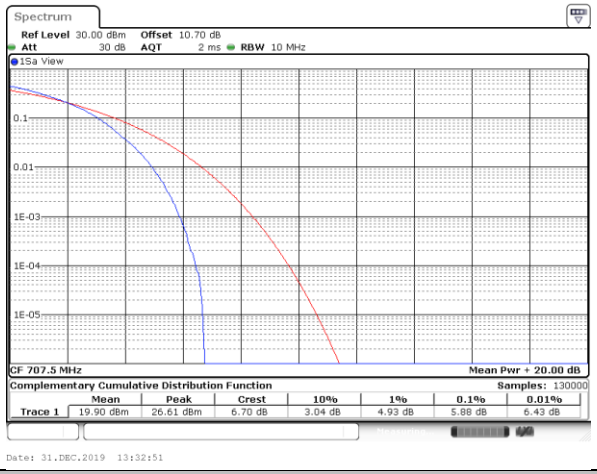

### Lowest Channel / Full RB



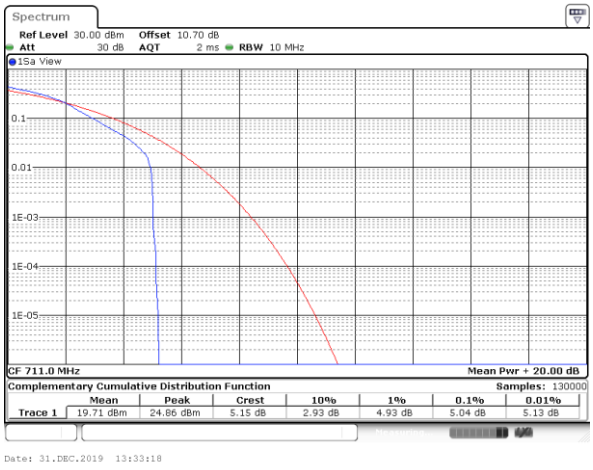

### Middle Channel / 1RB



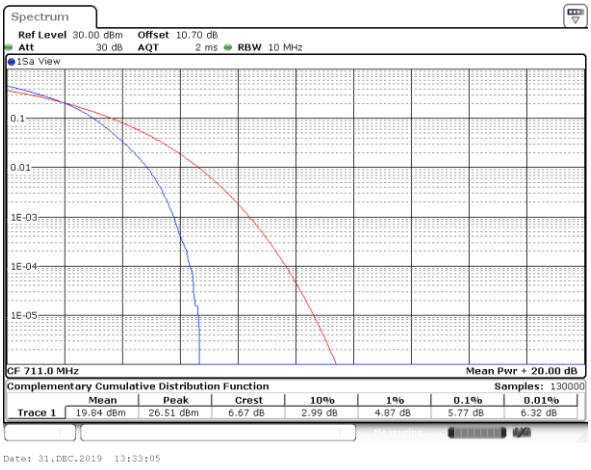

### Middle Channel / Full RB




### Highest Channel / 1RB

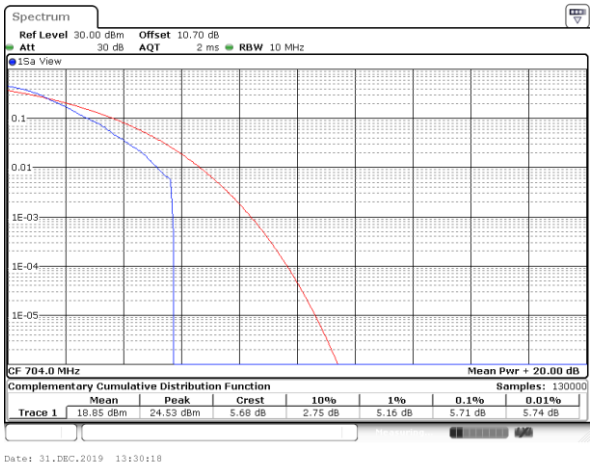



### Highest Channel / Full RB

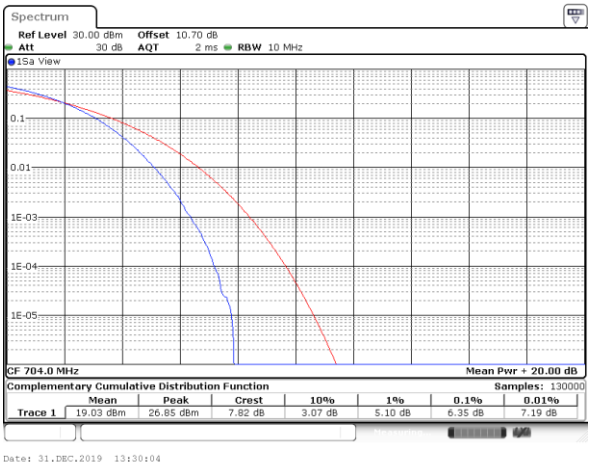


## LTE Band 12 / 10MHz / 64QAM

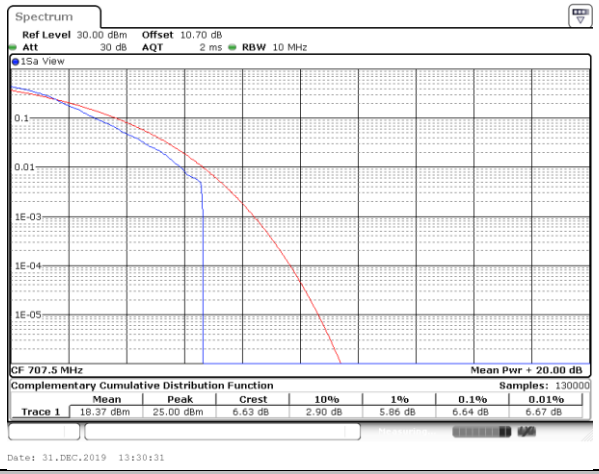
### Lowest Channel / 1RB



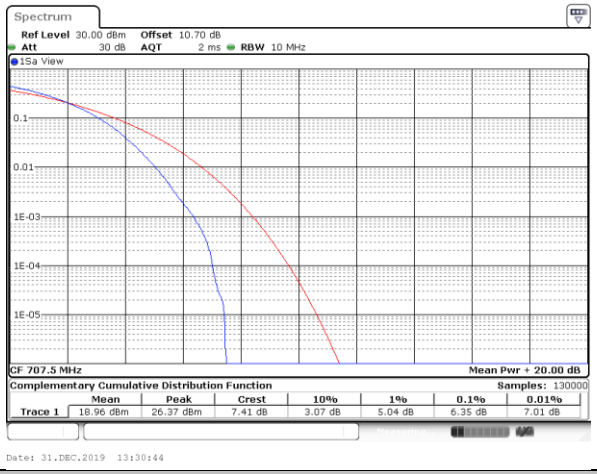

### Lowest Channel / Full RB



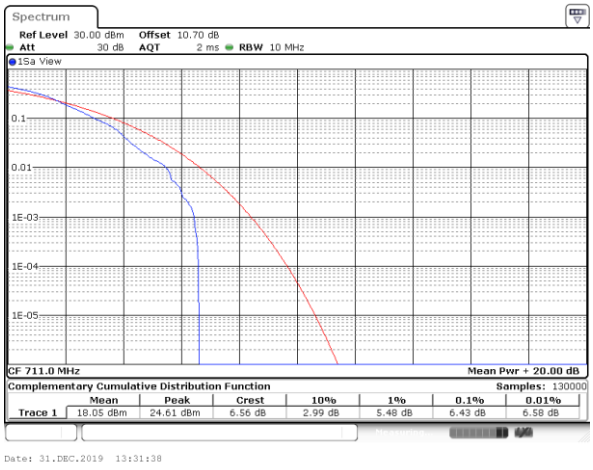

### Middle Channel / 1RB



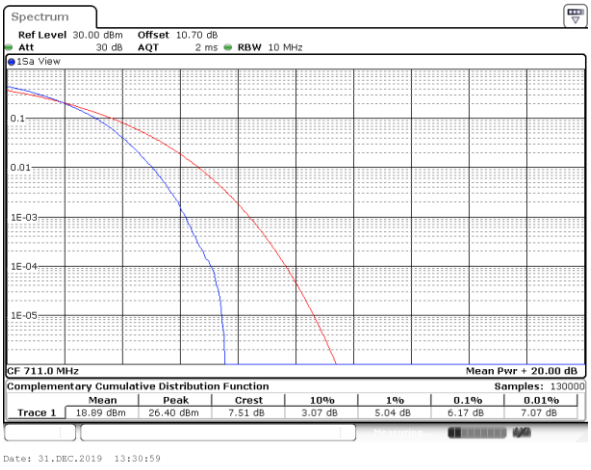

### Middle Channel / Full RB




### Highest Channel / 1RB




### Highest Channel / Full RB

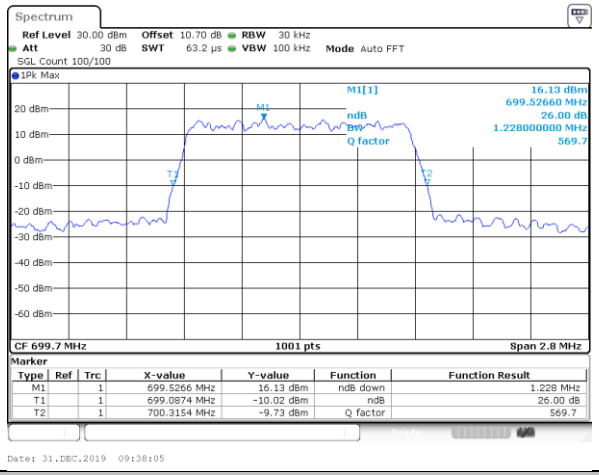


# 26dB Bandwidth

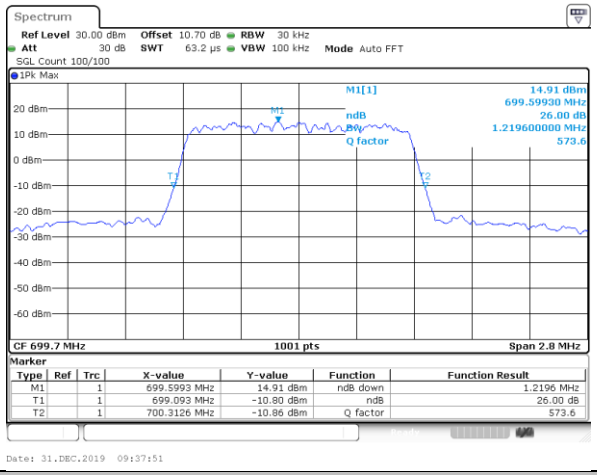
| Mode | LTE Band 12 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.23 | 1.22 | 3.03 | 3.02 | 4.94 | 4.85 | 9.65 | 9.71 | - | - | - | - |
| Middle CH | 1.23 | 1.23 | 3.00 | 3.03 | 4.78 | 4.90 | 9.73 | 9.73 | - | - | - | - |
| Highest CH | 1.22 | 1.23 | 3.02 | 3.00 | 4.90 | 4.91 | 9.61 | 9.75 | - | - | - | - |
| Mode | LTE Band 12 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.24 | - | 3.03 | - | 4.87 | - | 9.75 | - | - | - | - | - |
| Middle CH | 1.21 | - | 3.04 | - | 4.87 | - | 9.71 | - | - | - | - | - |
| Highest CH | 1.22 | - | 3.04 | - | 4.88 | - | 9.85 | - | - | - | - | - |

## LTE Band 12

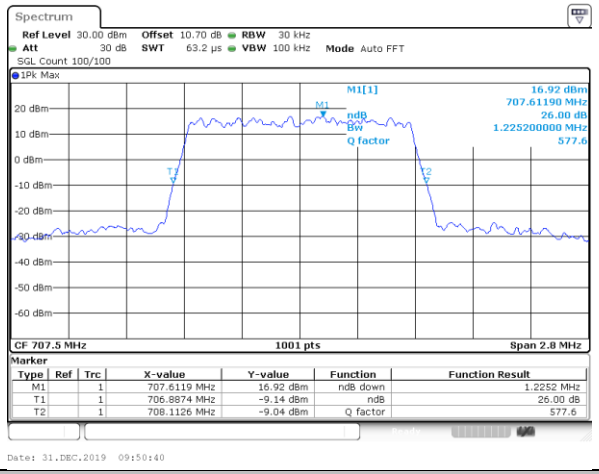
### Lowest Channel / 1.4MHz / QPSK



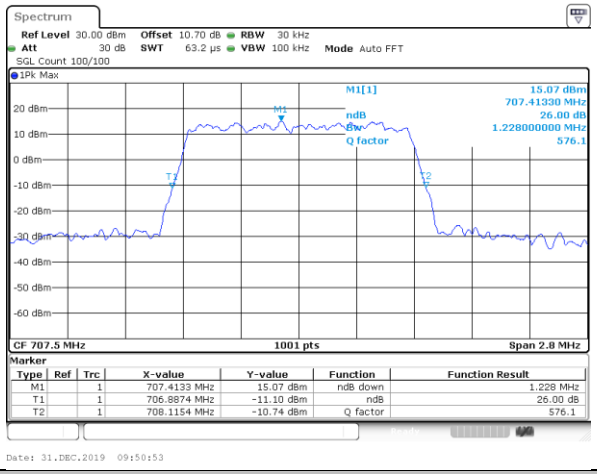

### Lowest Channel / 1.4MHz / 16QAM



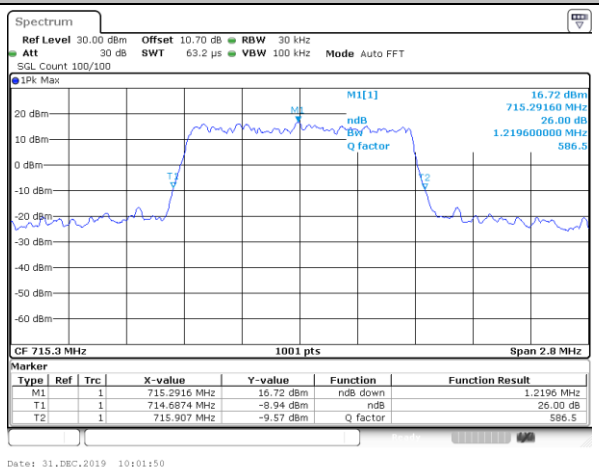

### Middle Channel / 1.4MHz / QPSK



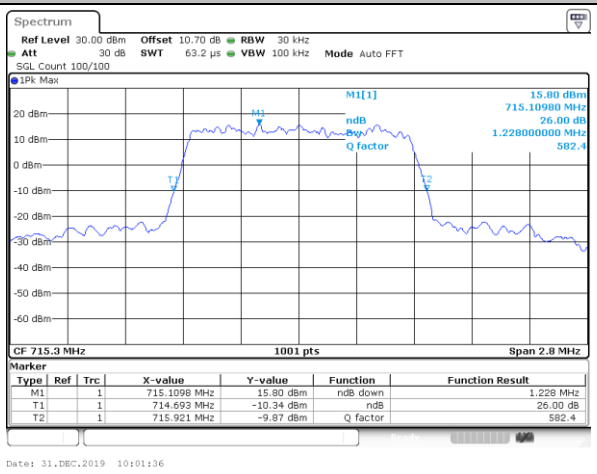

### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK

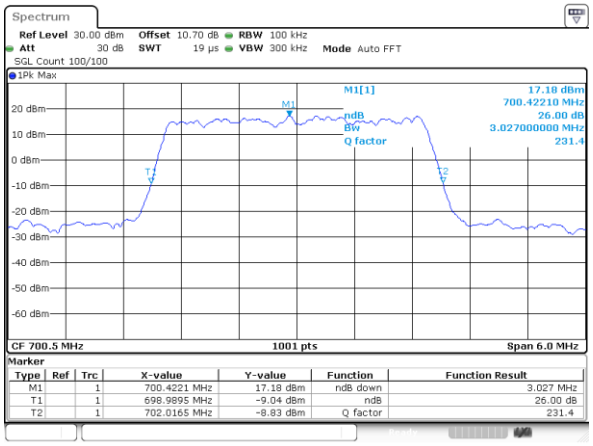



### Highest Channel / 1.4MHz / 16QAM

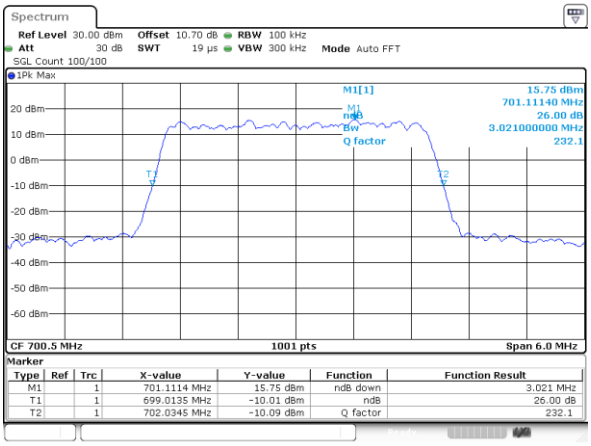


## LTE Band 12

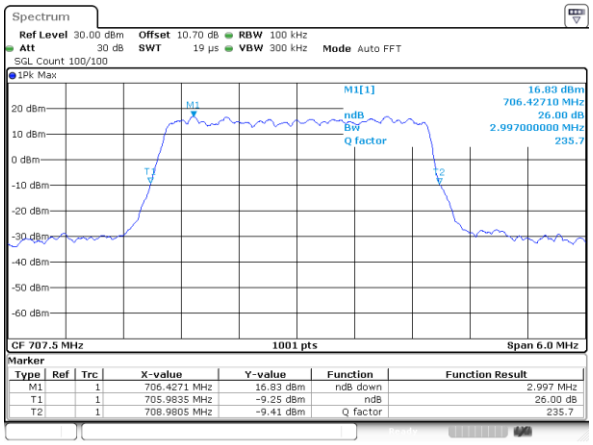
### Lowest Channel / 3MHz / QPSK



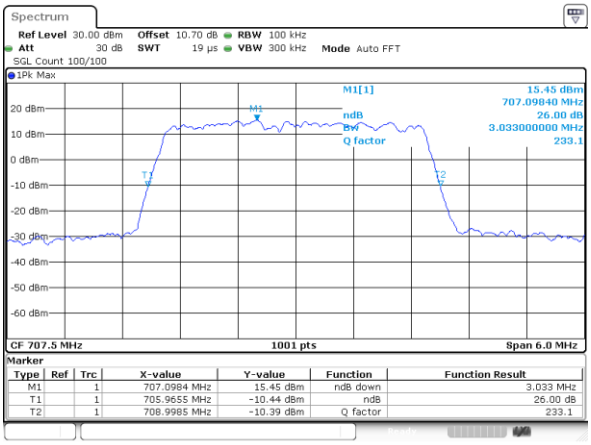

### Lowest Channel / 3MHz / 16QAM



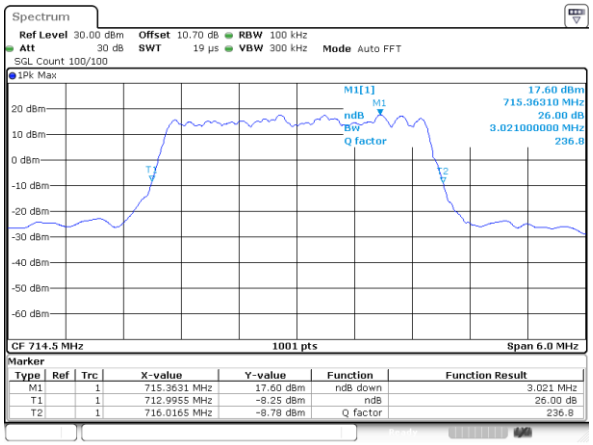

### Middle Channel / 3MHz / QPSK



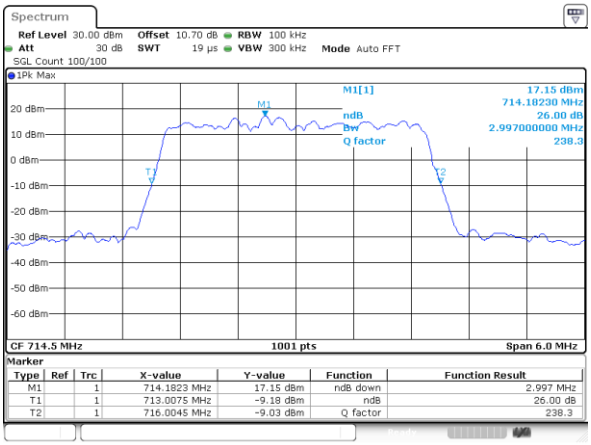

### Middle Channel / 3MHz / 16QAM




### Highest Channel / 3MHz / QPSK

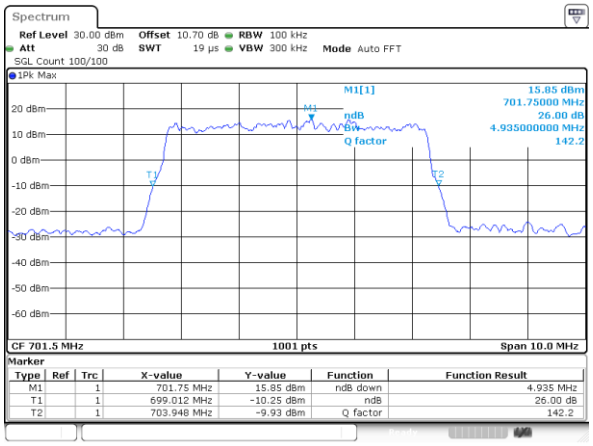



### Highest Channel / 3MHz / 16QAM

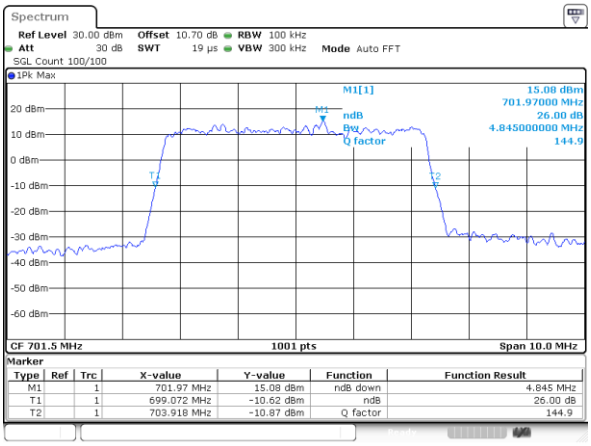


## LTE Band 12

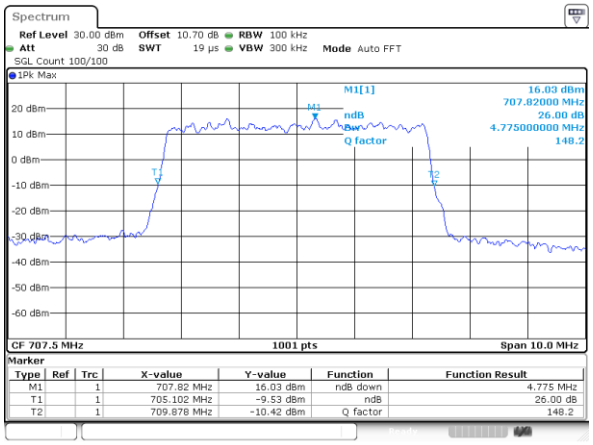
### Lowest Channel / 5MHz / QPSK



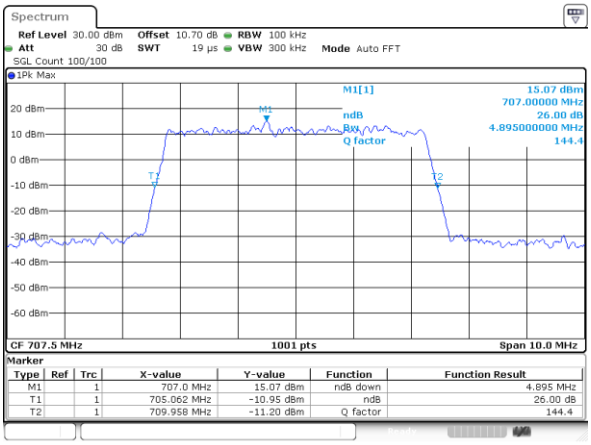

### Lowest Channel / 5MHz / 16QAM



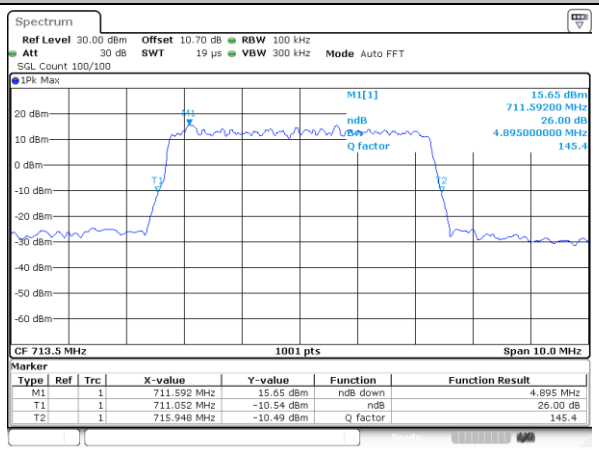

### Middle Channel / 5MHz / QPSK



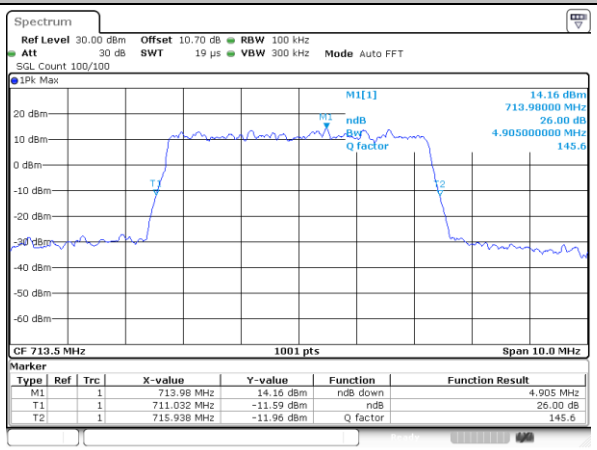

### Middle Channel / 5MHz / 16QAM




### Highest Channel / 5MHz / QPSK

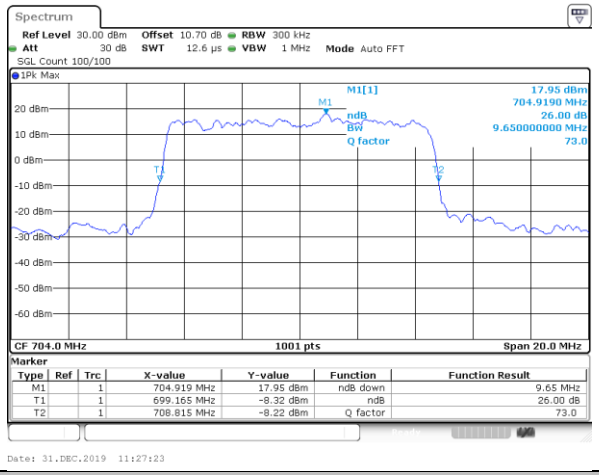



### Highest Channel / 5MHz / 16QAM

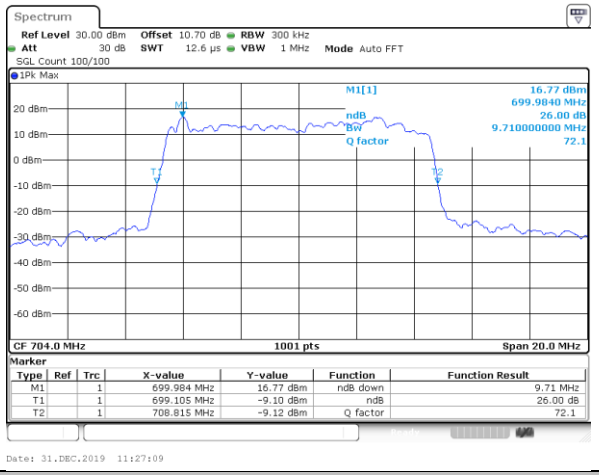


## LTE Band 12

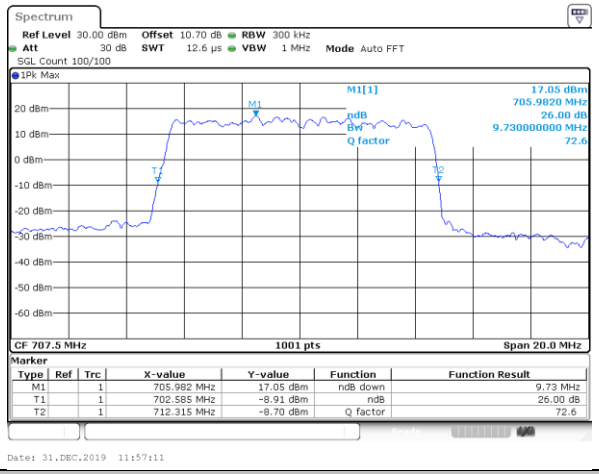
### Lowest Channel / 10MHz / QPSK



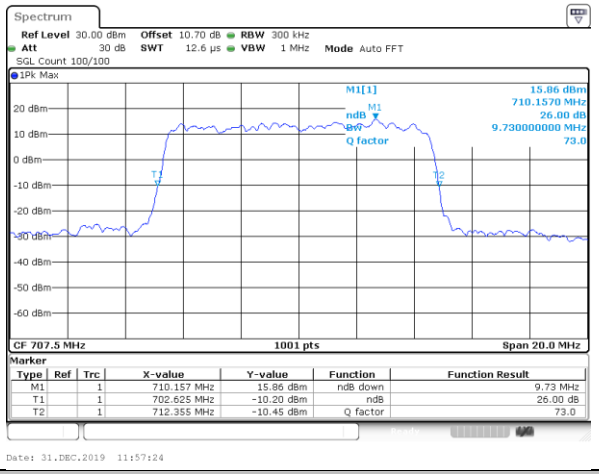

### Lowest Channel / 10MHz / 16QAM



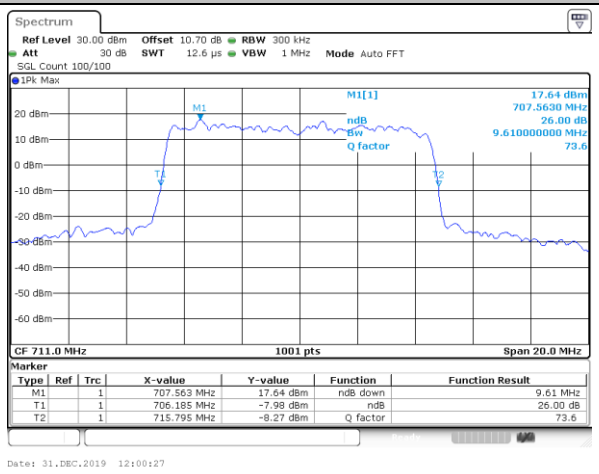

### Middle Channel / 10MHz / QPSK



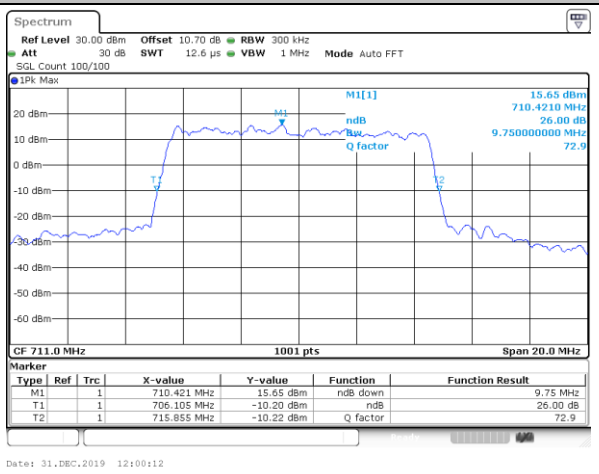

### Middle Channel / 10MHz / 16QAM




### Highest Channel / 10MHz / QPSK

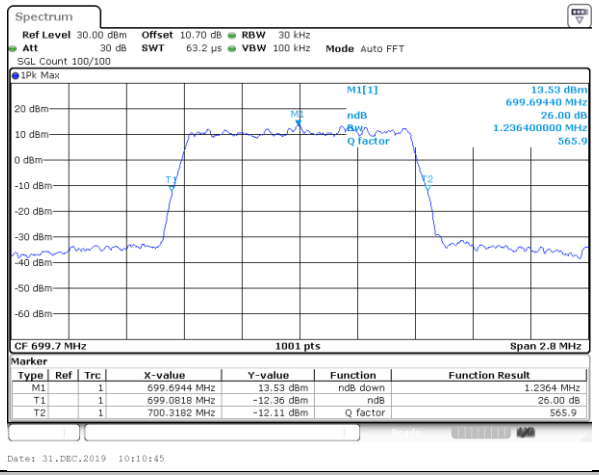



### Highest Channel / 10MHz / 16QAM

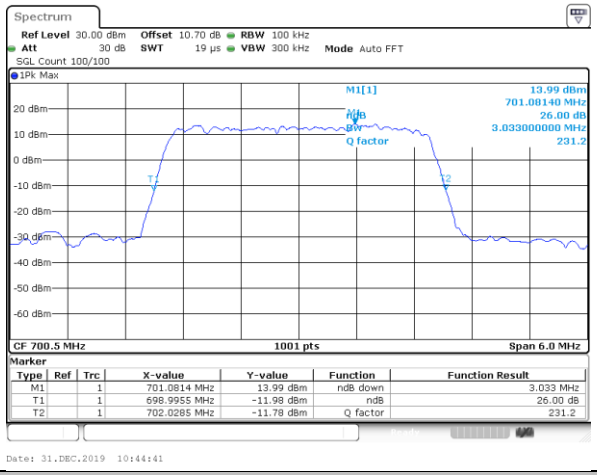


## LTE Band 12

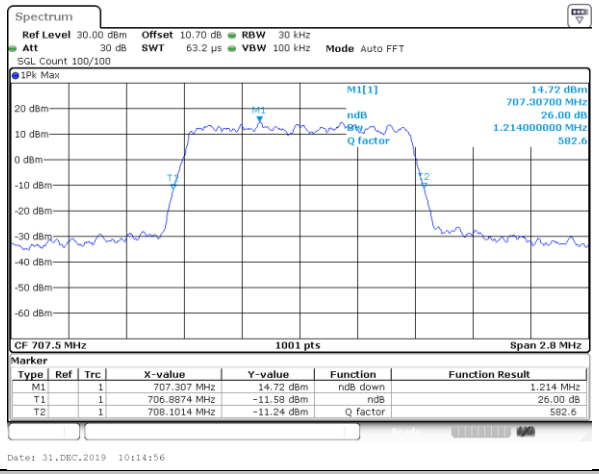
### Lowest Channel / 1.4MHz / 64QAM



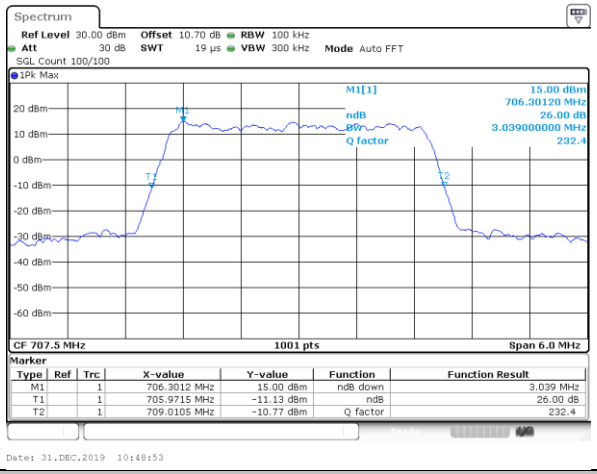

### Lowest Channel / 3MHz / 64QAM



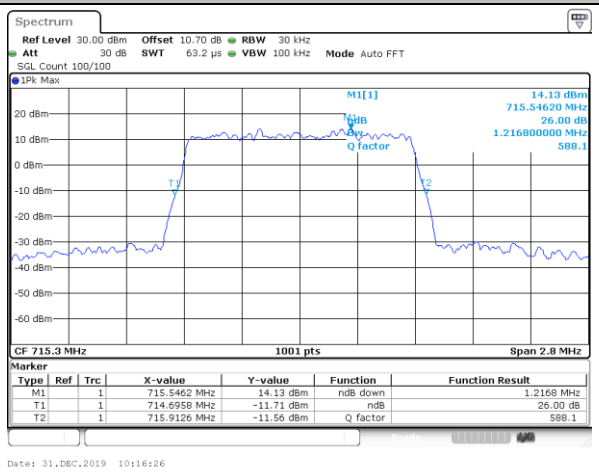

### Middle Channel / 1.4MHz / 64QAM



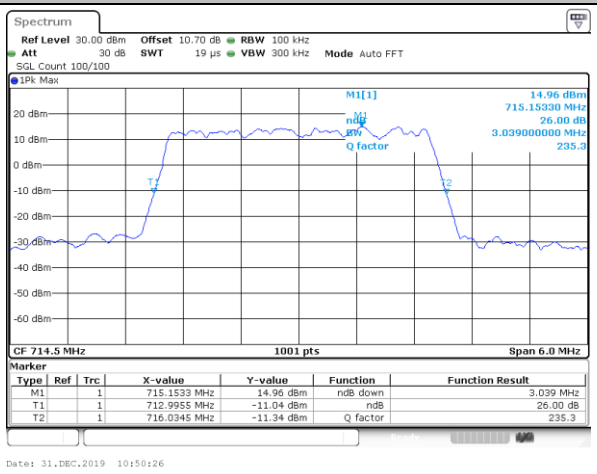

### Middle Channel / 3MHz / 64QAM




### Highest Channel / 1.4MHz / 64QAM

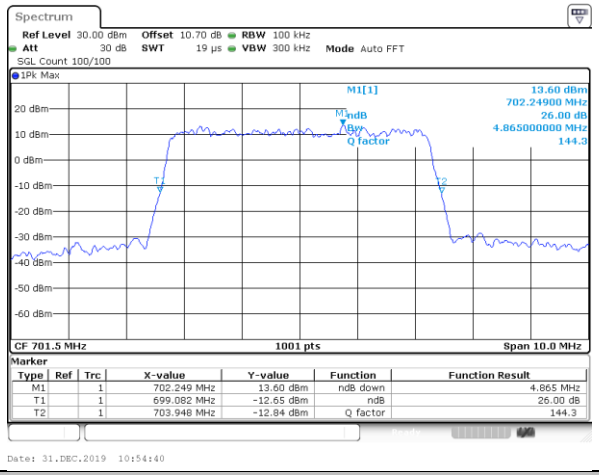



### Highest Channel / 3MHz / 64QAM

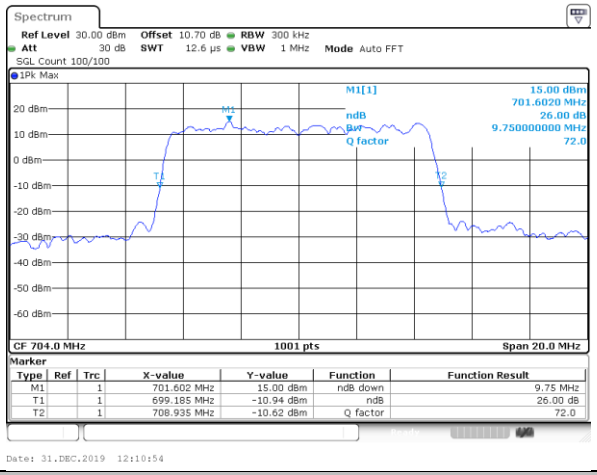


## LTE Band 12

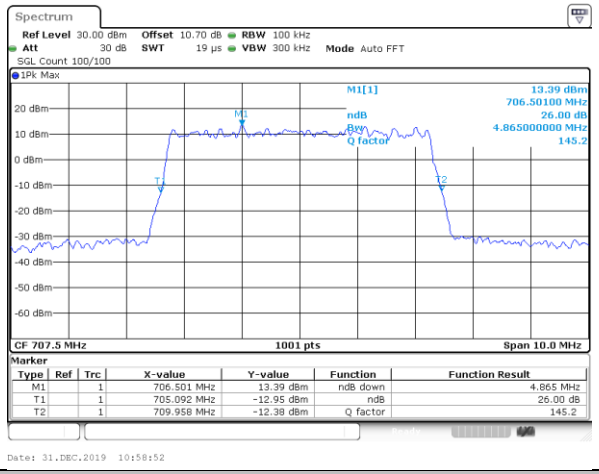
### Lowest Channel / 5MHz / 64QAM



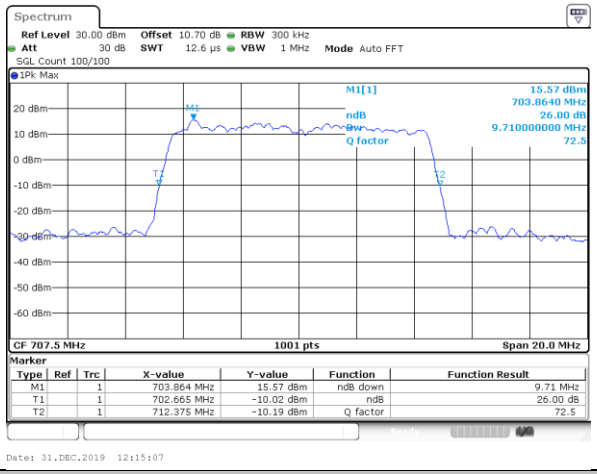

### Lowest Channel / 10MHz / 64QAM



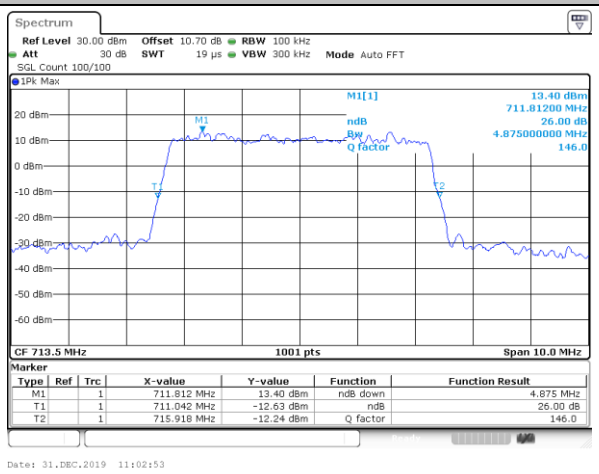

### Middle Channel / 5MHz / 64QAM



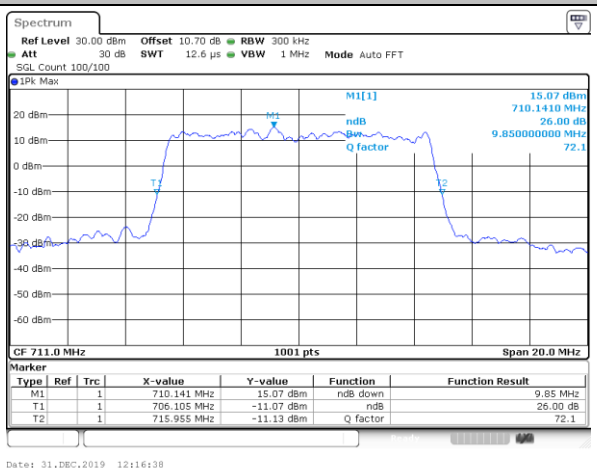

### Middle Channel / 10MHz / 64QAM




### Highest Channel / 5MHz / 64QAM




### Highest Channel / 10MHz / 64QAM

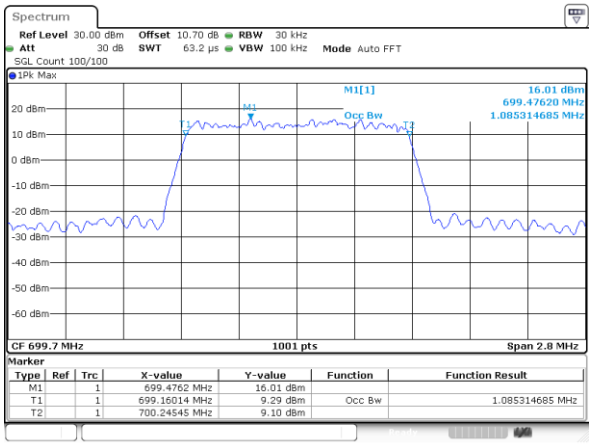


# Occupied Bandwidth

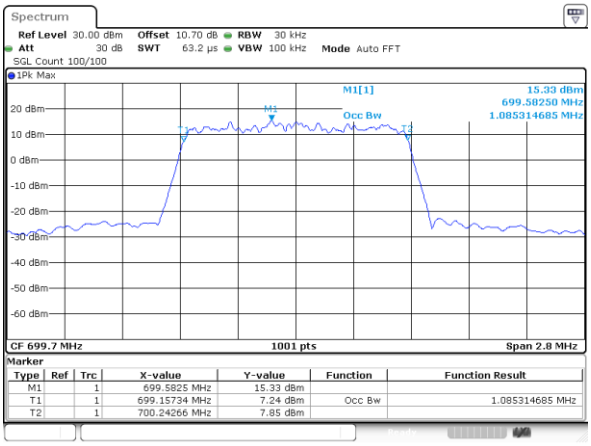
| Mode | LTE Band 12 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.09 | 2.72 | 2.70 | 4.49 | 4.50 | 9.03 | 9.01 | - | - | - | - |
| Middle CH | 1.09 | 1.10 | 2.70 | 2.69 | 4.50 | 4.51 | 9.03 | 8.99 | - | - | - | - |
| Highest CH | 1.09 | 1.09 | 2.73 | 2.73 | 4.51 | 4.49 | 9.03 | 9.01 | - | - | - | - |
| Mode | LTE Band 12 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.09 | - | 2.72 | - | 4.49 | - | 9.01 | - | - | - | - | - |
| Middle CH | 1.09 | - | 2.70 | - | 4.49 | - | 8.99 | - | - | - | - | - |
| Highest CH | 1.08 | - | 2.72 | - | 4.48 | - | 9.07 | - | - | - | - | - |

## LTE Band 12

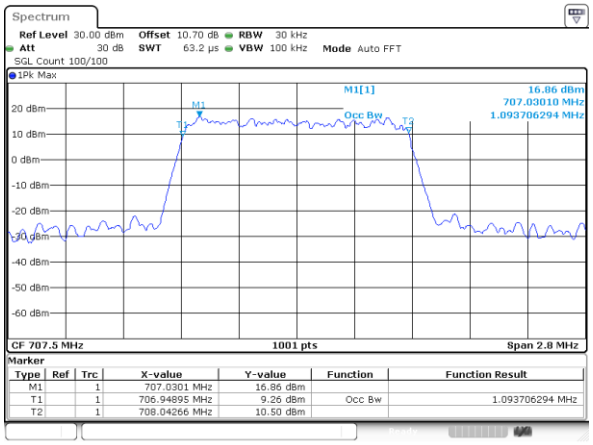
### Lowest Channel / 1.4MHz / QPSK



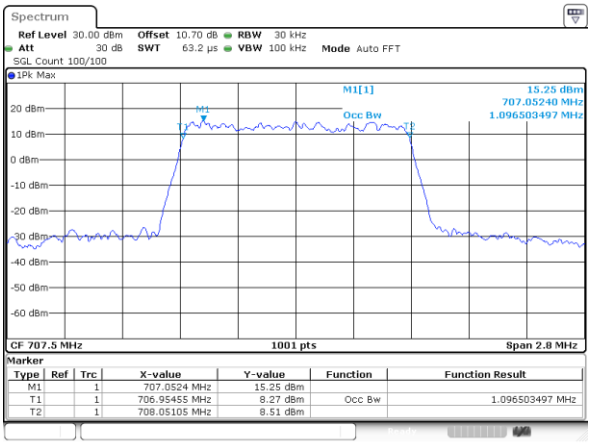

### Lowest Channel / 1.4MHz / 16QAM



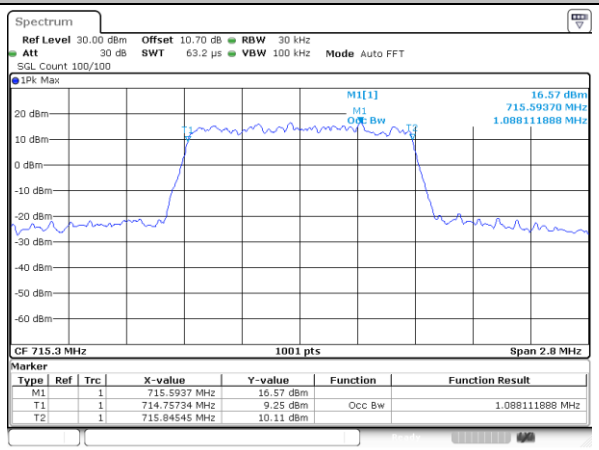

### Middle Channel / 1.4MHz / QPSK

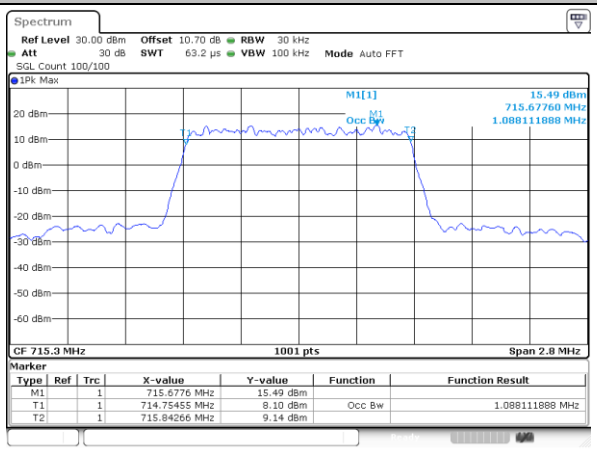



### Middle Channel / 1.4MHz / 16QAM




### Highest Channel / 1.4MHz / QPSK




### Highest Channel / 1.4MHz / 16QAM