

1. Effective (Isotropic) Radiated Power Output Data

1.1 B41_5MHz_EIRP

1.1.1 Test Result

| Band: 41 / Bandwidth: 5MHz / NTN | | | | | | | | | | |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict | | |
| | | Size | Offset | | | Result | Limit | | | |
| QPSK | 2498.5 | 1 | 0 | 24.95 | 0.00 | 24.95 | <=33.01 | Pass | | |
| | | | 13 | 25.00 | 0.00 | 25.00 | <=33.01 | Pass | | |
| | | | 24 | 24.99 | 0.00 | 24.99 | <=33.01 | Pass | | |
| | | 12 | 0 | 23.92 | 0.00 | 23.92 | <=33.01 | Pass | | |
| | | | 6 | 23.92 | 0.00 | 23.92 | <=33.01 | Pass | | |
| | | | 13 | 23.96 | 0.00 | 23.96 | <=33.01 | Pass | | |
| | | 25 | 0 | 23.88 | 0.00 | 23.88 | <=33.01 | Pass | | |
| | | 2593 | 1 | 0 | 24.68 | 0.00 | 24.68 | <=33.01 | Pass | |
| | | | | 13 | 24.87 | 0.00 | 24.87 | <=33.01 | Pass | |
| | 24 | | | 24.67 | 0.00 | 24.67 | <=33.01 | Pass | | |
| | 12 | | 0 | 23.68 | 0.00 | 23.68 | <=33.01 | Pass | | |
| | | | 6 | 23.67 | 0.00 | 23.67 | <=33.01 | Pass | | |
| | | | 13 | 23.68 | 0.00 | 23.68 | <=33.01 | Pass | | |
| | 25 | | 0 | 23.77 | 0.00 | 23.77 | <=33.01 | Pass | | |
| | 2687.5 | | 1 | 0 | 25.41 | 0.00 | 25.41 | <=33.01 | Pass | |
| | | | | 13 | 25.39 | 0.00 | 25.39 | <=33.01 | Pass | |
| | | 24 | | 25.35 | 0.00 | 25.35 | <=33.01 | Pass | | |
| | | 12 | 0 | 15.06 | 0.00 | 15.06 | <=33.01 | Pass | | |
| | | | 6 | 12.81 | 0.00 | 12.81 | <=33.01 | Pass | | |
| | | | 13 | 11.45 | 0.00 | 11.45 | <=33.01 | Pass | | |
| | | 25 | 0 | 12.98 | 0.00 | 12.98 | <=33.01 | Pass | | |
| | | 16QAM | 2498.5 | 1 | 0 | 23.85 | 0.00 | 23.85 | <=33.01 | Pass |
| | | | | | 13 | 24.01 | 0.00 | 24.01 | <=33.01 | Pass |
| | 24 | | | | 24.09 | 0.00 | 24.09 | <=33.01 | Pass | |
| 12 | 0 | | | 22.80 | 0.00 | 22.80 | <=33.01 | Pass | | |
| | 6 | | | 22.91 | 0.00 | 22.91 | <=33.01 | Pass | | |
| | 13 | | | 22.85 | 0.00 | 22.85 | <=33.01 | Pass | | |
| 25 | 0 | | | 22.81 | 0.00 | 22.81 | <=33.01 | Pass | | |
| 2593 | 1 | | | 0 | 23.68 | 0.00 | 23.68 | <=33.01 | Pass | |
| | | | | 13 | 23.69 | 0.00 | 23.69 | <=33.01 | Pass | |
| | | | 24 | 23.67 | 0.00 | 23.67 | <=33.01 | Pass | | |
| | 12 | | 0 | 22.63 | 0.00 | 22.63 | <=33.01 | Pass | | |
| | | | 6 | 22.76 | 0.00 | 22.76 | <=33.01 | Pass | | |
| | | | 13 | 22.64 | 0.00 | 22.64 | <=33.01 | Pass | | |
| | 25 | | 0 | 22.69 | 0.00 | 22.69 | <=33.01 | Pass | | |
| | 2687.5 | | 1 | 0 | 22.16 | 0.00 | 22.16 | <=33.01 | Pass | |
| | | | | 13 | 23.95 | 0.00 | 23.95 | <=33.01 | Pass | |
| 24 | | | | 24.00 | 0.00 | 24.00 | <=33.01 | Pass | | |
| 12 | | | 0 | 22.76 | 0.00 | 22.76 | <=33.01 | Pass | | |
| | | | 6 | 22.88 | 0.00 | 22.88 | <=33.01 | Pass | | |
| | | | 13 | 22.86 | 0.00 | 22.86 | <=33.01 | Pass | | |
| 25 | | | 0 | 22.78 | 0.00 | 22.78 | <=33.01 | Pass | | |

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B41_10MHz_EIRP

1.2.1 Test Result

| Band: 41 / Bandwidth: 10MHz / NTV | | | | | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict | | |
| | | Size | Offset | | | Result | Limit | | | |
| QPSK | 2501 | 1 | 0 | 25.05 | 0.00 | 25.05 | <=33.01 | Pass | | |
| | | | 25 | 25.33 | 0.00 | 25.33 | <=33.01 | Pass | | |
| | | | 49 | 25.11 | 0.00 | 25.11 | <=33.01 | Pass | | |
| | | 25 | 0 | 24.01 | 0.00 | 24.01 | <=33.01 | Pass | | |
| | | | 13 | 24.13 | 0.00 | 24.13 | <=33.01 | Pass | | |
| | | | 25 | 24.01 | 0.00 | 24.01 | <=33.01 | Pass | | |
| | | 50 | 0 | 23.71 | 0.00 | 23.71 | <=33.01 | Pass | | |
| | | 2593 | 1 | 0 | 24.76 | 0.00 | 24.76 | <=33.01 | Pass | |
| | | | | 25 | 24.68 | 0.00 | 24.68 | <=33.01 | Pass | |
| | 49 | | | 24.31 | 0.00 | 24.31 | <=33.01 | Pass | | |
| | 25 | | 0 | 23.36 | 0.00 | 23.36 | <=33.01 | Pass | | |
| | | | 13 | 23.41 | 0.00 | 23.41 | <=33.01 | Pass | | |
| | | | 25 | 23.34 | 0.00 | 23.34 | <=33.01 | Pass | | |
| | 50 | | 0 | 23.39 | 0.00 | 23.39 | <=33.01 | Pass | | |
| | 2685 | | 1 | 0 | 24.92 | 0.00 | 24.92 | <=33.01 | Pass | |
| | | | | 25 | 25.15 | 0.00 | 25.15 | <=33.01 | Pass | |
| | | 49 | | 25.31 | 0.00 | 25.31 | <=33.01 | Pass | | |
| | | 25 | 0 | 18.16 | 0.00 | 18.16 | <=33.01 | Pass | | |
| | | | 13 | 23.86 | 0.00 | 23.86 | <=33.01 | Pass | | |
| | | | 25 | 23.94 | 0.00 | 23.94 | <=33.01 | Pass | | |
| | | 50 | 0 | 23.75 | 0.00 | 23.75 | <=33.01 | Pass | | |
| | | 16QAM | 2501 | 1 | 0 | 23.54 | 0.00 | 23.54 | <=33.01 | Pass |
| | | | | | 25 | 23.66 | 0.00 | 23.66 | <=33.01 | Pass |
| | 49 | | | | 23.26 | 0.00 | 23.26 | <=33.01 | Pass | |
| 25 | 0 | | | 22.45 | 0.00 | 22.45 | <=33.01 | Pass | | |
| | 13 | | | 22.48 | 0.00 | 22.48 | <=33.01 | Pass | | |
| | 25 | | | 22.45 | 0.00 | 22.45 | <=33.01 | Pass | | |
| 50 | 0 | | | 22.44 | 0.00 | 22.44 | <=33.01 | Pass | | |
| 2593 | 1 | | | 0 | 22.98 | 0.00 | 22.98 | <=33.01 | Pass | |
| | | | | 25 | 23.49 | 0.00 | 23.49 | <=33.01 | Pass | |
| | | | 49 | 23.10 | 0.00 | 23.10 | <=33.01 | Pass | | |
| | 25 | | 0 | 22.43 | 0.00 | 22.43 | <=33.01 | Pass | | |
| | | | 13 | 22.62 | 0.00 | 22.62 | <=33.01 | Pass | | |
| | | | 25 | 22.60 | 0.00 | 22.60 | <=33.01 | Pass | | |
| | 50 | | 0 | 22.67 | 0.00 | 22.67 | <=33.01 | Pass | | |
| | 2685 | | 1 | 0 | 23.44 | 0.00 | 23.44 | <=33.01 | Pass | |
| | | | | 25 | 23.96 | 0.00 | 23.96 | <=33.01 | Pass | |
| 49 | | | | 23.86 | 0.00 | 23.86 | <=33.01 | Pass | | |
| 25 | | | 0 | 22.64 | 0.00 | 22.64 | <=33.01 | Pass | | |
| | | | 13 | 22.76 | 0.00 | 22.76 | <=33.01 | Pass | | |
| | | | 25 | 22.86 | 0.00 | 22.86 | <=33.01 | Pass | | |
| 50 | | | 0 | 22.75 | 0.00 | 22.75 | <=33.01 | Pass | | |

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B41_15MHz_EIRP

1.3.1 Test Result

| |
|-----------------------------------|
| Band: 41 / Bandwidth: 15MHz / NTV |
|-----------------------------------|

| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict | | |
|------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|---------|------|
| | | Size | Offset | | | Result | Limit | | | |
| QPSK | 2503.5 | 1 | 0 | 25.00 | 0.00 | 25.00 | <=33.01 | Pass | | |
| | | | 38 | 25.13 | 0.00 | 25.13 | <=33.01 | Pass | | |
| | | | 74 | 25.06 | 0.00 | 25.06 | <=33.01 | Pass | | |
| | | 36 | 0 | 24.05 | 0.00 | 24.05 | <=33.01 | Pass | | |
| | | | 18 | 23.85 | 0.00 | 23.85 | <=33.01 | Pass | | |
| | | | 39 | 23.58 | 0.00 | 23.58 | <=33.01 | Pass | | |
| | | 75 | 0 | 23.54 | 0.00 | 23.54 | <=33.01 | Pass | | |
| | | 2593 | 1 | 0 | 24.17 | 0.00 | 24.17 | <=33.01 | Pass | |
| | | | | 38 | 24.36 | 0.00 | 24.36 | <=33.01 | Pass | |
| | 74 | | | 24.06 | 0.00 | 24.06 | <=33.01 | Pass | | |
| | 36 | | 0 | 23.32 | 0.00 | 23.32 | <=33.01 | Pass | | |
| | | | 18 | 23.32 | 0.00 | 23.32 | <=33.01 | Pass | | |
| | | | 39 | 23.29 | 0.00 | 23.29 | <=33.01 | Pass | | |
| | 75 | | 0 | 23.32 | 0.00 | 23.32 | <=33.01 | Pass | | |
| | 2682.5 | | 1 | 0 | 24.22 | 0.00 | 24.22 | <=33.01 | Pass | |
| | | | | 38 | 24.77 | 0.00 | 24.77 | <=33.01 | Pass | |
| | | 74 | | 25.02 | 0.00 | 25.02 | <=33.01 | Pass | | |
| | | 36 | 0 | 22.78 | 0.00 | 22.78 | <=33.01 | Pass | | |
| | | | 18 | 23.69 | 0.00 | 23.69 | <=33.01 | Pass | | |
| | | | 39 | 23.95 | 0.00 | 23.95 | <=33.01 | Pass | | |
| | | 75 | 0 | 23.73 | 0.00 | 23.73 | <=33.01 | Pass | | |
| | | 16QAM | 2503.5 | 1 | 0 | 23.50 | 0.00 | 23.50 | <=33.01 | Pass |
| | | | | | 38 | 23.83 | 0.00 | 23.83 | <=33.01 | Pass |
| | 74 | | | | 23.24 | 0.00 | 23.24 | <=33.01 | Pass | |
| 36 | 0 | | | 22.42 | 0.00 | 22.42 | <=33.01 | Pass | | |
| | 18 | | | 22.50 | 0.00 | 22.50 | <=33.01 | Pass | | |
| | 39 | | | 22.45 | 0.00 | 22.45 | <=33.01 | Pass | | |
| 75 | 0 | | | 22.44 | 0.00 | 22.44 | <=33.01 | Pass | | |
| 2593 | 1 | | | 0 | 23.01 | 0.00 | 23.01 | <=33.01 | Pass | |
| | | | | 38 | 23.10 | 0.00 | 23.10 | <=33.01 | Pass | |
| | | | 74 | 22.80 | 0.00 | 22.80 | <=33.01 | Pass | | |
| | 36 | | 0 | 22.23 | 0.00 | 22.23 | <=33.01 | Pass | | |
| | | | 18 | 22.32 | 0.00 | 22.32 | <=33.01 | Pass | | |
| | | | 39 | 22.34 | 0.00 | 22.34 | <=33.01 | Pass | | |
| | 75 | | 0 | 22.42 | 0.00 | 22.42 | <=33.01 | Pass | | |
| | 2682.5 | | 1 | 0 | 23.06 | 0.00 | 23.06 | <=33.01 | Pass | |
| | | | | 38 | 23.40 | 0.00 | 23.40 | <=33.01 | Pass | |
| 74 | | | | 23.63 | 0.00 | 23.63 | <=33.01 | Pass | | |
| 36 | | | 0 | 22.42 | 0.00 | 22.42 | <=33.01 | Pass | | |
| | | | 18 | 22.61 | 0.00 | 22.61 | <=33.01 | Pass | | |
| | | | 39 | 22.81 | 0.00 | 22.81 | <=33.01 | Pass | | |
| 75 | | | 0 | 22.64 | 0.00 | 22.64 | <=33.01 | Pass | | |

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B41_20MHz_EIRP

1.4.1 Test Result

| Band: 41 / Bandwidth: 20MHz / NTNV | | | | | | | | |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 2506 | 1 | 0 | 24.69 | 0.00 | 24.69 | <=33.01 | Pass |
| | | | 50 | 25.18 | 0.00 | 25.18 | <=33.01 | Pass |

| | | | | | | | | | | |
|--|------|-------|------|-------|-------|-------|---------|---------|---------|------|
| | | 50 | 99 | 24.75 | 0.00 | 24.75 | <=33.01 | Pass | | |
| | | | 0 | 23.85 | 0.00 | 23.85 | <=33.01 | Pass | | |
| | | | 25 | 23.60 | 0.00 | 23.60 | <=33.01 | Pass | | |
| | | | 50 | 23.53 | 0.00 | 23.53 | <=33.01 | Pass | | |
| | | 100 | 0 | 23.48 | 0.00 | 23.48 | <=33.01 | Pass | | |
| | | 2593 | 1 | 0 | 24.07 | 0.00 | 24.07 | <=33.01 | Pass | |
| | | | | 50 | 24.32 | 0.00 | 24.32 | <=33.01 | Pass | |
| | | | | 99 | 23.85 | 0.00 | 23.85 | <=33.01 | Pass | |
| | | | 50 | 0 | 23.29 | 0.00 | 23.29 | <=33.01 | Pass | |
| | | | | 25 | 23.25 | 0.00 | 23.25 | <=33.01 | Pass | |
| | | | | 50 | 23.15 | 0.00 | 23.15 | <=33.01 | Pass | |
| | | 100 | 0 | 23.23 | 0.00 | 23.23 | <=33.01 | Pass | | |
| | 2680 | 1 | 0 | 23.81 | 0.00 | 23.81 | <=33.01 | Pass | | |
| | | | 50 | 24.78 | 0.00 | 24.78 | <=33.01 | Pass | | |
| | | | 99 | 24.97 | 0.00 | 24.97 | <=33.01 | Pass | | |
| | | 50 | 0 | 23.29 | 0.00 | 23.29 | <=33.01 | Pass | | |
| | | | 25 | 23.46 | 0.00 | 23.46 | <=33.01 | Pass | | |
| | | | 50 | 23.68 | 0.00 | 23.68 | <=33.01 | Pass | | |
| | | 100 | 0 | 23.44 | 0.00 | 23.44 | <=33.01 | Pass | | |
| | | 16QAM | 2506 | 1 | 0 | 23.04 | 0.00 | 23.04 | <=33.01 | Pass |
| | | | | | 50 | 23.15 | 0.00 | 23.15 | <=33.01 | Pass |
| | 99 | | | | 23.30 | 0.00 | 23.30 | <=33.01 | Pass | |
| | 50 | | | 0 | 22.29 | 0.00 | 22.29 | <=33.01 | Pass | |
| | | | | 25 | 22.44 | 0.00 | 22.44 | <=33.01 | Pass | |
| 50 | | | | 22.47 | 0.00 | 22.47 | <=33.01 | Pass | | |
| 100 | 0 | | | 22.35 | 0.00 | 22.35 | <=33.01 | Pass | | |
| 2593 | 1 | | | 0 | 22.66 | 0.00 | 22.66 | <=33.01 | Pass | |
| | | | | 50 | 23.51 | 0.00 | 23.51 | <=33.01 | Pass | |
| | | | 99 | 22.55 | 0.00 | 22.55 | <=33.01 | Pass | | |
| | 50 | | 0 | 22.19 | 0.00 | 22.19 | <=33.01 | Pass | | |
| | | | 25 | 22.22 | 0.00 | 22.22 | <=33.01 | Pass | | |
| | | | 50 | 22.14 | 0.00 | 22.14 | <=33.01 | Pass | | |
| | 100 | | 0 | 22.26 | 0.00 | 22.26 | <=33.01 | Pass | | |
| | 2680 | | 1 | 0 | 23.03 | 0.00 | 23.03 | <=33.01 | Pass | |
| | | | | 50 | 23.45 | 0.00 | 23.45 | <=33.01 | Pass | |
| 99 | | | | 23.91 | 0.00 | 23.91 | <=33.01 | Pass | | |
| 50 | | | 0 | 22.27 | 0.00 | 22.27 | <=33.01 | Pass | | |
| | | | 25 | 22.38 | 0.00 | 22.38 | <=33.01 | Pass | | |
| | | | 50 | 22.63 | 0.00 | 22.63 | <=33.01 | Pass | | |
| 100 | | | 0 | 22.41 | 0.00 | 22.41 | <=33.01 | Pass | | |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | | | |

2. Frequency Stability

2.1 B41_5MHz

2.1.1 Test Result

| Band: 41 / Bandwidth: 5MHz | | | | | | | | | |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2498.5 | 25 | 0 | 20 | 3.27 | -13.361 | -0.0053 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -38.195 | -0.0153 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -48.909 | -0.0196 | -2.5 to 2.5 | Pass |

| | | | | | | | | | | | | |
|-------|--------|---------|---------|---------|-------------|---------|-------------|-------------|---------|---------|-------------|------|
| | | | | -30 | 3.85 | -45.805 | -0.0183 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | -44.603 | -0.0179 | -2.5 to 2.5 | Pass | | | |
| | | | | -10 | 3.85 | -38.652 | -0.0155 | -2.5 to 2.5 | Pass | | | |
| | | | | 0 | 3.85 | -35.033 | -0.0140 | -2.5 to 2.5 | Pass | | | |
| | | | | 10 | 3.85 | -28.496 | -0.0114 | -2.5 to 2.5 | Pass | | | |
| | | | | 30 | 3.85 | -28.038 | -0.0112 | -2.5 to 2.5 | Pass | | | |
| | | | | 40 | 3.85 | -33.674 | -0.0135 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | -22.888 | -0.0092 | -2.5 to 2.5 | Pass | | | | | | |
| | 2593 | 25 | 0 | 20 | 3.27 | 17.595 | 0.0068 | -2.5 to 2.5 | Pass | | | |
| | | | | | 3.85 | 10.529 | 0.0041 | -2.5 to 2.5 | Pass | | | |
| | | | | | 4.43 | 2.117 | 0.0008 | -2.5 to 2.5 | Pass | | | |
| | | | | -30 | 3.85 | -9.542 | -0.0037 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | 0.043 | 0.0000 | -2.5 to 2.5 | Pass | | | |
| | | | | -10 | 3.85 | 1.717 | 0.0007 | -2.5 to 2.5 | Pass | | | |
| | | | | 0 | 3.85 | -9.756 | -0.0038 | -2.5 to 2.5 | Pass | | | |
| | | | | 10 | 3.85 | -7.253 | -0.0028 | -2.5 to 2.5 | Pass | | | |
| | | | | 30 | 3.85 | -14.849 | -0.0057 | -2.5 to 2.5 | Pass | | | |
| | | | | 40 | 3.85 | -6.924 | -0.0027 | -2.5 to 2.5 | Pass | | | |
| | | | | 50 | 3.85 | 16.479 | 0.0064 | -2.5 to 2.5 | Pass | | | |
| | | | | 2687.5 | 25 | 0 | 20 | 3.27 | 7.997 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | | | | | 3.85 | -17.252 | -0.0064 | -2.5 to 2.5 | Pass |
| | | | | | | | | 4.43 | -29.697 | -0.0111 | -2.5 to 2.5 | Pass |
| | -30 | 3.85 | -34.904 | | | | -0.0130 | -2.5 to 2.5 | Pass | | | |
| | -20 | 3.85 | -37.107 | | | | -0.0138 | -2.5 to 2.5 | Pass | | | |
| | -10 | 3.85 | -40.712 | | | | -0.0151 | -2.5 to 2.5 | Pass | | | |
| | 0 | 3.85 | -41.327 | | | | -0.0154 | -2.5 to 2.5 | Pass | | | |
| | 10 | 3.85 | -63.229 | | | | -0.0235 | -2.5 to 2.5 | Pass | | | |
| 30 | 3.85 | -62.170 | -0.0231 | | | | -2.5 to 2.5 | Pass | | | | |
| 40 | 3.85 | -72.241 | -0.0269 | | | | -2.5 to 2.5 | Pass | | | | |
| 50 | 3.85 | -18.368 | -0.0068 | | | | -2.5 to 2.5 | Pass | | | | |
| 16QAM | 2498.5 | 25 | 0 | 20 | 3.27 | -23.403 | -0.0094 | -2.5 to 2.5 | Pass | | | |
| | | | | | 3.85 | -12.946 | -0.0052 | -2.5 to 2.5 | Pass | | | |
| | | | | | 4.43 | -37.966 | -0.0152 | -2.5 to 2.5 | Pass | | | |
| | | | | -30 | 3.85 | -13.547 | -0.0054 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | -33.059 | -0.0132 | -2.5 to 2.5 | Pass | | | |
| | | | | -10 | 3.85 | -38.395 | -0.0154 | -2.5 to 2.5 | Pass | | | |
| | | | | 0 | 3.85 | -19.884 | -0.0080 | -2.5 to 2.5 | Pass | | | |
| | | | | 10 | 3.85 | -35.777 | -0.0143 | -2.5 to 2.5 | Pass | | | |
| | | | | 30 | 3.85 | -24.920 | -0.0100 | -2.5 to 2.5 | Pass | | | |
| | | | | 40 | 3.85 | -13.261 | -0.0053 | -2.5 to 2.5 | Pass | | | |
| | | | | 50 | 3.85 | -22.073 | -0.0088 | -2.5 to 2.5 | Pass | | | |
| | | | | 2593 | 25 | 0 | 20 | 3.27 | 7.453 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | | | | | 3.85 | 5.236 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | | | | | 4.43 | 9.799 | 0.0038 | -2.5 to 2.5 | Pass |
| | -30 | 3.85 | 7.854 | | | | 0.0030 | -2.5 to 2.5 | Pass | | | |
| | -20 | 3.85 | -6.552 | | | | -0.0025 | -2.5 to 2.5 | Pass | | | |
| | -10 | 3.85 | 17.409 | | | | 0.0067 | -2.5 to 2.5 | Pass | | | |
| | 0 | 3.85 | -3.161 | | | | -0.0012 | -2.5 to 2.5 | Pass | | | |
| | 10 | 3.85 | -0.257 | | | | -0.0001 | -2.5 to 2.5 | Pass | | | |
| | 30 | 3.85 | 3.791 | | | | 0.0015 | -2.5 to 2.5 | Pass | | | |
| | 40 | 3.85 | 14.992 | | | | 0.0058 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | 16.265 | | | | 0.0063 | -2.5 to 2.5 | Pass | | | |
| | 2687.5 | 25 | 0 | | | | 20 | 3.27 | -7.253 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | | | | | 3.85 | -5.078 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 4.43 | 2.418 | 0.0009 | | -2.5 to 2.5 | Pass | | | |
| | | | | -30 | 3.85 | -2.718 | -0.0010 | -2.5 to 2.5 | Pass | | | |
| | -20 | 3.85 | -0.601 | -0.0002 | -2.5 to 2.5 | Pass | | | | | | |

| | | | | | | | | | |
|--|--|--|--|-----|------|---------|---------|-------------|------|
| | | | | -10 | 3.85 | -4.191 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.060 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -18.153 | -0.0068 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -11.644 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -5.822 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -5.708 | -0.0021 | -2.5 to 2.5 | Pass |

2.2 B41_10MHz

2.2.1 Test Result

| Band: 41 / Bandwidth: 10MHz | | | | | | | | | |
|-----------------------------|-----------------|---------------|---------|-------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2501 | 50 | 0 | 20 | 3.27 | -9.928 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -6.366 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -5.908 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -7.896 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -10.257 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.388 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -12.674 | -0.0051 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -5.493 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -4.978 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -9.484 | -0.0038 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -1.974 | -0.0008 | -2.5 to 2.5 | Pass | | | |
| | 2593 | 50 | 0 | 20 | 3.27 | -5.794 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -8.683 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -3.662 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.373 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -5.078 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -16.308 | -0.0063 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -7.710 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -8.512 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -18.711 | -0.0072 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -4.807 | -0.0019 | -2.5 to 2.5 | Pass | | | |
| | 2685 | 50 | 0 | 20 | 3.27 | -10.915 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -13.547 | -0.0050 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -14.148 | -0.0053 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -8.225 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -8.354 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -11.301 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.583 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -14.377 | -0.0054 | -2.5 to 2.5 | Pass |
| 30 | | | | 3.85 | -5.965 | -0.0022 | -2.5 to 2.5 | Pass | |
| 40 | | | | 3.85 | -9.971 | -0.0037 | -2.5 to 2.5 | Pass | |
| 50 | 3.85 | -8.497 | -0.0032 | -2.5 to 2.5 | Pass | | | | |
| 16QAM | 2501 | 50 | 0 | 20 | 3.27 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -5.136 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -7.725 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -6.866 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -14.076 | -0.0056 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -11.101 | -0.0044 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.047 | -0.0012 | -2.5 to 2.5 | Pass |
| 10 | 3.85 | -12.445 | -0.0050 | -2.5 to 2.5 | Pass | | | | |

| | | | | | | | | | |
|----|------|------|--------|---------|-------------|---------|-------------|-------------|------|
| | 2593 | 50 | 0 | 30 | 3.85 | -1.960 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -6.738 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -18.153 | -0.0073 | -2.5 to 2.5 | Pass |
| | | | | 20 | 3.27 | -5.121 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -10.929 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -9.685 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -11.187 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 7.753 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.446 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.597 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -10.242 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -9.699 | -0.0037 | -2.5 to 2.5 | Pass |
| | 40 | 3.85 | -4.549 | -0.0018 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | 3.204 | 0.0012 | -2.5 to 2.5 | Pass | | | |
| | 2685 | 50 | 0 | 20 | 3.27 | -7.453 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -5.851 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.016 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -6.652 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 8.140 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -12.889 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.488 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -11.930 | -0.0044 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -6.237 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -17.424 | -0.0065 | -2.5 to 2.5 | Pass |
| 50 | | | | 3.85 | -4.892 | -0.0018 | -2.5 to 2.5 | Pass | |

2.3 B41_15MHz

2.3.1 Test Result

| Band: 41 / Bandwidth: 15MHz | | | | | | | | | |
|-----------------------------|-----------------|---------------|---------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2503.5 | 75 | 0 | 20 | 3.27 | -11.330 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -11.301 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -5.007 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -9.184 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -6.452 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -10.486 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.841 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -12.159 | -0.0049 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -9.956 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -5.093 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -10.686 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 2593 | 75 | 0 | 20 | 3.27 | -8.340 |
| | 3.85 | -6.709 | -0.0026 | | | | | -2.5 to 2.5 | Pass |
| | 4.43 | -1.059 | -0.0004 | | | | | -2.5 to 2.5 | Pass |
| | -30 | 3.85 | -5.264 | | | | -0.0020 | -2.5 to 2.5 | Pass |
| | -20 | 3.85 | -9.770 | | | | -0.0038 | -2.5 to 2.5 | Pass |
| | -10 | 3.85 | -5.050 | | | | -0.0019 | -2.5 to 2.5 | Pass |
| | 0 | 3.85 | -4.535 | | | | -0.0017 | -2.5 to 2.5 | Pass |
| | 10 | 3.85 | -15.621 | | | | -0.0060 | -2.5 to 2.5 | Pass |
| | 30 | 3.85 | -6.351 | | | | -0.0024 | -2.5 to 2.5 | Pass |
| | 40 | 3.85 | -11.058 | | | | -0.0043 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | 4.005 | | | | 0.0015 | -2.5 to 2.5 | Pass |

| | | | | | | | | | | |
|------|--------|---------|---------|-------------|-------------|---------|-------------|-------------|-------------|-------------|
| | 2682.5 | 75 | 0 | 20 | 3.27 | -11.430 | -0.0043 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -6.022 | -0.0022 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -4.678 | -0.0017 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -7.825 | -0.0029 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -8.926 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | | | -10 | 3.85 | -21.915 | -0.0082 | -2.5 to 2.5 |
| | | | | 0 | 3.85 | -9.856 | -0.0037 | -2.5 to 2.5 | Pass | |
| | | | | | 10 | 3.85 | -11.287 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | | 30 | 3.85 | -1.974 | -0.0007 | -2.5 to 2.5 | Pass |
| 40 | 3.85 | -17.538 | -0.0065 | -2.5 to 2.5 | Pass | | | | | |
| | 50 | 3.85 | -10.643 | -0.0040 | -2.5 to 2.5 | Pass | | | | |
| | 16QAM | 2503.5 | 75 | 0 | 20 | 3.27 | -9.756 | -0.0039 | -2.5 to 2.5 | Pass |
| 3.85 | | | | | | -9.542 | -0.0038 | -2.5 to 2.5 | Pass | |
| 4.43 | | | | | | -13.890 | -0.0055 | -2.5 to 2.5 | Pass | |
| -30 | | | | | 3.85 | -13.332 | -0.0053 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -2.618 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | | -10 | 3.85 | -13.647 | -0.0055 | -2.5 to 2.5 |
| 0 | | | | | 3.85 | -5.307 | -0.0021 | -2.5 to 2.5 | Pass | |
| | | | | | 10 | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 30 | 3.85 | -7.381 | -0.0029 | -2.5 to 2.5 | Pass |
| 40 | 3.85 | 3.276 | 0.0013 | -2.5 to 2.5 | Pass | | | | | |
| | 50 | 3.85 | -3.676 | -0.0015 | -2.5 to 2.5 | Pass | | | | |
| | 2593 | 75 | 0 | 20 | 3.27 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass | |
| 3.85 | | | | | -12.088 | -0.0047 | -2.5 to 2.5 | Pass | | |
| 4.43 | | | | | -5.393 | -0.0021 | -2.5 to 2.5 | Pass | | |
| -30 | | | | 3.85 | -16.508 | -0.0064 | -2.5 to 2.5 | Pass | | |
| | | | | -20 | 3.85 | -6.938 | -0.0027 | -2.5 to 2.5 | Pass | |
| | | | | | -10 | 3.85 | -9.356 | -0.0036 | -2.5 to 2.5 | Pass |
| 0 | | | | 3.85 | -11.687 | -0.0045 | -2.5 to 2.5 | Pass | | |
| | | | | 10 | 3.85 | -10.271 | -0.0040 | -2.5 to 2.5 | Pass | |
| | | | | 30 | 3.85 | -2.089 | -0.0008 | -2.5 to 2.5 | Pass | |
| 40 | 3.85 | -11.630 | -0.0045 | -2.5 to 2.5 | Pass | | | | | |
| | 50 | 3.85 | -8.497 | -0.0033 | -2.5 to 2.5 | Pass | | | | |
| | 2682.5 | 75 | 0 | 20 | 3.27 | -0.243 | -0.0001 | -2.5 to 2.5 | Pass | |
| 3.85 | | | | | -9.398 | -0.0035 | -2.5 to 2.5 | Pass | | |
| 4.43 | | | | | -0.172 | -0.0001 | -2.5 to 2.5 | Pass | | |
| -30 | | | | 3.85 | -11.129 | -0.0041 | -2.5 to 2.5 | Pass | | |
| | | | | -20 | 3.85 | -9.799 | -0.0037 | -2.5 to 2.5 | Pass | |
| | | | | | -10 | 3.85 | -7.739 | -0.0029 | -2.5 to 2.5 | Pass |
| 0 | | | | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass | | |
| | | | | 10 | 3.85 | -8.354 | -0.0031 | -2.5 to 2.5 | Pass | |
| | | | | 30 | 3.85 | -2.947 | -0.0011 | -2.5 to 2.5 | Pass | |
| 40 | 3.85 | -13.876 | -0.0052 | -2.5 to 2.5 | Pass | | | | | |
| | 50 | 3.85 | -5.608 | -0.0021 | -2.5 to 2.5 | Pass | | | | |

2.4 B41_20MHz

2.4.1 Test Result

| Band: 41 / Bandwidth: 20MHz | | | | | | | | | |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 2506 | 100 | 0 | 20 | 3.27 | -11.516 | -0.0046 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -16.837 | -0.0067 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -14.291 | -0.0057 | -2.5 to 2.5 | Pass |

| | | | | | | | | | | | | |
|-------|------|------|---------|---------|-------------|---------|---------|-------------|---------|---------|-------------|------|
| | | | | -30 | 3.85 | -0.787 | -0.0003 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | -10.471 | -0.0042 | -2.5 to 2.5 | Pass | | | |
| | | | | -10 | 3.85 | -9.184 | -0.0037 | -2.5 to 2.5 | Pass | | | |
| | | | | 0 | 3.85 | -6.909 | -0.0028 | -2.5 to 2.5 | Pass | | | |
| | | | | 10 | 3.85 | -4.492 | -0.0018 | -2.5 to 2.5 | Pass | | | |
| | | | | 30 | 3.85 | -11.916 | -0.0048 | -2.5 to 2.5 | Pass | | | |
| | | | | 40 | 3.85 | -10.300 | -0.0041 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | -12.918 | -0.0052 | -2.5 to 2.5 | Pass | | | | | | |
| | 2593 | 100 | 0 | 20 | 3.27 | -15.149 | -0.0058 | -2.5 to 2.5 | Pass | | | |
| | | | | | 3.85 | 0.944 | 0.0004 | -2.5 to 2.5 | Pass | | | |
| | | | | | 4.43 | -0.486 | -0.0002 | -2.5 to 2.5 | Pass | | | |
| | | | | -30 | 3.85 | -6.638 | -0.0026 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | -5.093 | -0.0020 | -2.5 to 2.5 | Pass | | | |
| | | | | -10 | 3.85 | -14.977 | -0.0058 | -2.5 to 2.5 | Pass | | | |
| | | | | 0 | 3.85 | -9.971 | -0.0038 | -2.5 to 2.5 | Pass | | | |
| | | | | 10 | 3.85 | -9.270 | -0.0036 | -2.5 to 2.5 | Pass | | | |
| | | | | 30 | 3.85 | -5.407 | -0.0021 | -2.5 to 2.5 | Pass | | | |
| | | | | 40 | 3.85 | -2.518 | -0.0010 | -2.5 to 2.5 | Pass | | | |
| | | | | 50 | 3.85 | -16.651 | -0.0064 | -2.5 to 2.5 | Pass | | | |
| | | | | 2680 | 100 | 0 | 20 | 3.27 | -1.116 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | | | | 3.85 | -6.609 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | | | | | 4.43 | -20.127 | -0.0075 | -2.5 to 2.5 | Pass |
| | -30 | 3.85 | -11.745 | | | | -0.0044 | -2.5 to 2.5 | Pass | | | |
| | -20 | 3.85 | -13.003 | | | | -0.0049 | -2.5 to 2.5 | Pass | | | |
| | -10 | 3.85 | -18.096 | | | | -0.0068 | -2.5 to 2.5 | Pass | | | |
| | 0 | 3.85 | -15.306 | | | | -0.0057 | -2.5 to 2.5 | Pass | | | |
| | 10 | 3.85 | -8.125 | | | | -0.0030 | -2.5 to 2.5 | Pass | | | |
| | 30 | 3.85 | -11.315 | | | | -0.0042 | -2.5 to 2.5 | Pass | | | |
| | 40 | 3.85 | -11.115 | | | | -0.0041 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | -9.184 | | | | -0.0034 | -2.5 to 2.5 | Pass | | | |
| 16QAM | 2506 | 100 | 0 | 20 | 3.27 | -7.510 | -0.0030 | -2.5 to 2.5 | Pass | | | |
| | | | | | 3.85 | -9.370 | -0.0037 | -2.5 to 2.5 | Pass | | | |
| | | | | | 4.43 | -10.271 | -0.0041 | -2.5 to 2.5 | Pass | | | |
| | | | | -30 | 3.85 | -12.474 | -0.0050 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | -12.417 | -0.0050 | -2.5 to 2.5 | Pass | | | |
| | | | | -10 | 3.85 | -12.317 | -0.0049 | -2.5 to 2.5 | Pass | | | |
| | | | | 0 | 3.85 | -2.117 | -0.0008 | -2.5 to 2.5 | Pass | | | |
| | | | | 10 | 3.85 | -12.059 | -0.0048 | -2.5 to 2.5 | Pass | | | |
| | | | | 30 | 3.85 | -8.755 | -0.0035 | -2.5 to 2.5 | Pass | | | |
| | | | | 40 | 3.85 | -10.257 | -0.0041 | -2.5 to 2.5 | Pass | | | |
| | | | | 50 | 3.85 | 0.029 | 0.0000 | -2.5 to 2.5 | Pass | | | |
| | | | | 2593 | 100 | 0 | 20 | 3.27 | -3.304 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | | | | 3.85 | -12.388 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | | | | | 4.43 | -10.743 | -0.0041 | -2.5 to 2.5 | Pass |
| | -30 | 3.85 | -11.945 | | | | -0.0046 | -2.5 to 2.5 | Pass | | | |
| | -20 | 3.85 | -13.990 | | | | -0.0054 | -2.5 to 2.5 | Pass | | | |
| | -10 | 3.85 | -6.909 | | | | -0.0027 | -2.5 to 2.5 | Pass | | | |
| | 0 | 3.85 | -4.706 | | | | -0.0018 | -2.5 to 2.5 | Pass | | | |
| | 10 | 3.85 | -3.362 | | | | -0.0013 | -2.5 to 2.5 | Pass | | | |
| | 30 | 3.85 | -7.496 | | | | -0.0029 | -2.5 to 2.5 | Pass | | | |
| | 40 | 3.85 | -10.228 | | | | -0.0039 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | -9.398 | | | | -0.0036 | -2.5 to 2.5 | Pass | | | |
| | 2680 | 100 | 0 | | | | 20 | 3.27 | 5.536 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | | | | | 3.85 | -4.320 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | | | | | 4.43 | -11.458 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.204 | -0.0012 | -2.5 to 2.5 | Pass | | | |
| | | | | -20 | 3.85 | -17.066 | -0.0064 | -2.5 to 2.5 | Pass | | | |

| | | | | | | | | | |
|--|--|--|--|-----|------|---------|---------|-------------|------|
| | | | | -10 | 3.85 | -12.674 | -0.0047 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -12.174 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.888 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -4.478 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -6.509 | -0.0024 | -2.5 to 2.5 | Pass |

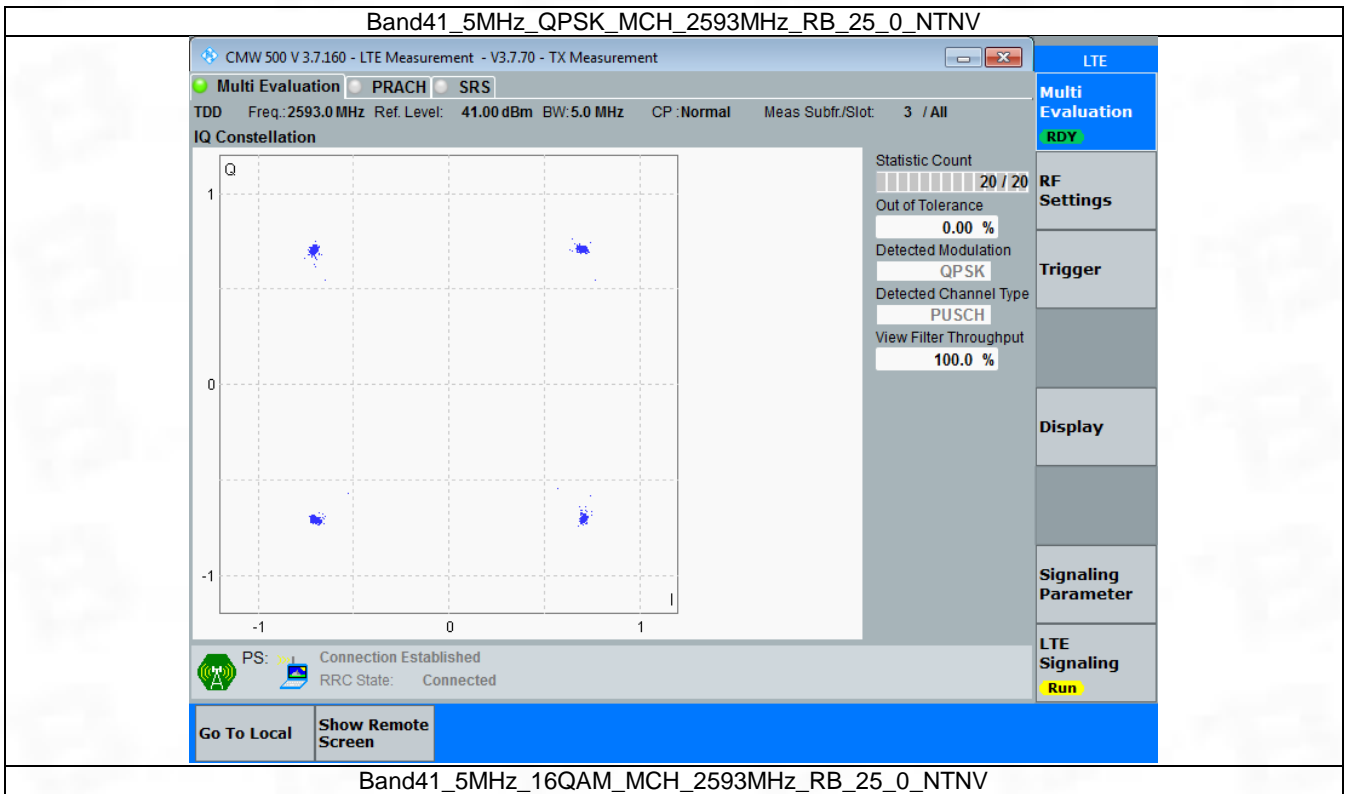
3. Modulation Characteristics

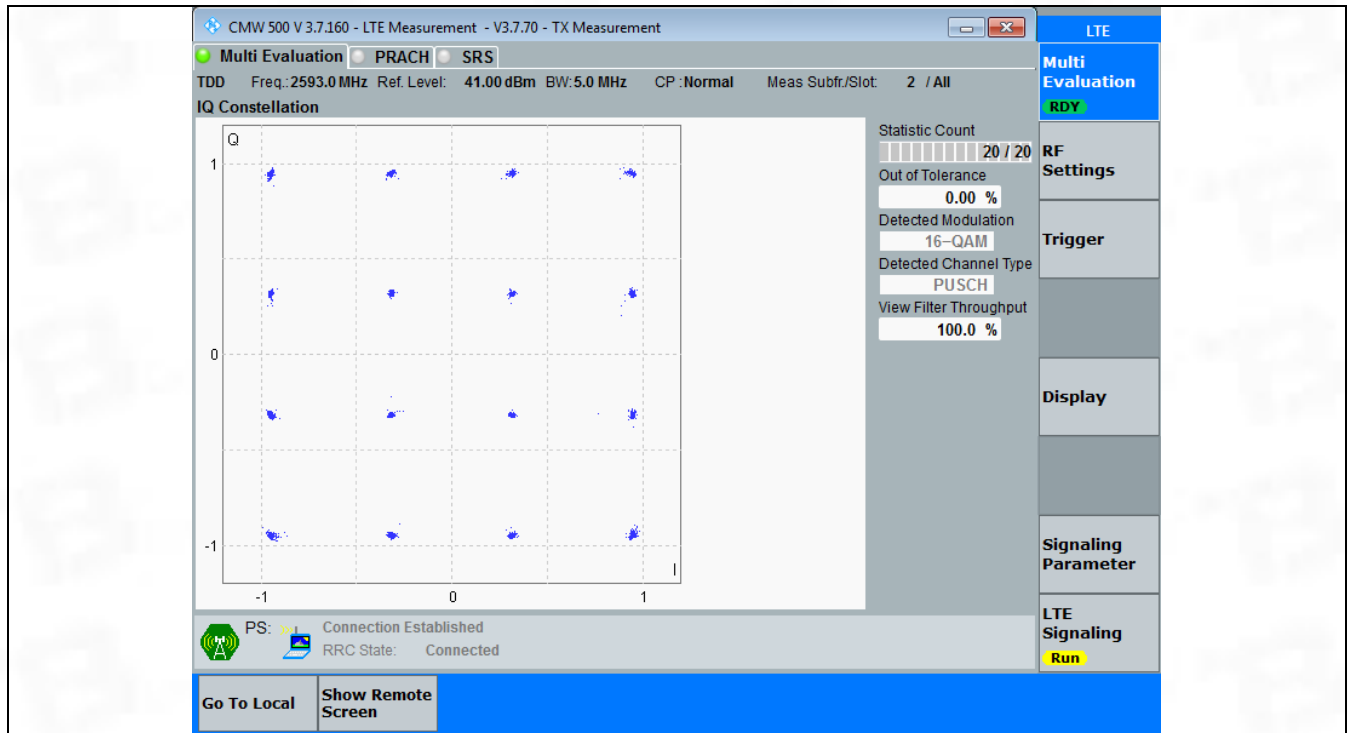
3.1 B41_5MHz

3.1.1 Test Result

| Band: 41 / Bandwidth: 5MHz / NTN | | | | | | |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2593 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2593 | 25 | 0 | Refer To Test Graph | | Pass |

3.1.2 Test Graph





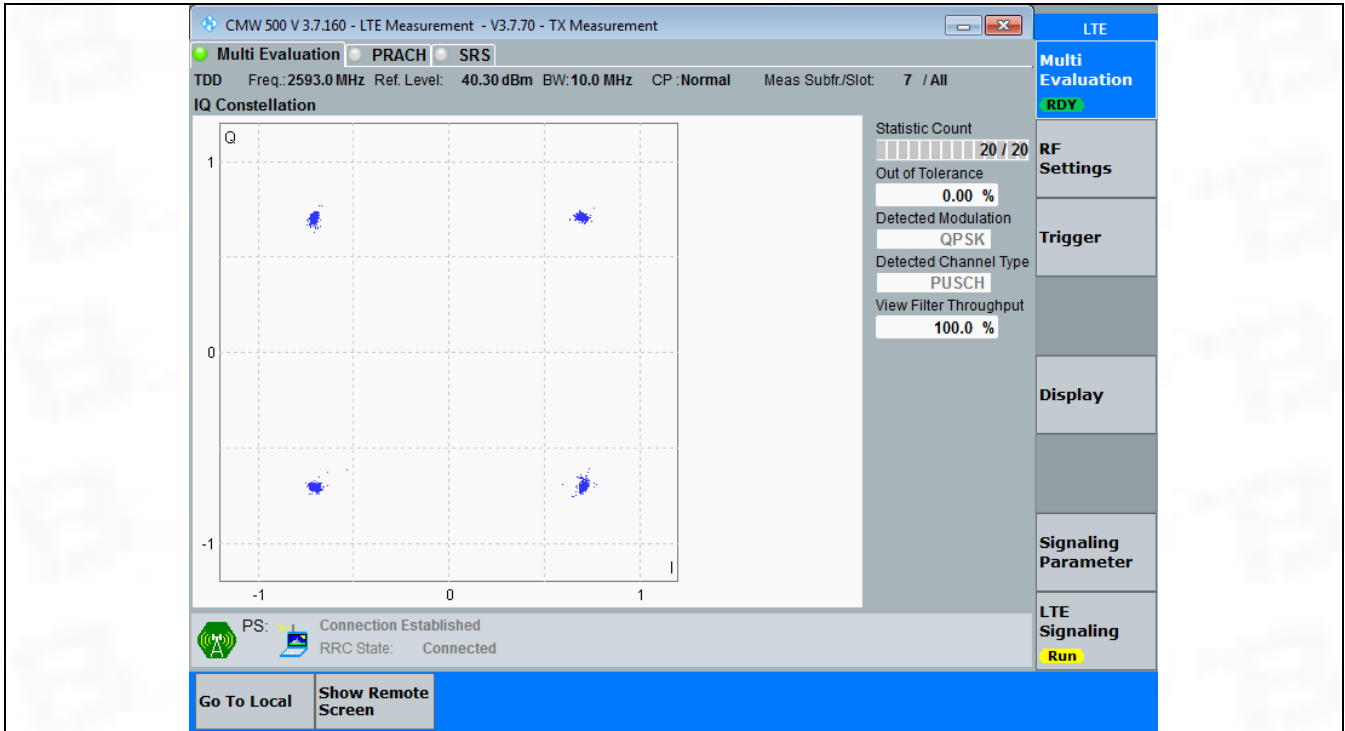
3.2 B41_10MHz

3.2.1 Test Result

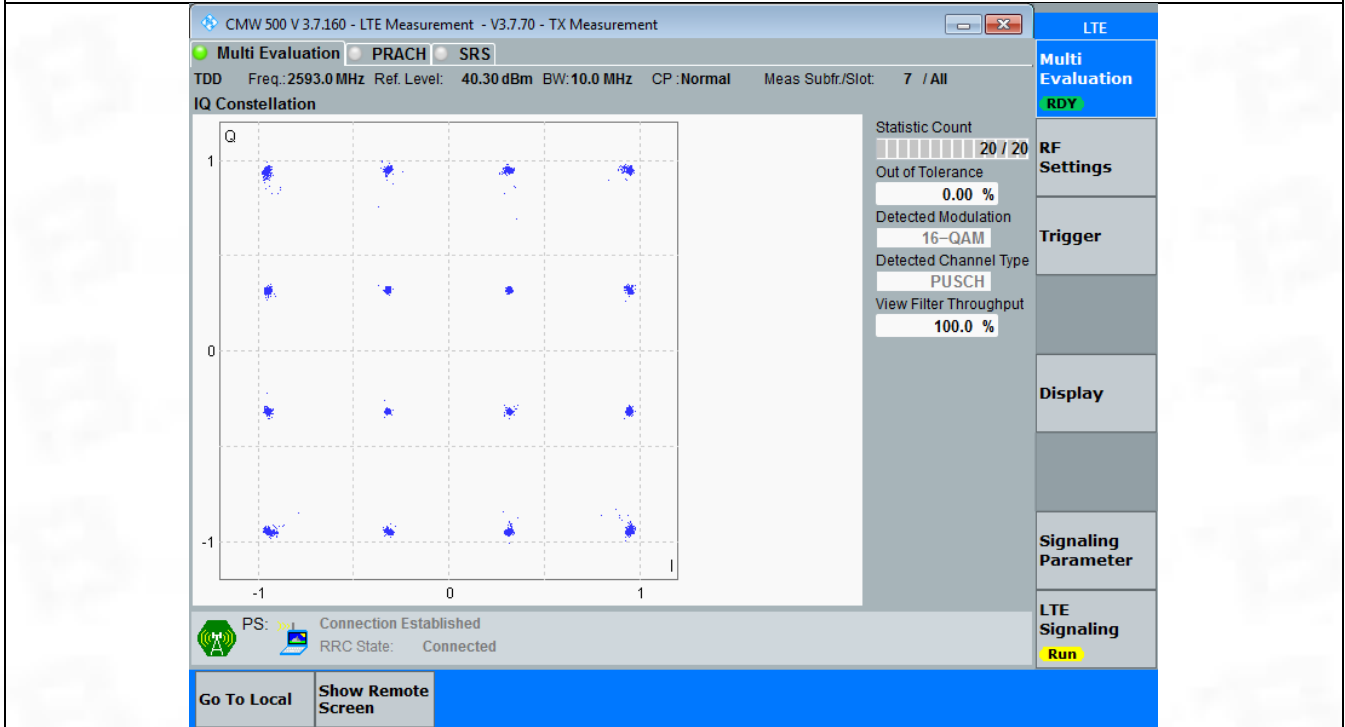
| Band: 41 / Bandwidth: 10MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2593 | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2593 | 50 | 0 | Refer To Test Graph | | Pass |

3.2.2 Test Graph

Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTV



Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV

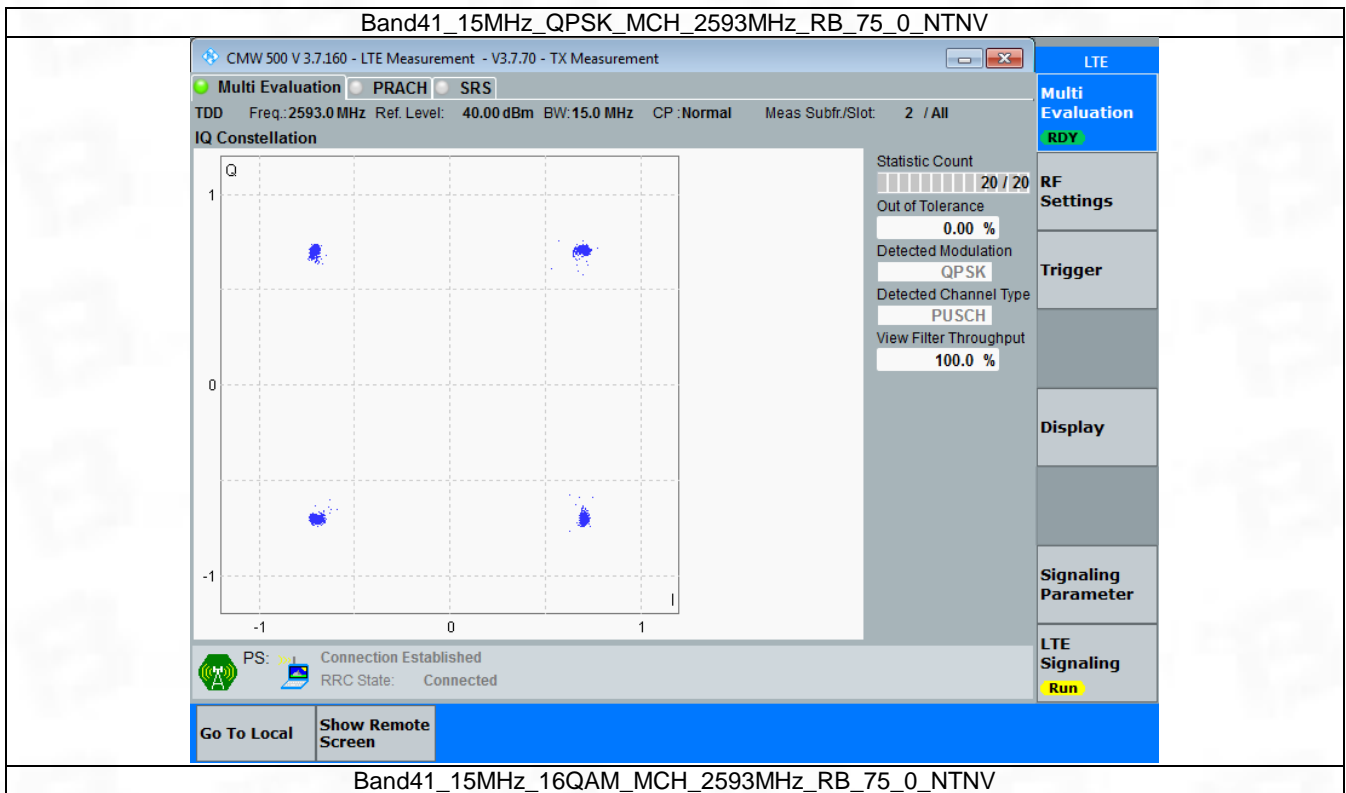


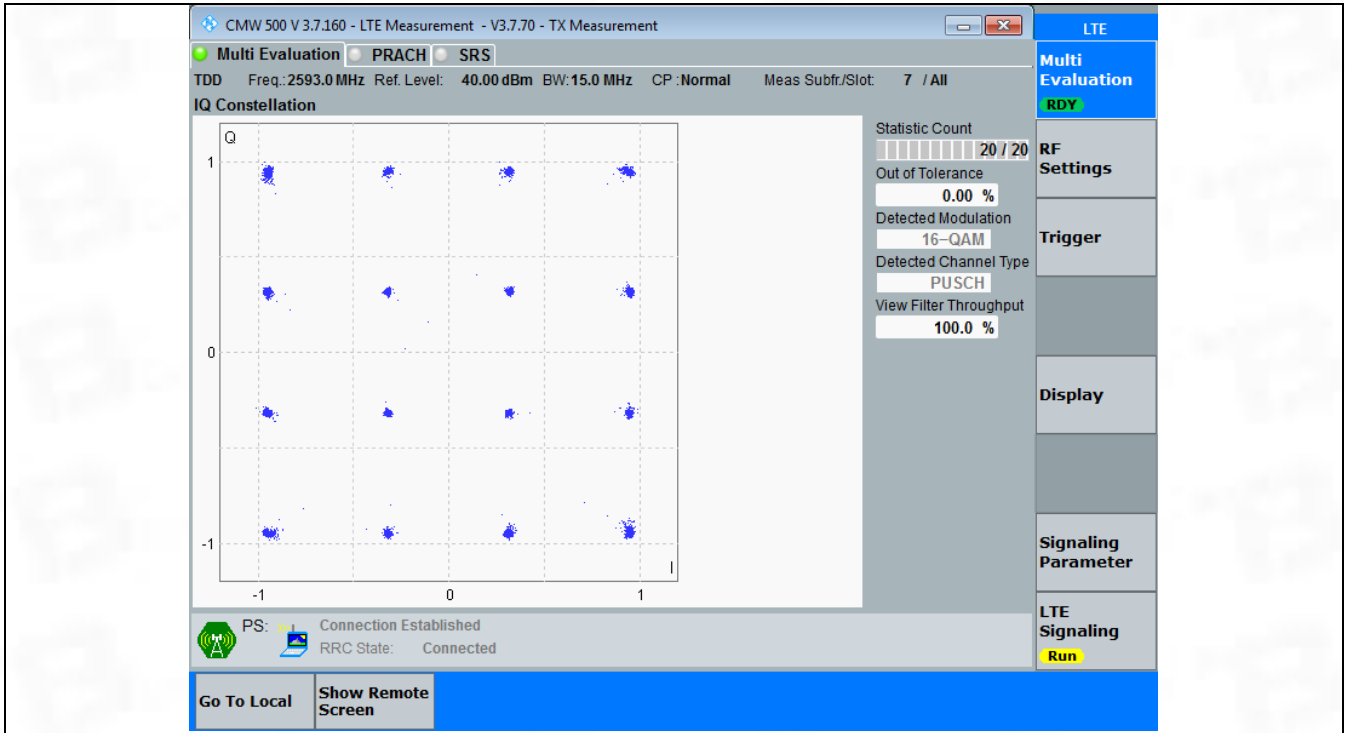
3.3 B41_15MHz

3.3.1 Test Result

| Band: 41 / Bandwidth: 15MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2593 | 75 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2593 | 75 | 0 | Refer To Test Graph | | Pass |

3.3.2 Test Graph





3.4 B41_20MHz

3.4.1 Test Result

| Band: 41 / Bandwidth: 20MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2593 | 100 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2593 | 100 | 0 | Refer To Test Graph | | Pass |

3.4.2 Test Graph

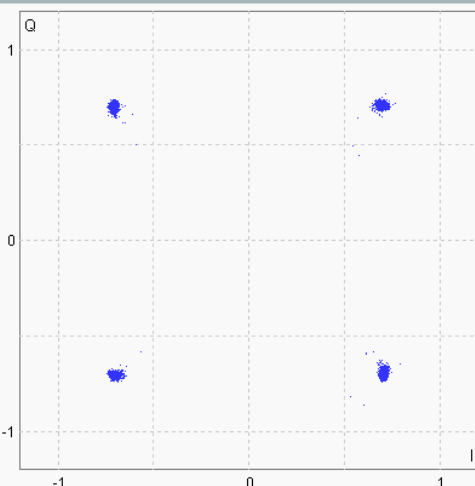
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 40.10 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 8 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

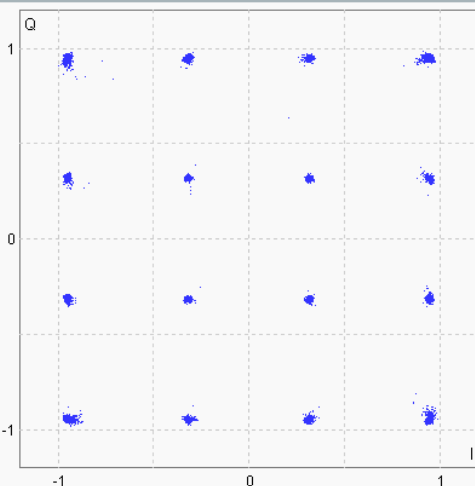
Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 40.10 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 2 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 16-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

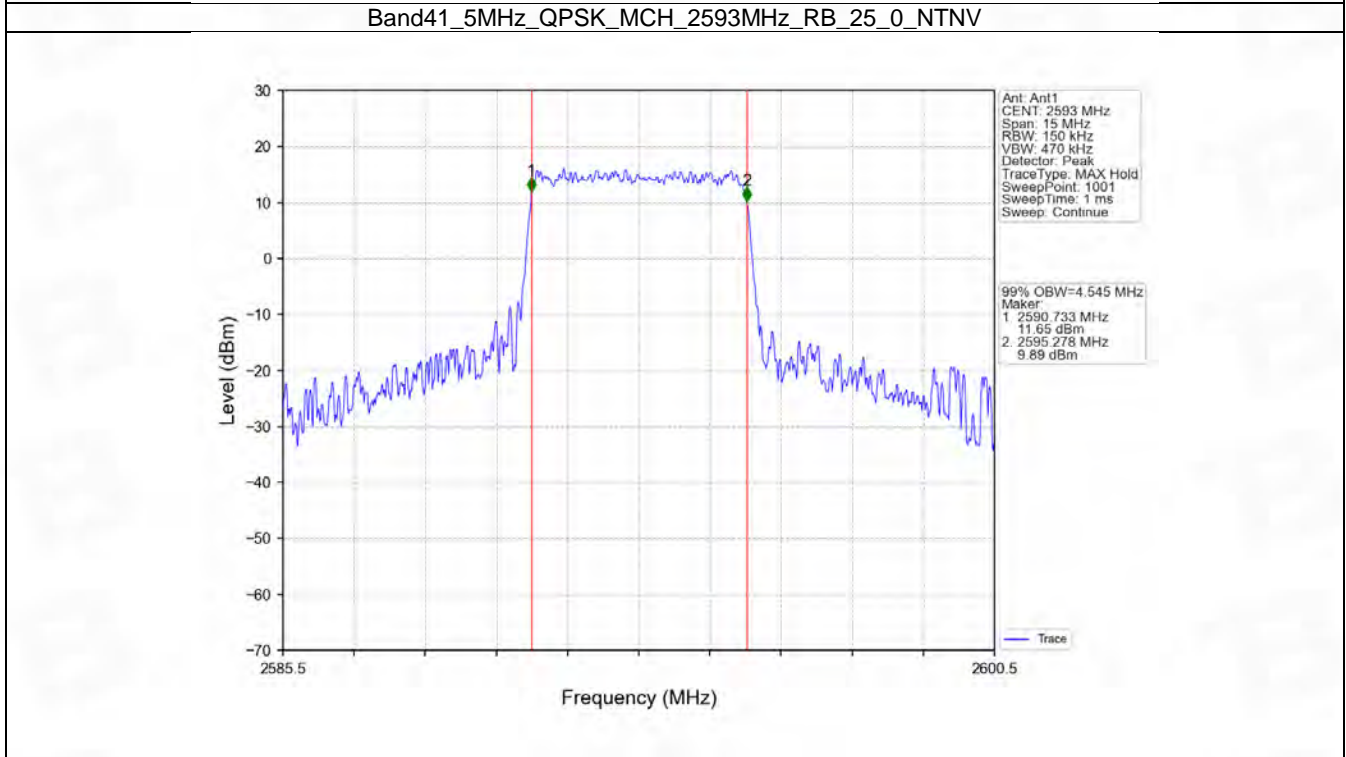
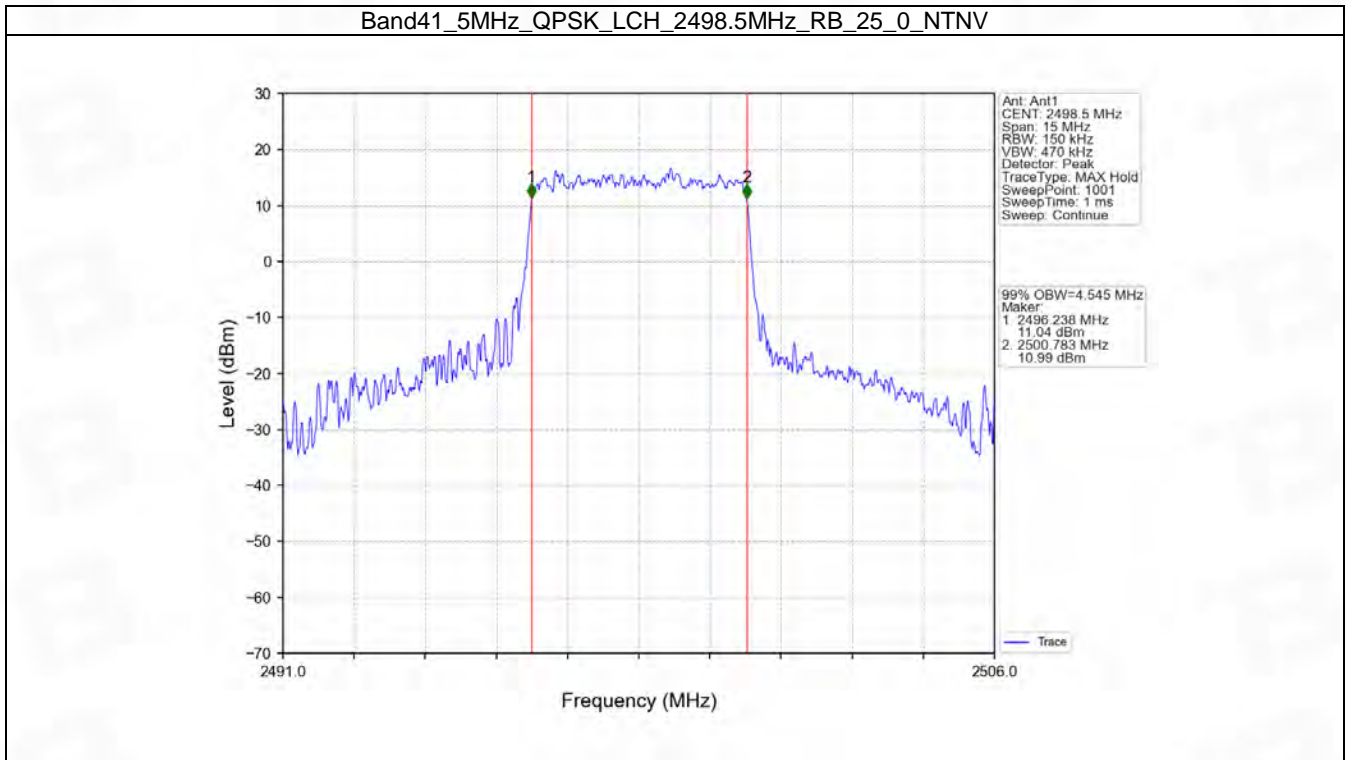
4. 99% & 26dB Bandwidth

4.1 Band41_OBW

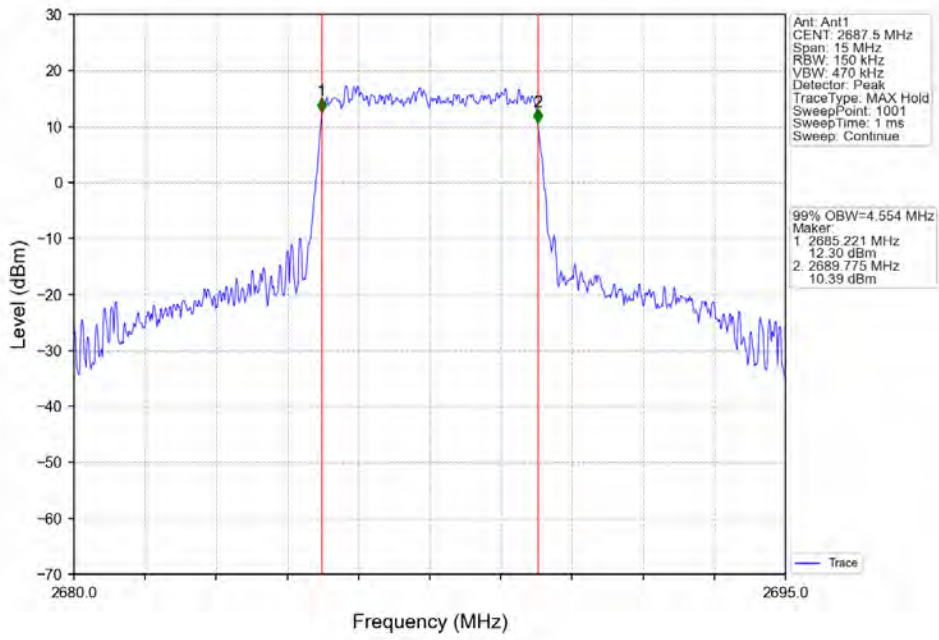
4.1.1 Test Result

| Band: 41 / NTV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 2498.5 | 25 | 0 | 4.545 | / | Pass |
| | | 2593 | 25 | 0 | 4.545 | / | Pass |
| | | 2687.5 | 25 | 0 | 4.554 | / | Pass |
| | 16QAM | 2498.5 | 25 | 0 | 4.540 | / | Pass |
| | | 2593 | 25 | 0 | 4.570 | / | Pass |
| | | 2687.5 | 25 | 0 | 4.544 | / | Pass |
| 10 | QPSK | 2501 | 50 | 0 | 9.063 | / | Pass |
| | | 2593 | 50 | 0 | 9.064 | / | Pass |
| | | 2685 | 50 | 0 | 9.048 | / | Pass |
| | 16QAM | 2501 | 50 | 0 | 9.062 | / | Pass |
| | | 2593 | 50 | 0 | 9.073 | / | Pass |
| | | 2685 | 50 | 0 | 9.058 | / | Pass |
| 15 | QPSK | 2503.5 | 75 | 0 | 13.565 | / | Pass |
| | | 2593 | 75 | 0 | 13.576 | / | Pass |
| | | 2682.5 | 75 | 0 | 13.621 | / | Pass |
| | 16QAM | 2503.5 | 75 | 0 | 13.657 | / | Pass |
| | | 2593 | 75 | 0 | 13.563 | / | Pass |
| | | 2682.5 | 75 | 0 | 13.635 | / | Pass |
| 20 | QPSK | 2506 | 100 | 0 | 18.155 | / | Pass |
| | | 2593 | 100 | 0 | 18.066 | / | Pass |
| | | 2680 | 100 | 0 | 18.135 | / | Pass |
| | 16QAM | 2506 | 100 | 0 | 18.127 | / | Pass |
| | | 2593 | 100 | 0 | 18.100 | / | Pass |
| | | 2680 | 100 | 0 | 18.060 | / | Pass |

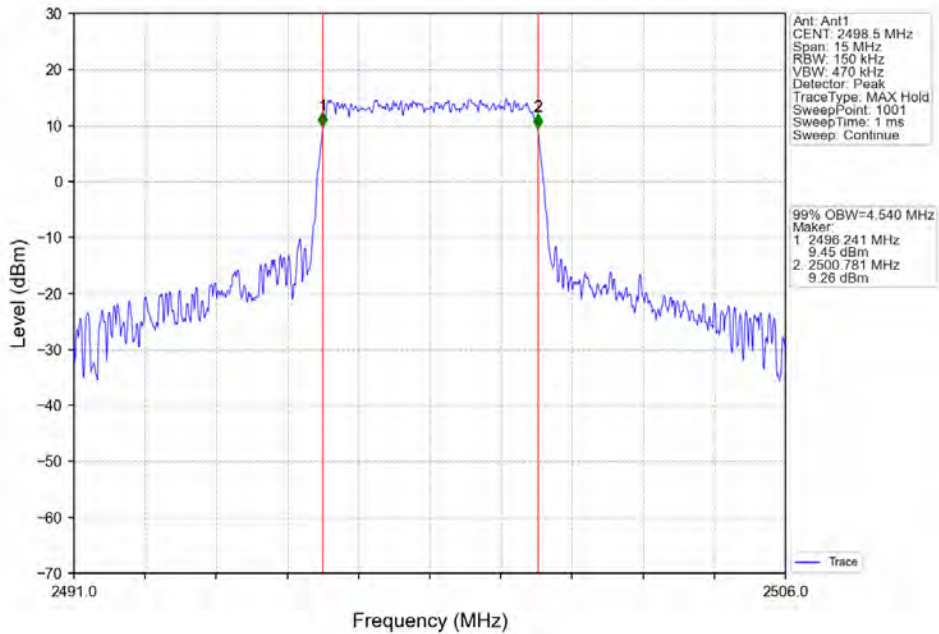
4.1.2 Test Graph



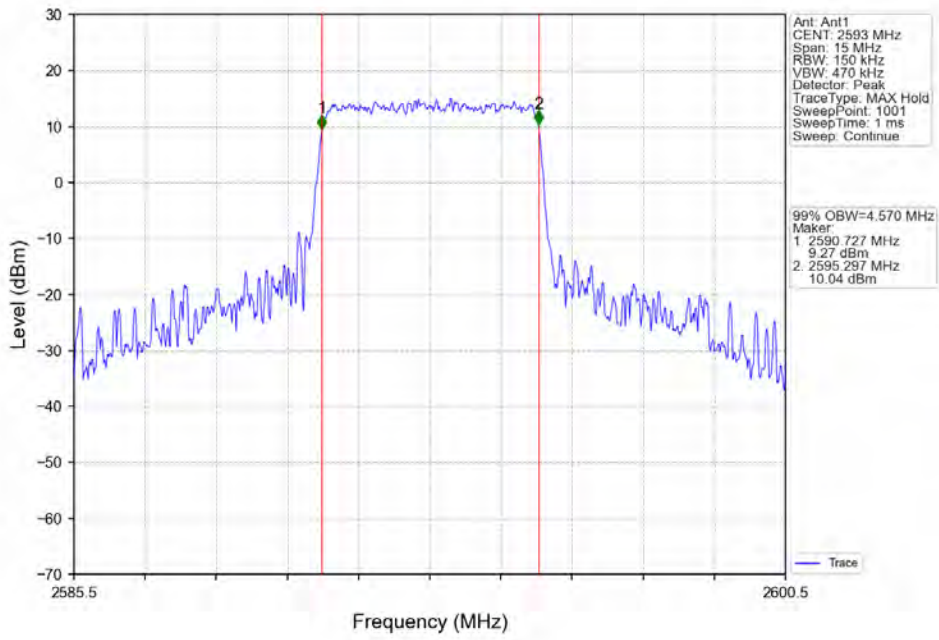
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



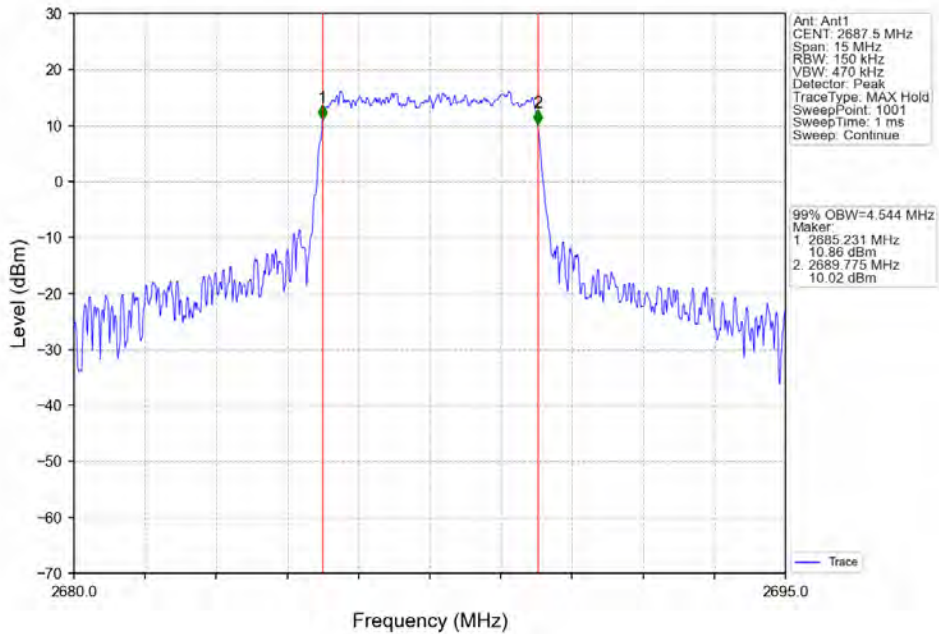
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



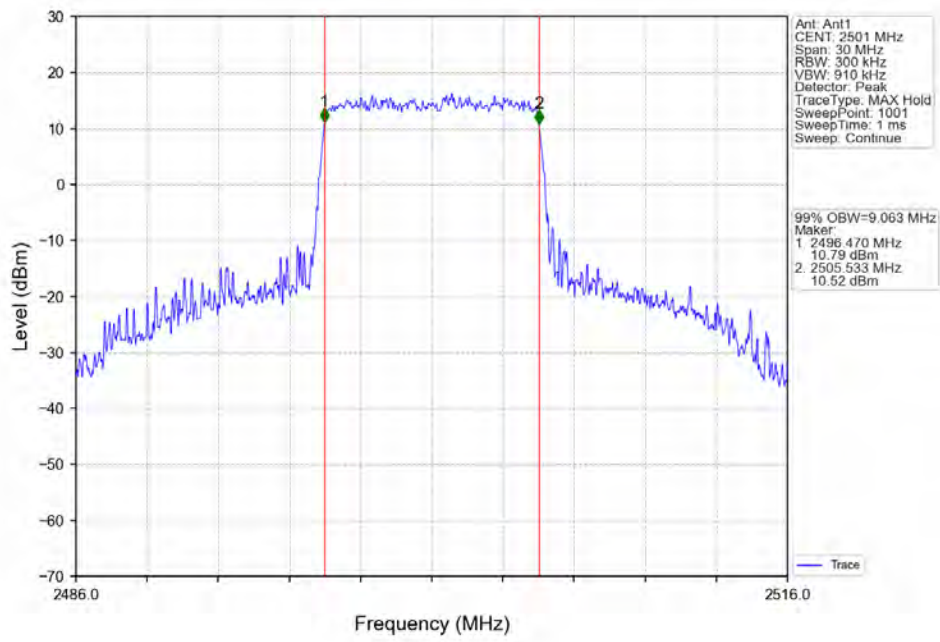
Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



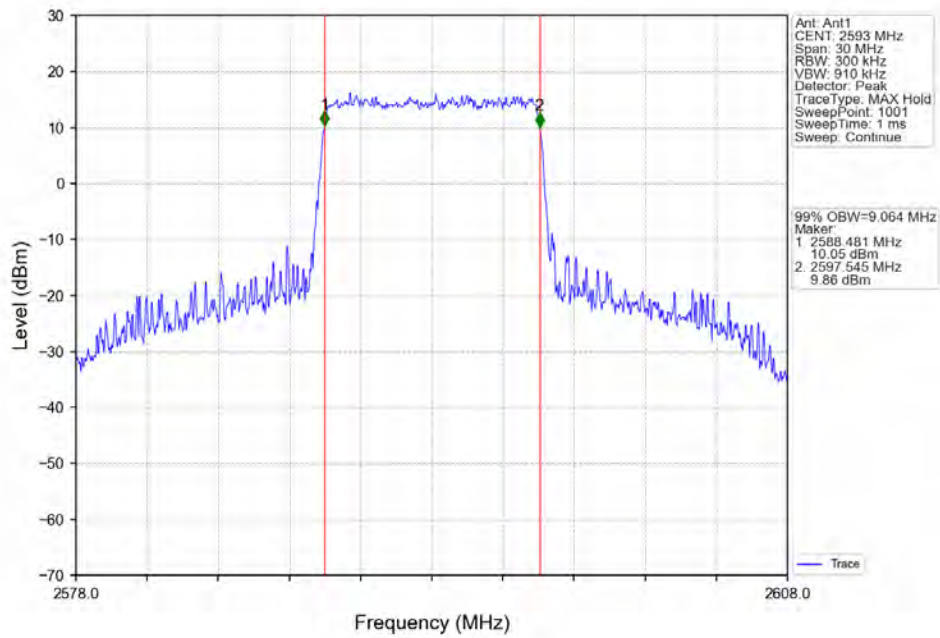
Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



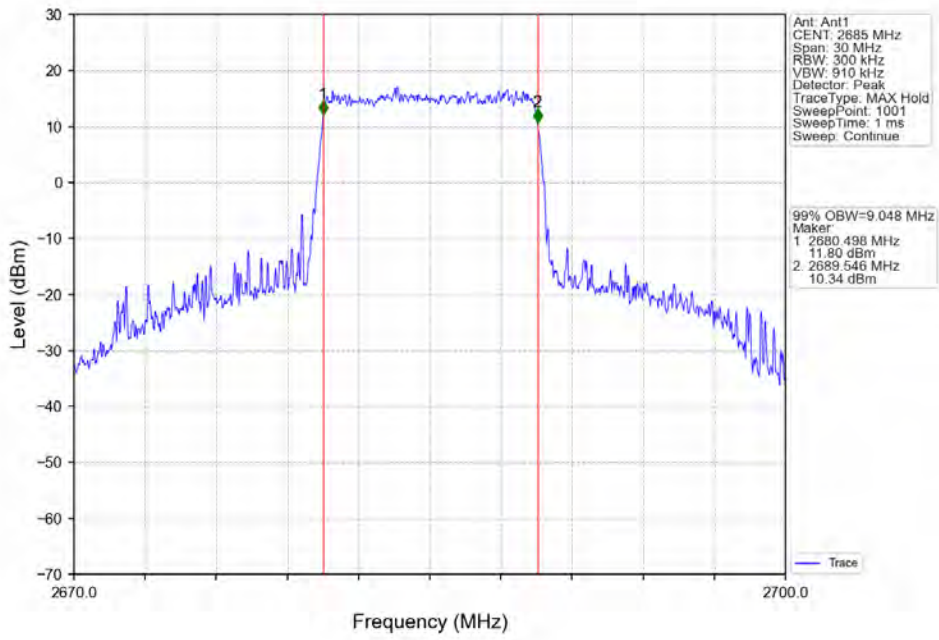
Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



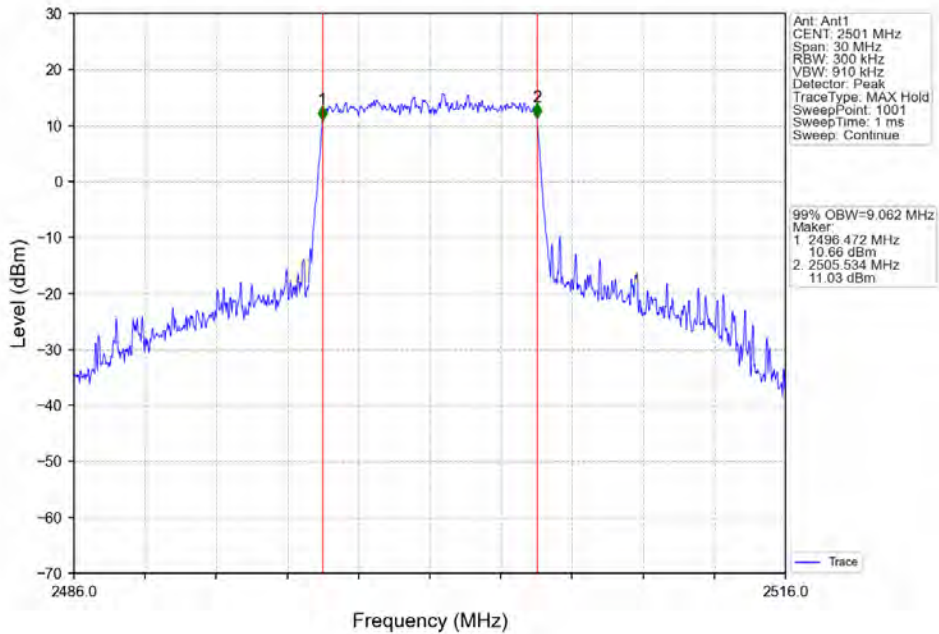
Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



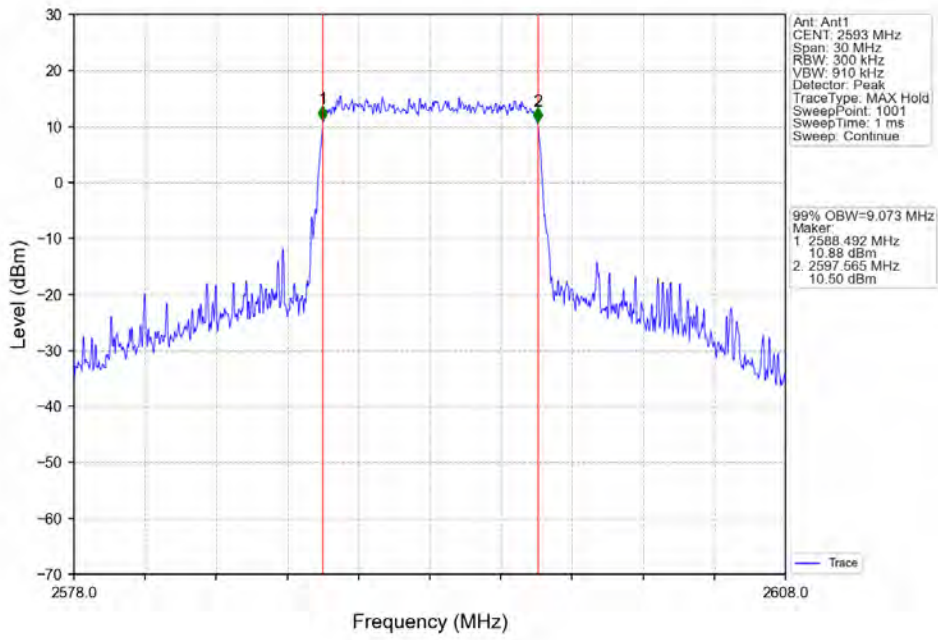
Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



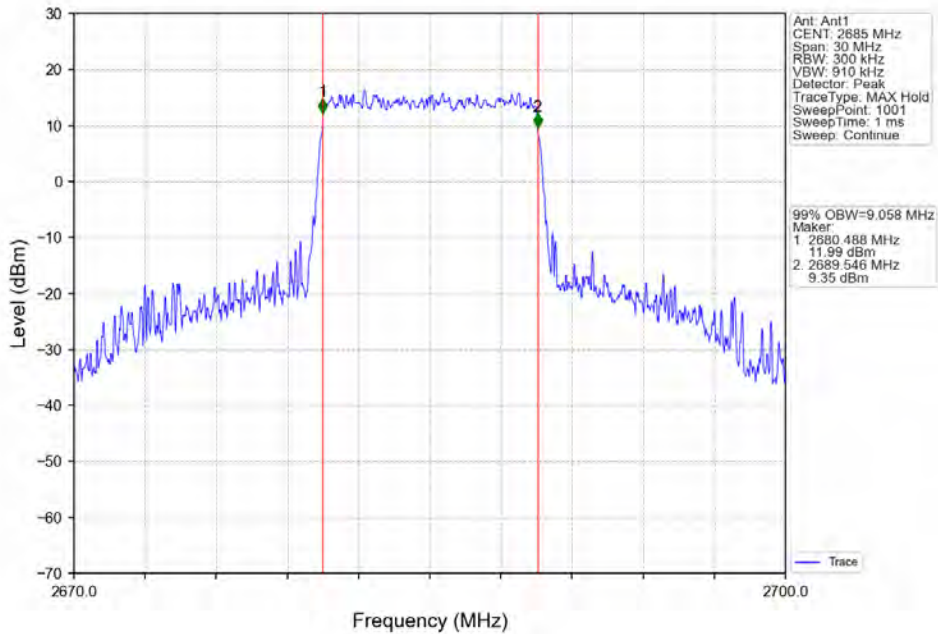
Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



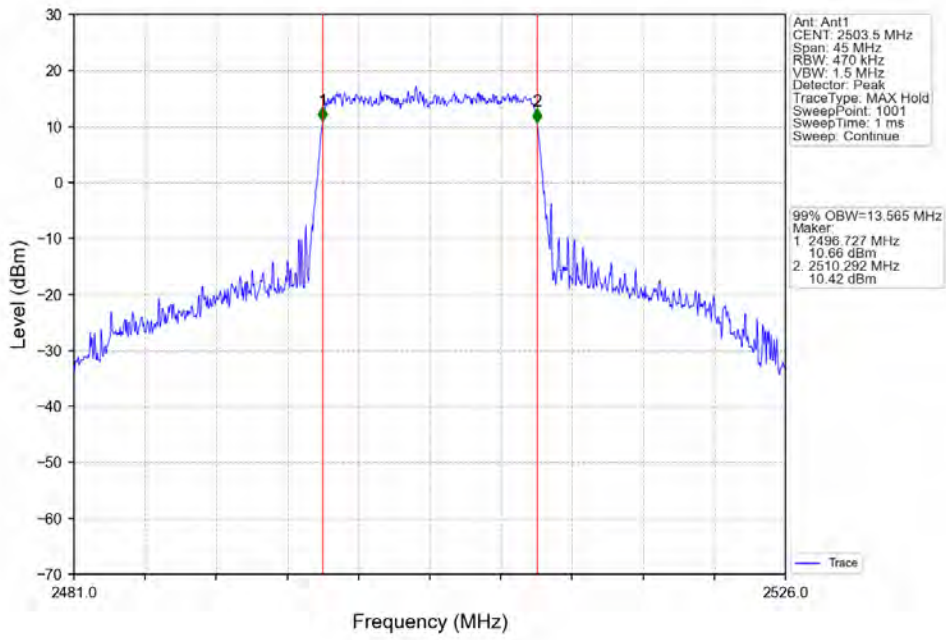
Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



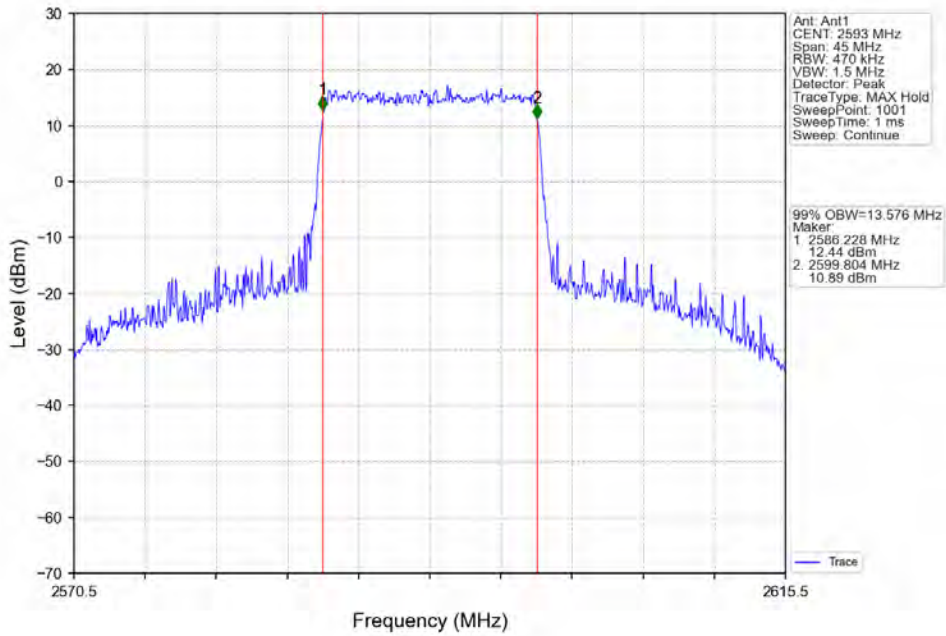
Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV



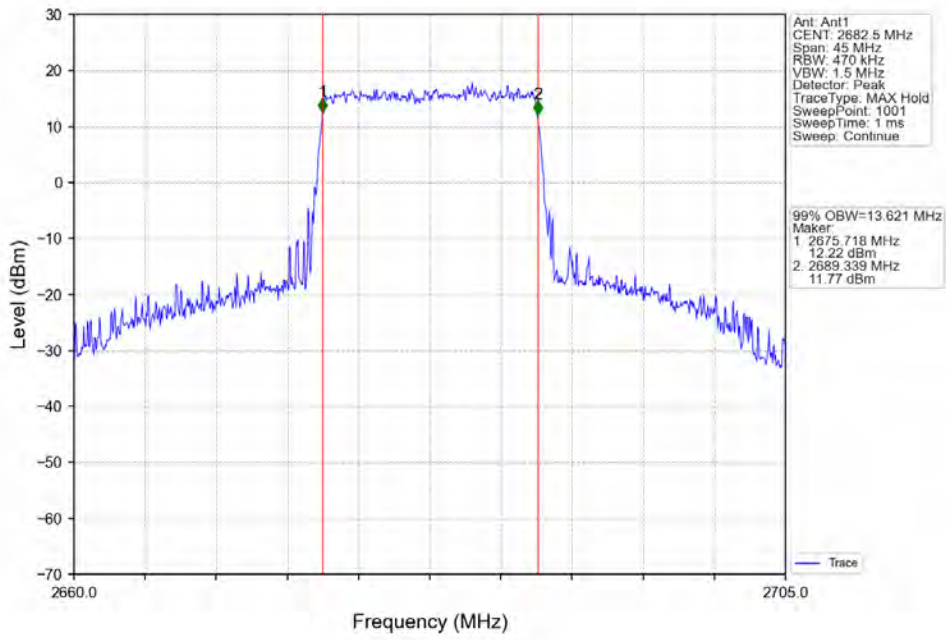
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



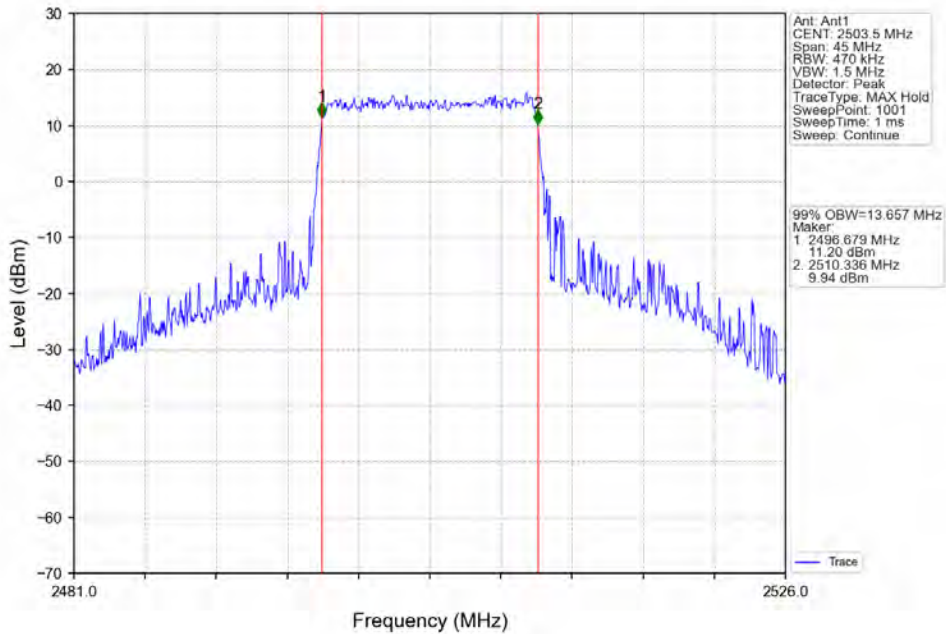
Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



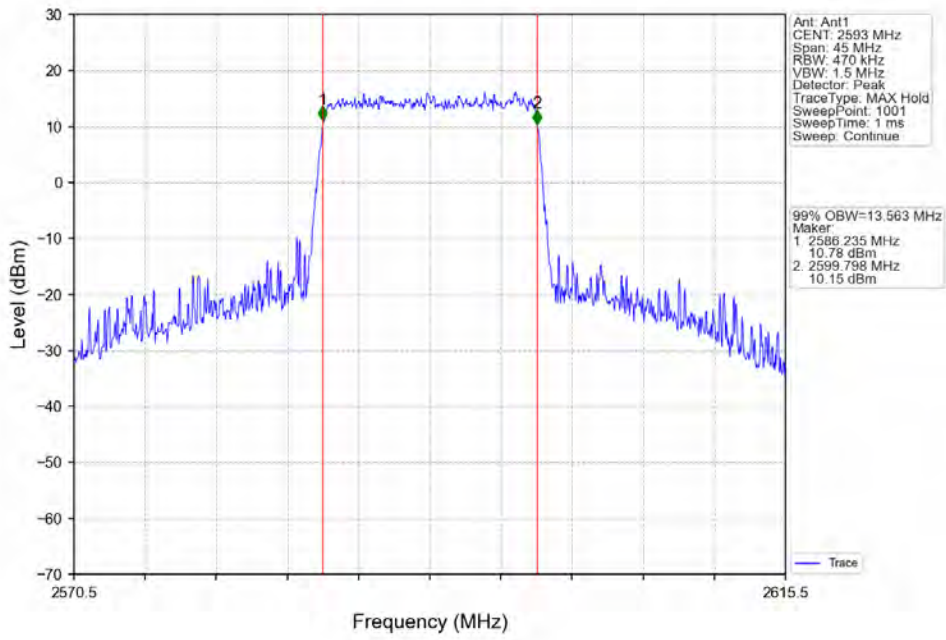
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



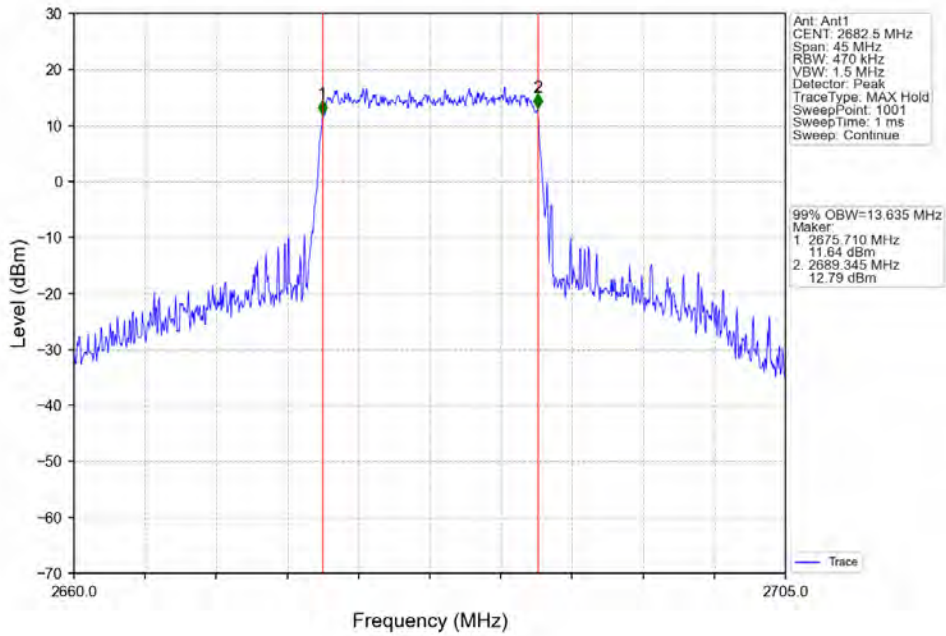
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



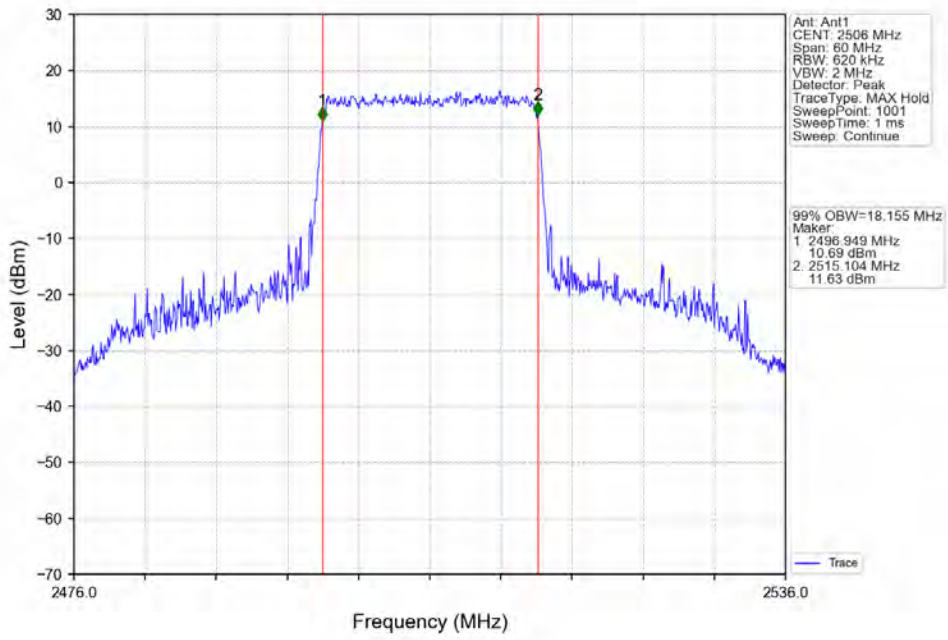
Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



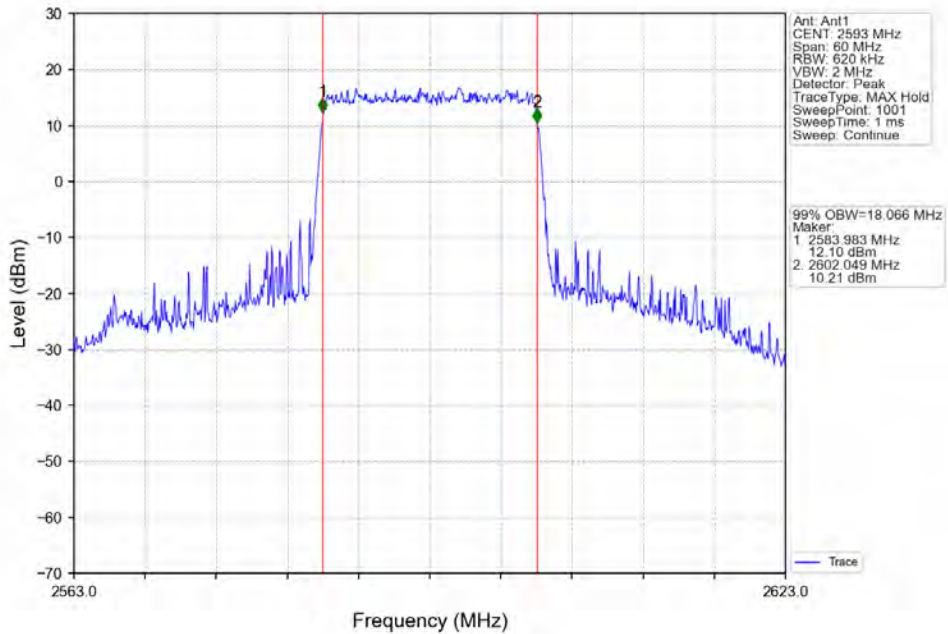
Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



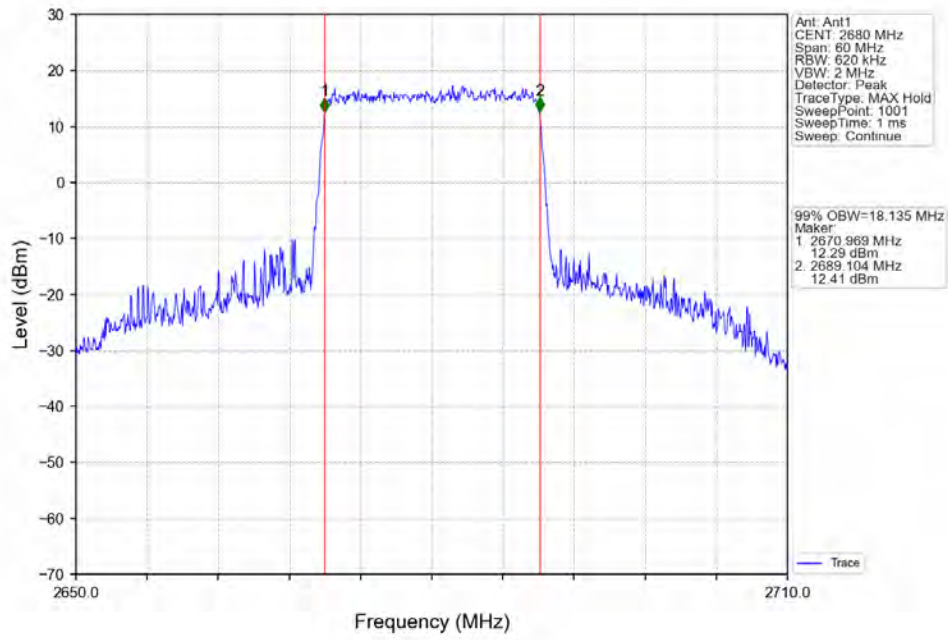
Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



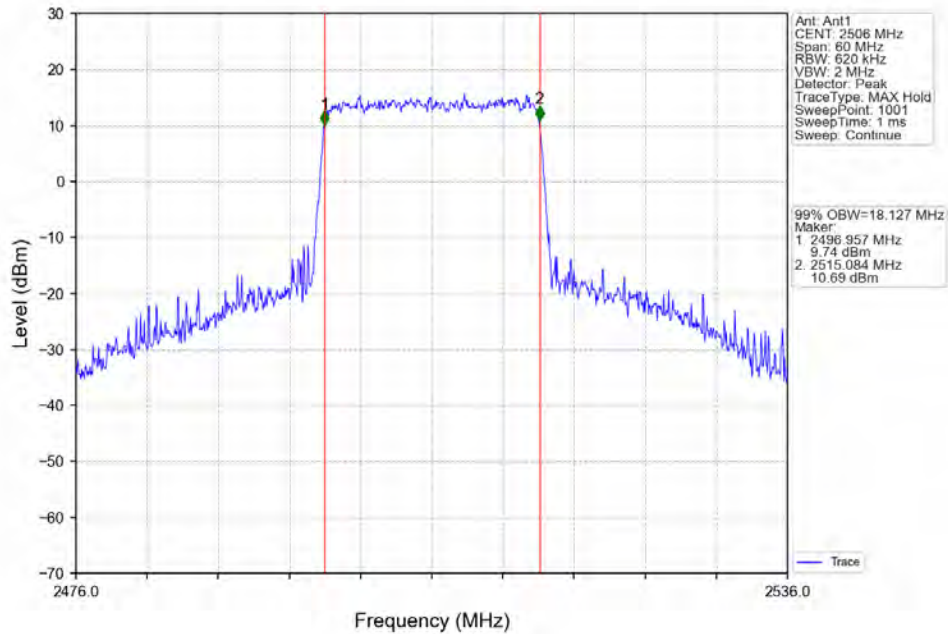
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



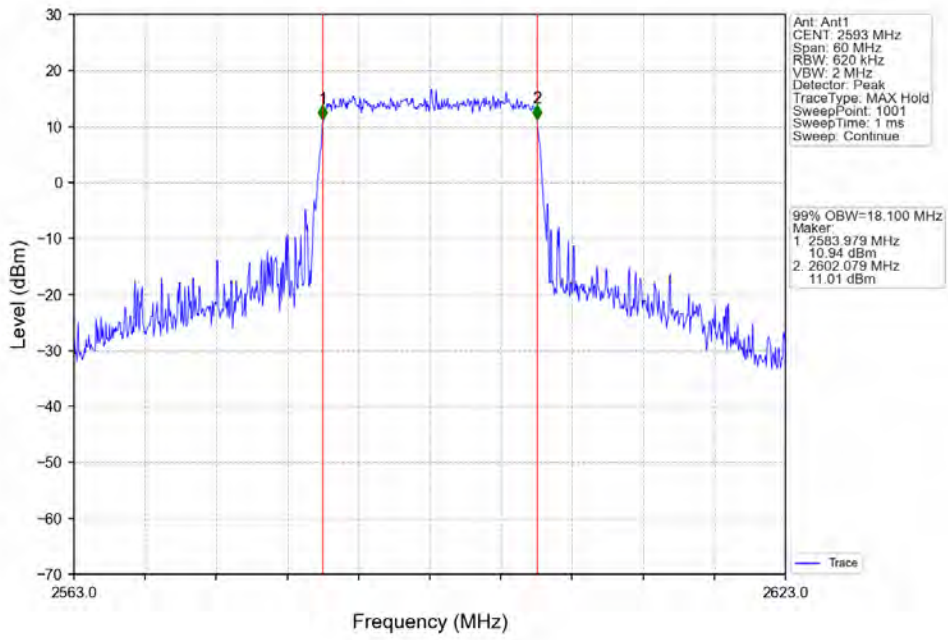
Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



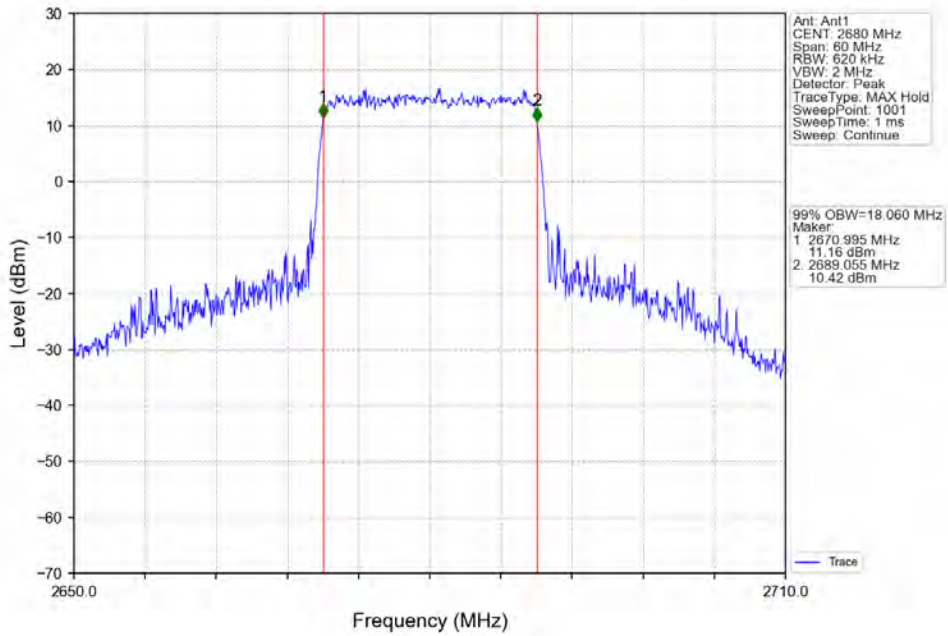
Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV

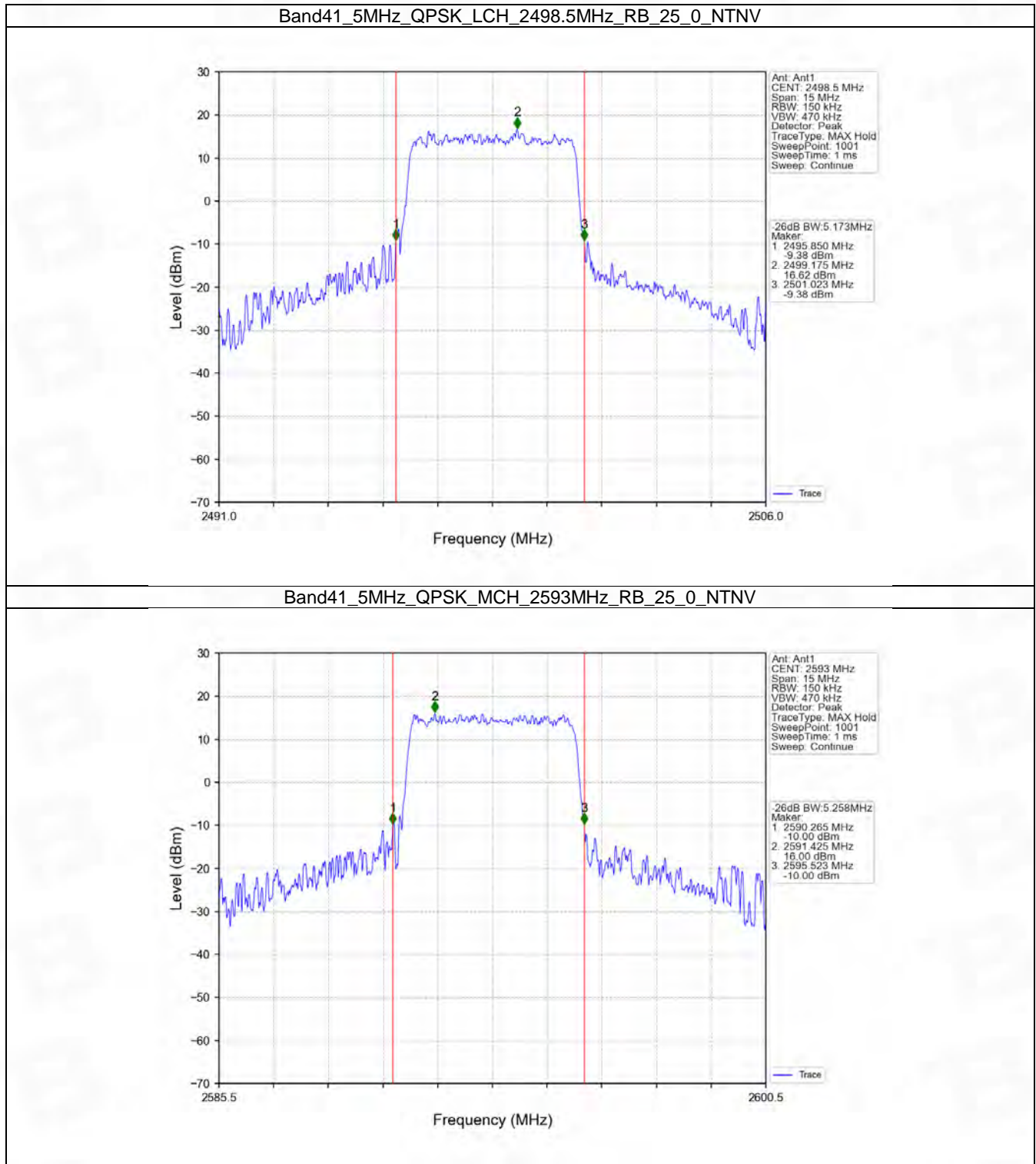


4.2 Band41_XDB

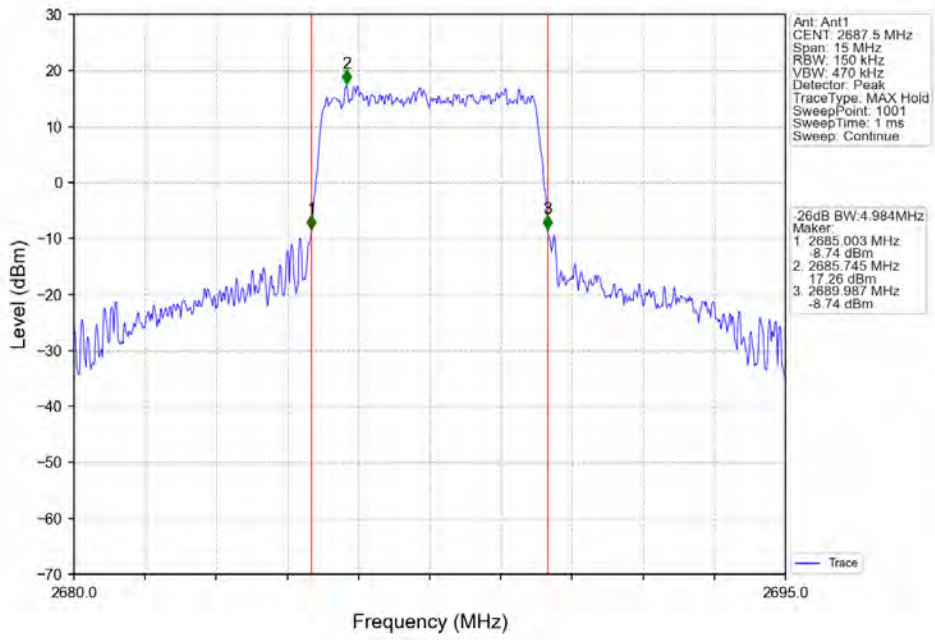
4.2.1 Test Result

| Band: 41 / NTNV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 2498.5 | 25 | 0 | 5.173 | / | Pass |
| | | 2593 | 25 | 0 | 5.258 | / | Pass |
| | | 2687.5 | 25 | 0 | 4.984 | / | Pass |
| | 16QAM | 2498.5 | 25 | 0 | 5.261 | / | Pass |
| | | 2593 | 25 | 0 | 5.307 | / | Pass |
| | | 2687.5 | 25 | 0 | 5.411 | / | Pass |
| 10 | QPSK | 2501 | 50 | 0 | 10.060 | / | Pass |
| | | 2593 | 50 | 0 | 10.056 | / | Pass |
| | | 2685 | 50 | 0 | 10.438 | / | Pass |
| | 16QAM | 2501 | 50 | 0 | 10.434 | / | Pass |
| | | 2593 | 50 | 0 | 10.023 | / | Pass |
| | | 2685 | 50 | 0 | 10.145 | / | Pass |
| 15 | QPSK | 2503.5 | 75 | 0 | 15.582 | / | Pass |
| | | 2593 | 75 | 0 | 14.934 | / | Pass |
| | | 2682.5 | 75 | 0 | 15.527 | / | Pass |
| | 16QAM | 2503.5 | 75 | 0 | 16.126 | / | Pass |
| | | 2593 | 75 | 0 | 14.908 | / | Pass |
| | | 2682.5 | 75 | 0 | 15.224 | / | Pass |
| 20 | QPSK | 2506 | 100 | 0 | 20.448 | / | Pass |
| | | 2593 | 100 | 0 | 20.884 | / | Pass |
| | | 2680 | 100 | 0 | 19.751 | / | Pass |
| | 16QAM | 2506 | 100 | 0 | 19.775 | / | Pass |
| | | 2593 | 100 | 0 | 22.941 | / | Pass |
| | | 2680 | 100 | 0 | 21.015 | / | Pass |

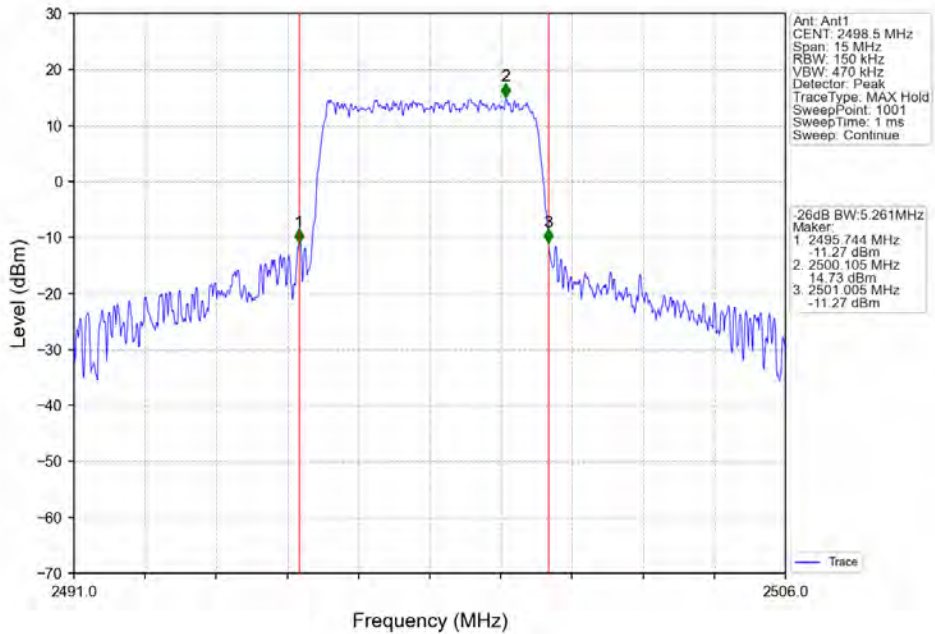
4.2.2 Test Graph



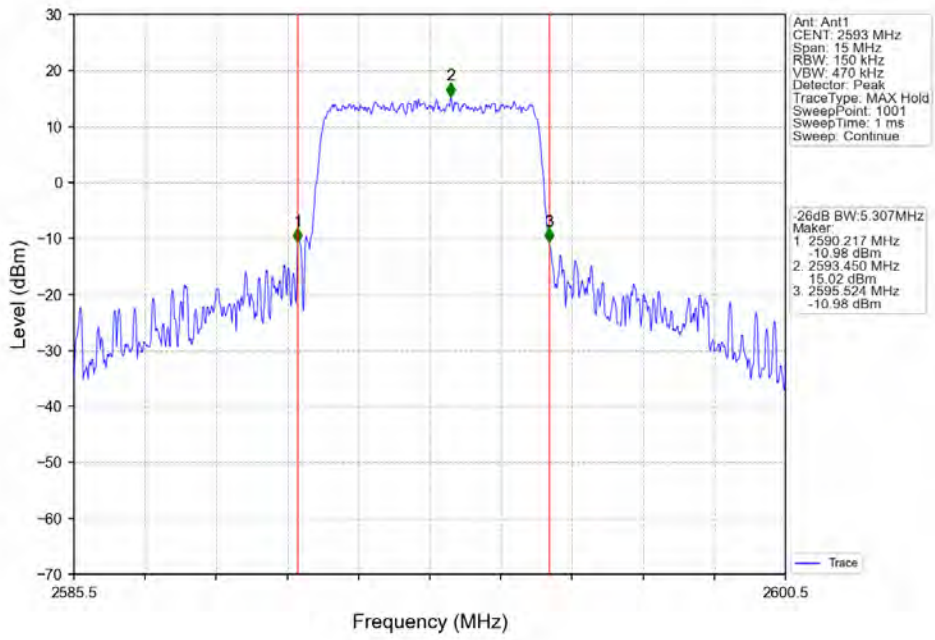
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



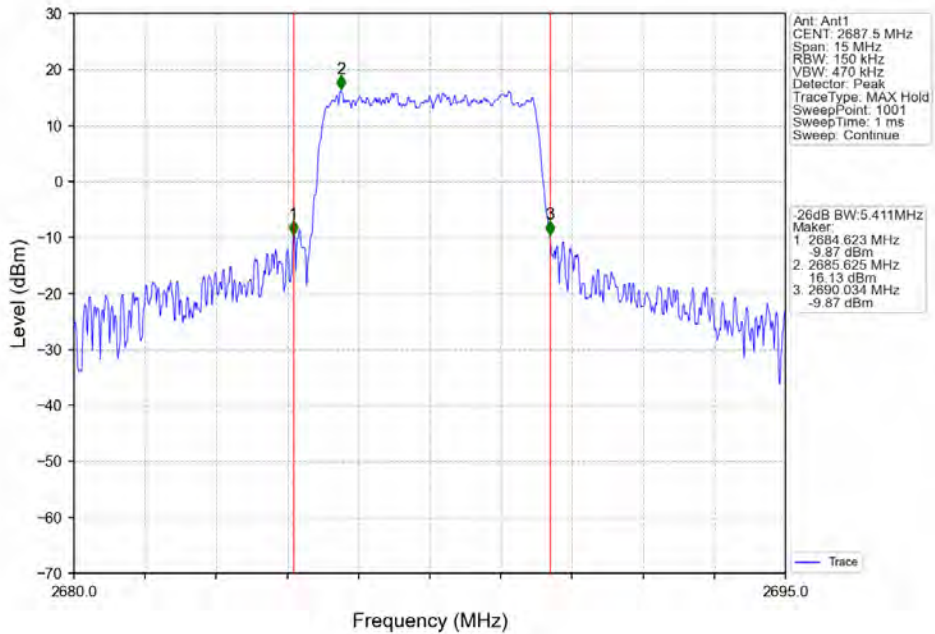
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



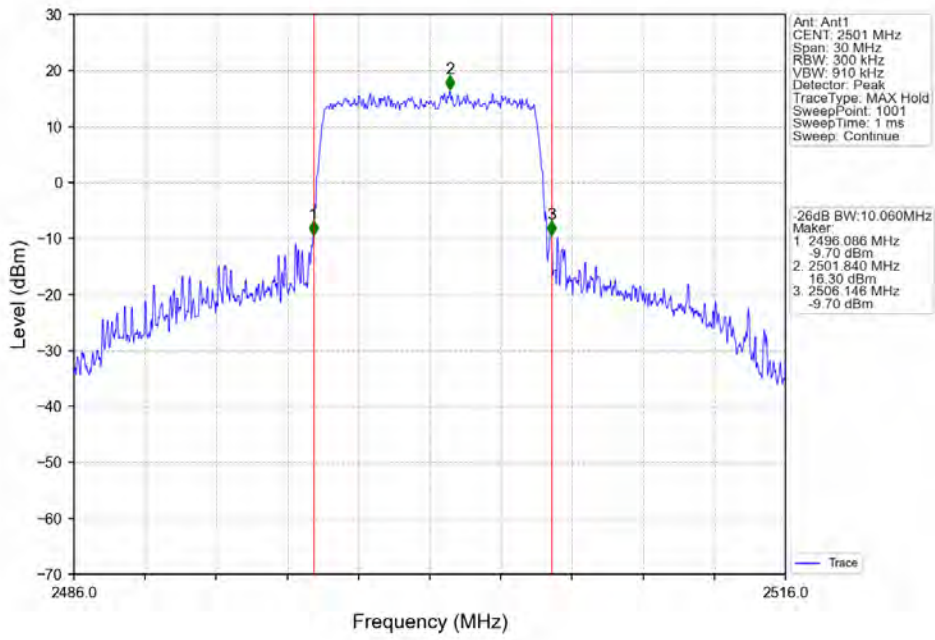
Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



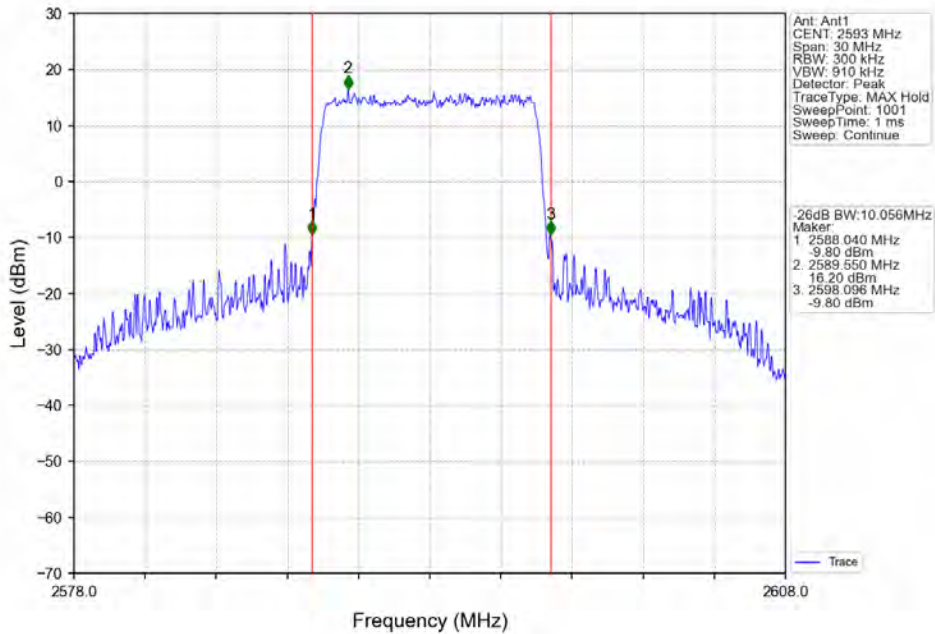
Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



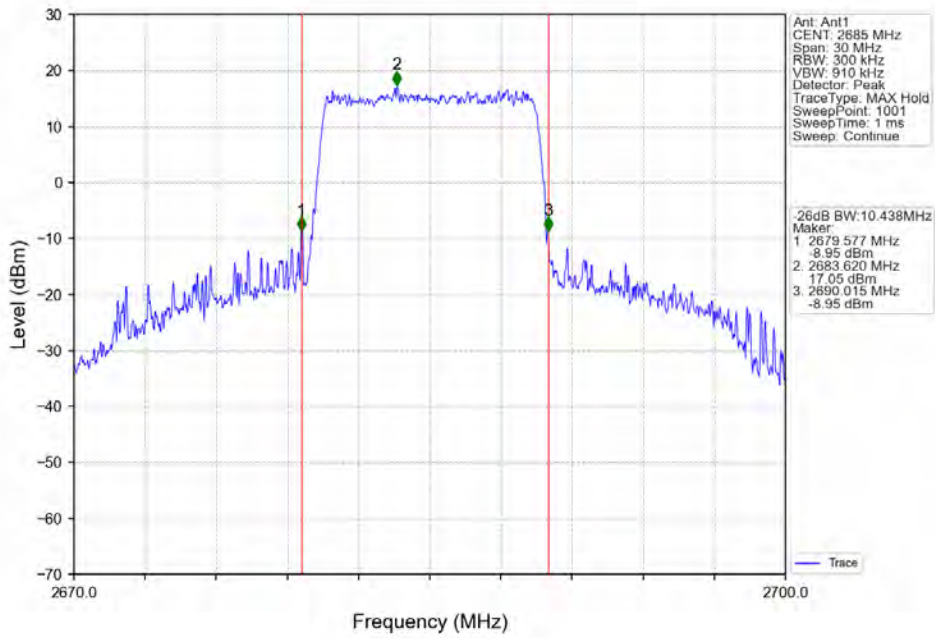
Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



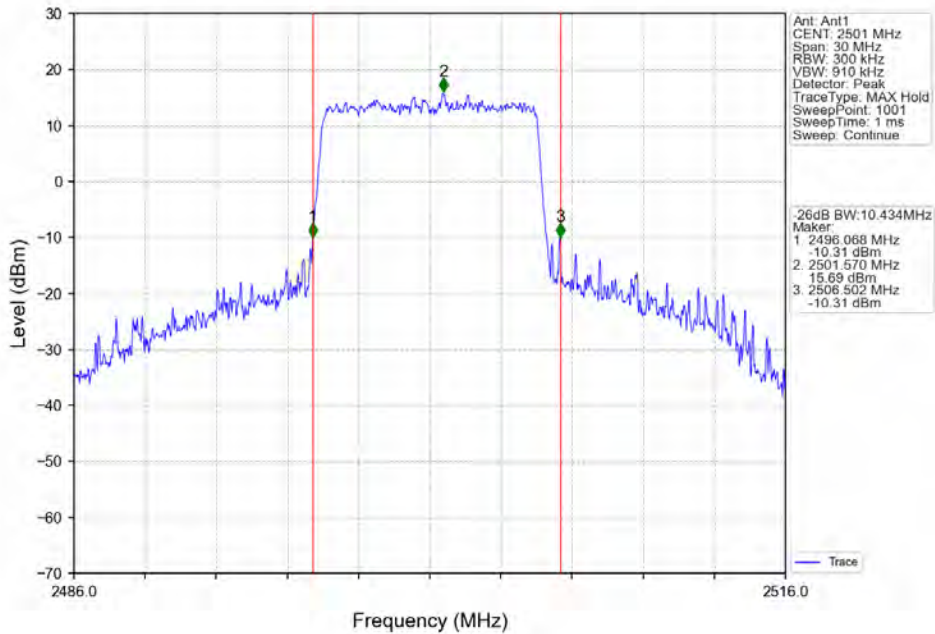
Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



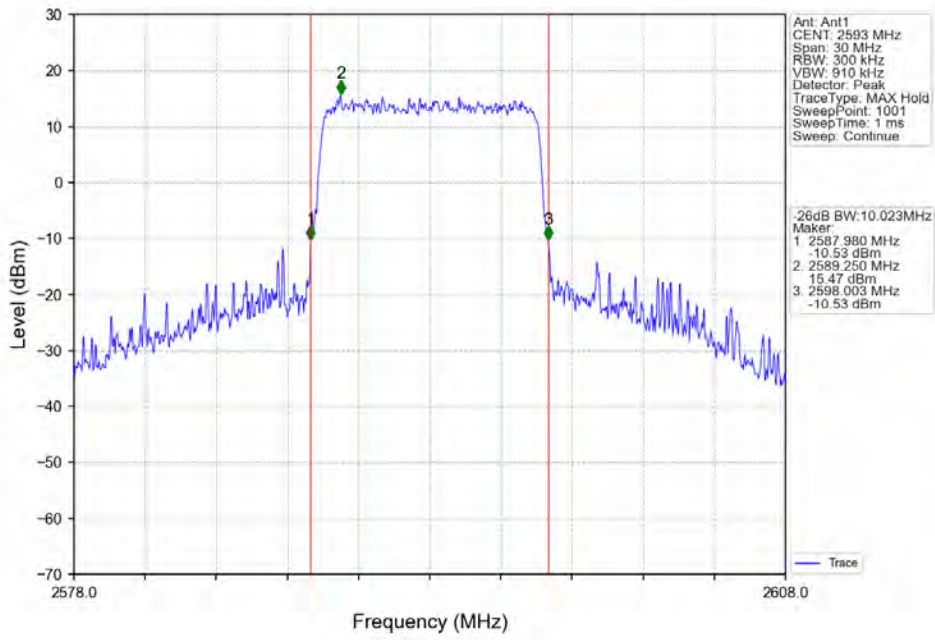
Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



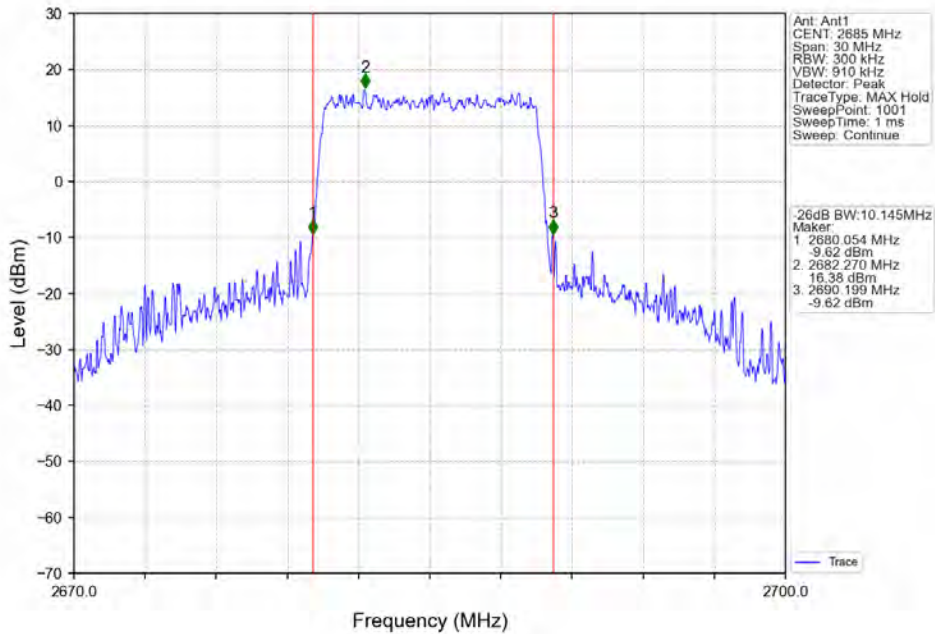
Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



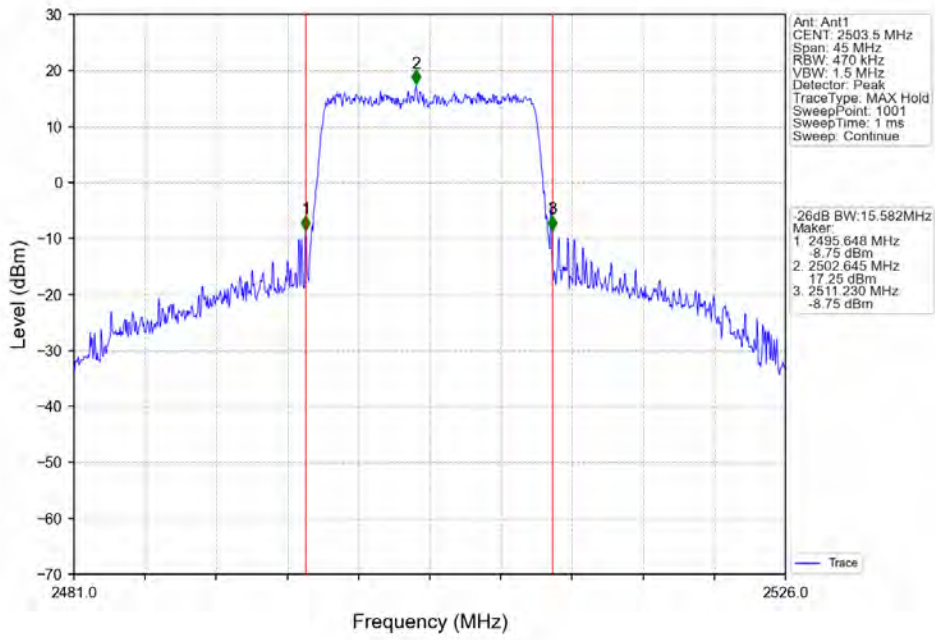
Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



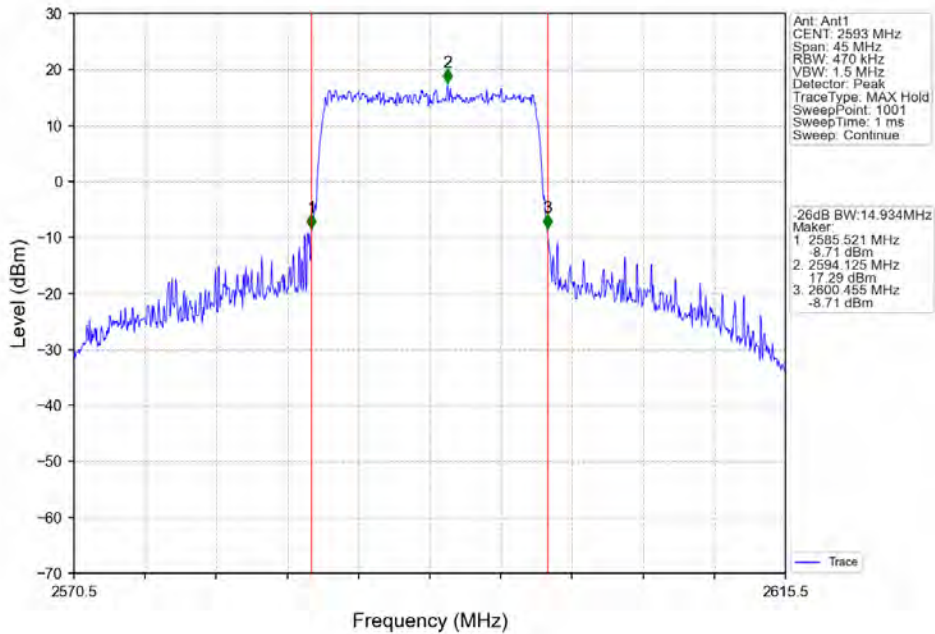
Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV



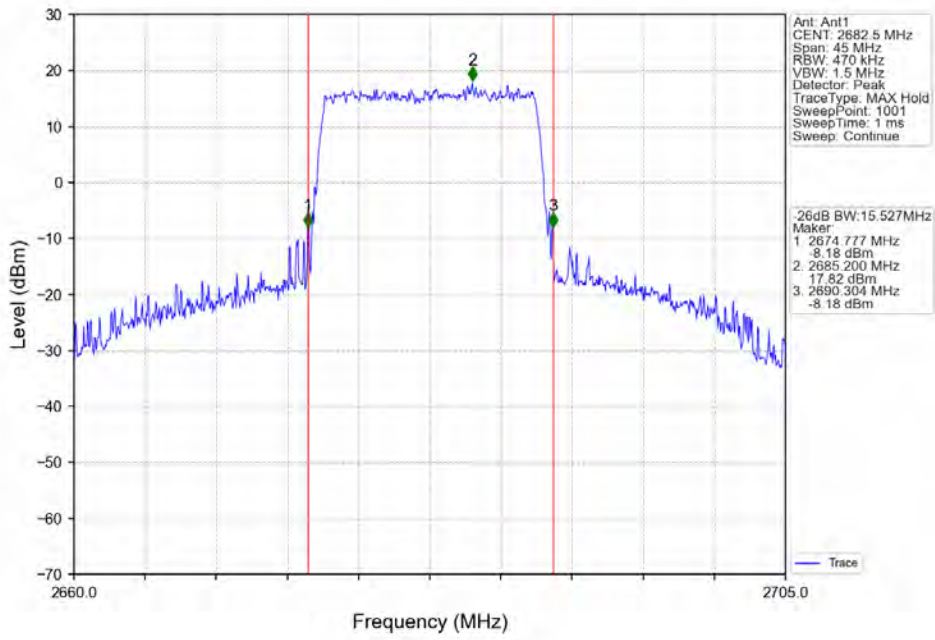
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



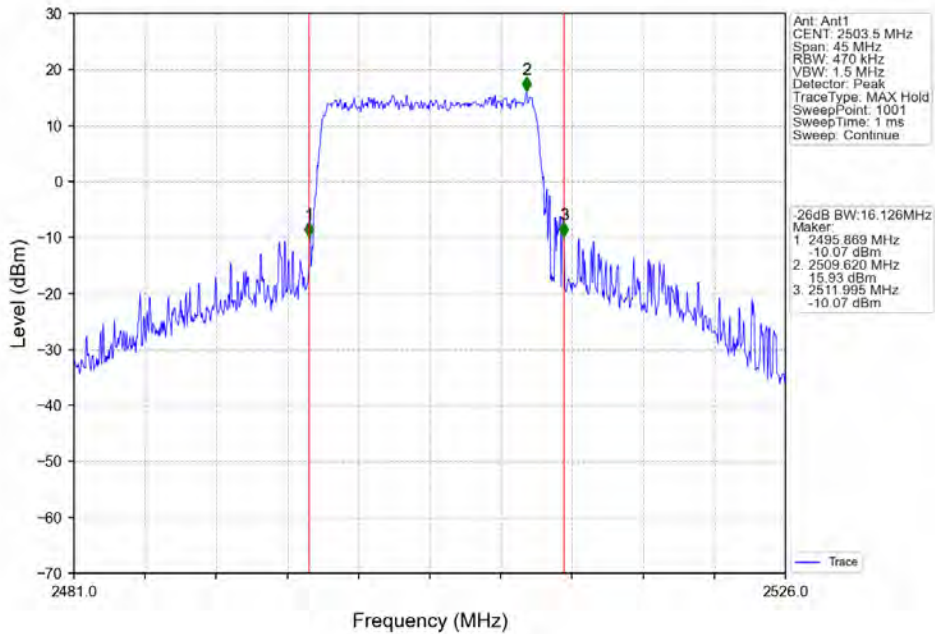
Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



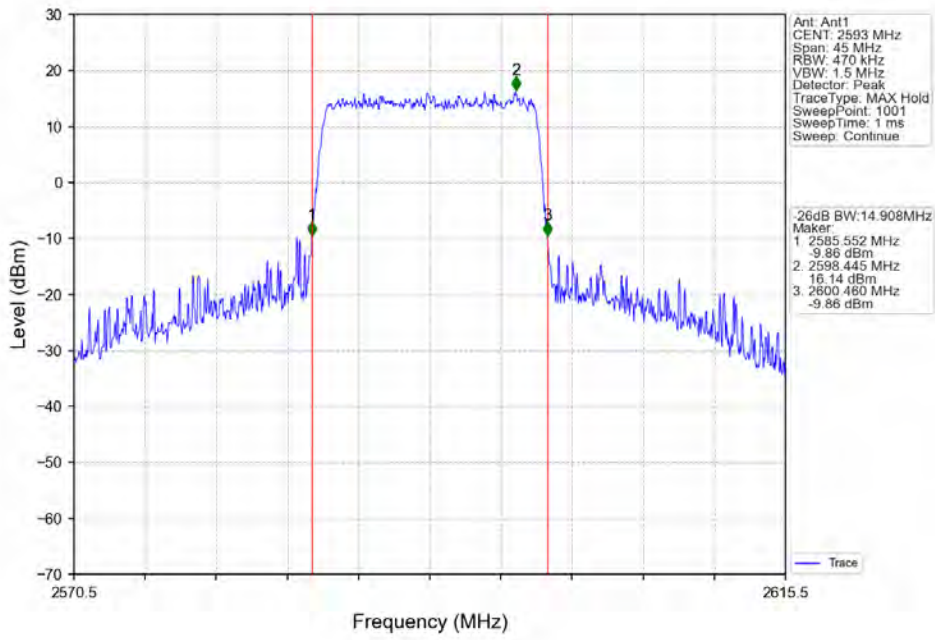
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



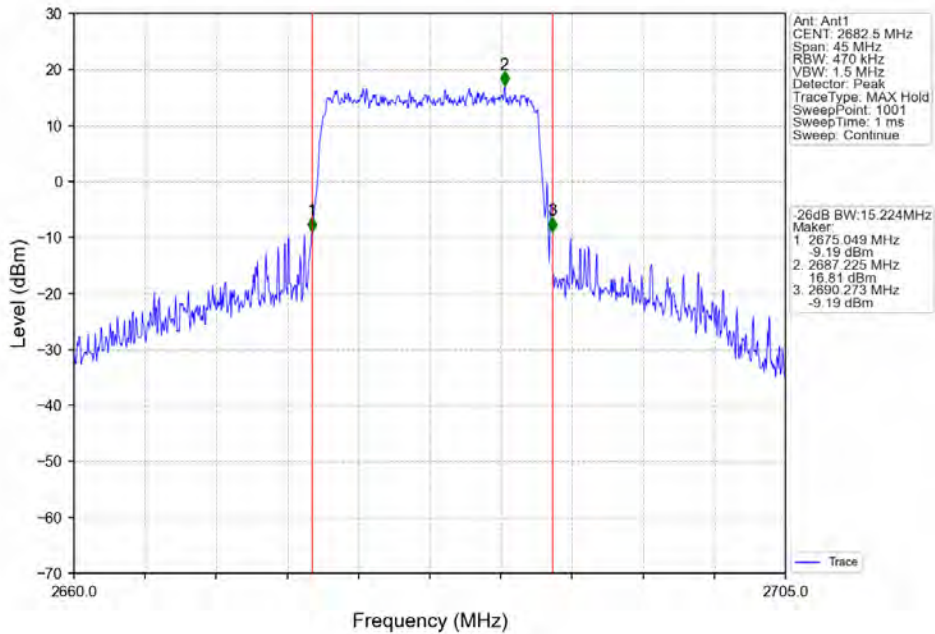
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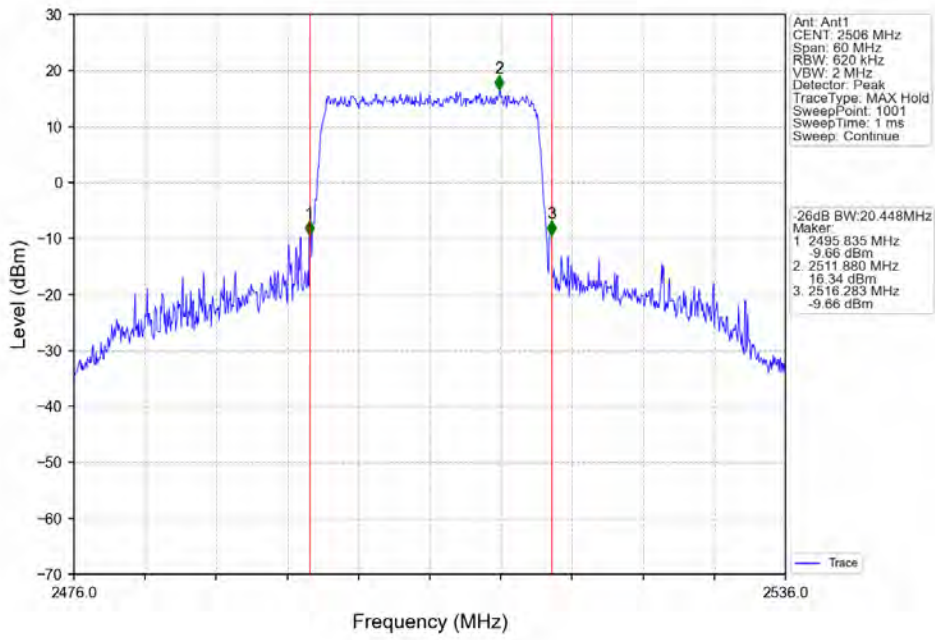
Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



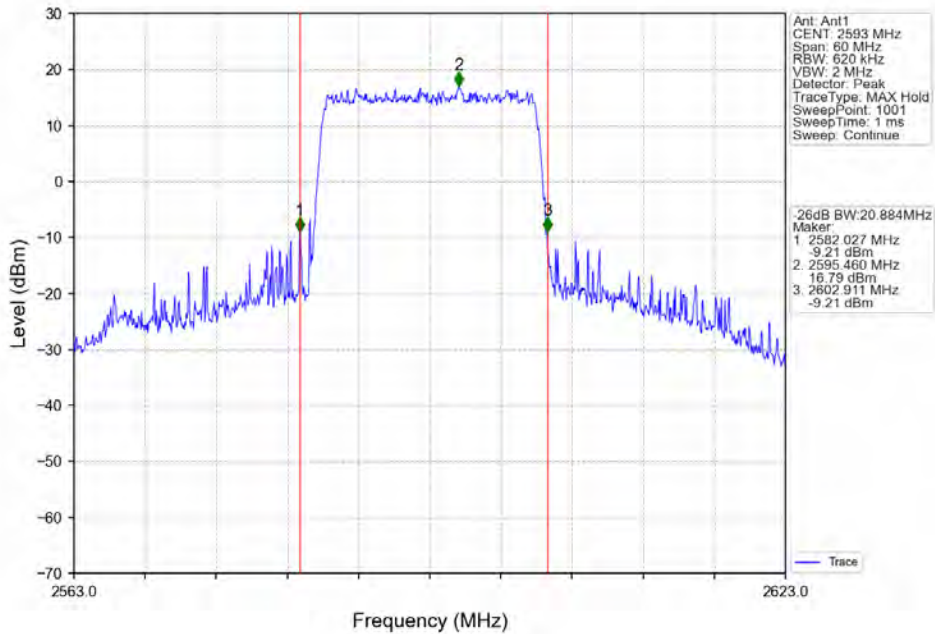
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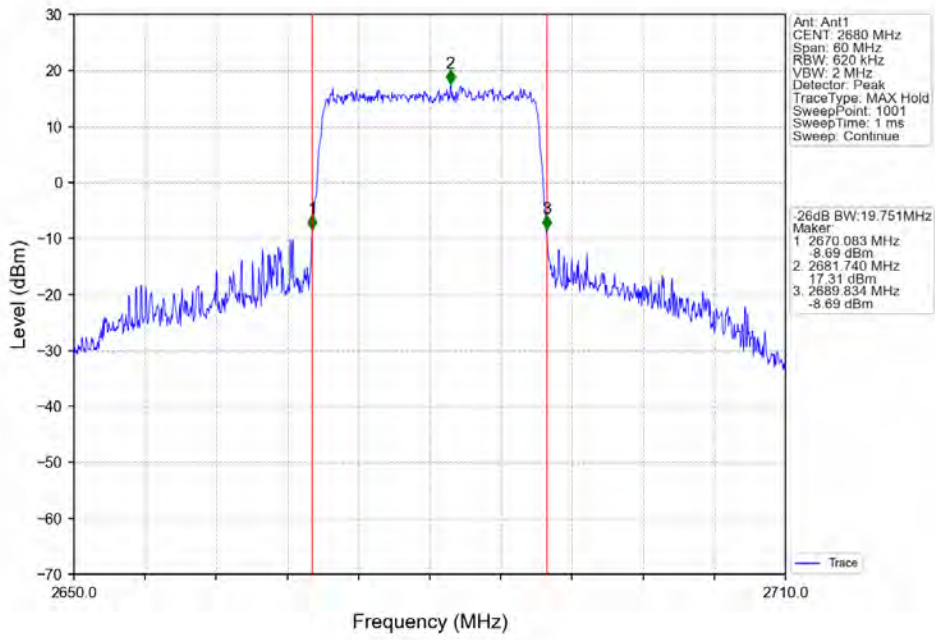
Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



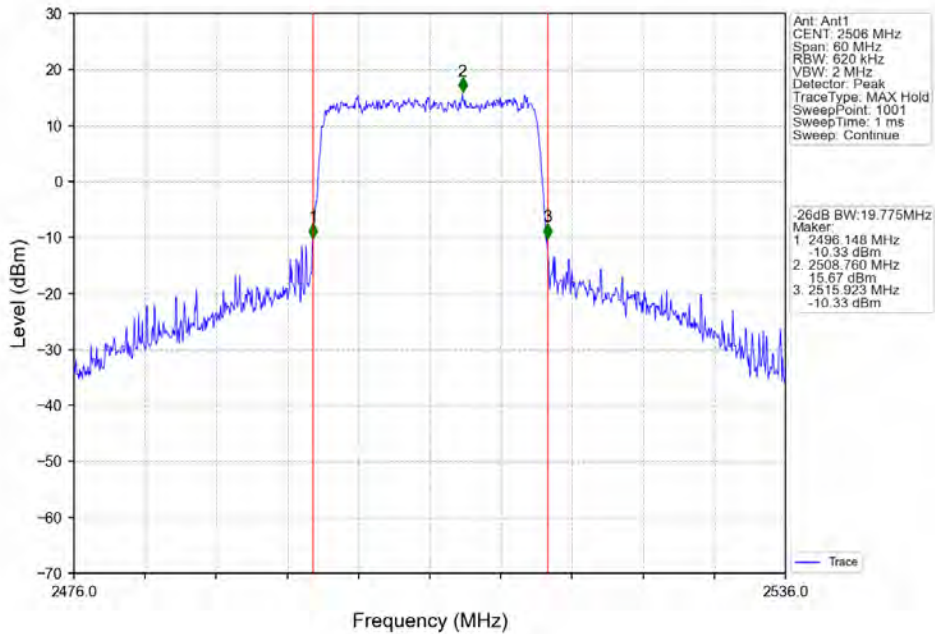
Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



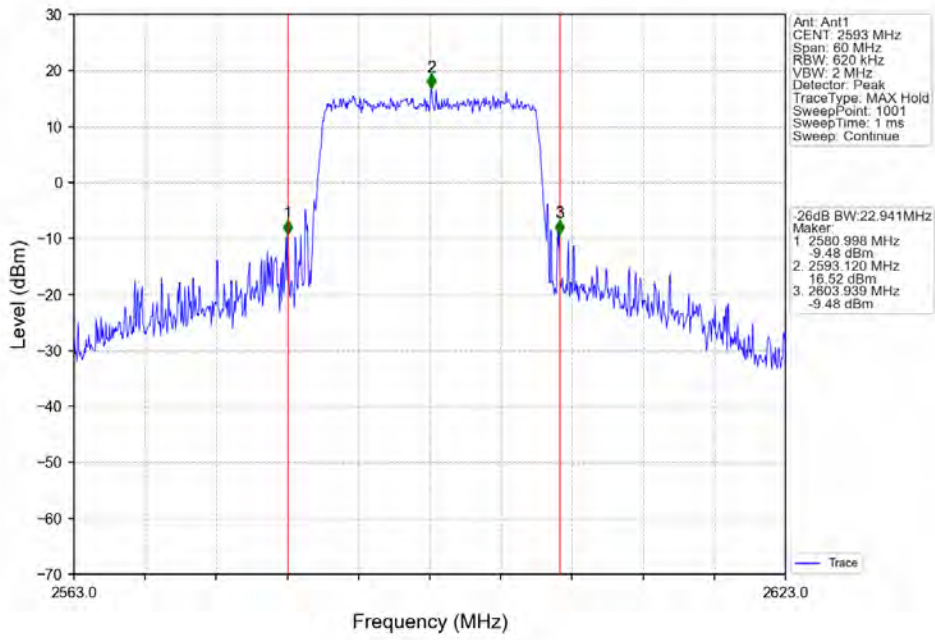
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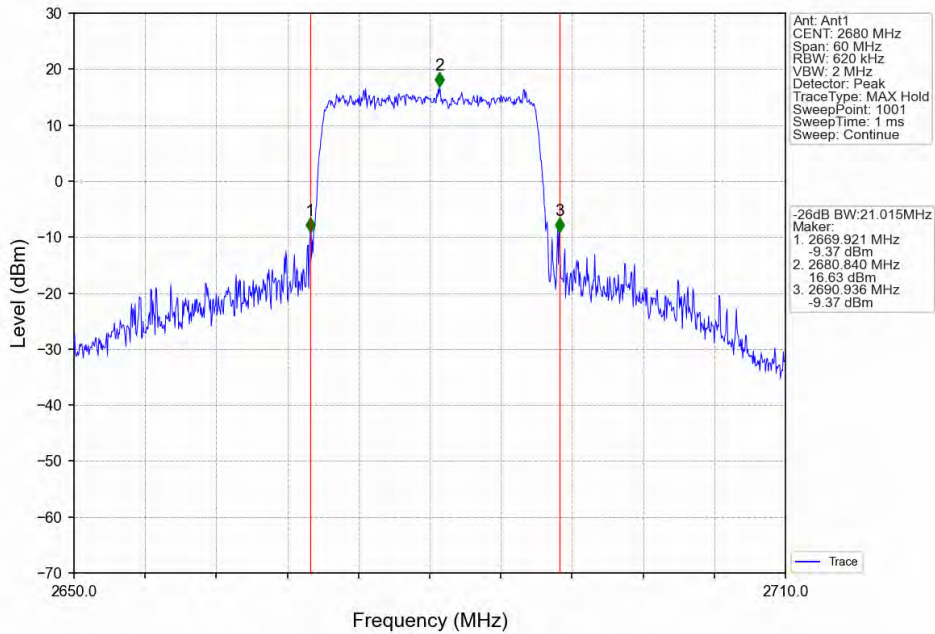
Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



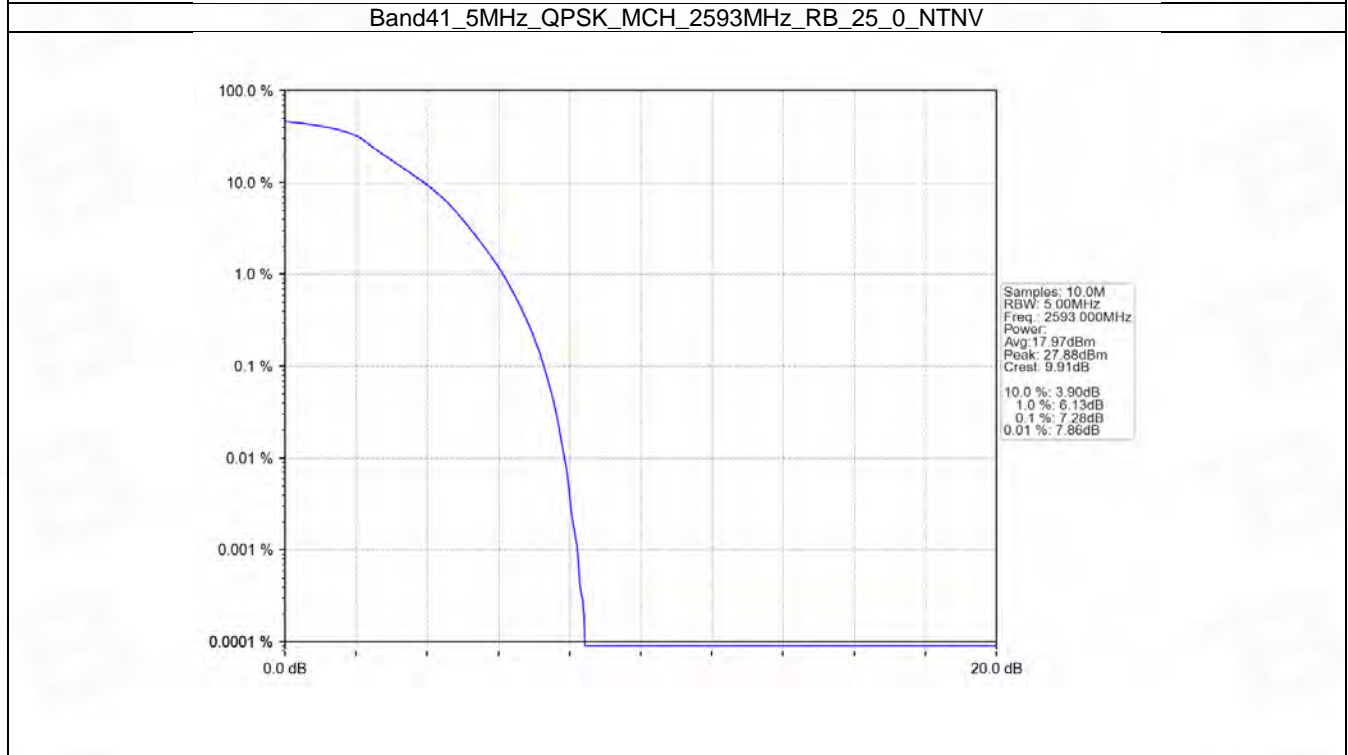
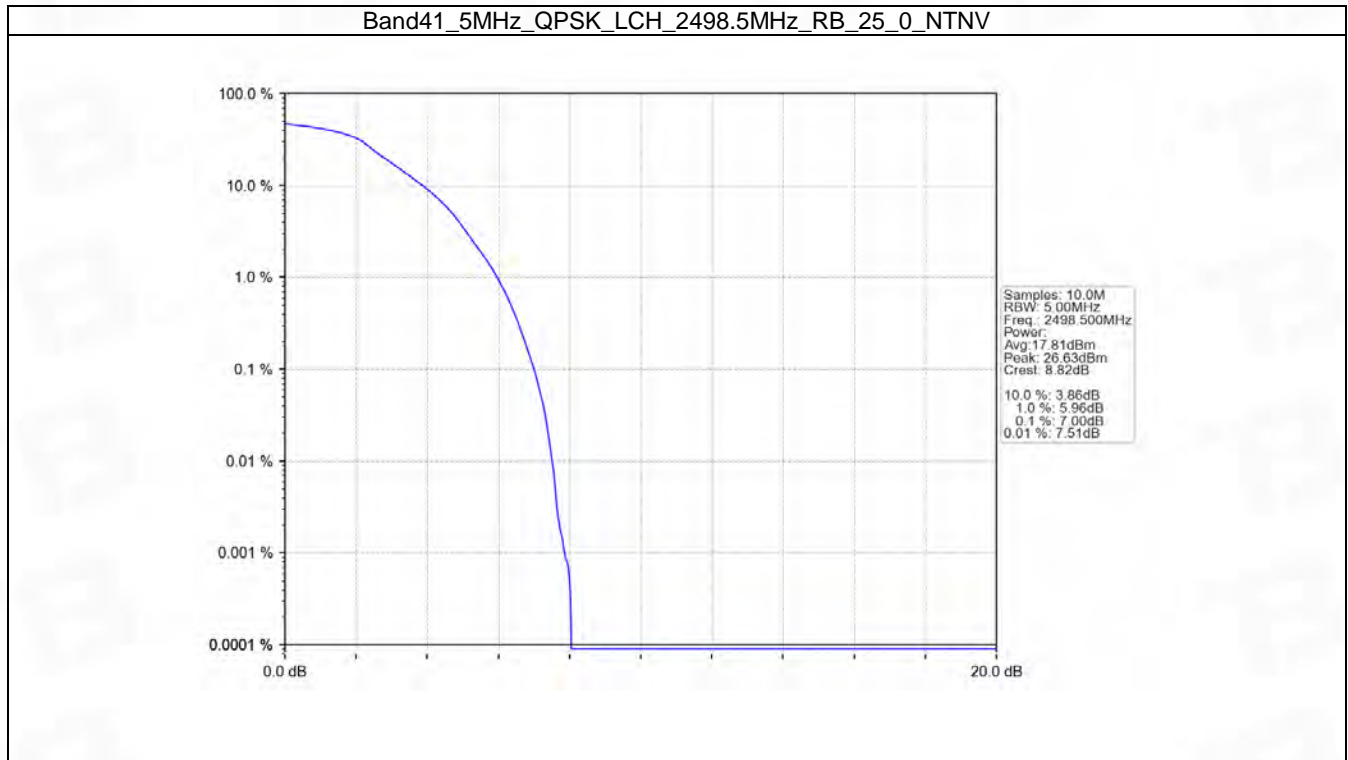
5. Peak-Average Ratio

5.1 B41_5MHz

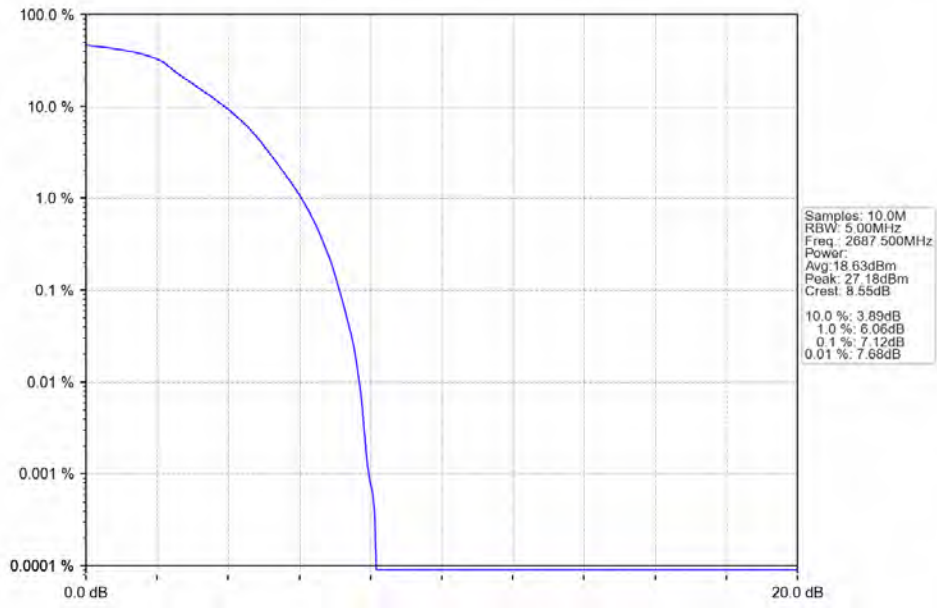
5.1.1 Test Result

| Band: 41 / Bandwidth: 5MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2498.5 | 25 | 0 | 7.00 | <=13 | Pass |
| | 2593 | 25 | 0 | 7.28 | <=13 | Pass |
| | 2687.5 | 25 | 0 | 7.12 | <=13 | Pass |
| 16QAM | 2498.5 | 25 | 0 | 7.60 | <=13 | Pass |
| | 2593 | 25 | 0 | 7.90 | <=13 | Pass |
| | 2687.5 | 25 | 0 | 7.69 | <=13 | Pass |

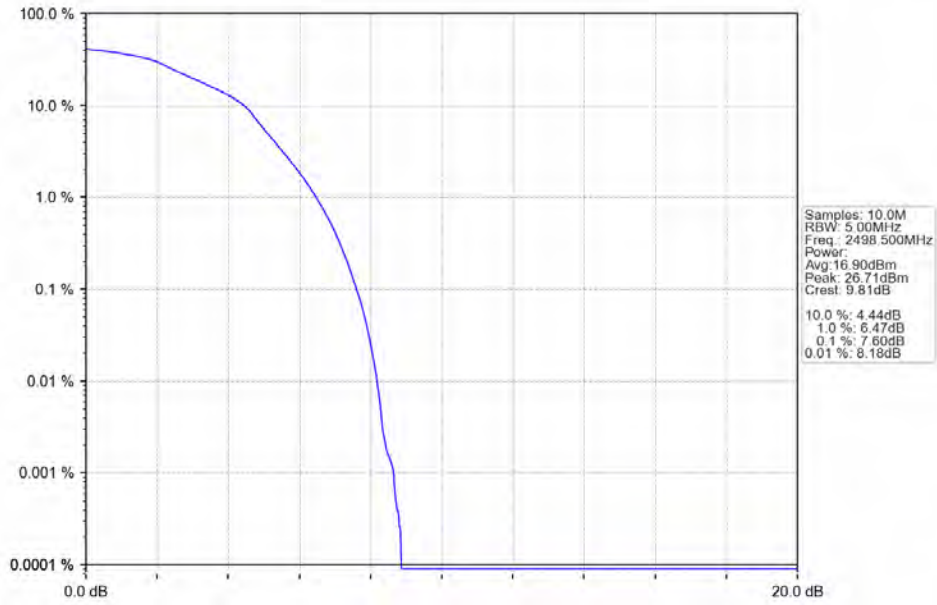
5.1.2 Test Graph



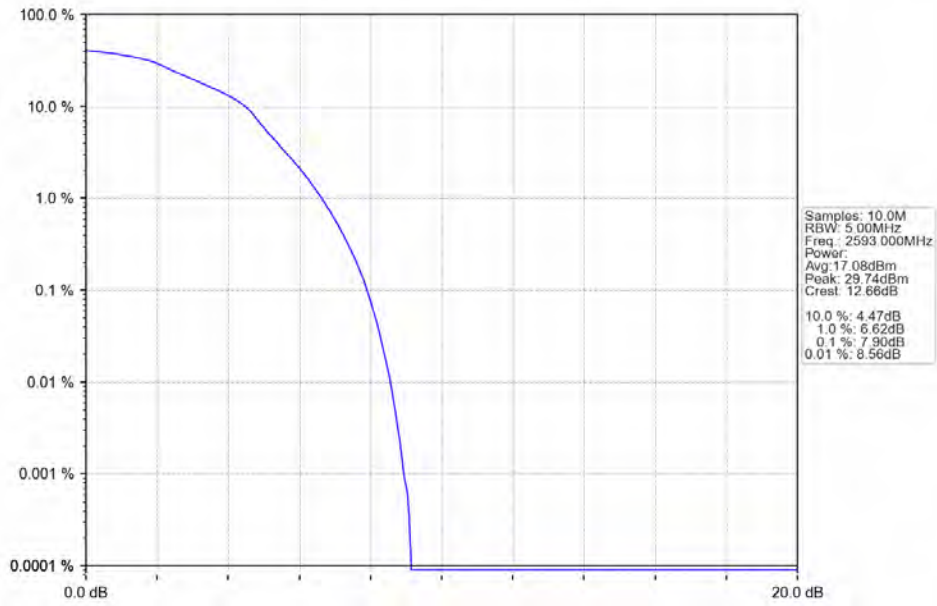
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



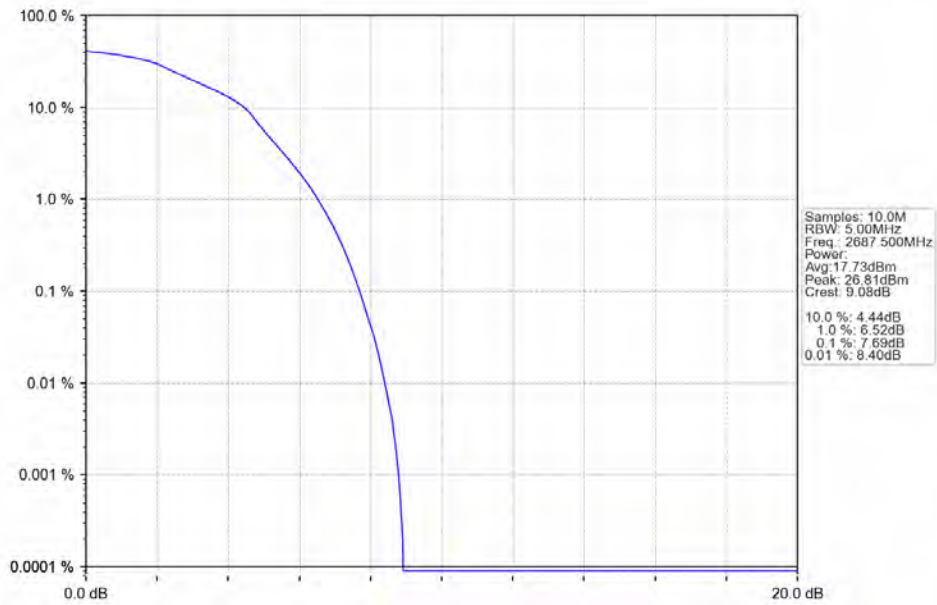
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_MCH_2593MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV

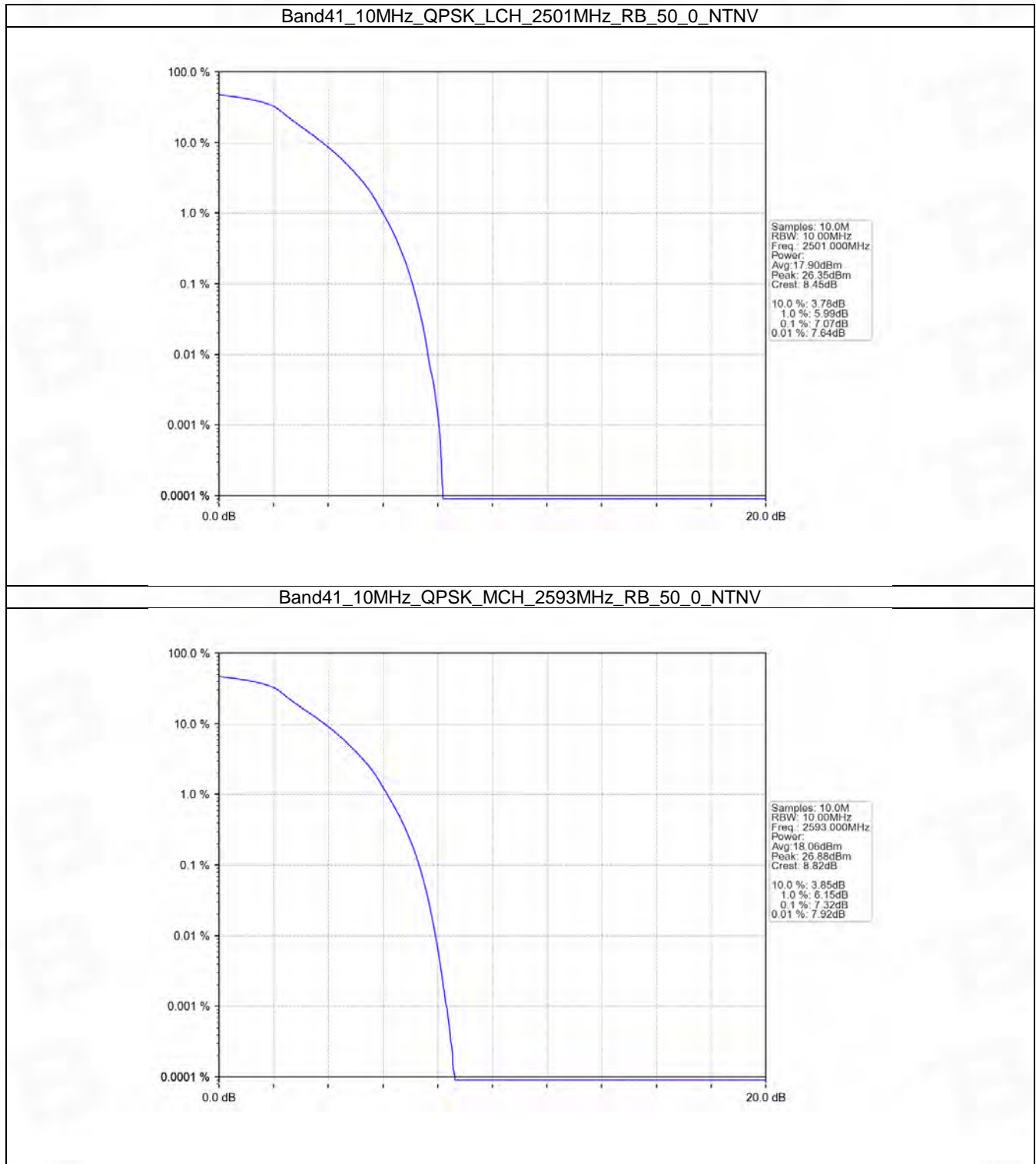


5.2 B41_10MHz

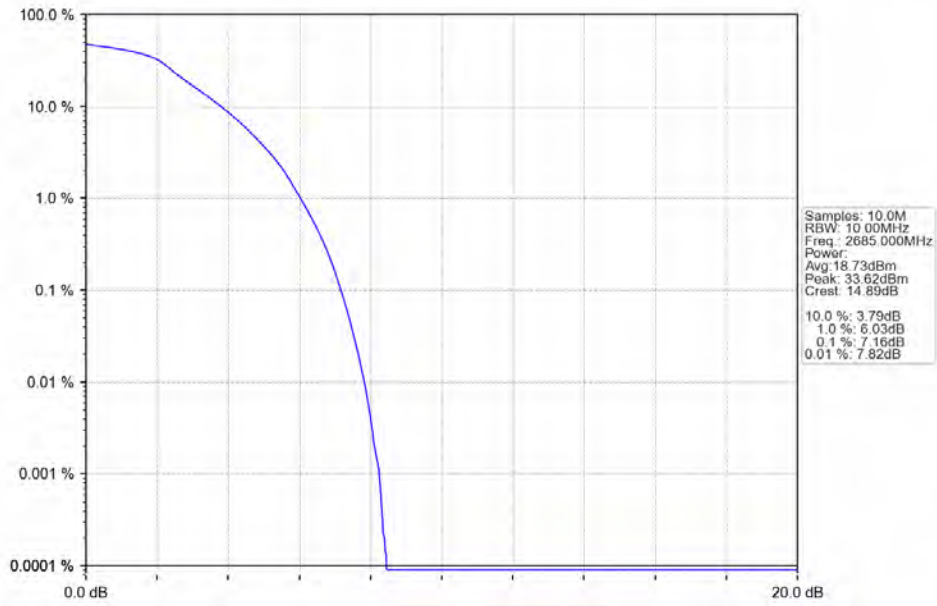
5.2.1 Test Result

| Band: 41 / Bandwidth: 10MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2501 | 50 | 0 | 7.07 | <=13 | Pass |
| | 2593 | 50 | 0 | 7.32 | <=13 | Pass |
| | 2685 | 50 | 0 | 7.16 | <=13 | Pass |
| 16QAM | 2501 | 50 | 0 | 7.81 | <=13 | Pass |
| | 2593 | 50 | 0 | 7.94 | <=13 | Pass |
| | 2685 | 50 | 0 | 7.78 | <=13 | Pass |

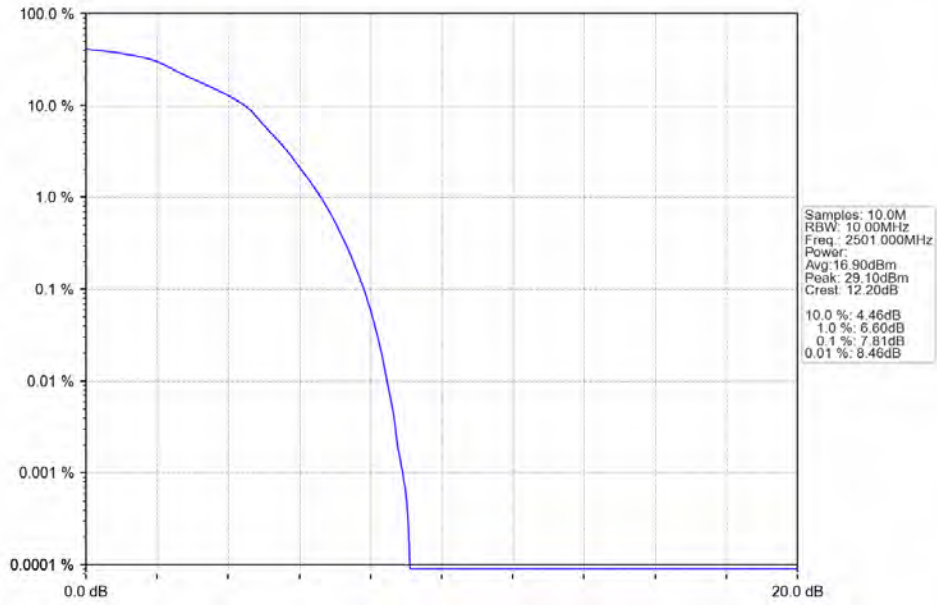
5.2.2 Test Graph



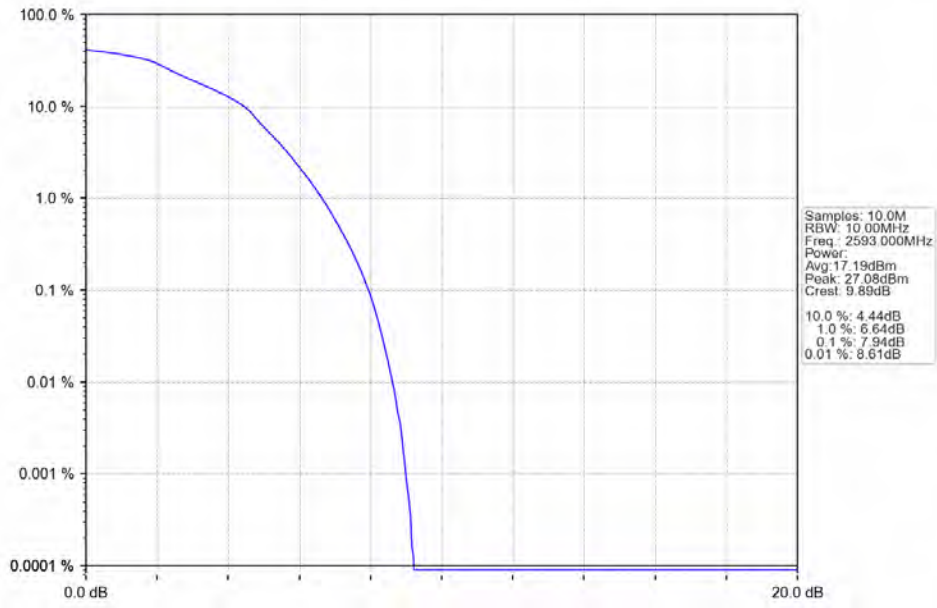
Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



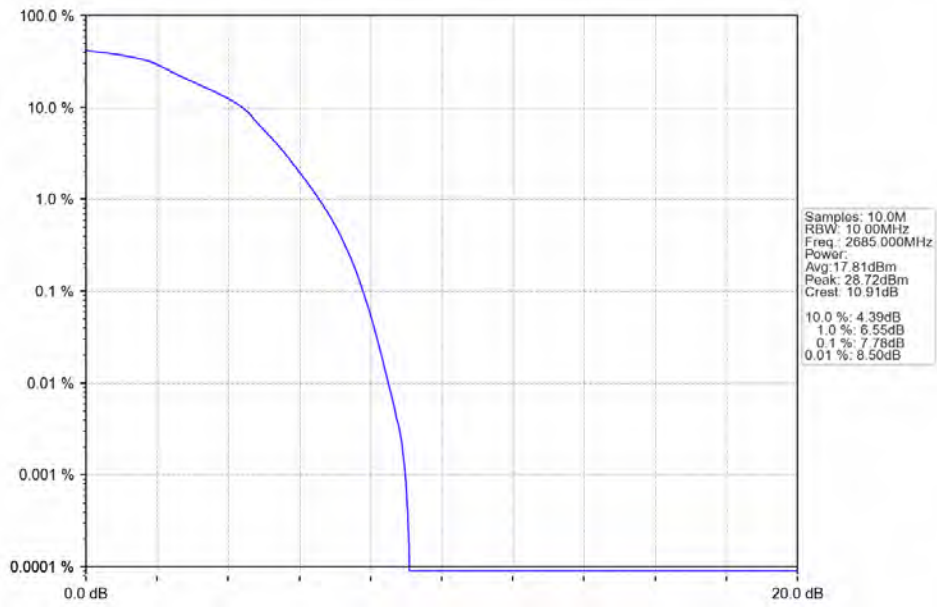
Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV



Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV

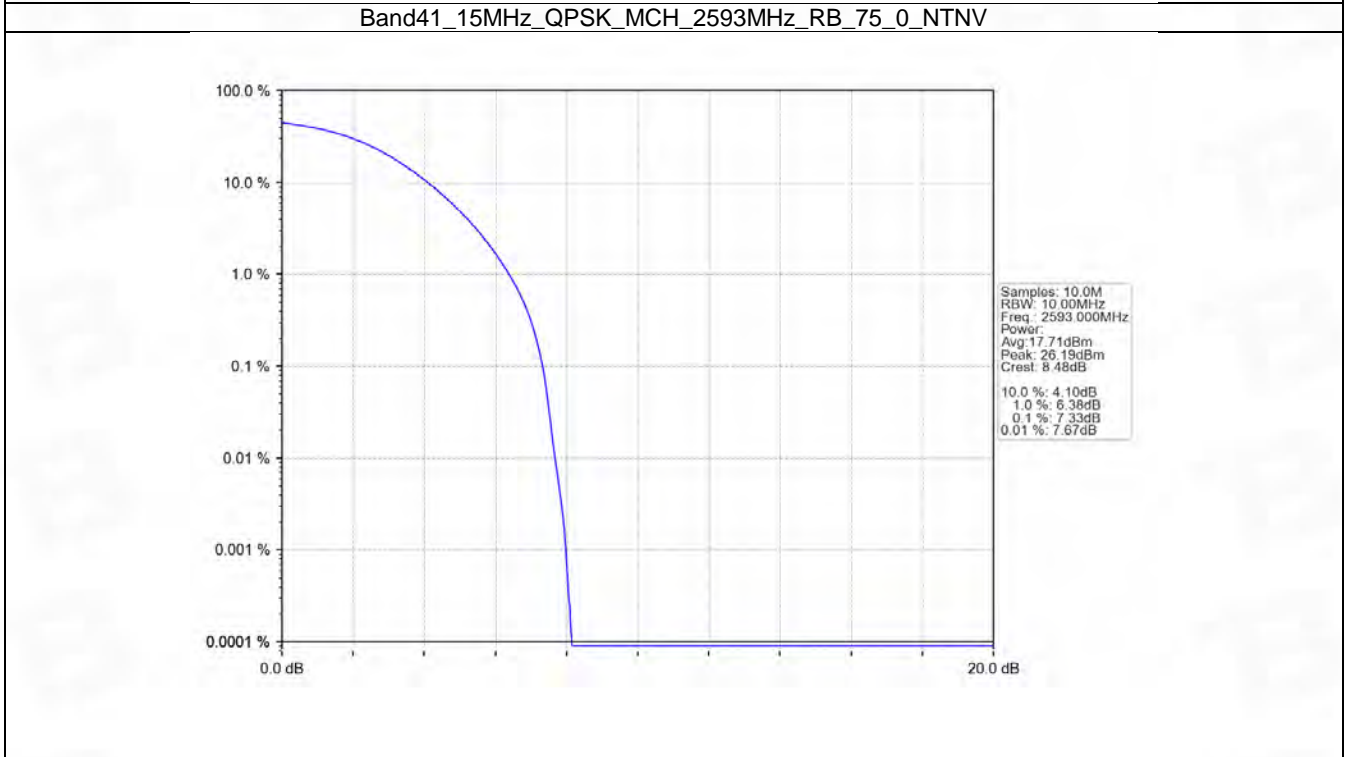
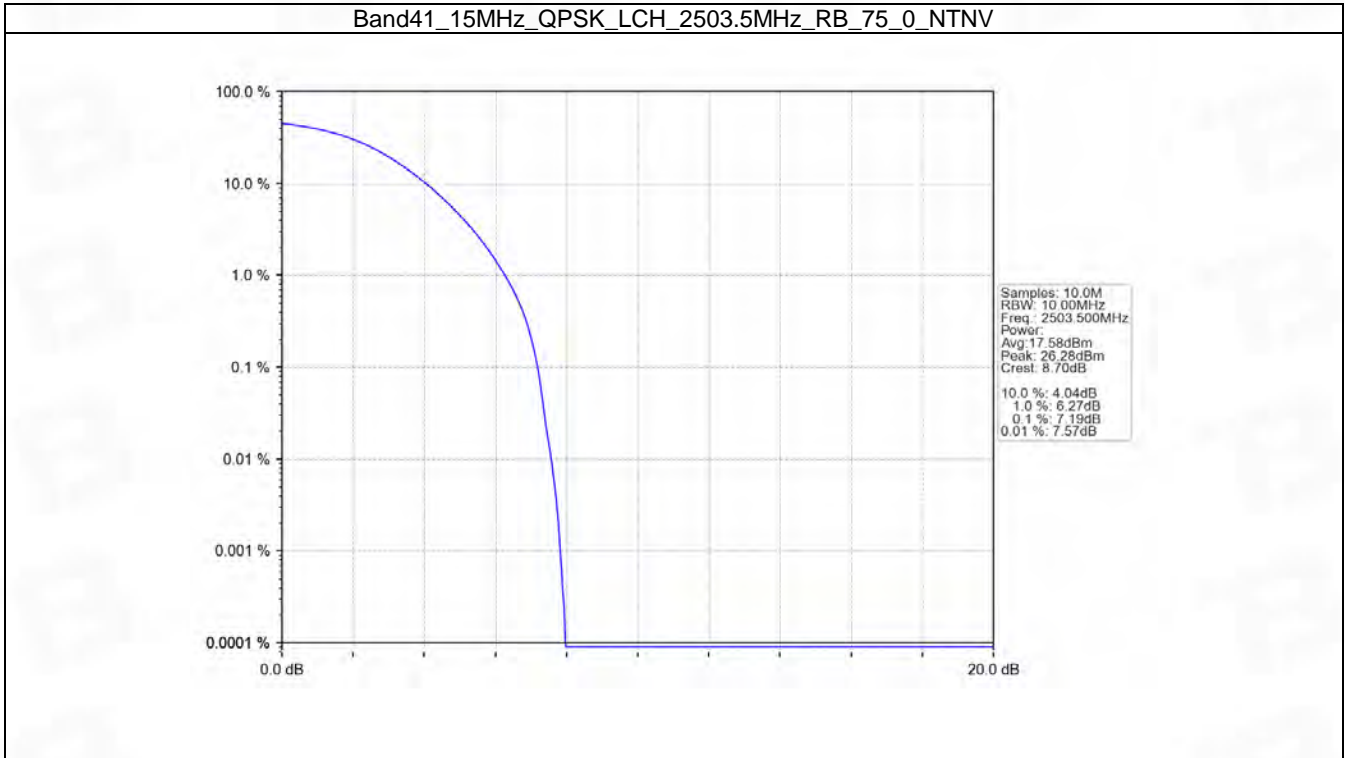


5.3 B41_15MHz

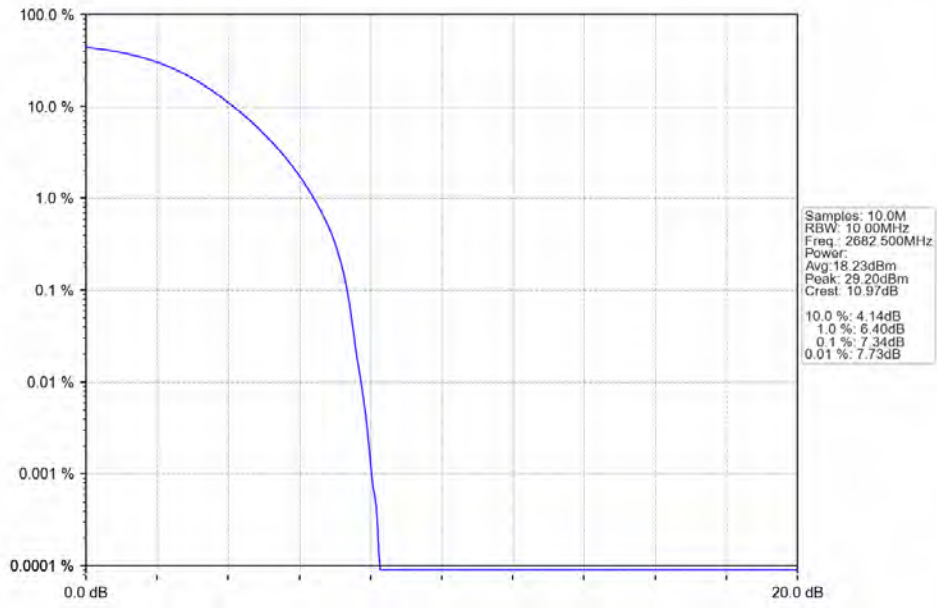
5.3.1 Test Result

| Band: 41 / Bandwidth: 15MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2503.5 | 75 | 0 | 7.19 | <=13 | Pass |
| | 2593 | 75 | 0 | 7.33 | <=13 | Pass |
| | 2682.5 | 75 | 0 | 7.34 | <=13 | Pass |
| 16QAM | 2503.5 | 75 | 0 | 7.96 | <=13 | Pass |
| | 2593 | 75 | 0 | 8.06 | <=13 | Pass |
| | 2682.5 | 75 | 0 | 8.02 | <=13 | Pass |

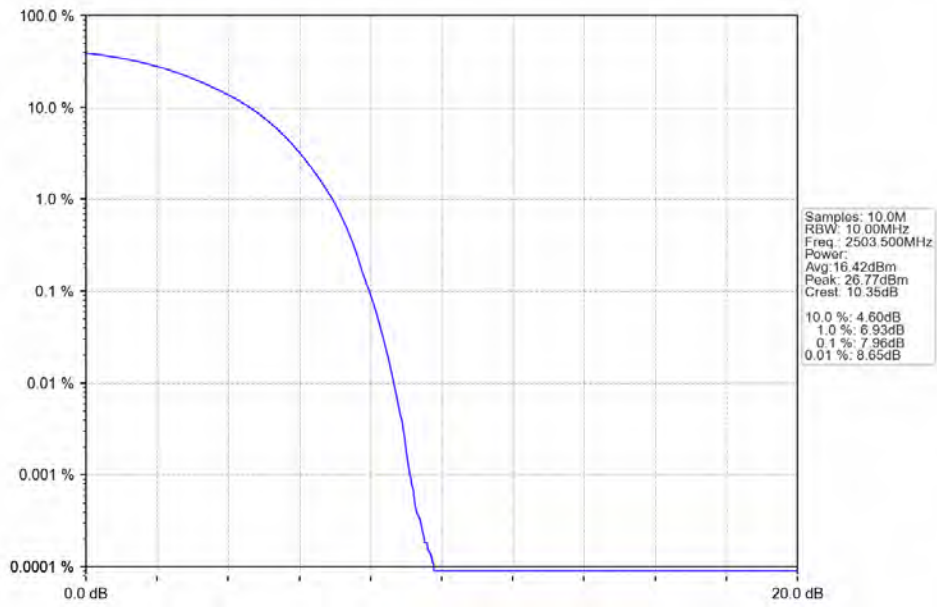
5.3.2 Test Graph



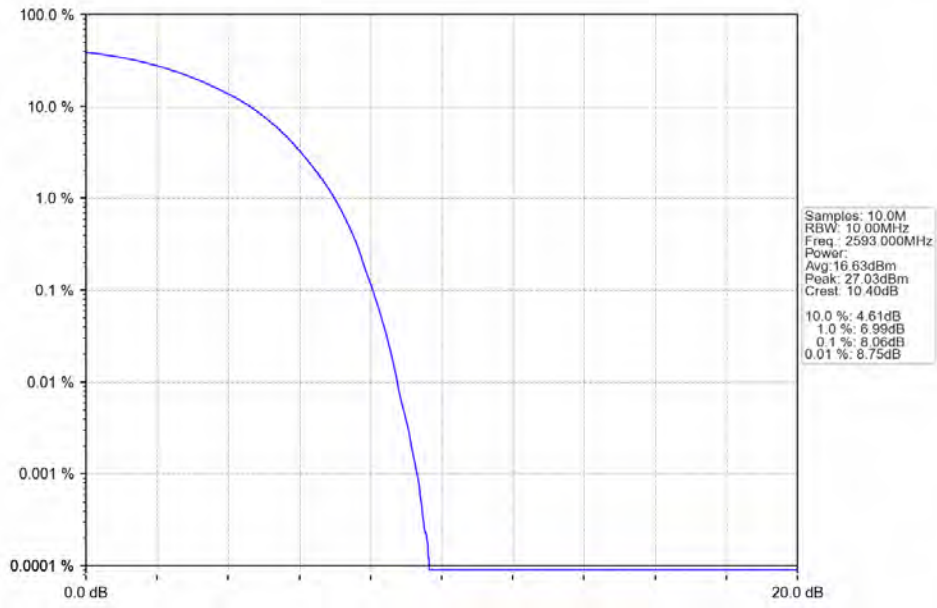
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



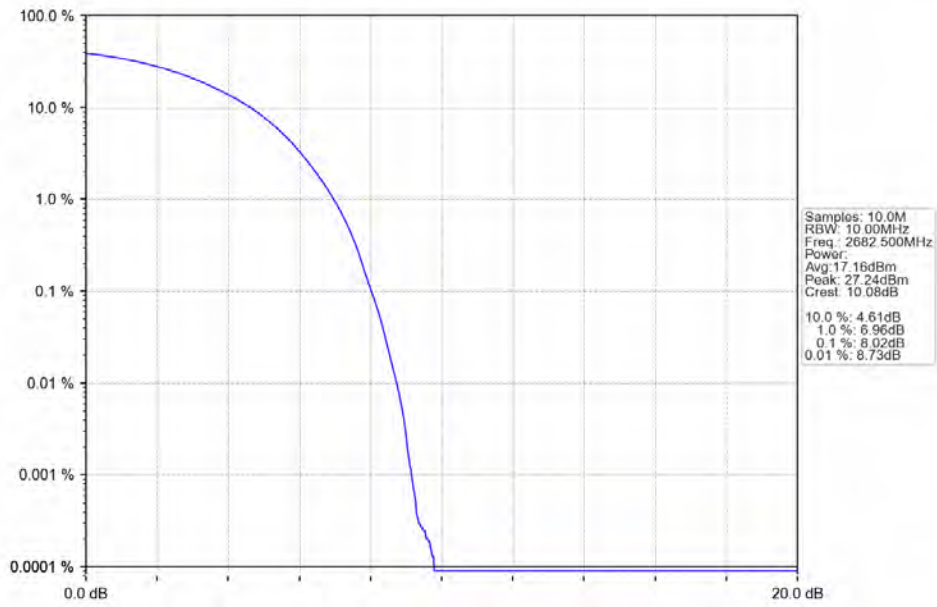
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV

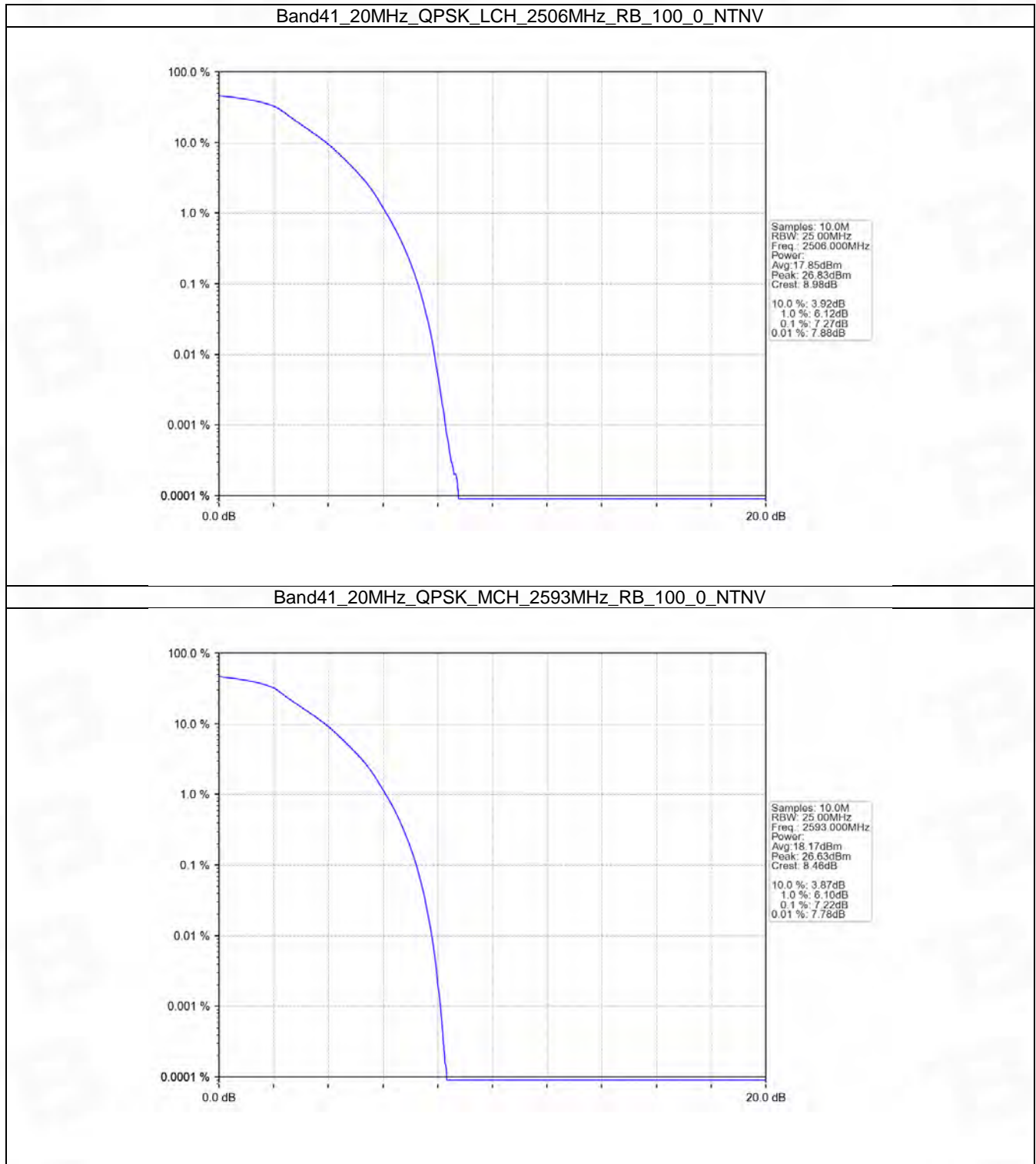


5.4 B41_20MHz

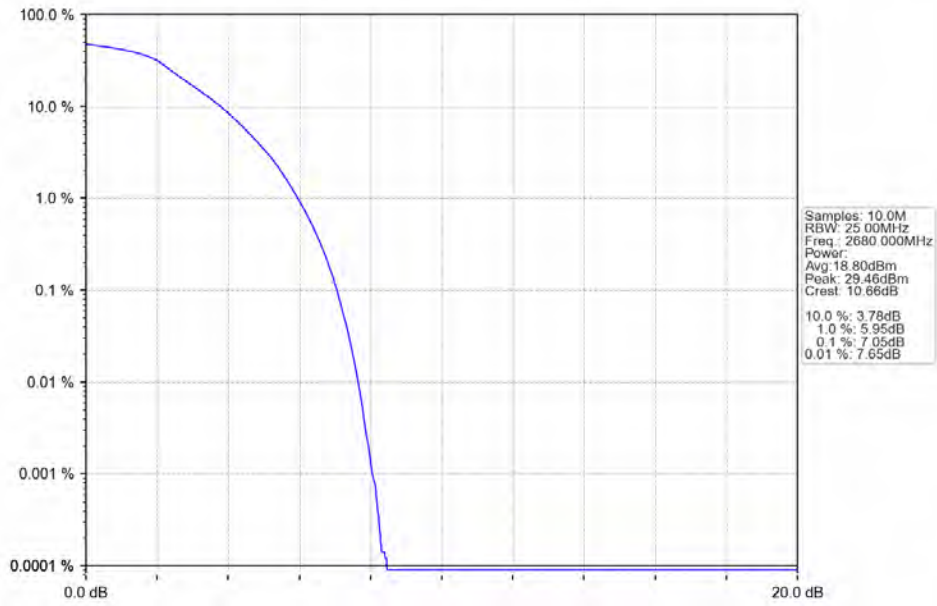
5.4.1 Test Result

| Band: 41 / Bandwidth: 20MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2506 | 100 | 0 | 7.27 | <=13 | Pass |
| | 2593 | 100 | 0 | 7.22 | <=13 | Pass |
| | 2680 | 100 | 0 | 7.05 | <=13 | Pass |
| 16QAM | 2506 | 100 | 0 | 7.78 | <=13 | Pass |
| | 2593 | 100 | 0 | 7.88 | <=13 | Pass |
| | 2680 | 100 | 0 | 8.05 | <=13 | Pass |

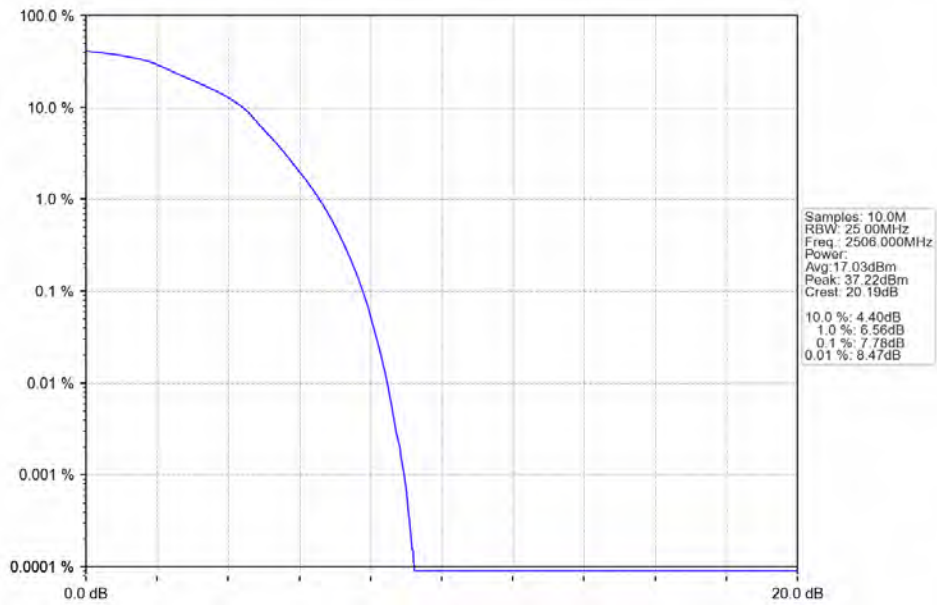
5.4.2 Test Graph



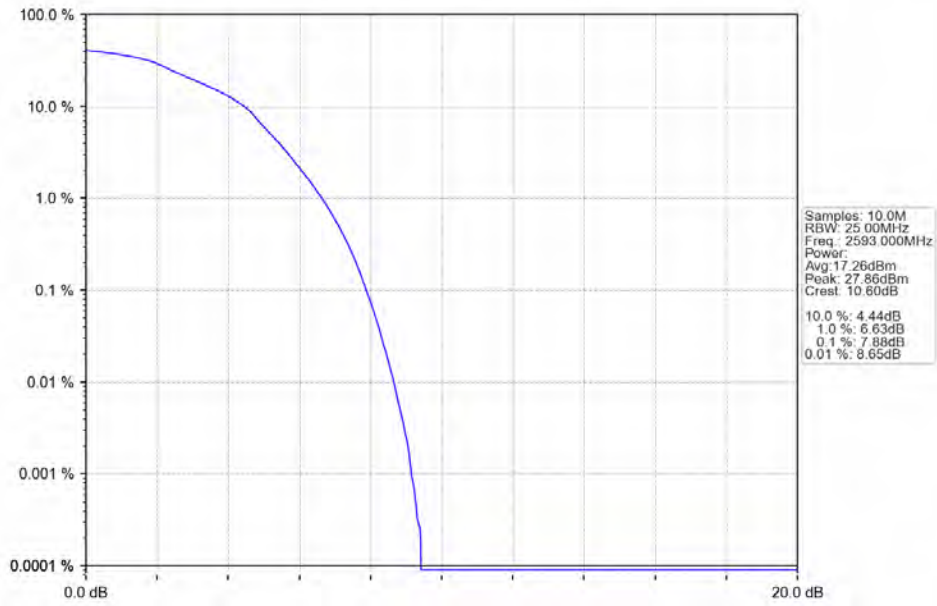
Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



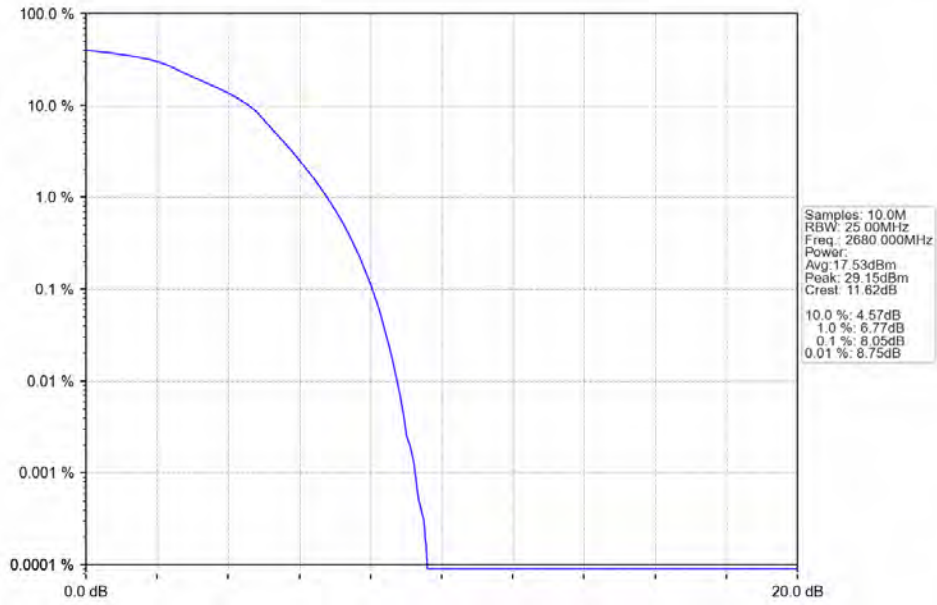
Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



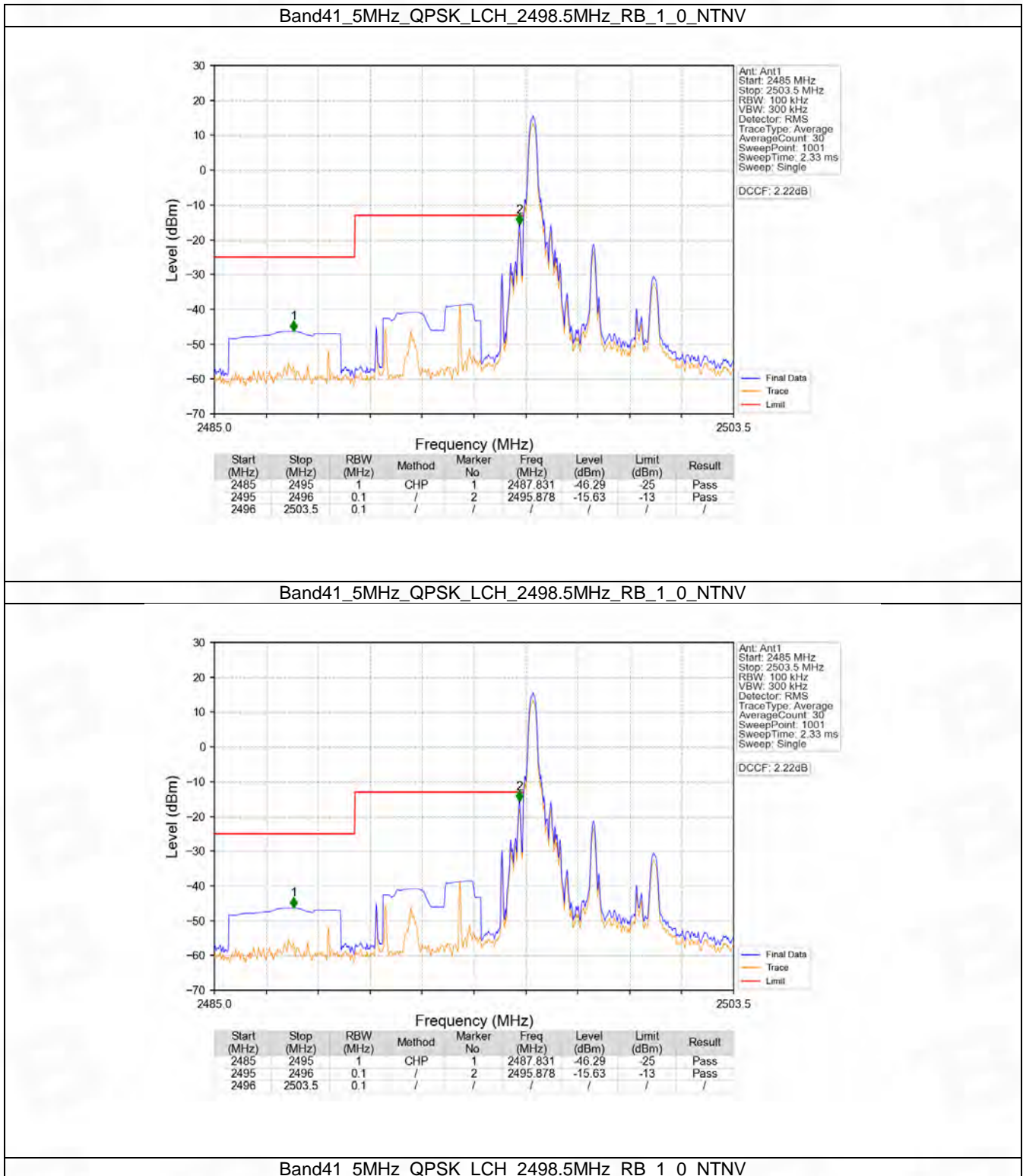
6. Spurious Emission

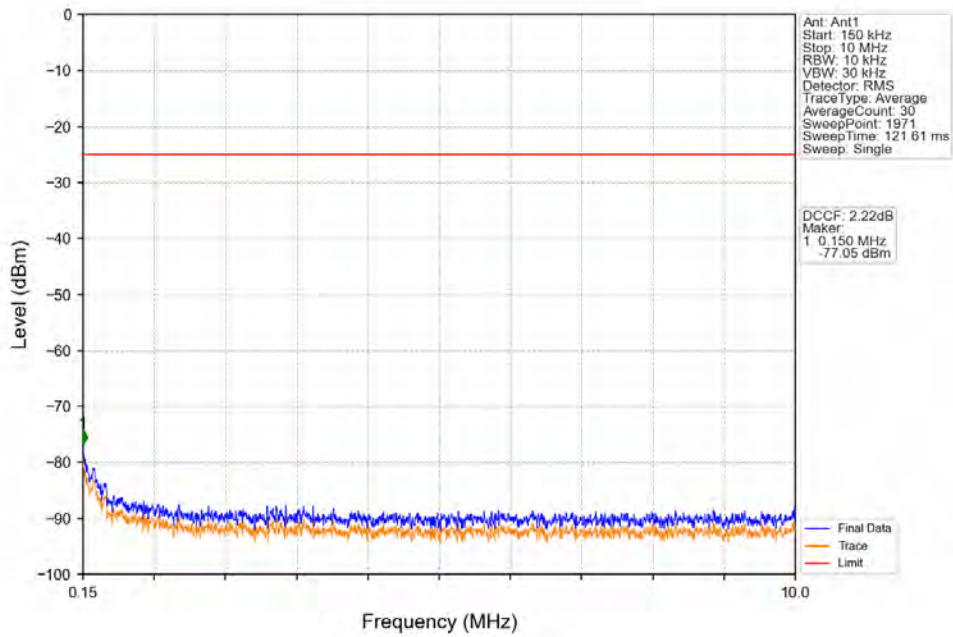
6.1 B41_5MHz

6.1.1 Test Result

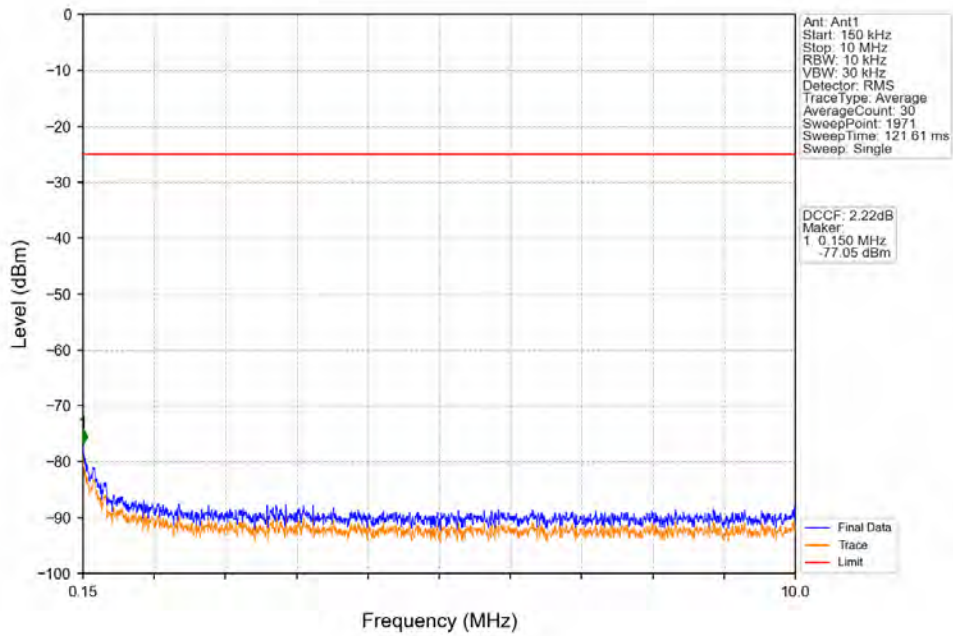
| Band: 41 / Bandwidth: 5MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2498.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 2687.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2498.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 2687.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

6.1.2 Test Graph

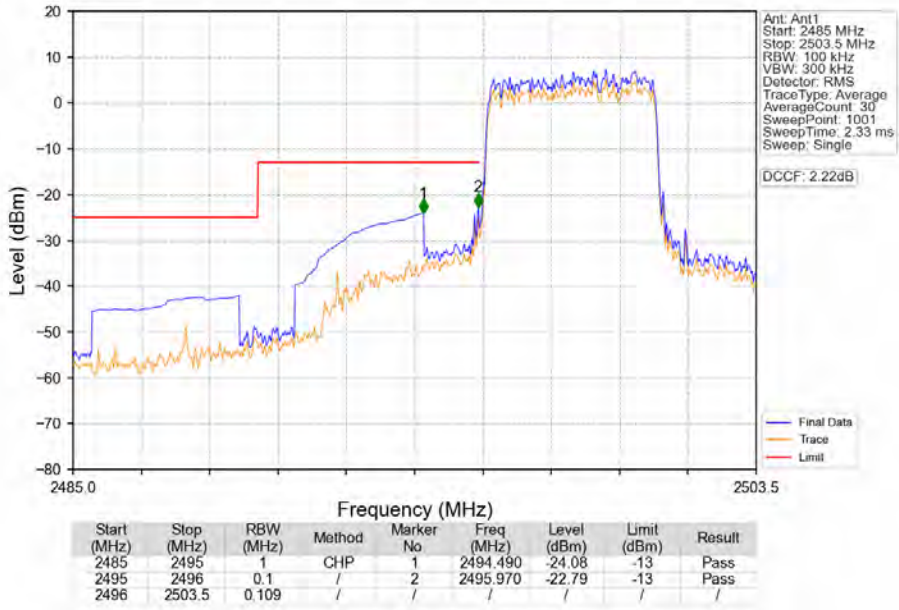




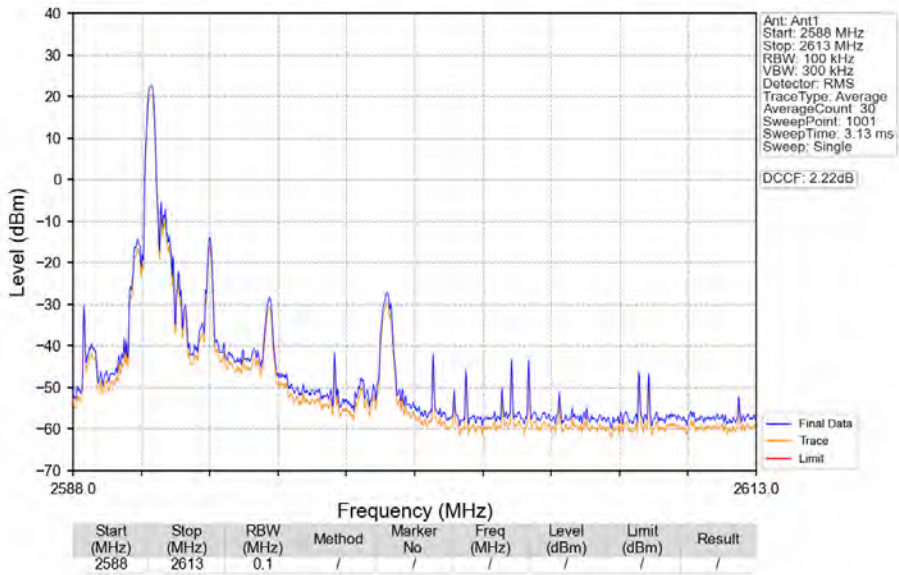
Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



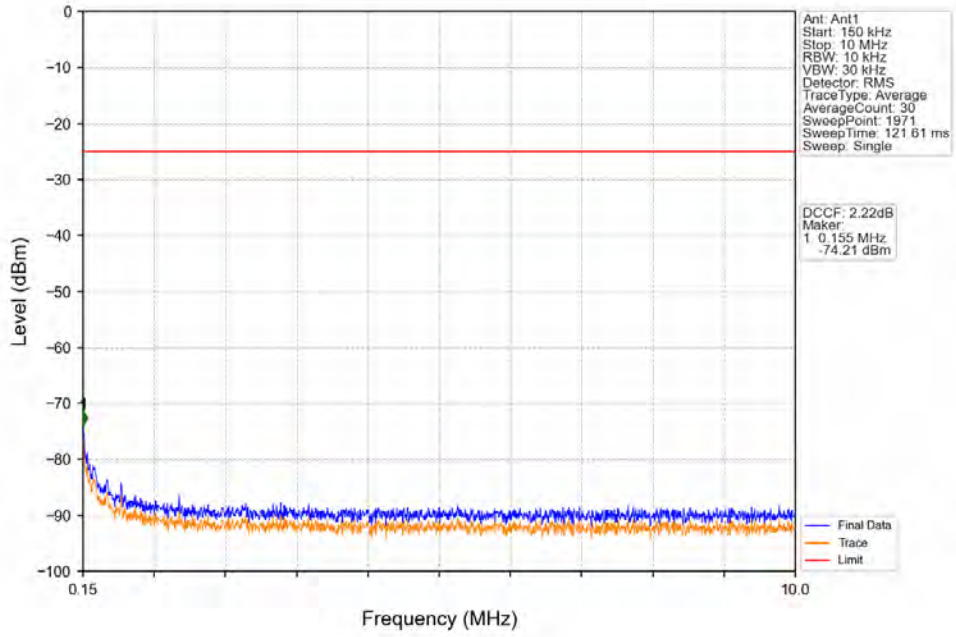
Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



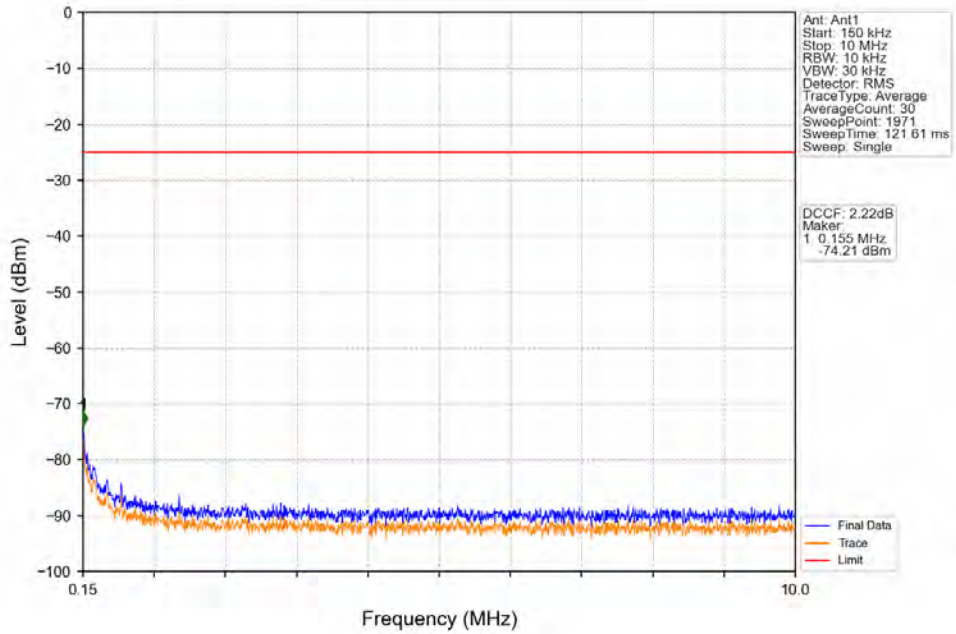
Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



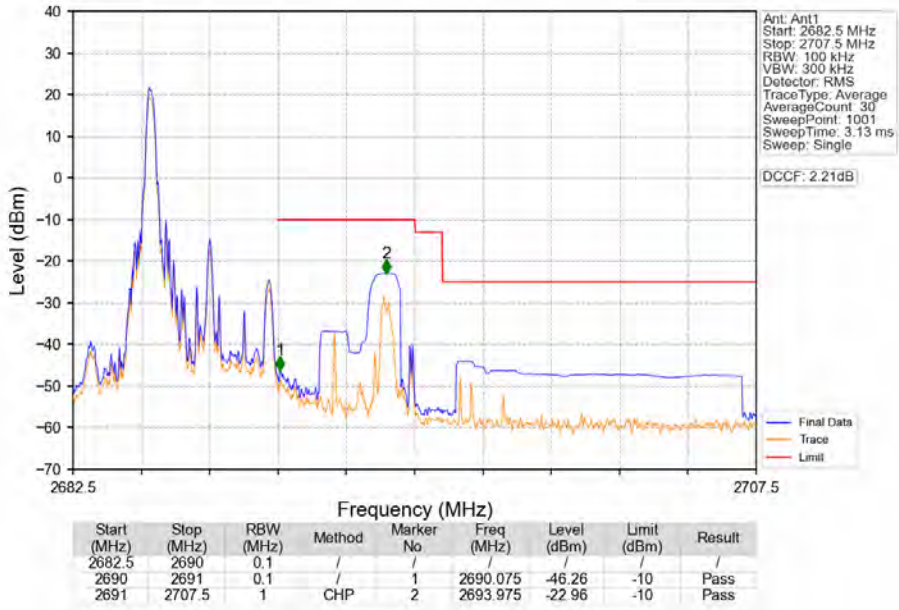
Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



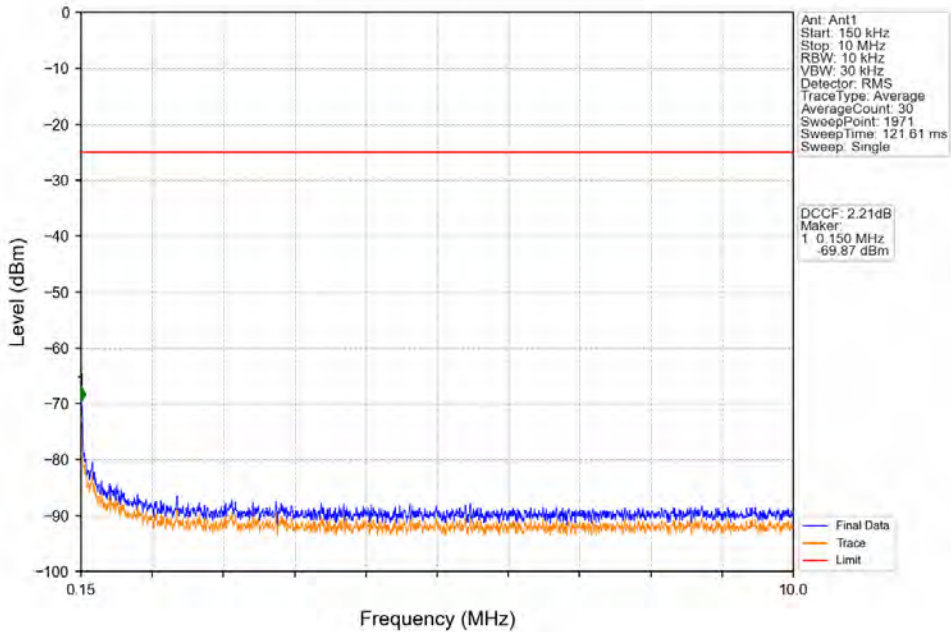
Band41_5MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



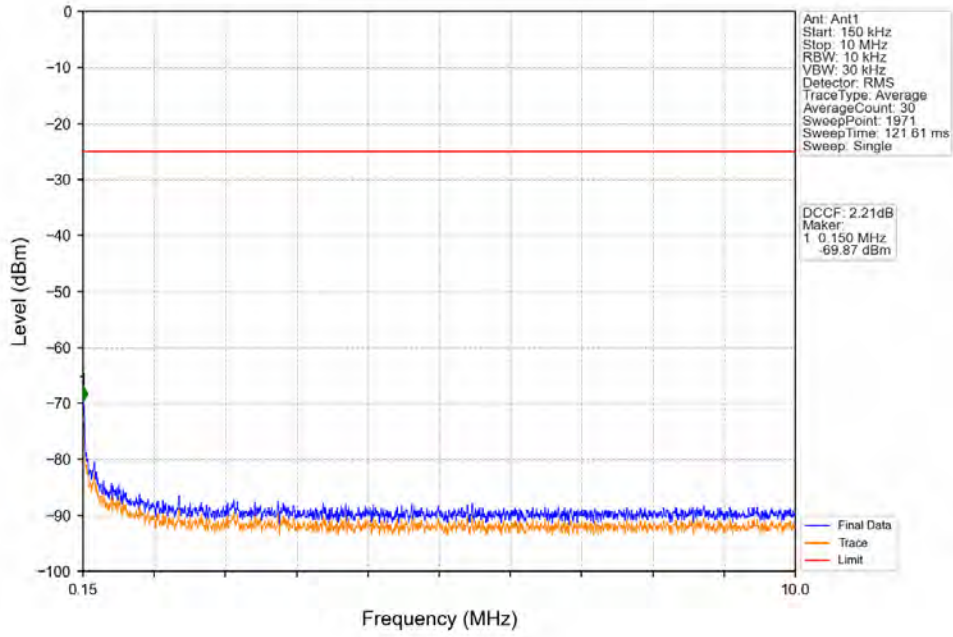
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV



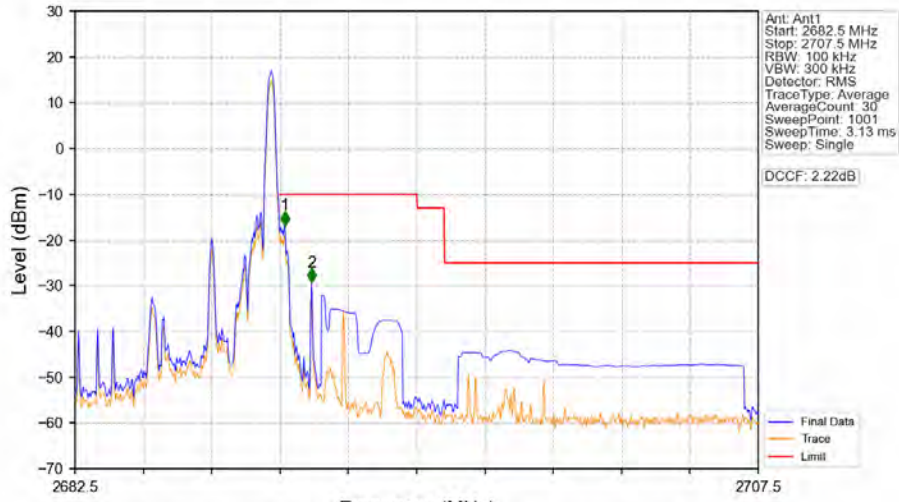
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV



Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_0_NTNV

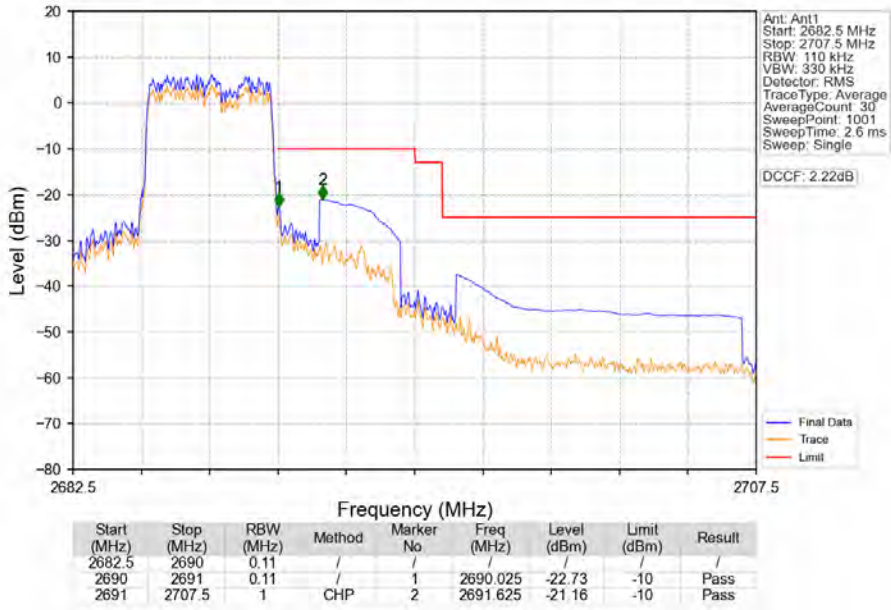


Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_24_NTNV

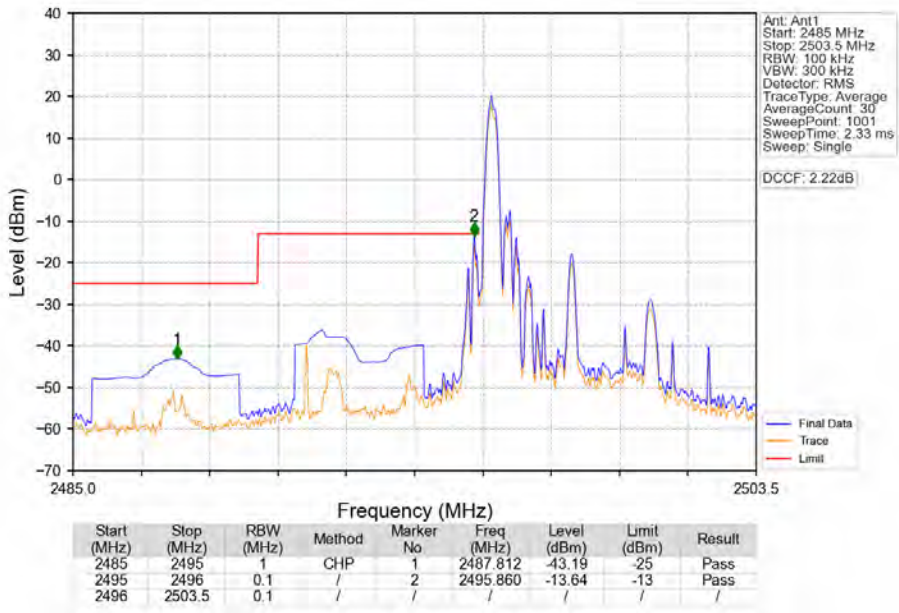


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2682.5 | 2690 | 0.1 | / | 1 | 2690.175 | -16.84 | -10 | Pass |
| 2691 | 2707.5 | 1 | CHP | 2 | 2691.150 | -29.21 | -10 | Pass |

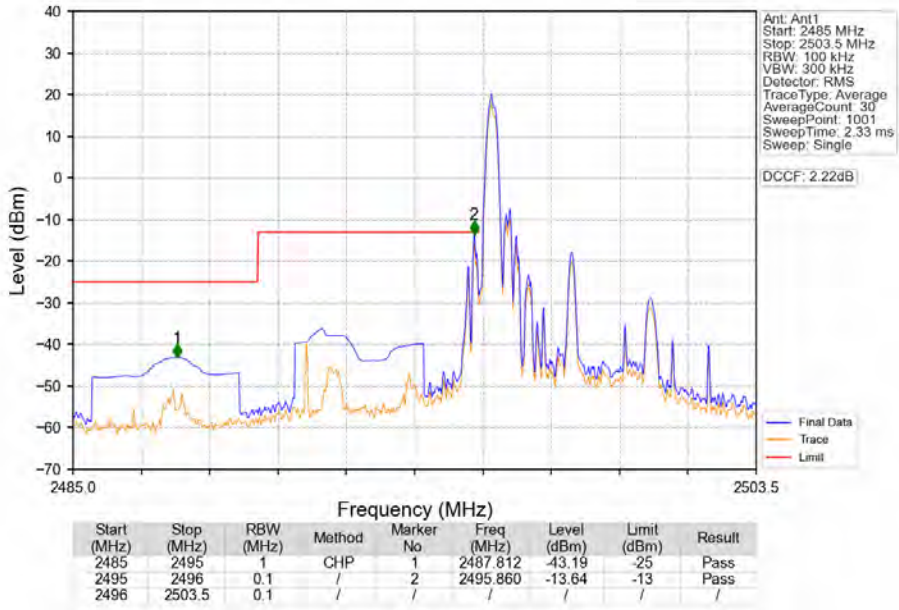
Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



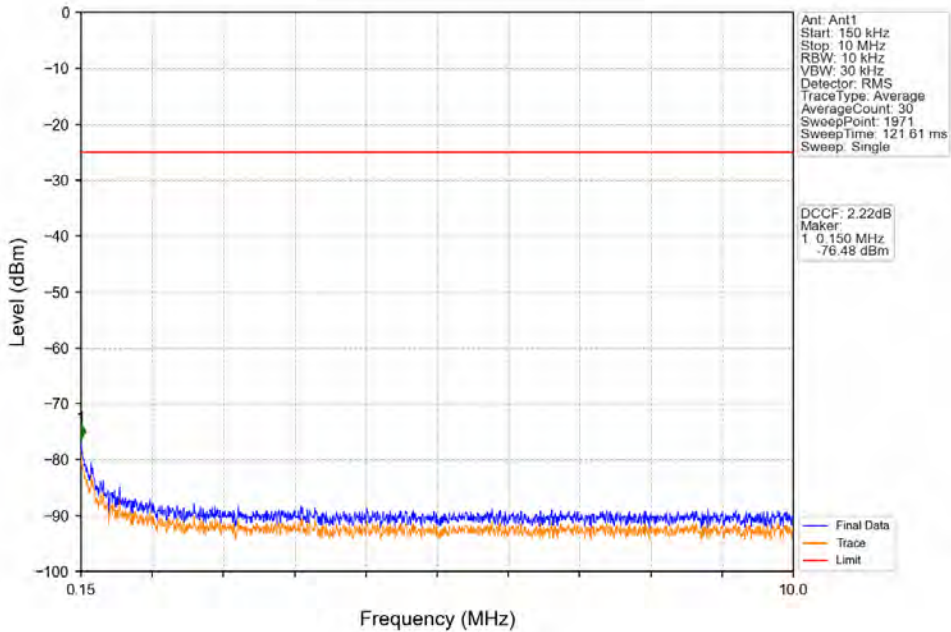
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_1_0_NTNV



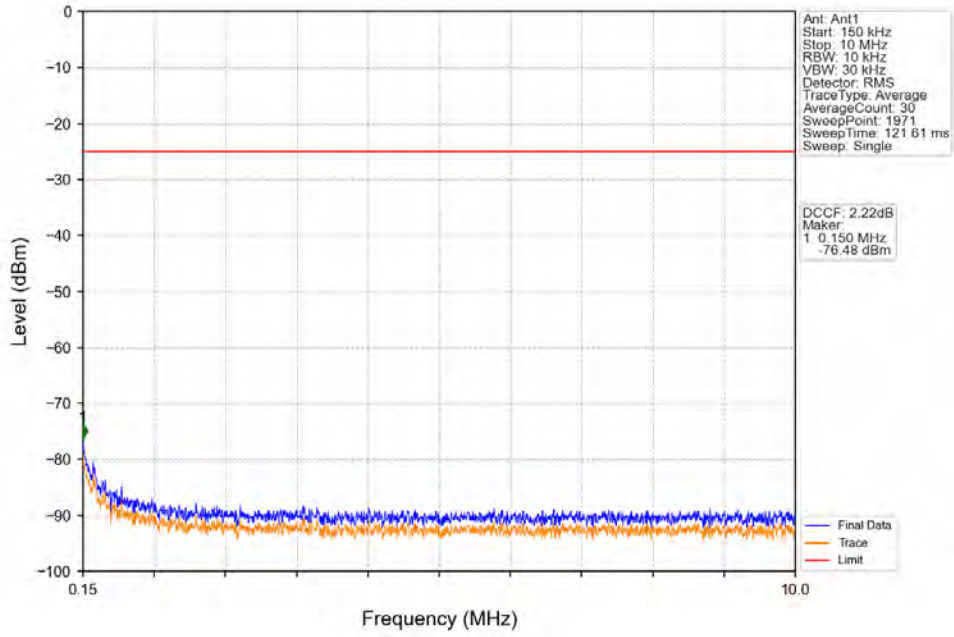
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_1_0_NTNV



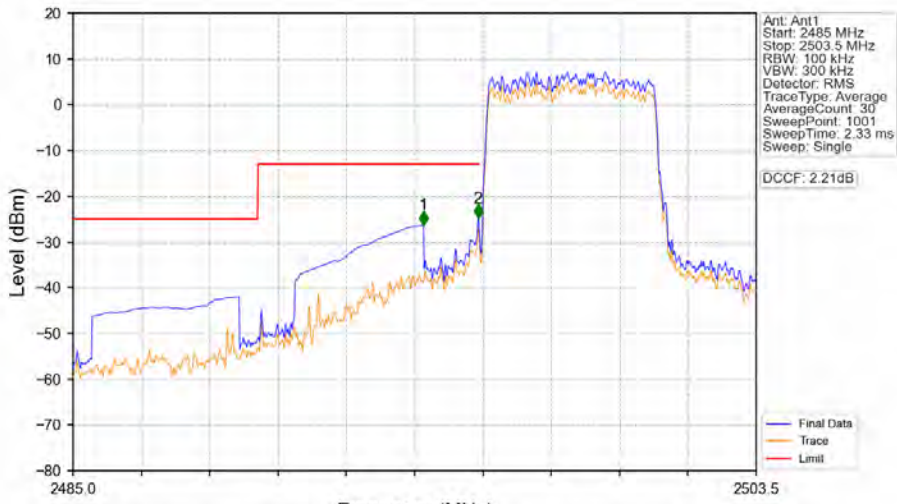
Band41_5MHz_16QAM_LCH_2498.5MHz_RB_1_0_NTNV



Band41_5MHz_16QAM_LCH_2498.5MHz_RB_1_0_NTNV

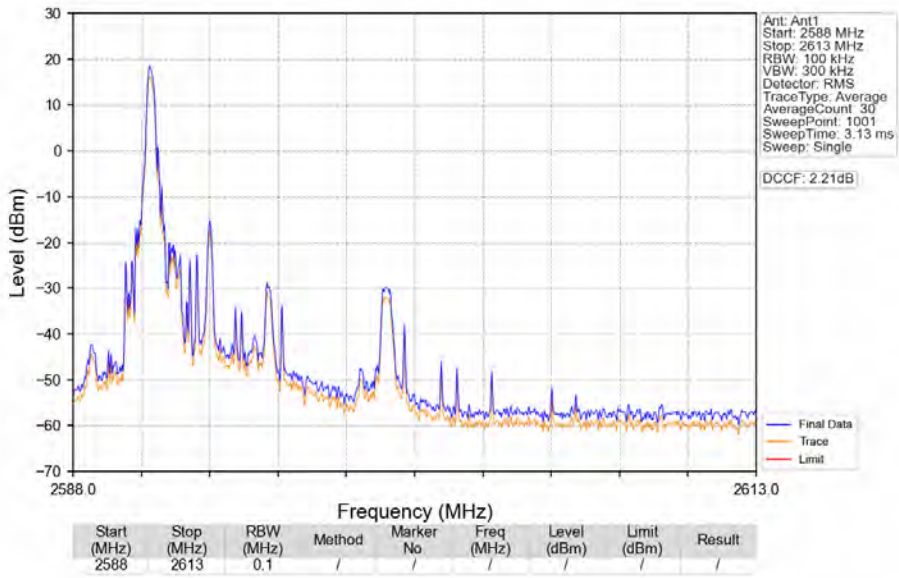


Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV

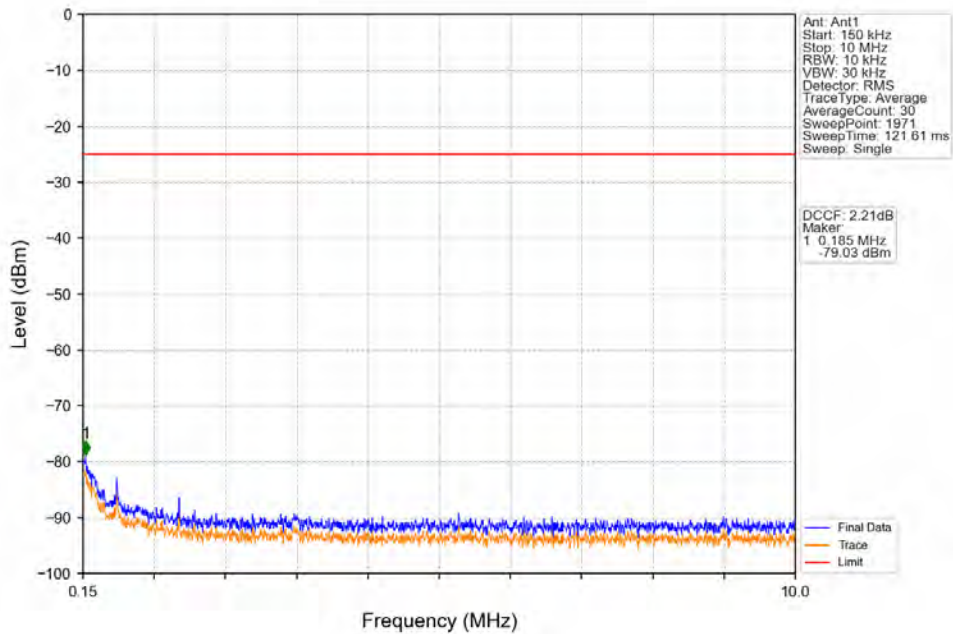


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2485 | 2495 | 1 | CHP | 1 | 2494.490 | -26.30 | -13 | Pass |
| 2495 | 2496 | 0.1 | / | 2 | 2495.970 | -24.80 | -13 | Pass |
| 2496 | 2503.5 | 0.105 | / | / | / | / | / | / |

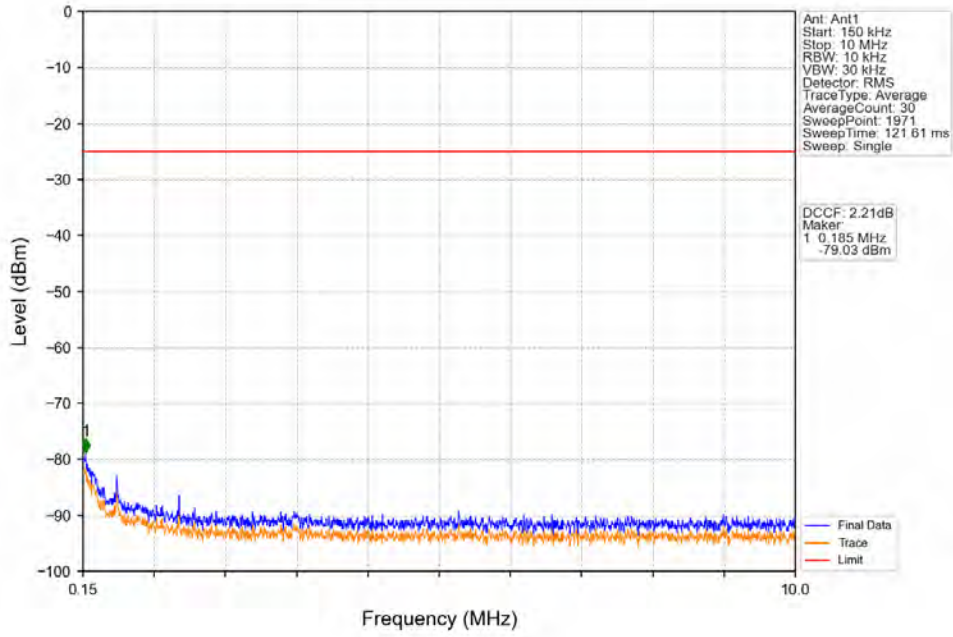
Band41_5MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



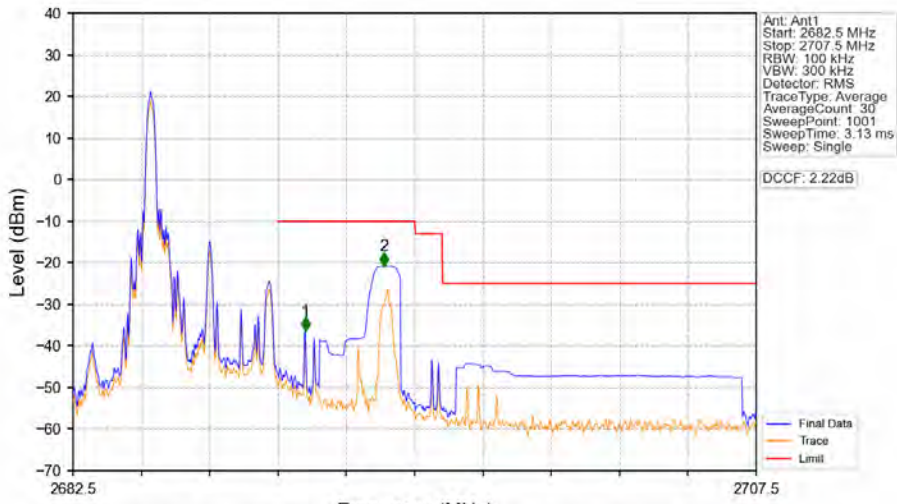
Band41_5MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



Band41_5MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV

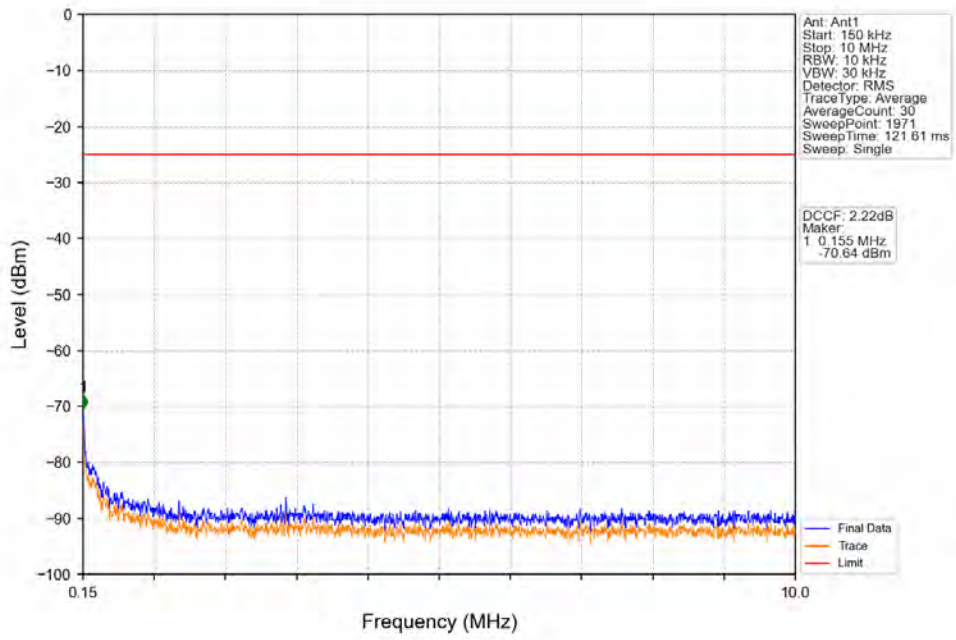


Band41_5MHz_16QAM_HCH_2687.5MHz_RB_1_0_NTNV

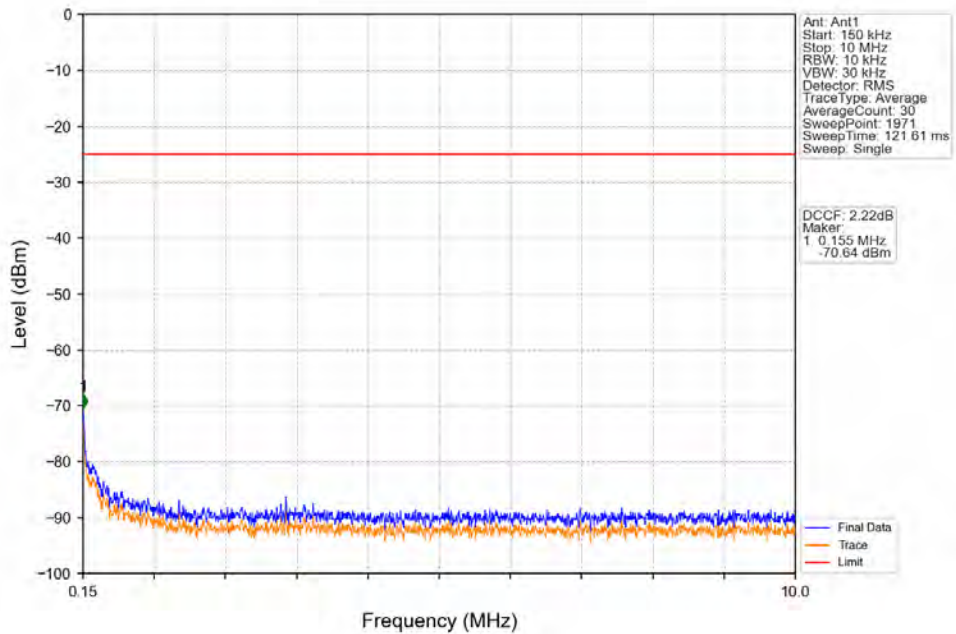


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2682.5 | 2690 | 0.1 | / | 1 | 2691.000 | -36.52 | -10 | Pass |
| 2690 | 2691 | 0.1 | / | 1 | 2691.000 | -36.52 | -10 | Pass |
| 2691 | 2707.5 | 1 | CHP | 2 | 2693.875 | -20.83 | -10 | Pass |

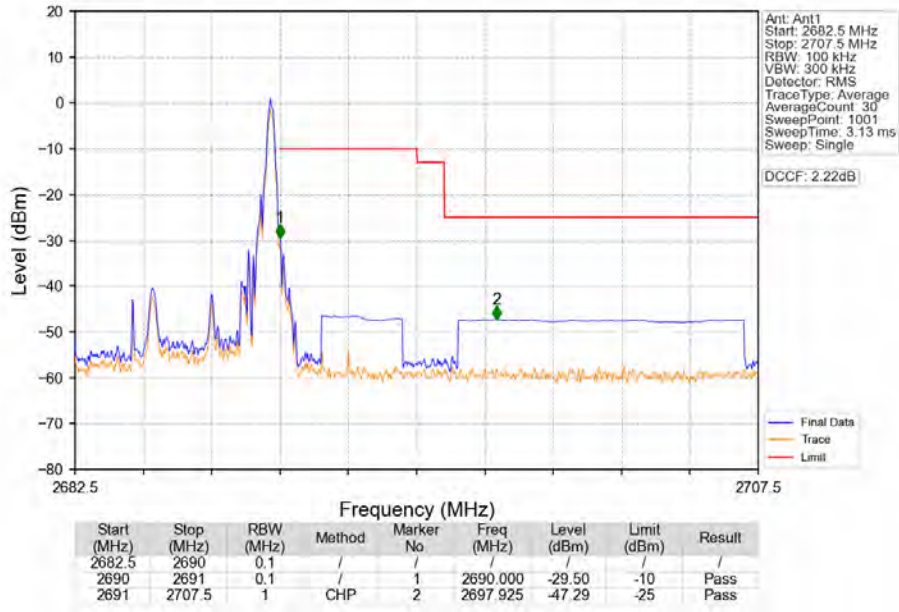
Band41_5MHz_16QAM_HCH_2687.5MHz_RB_1_0_NTNV



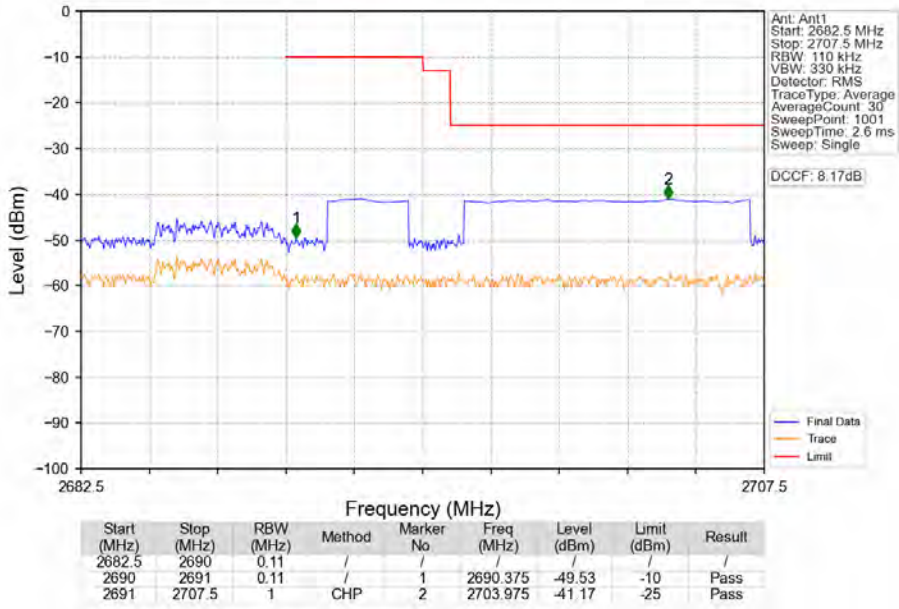
Band41_5MHz_16QAM_HCH_2687.5MHz_RB_1_0_NTNV



Band41_5MHz_16QAM_HCH_2687.5MHz_RB_1_24_NTNV



Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV

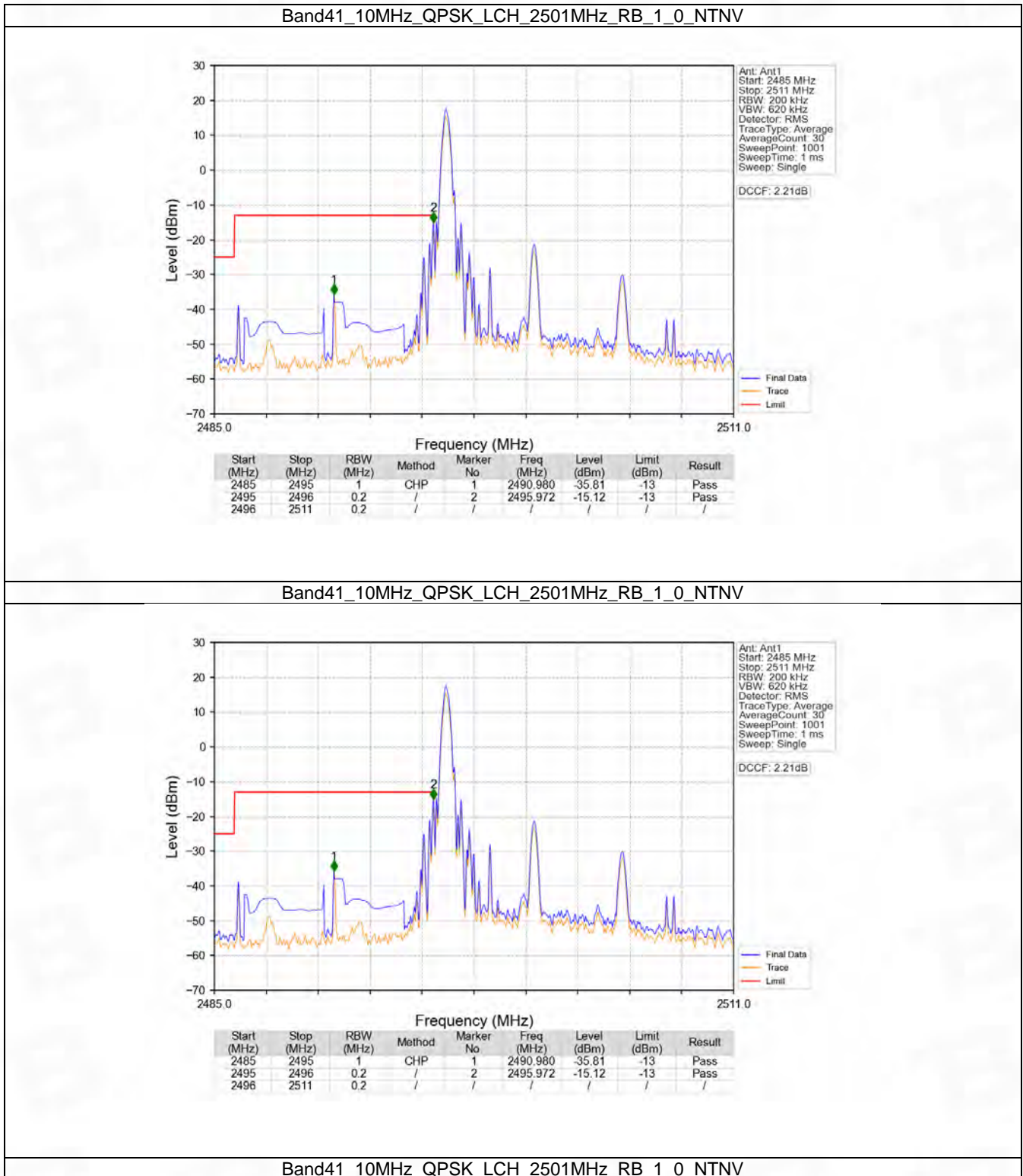


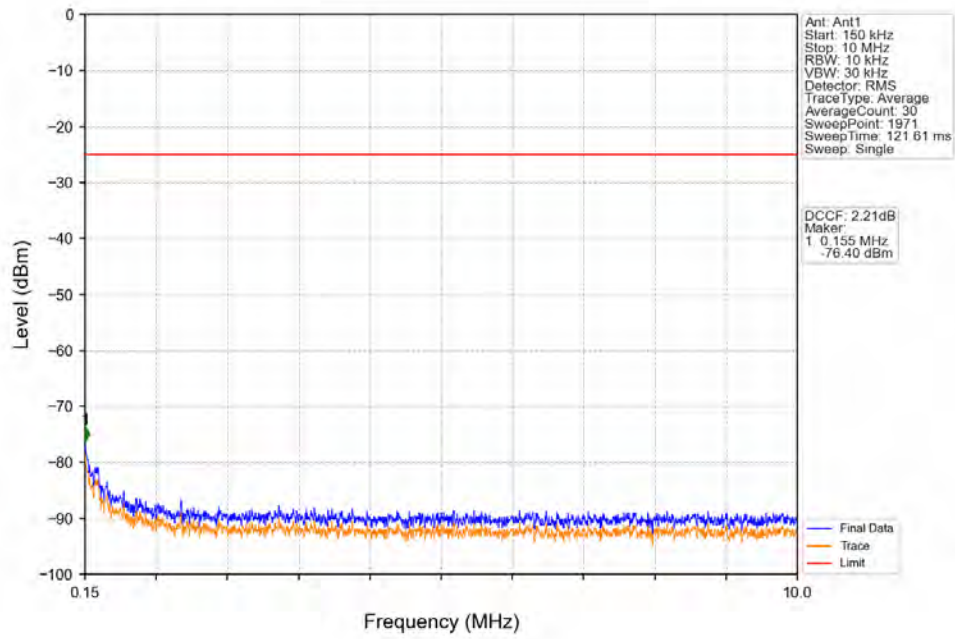
6.2 B41_10MHz

6.2.1 Test Result

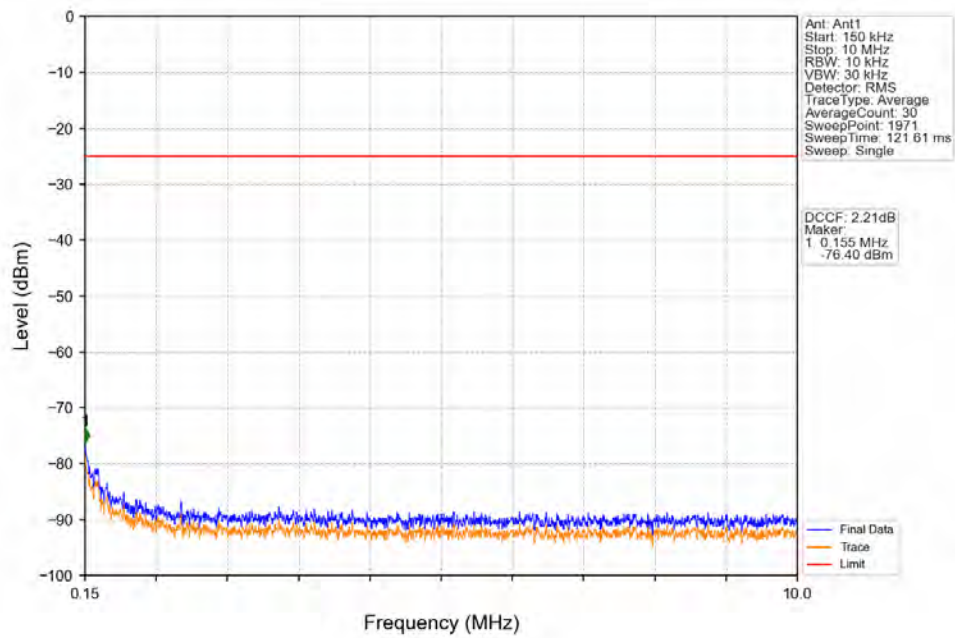
| Band: 41 / Bandwidth: 10MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2501 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 2593 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2685 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2501 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 2593 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2685 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

6.2.2 Test Graph

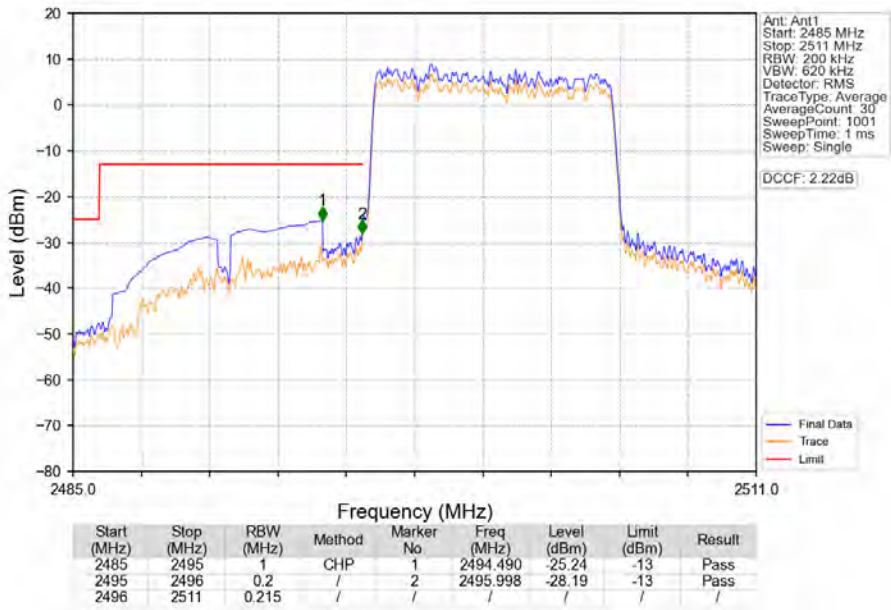




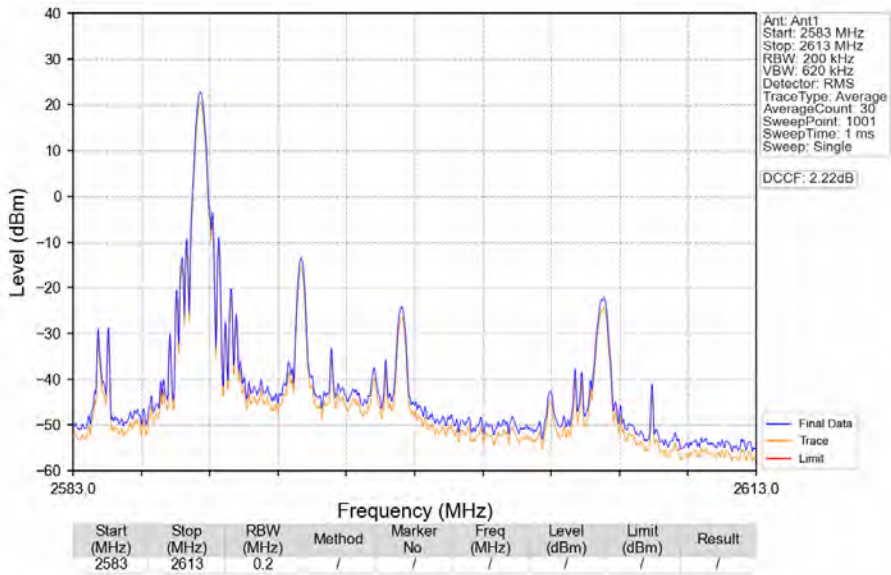
Band41_10MHz_QPSK_LCH_2501MHz_RB_1_0_NTNV



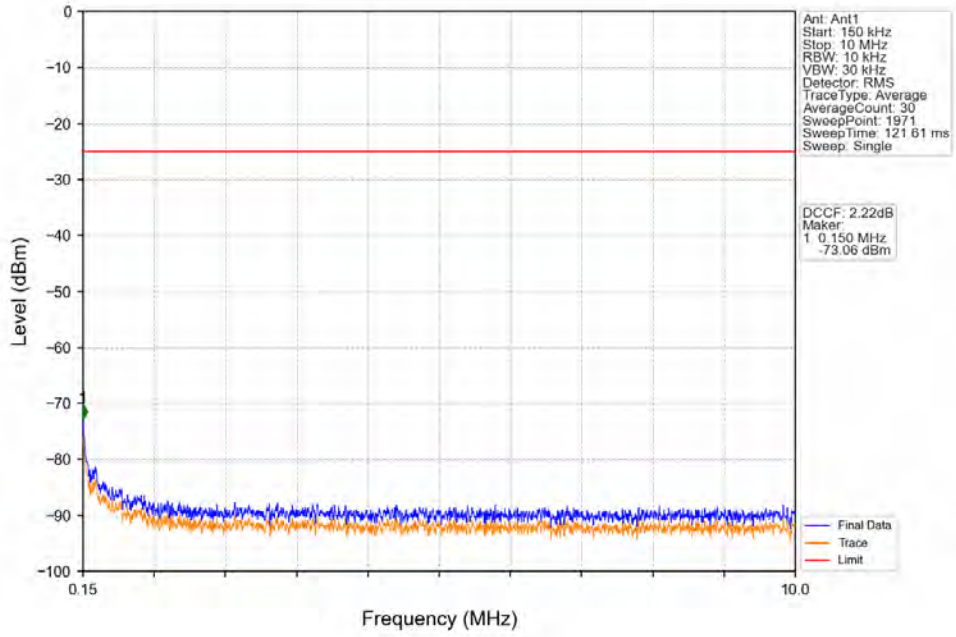
Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



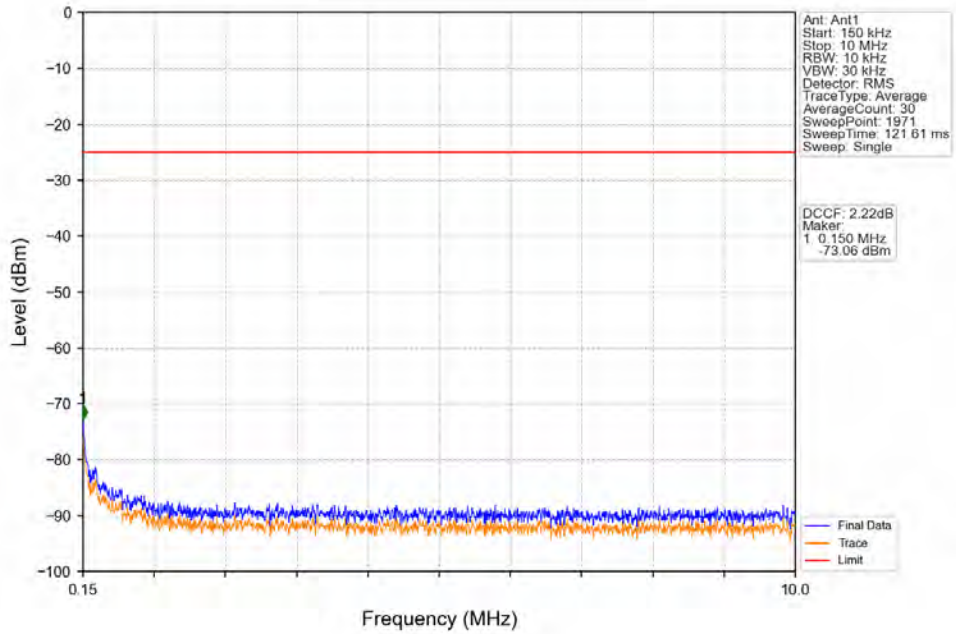
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



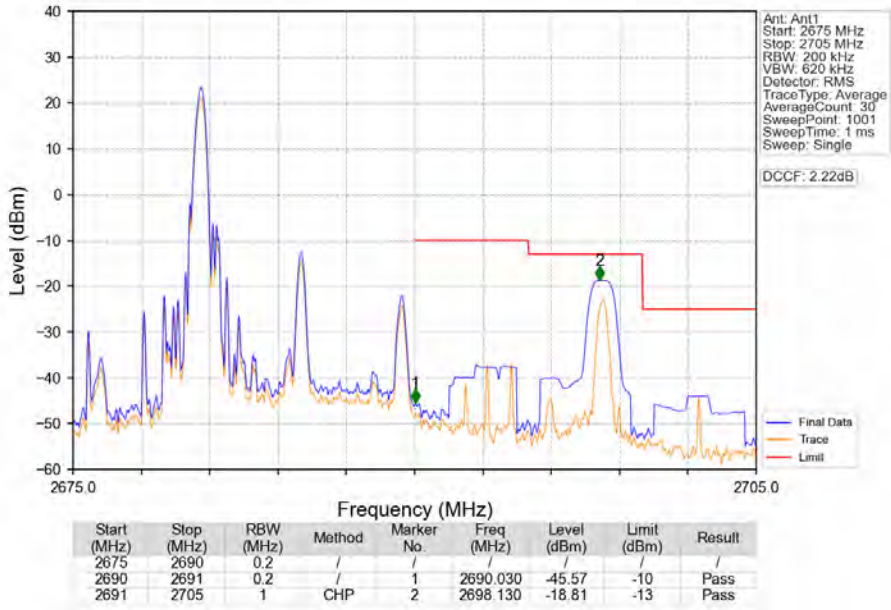
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



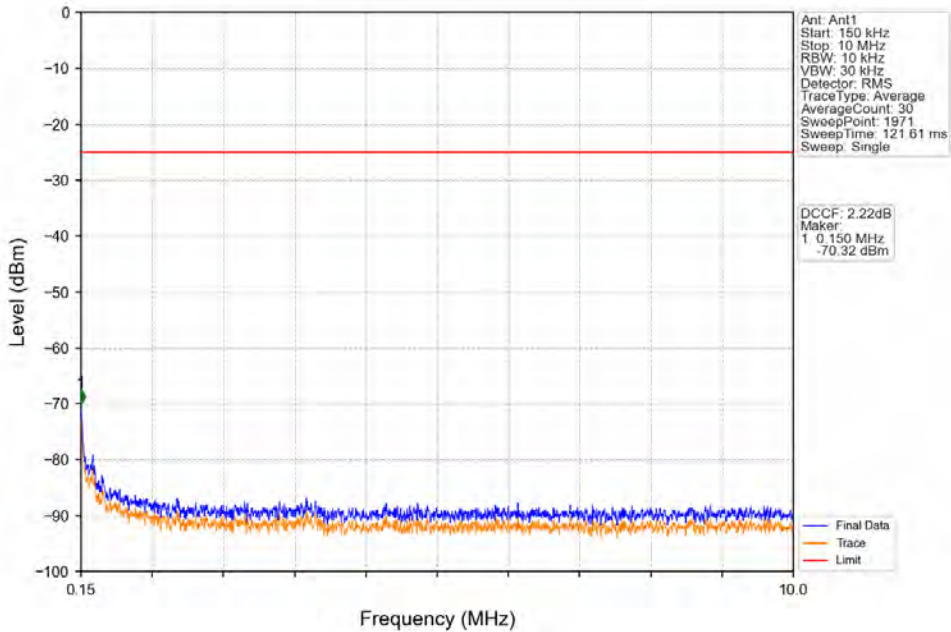
Band41_10MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



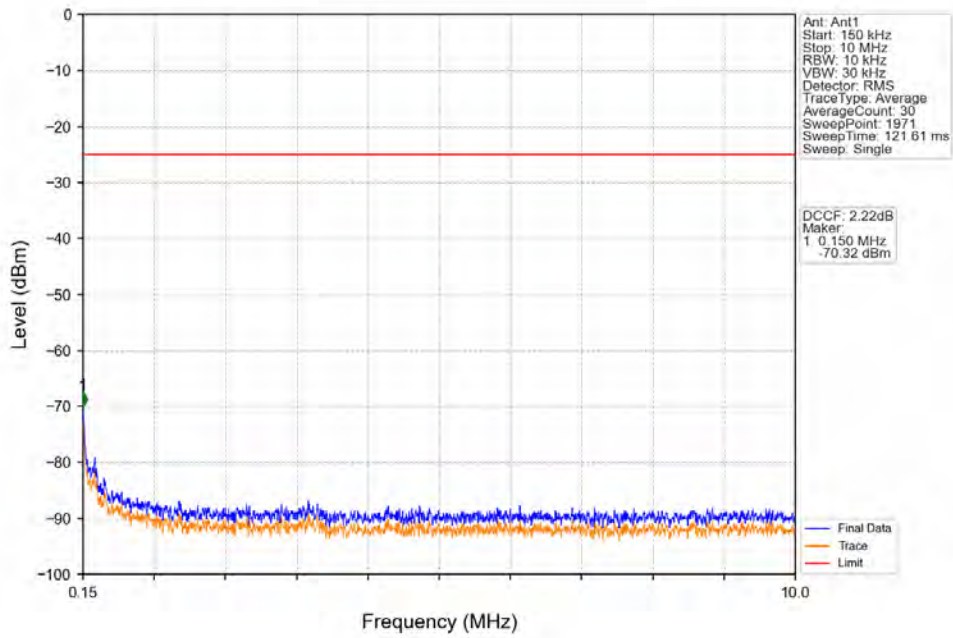
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



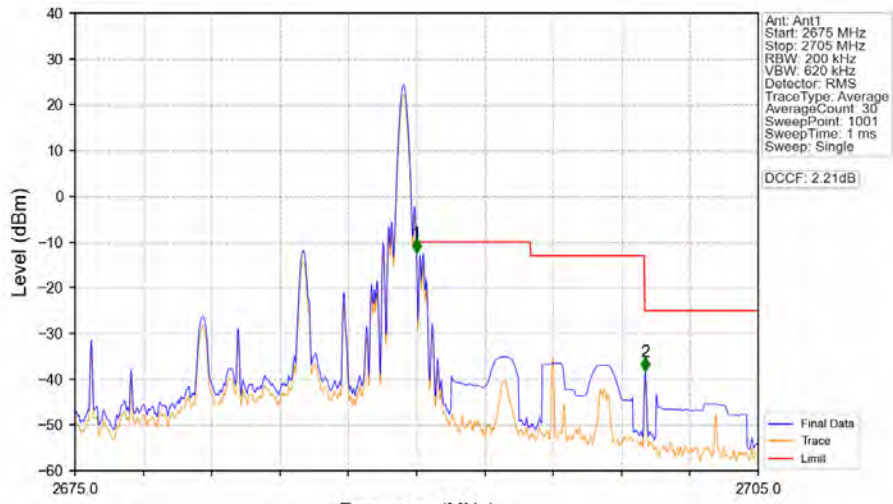
Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV



Band41_10MHz_QPSK_HCH_2685MHz_RB_1_0_NTNV

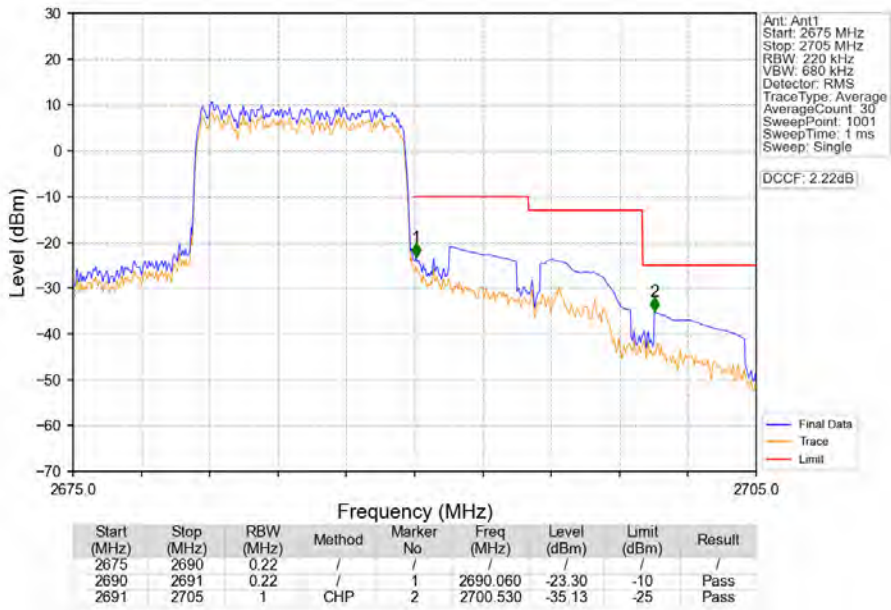


Band41_10MHz_QPSK_HCH_2685MHz_RB_1_49_NTNV

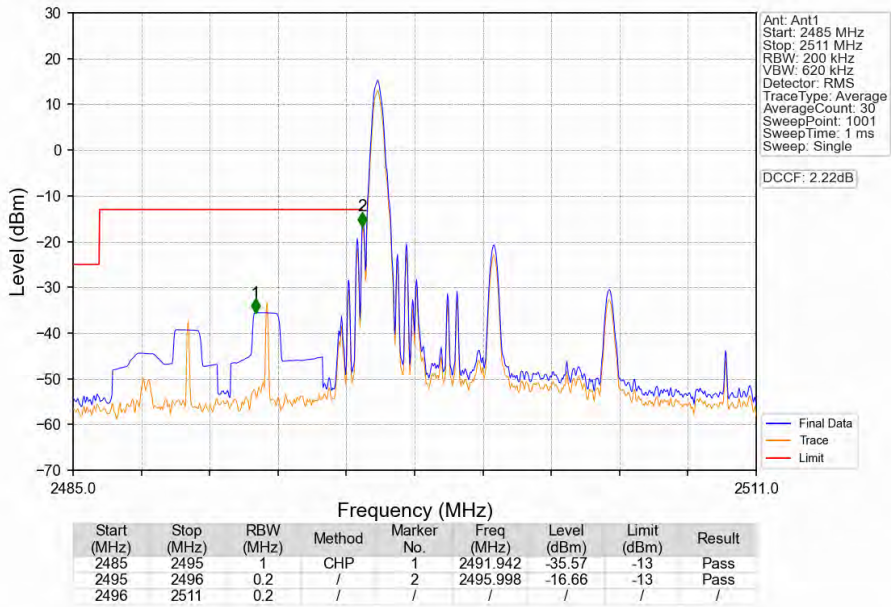


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2675 | 2690 | 0.2 | / | 1 | 2690.000 | -12.35 | -10 | Pass |
| 2691 | 2705 | 1 | CHP | 2 | 2700.050 | -38.36 | -25 | Pass |

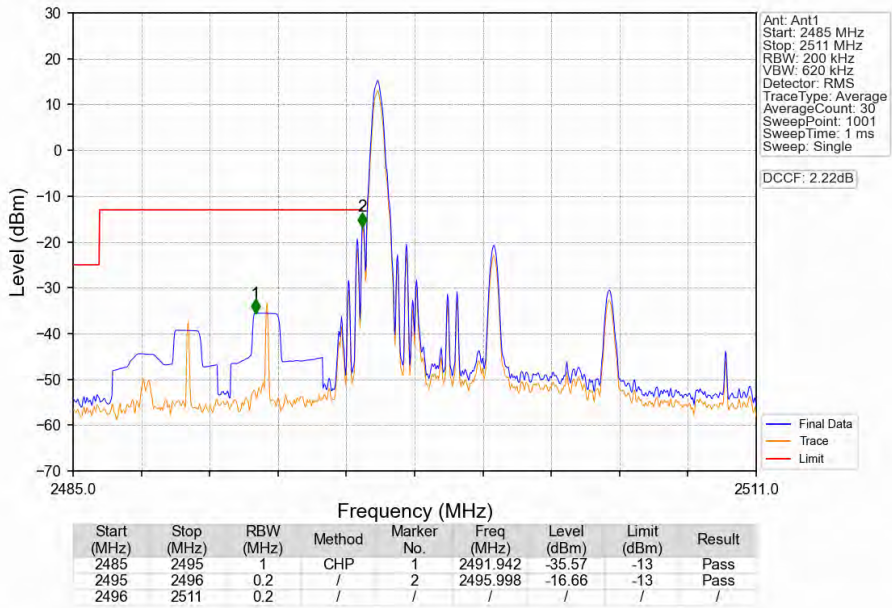
Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



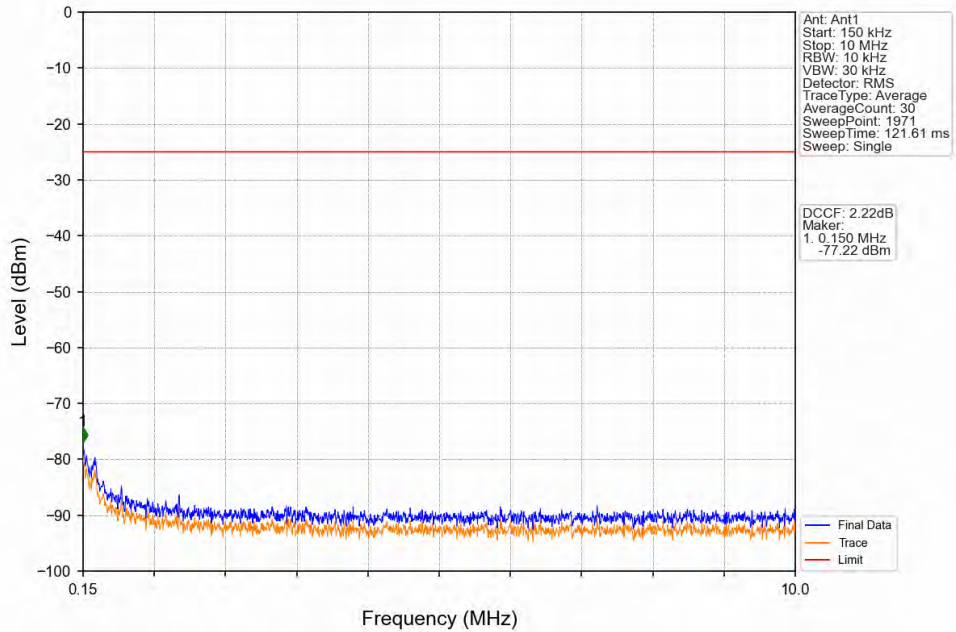
Band41_10MHz_16QAM_LCH_2501MHz_RB_1_0_NTNV



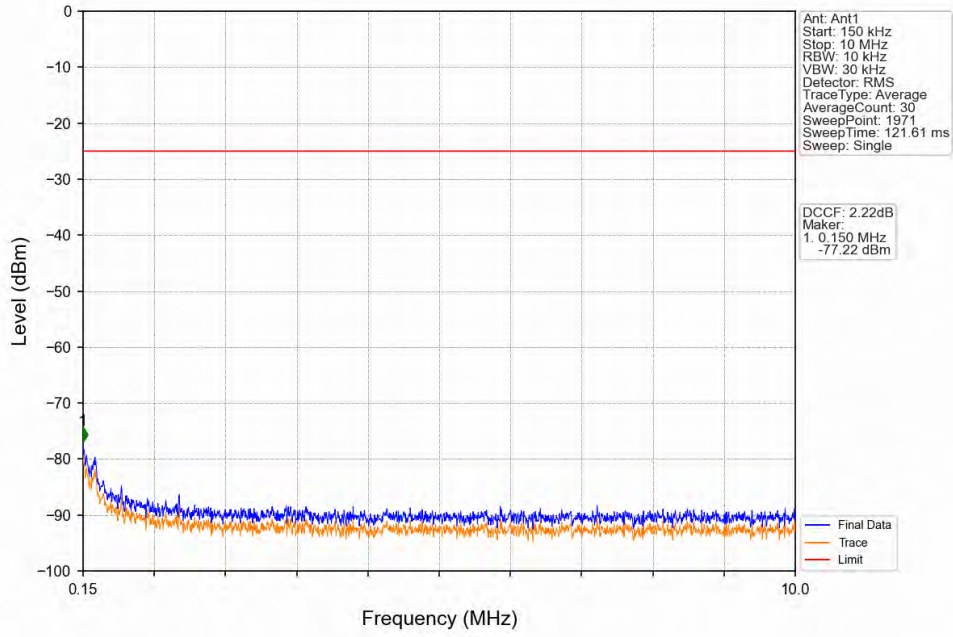
Band41_10MHz_16QAM_LCH_2501MHz_RB_1_0_NTNV



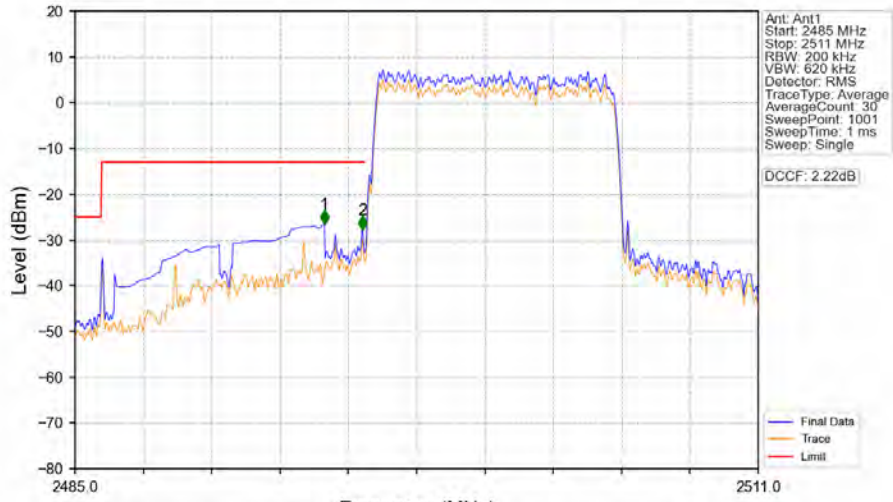
Band41_10MHz_16QAM_LCH_2501MHz_RB_1_0_NTNV



Band41_10MHz_16QAM_LCH_2501MHz_RB_1_0_NTNV

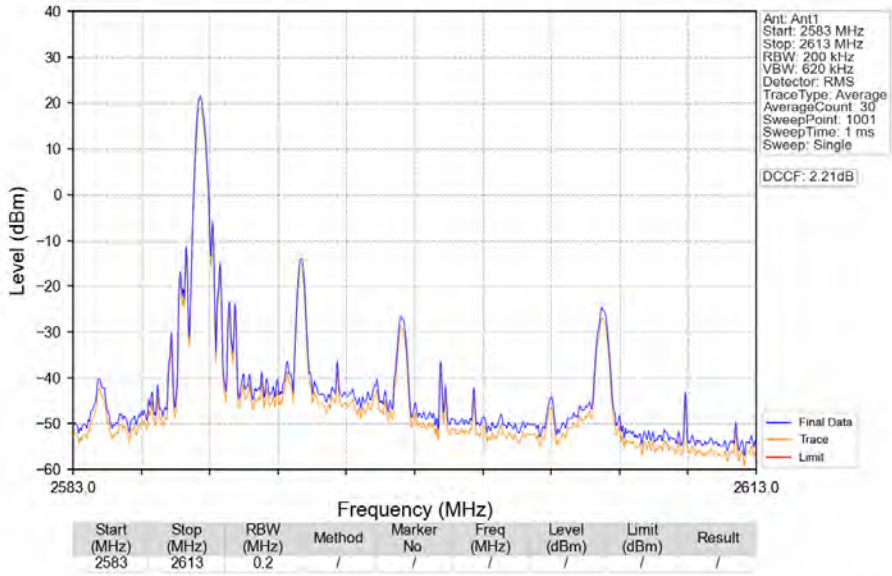


Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV

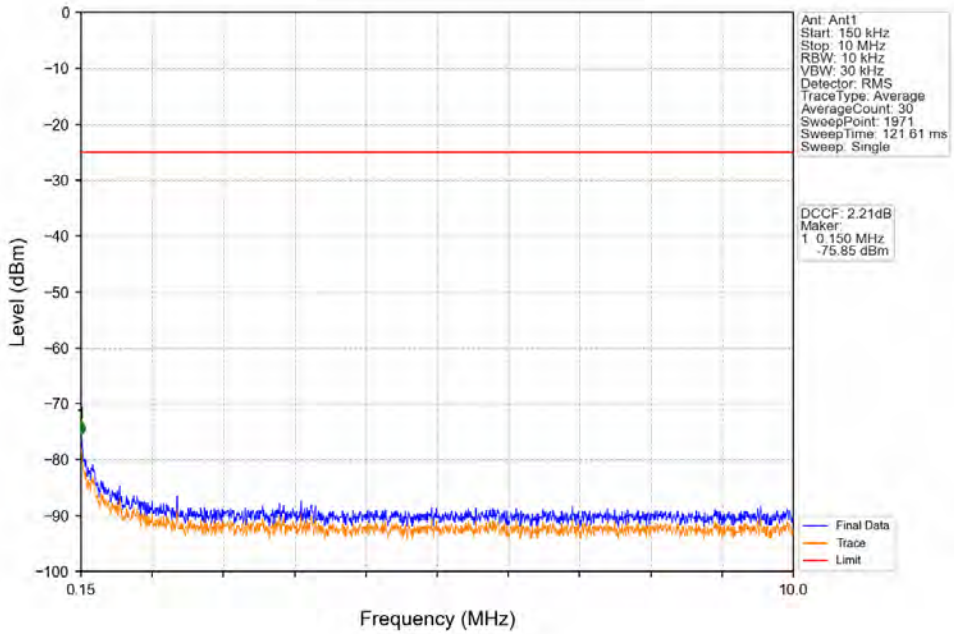


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2485 | 2495 | 1 | CHP | 1 | 2494.490 | -26.63 | -13 | Pass |
| 2495 | 2496 | 0.2 | / | 2 | 2495.946 | -27.82 | -13 | Pass |
| 2496 | 2511 | 0.216 | / | / | / | / | / | / |

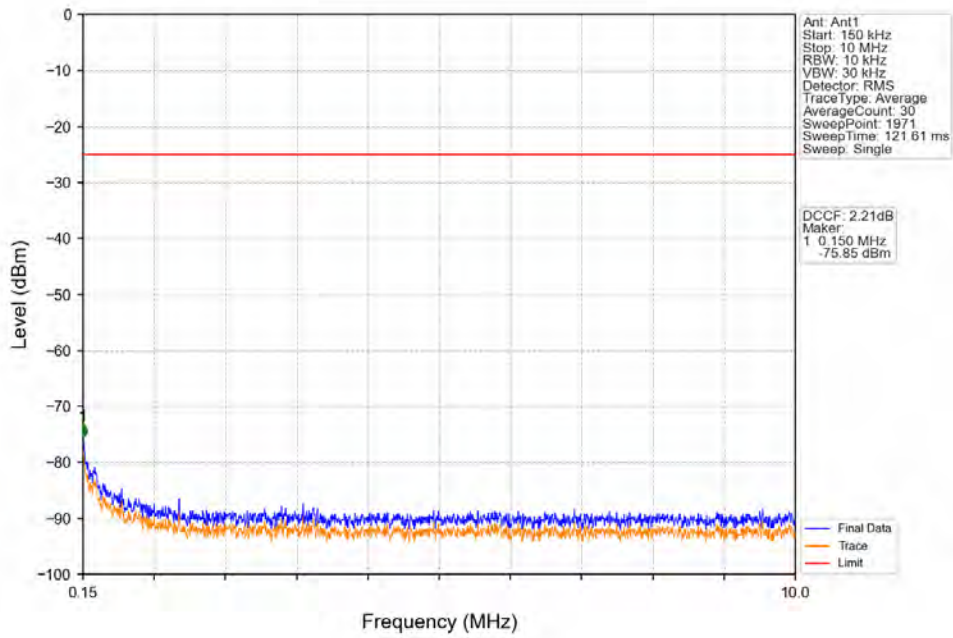
Band41_10MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



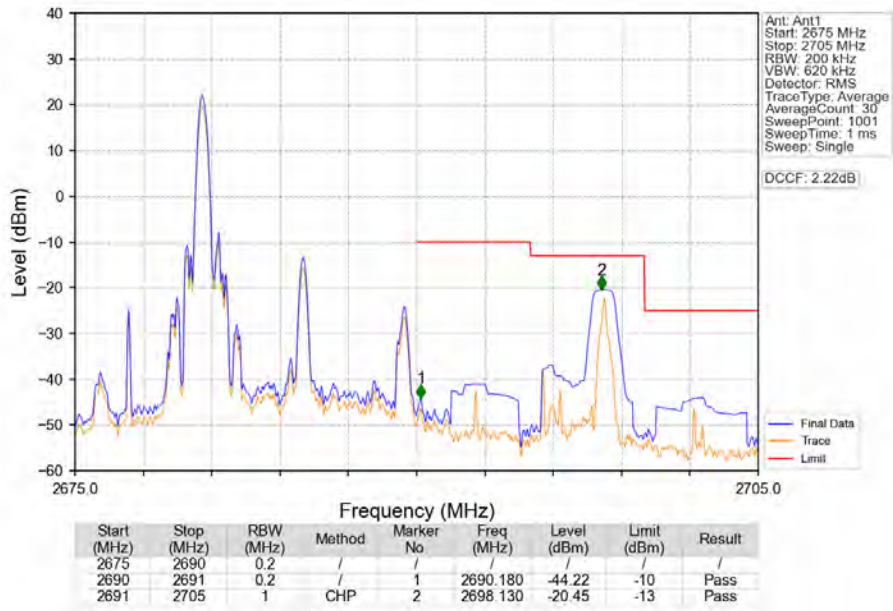
Band41_10MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



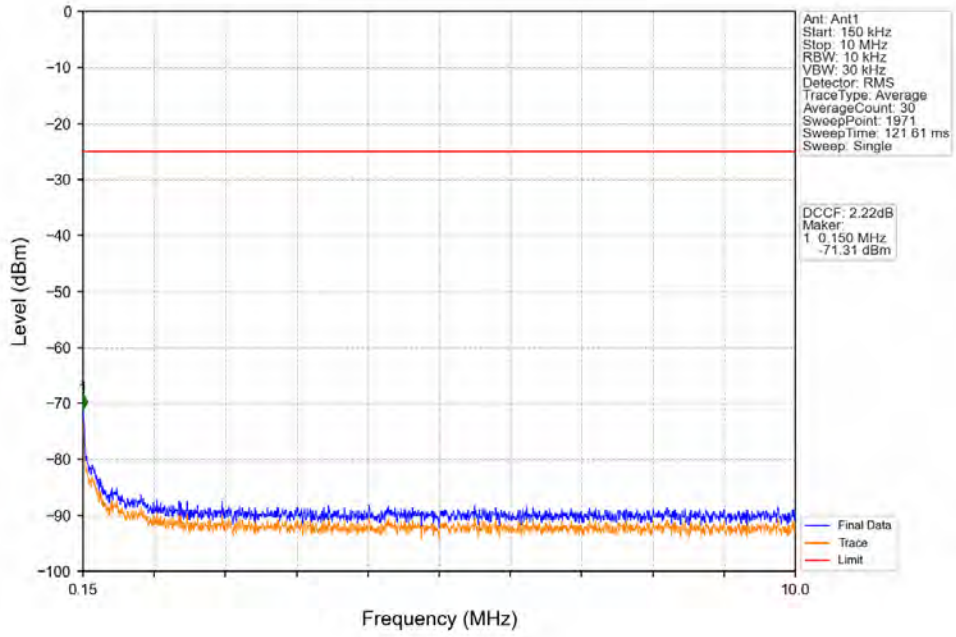
Band41_10MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



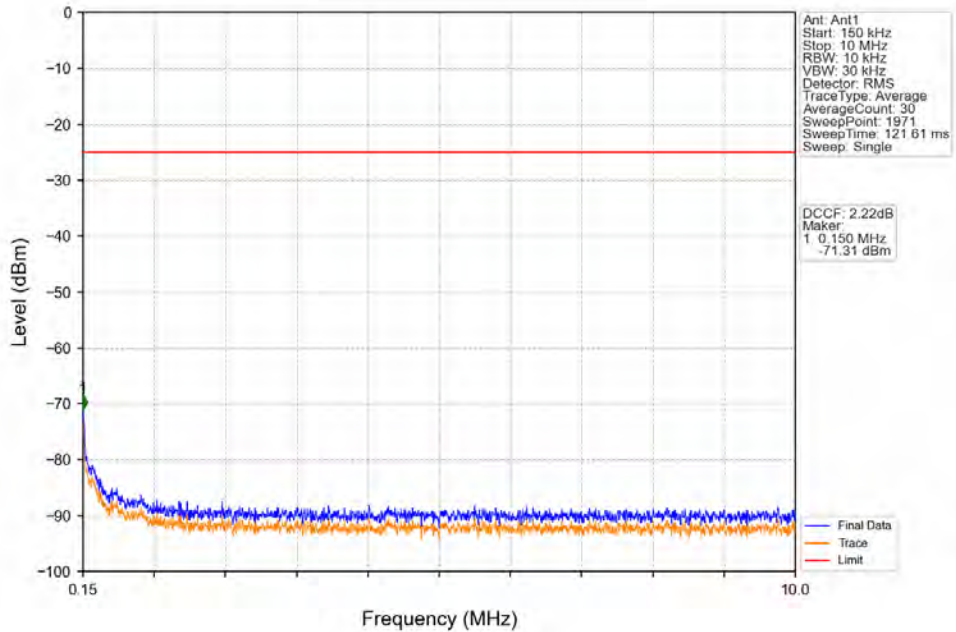
Band41_10MHz_16QAM_HCH_2685MHz_RB_1_0_NTNV



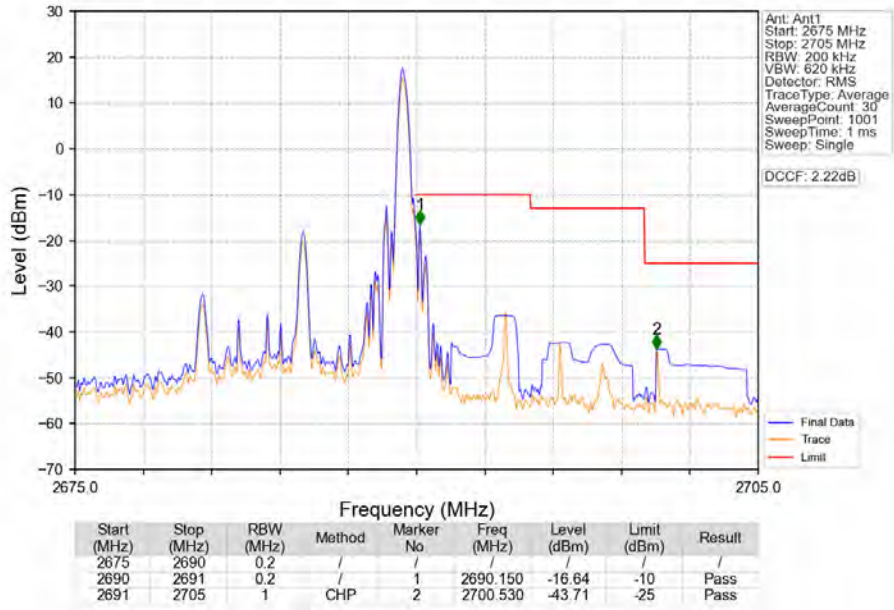
Band41_10MHz_16QAM_HCH_2685MHz_RB_1_0_NTNV



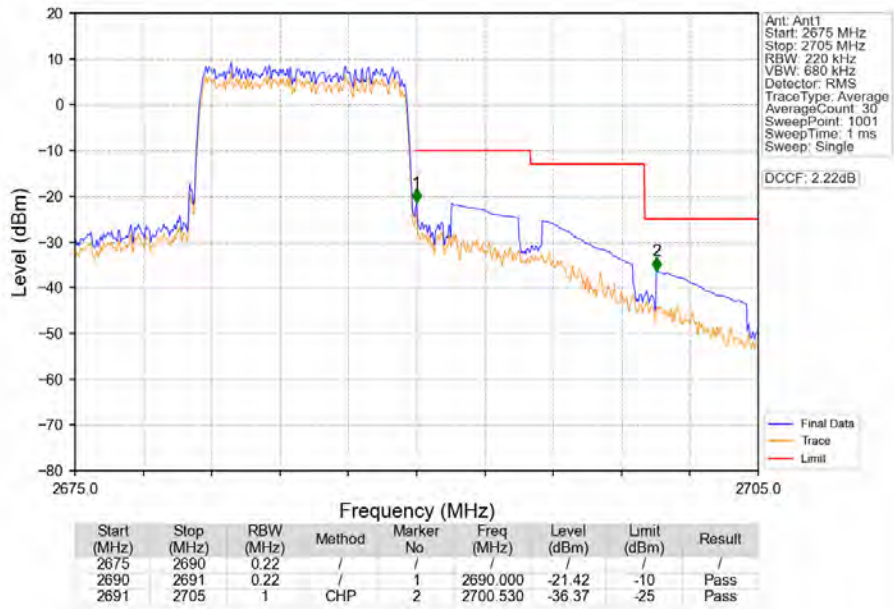
Band41_10MHz_16QAM_HCH_2685MHz_RB_1_0_NTNV



Band41_10MHz_16QAM_HCH_2685MHz_RB_1_49_NTNV



Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV

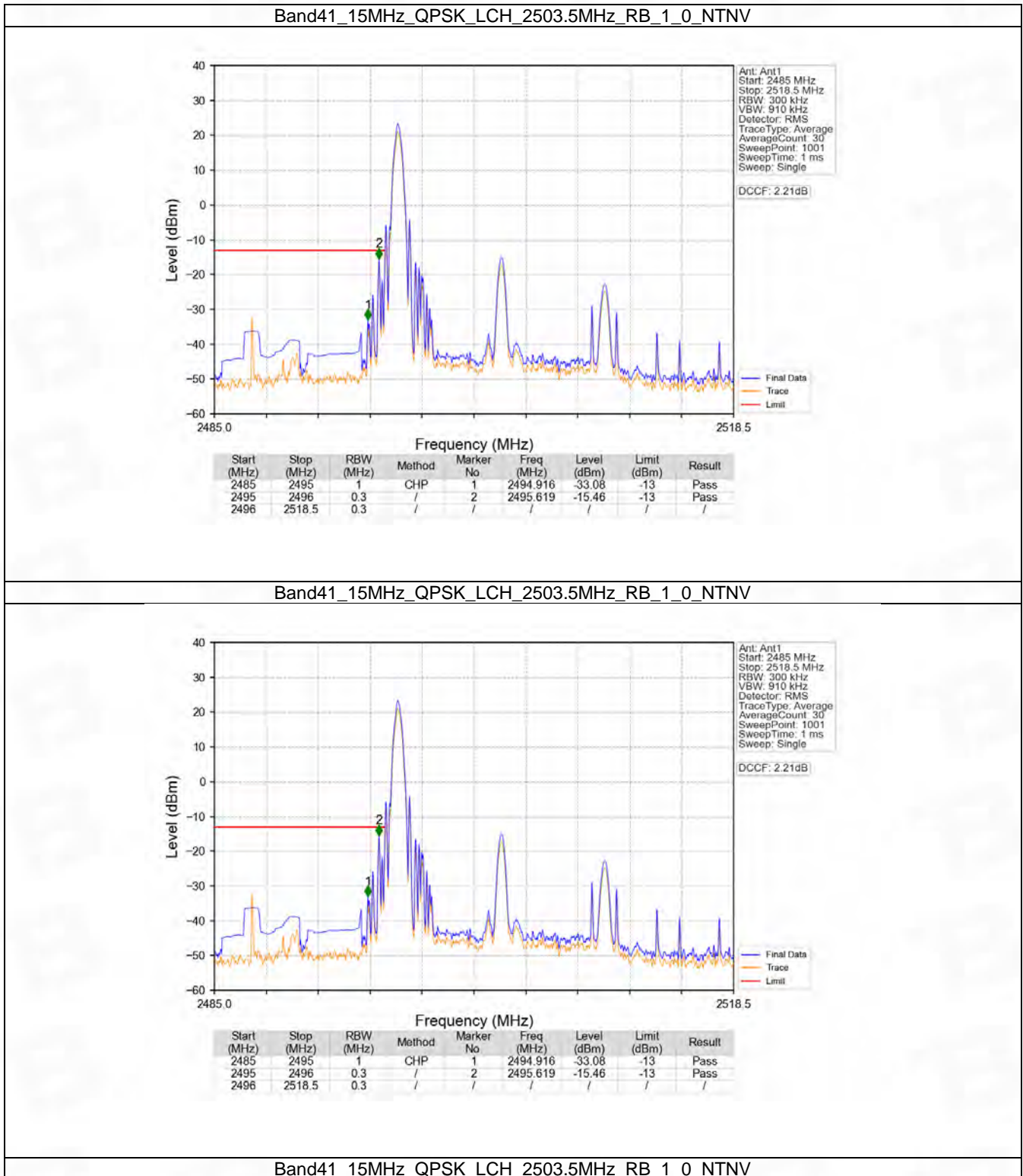


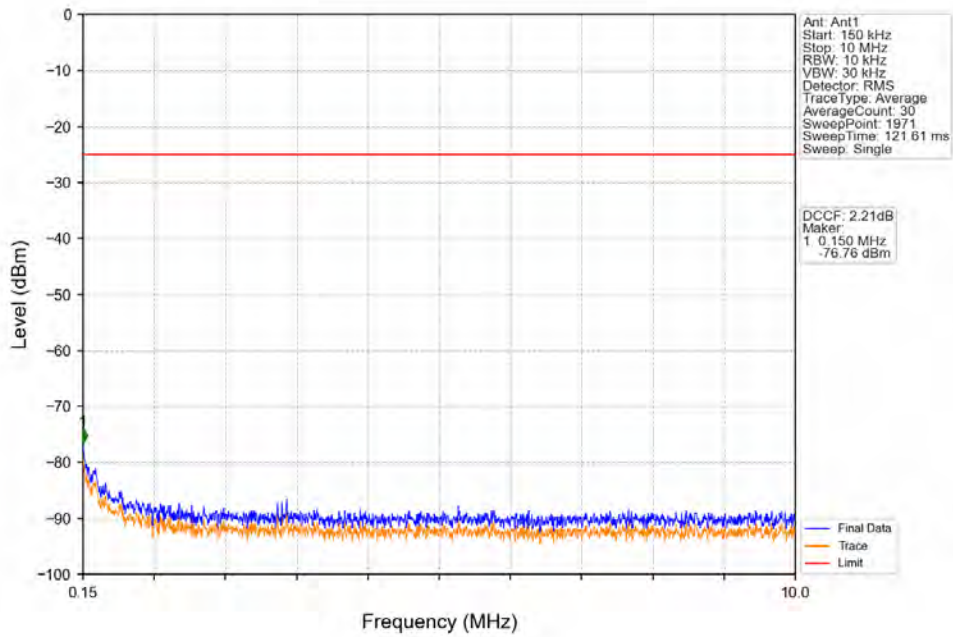
6.3 B41_15MHz

6.3.1 Test Result

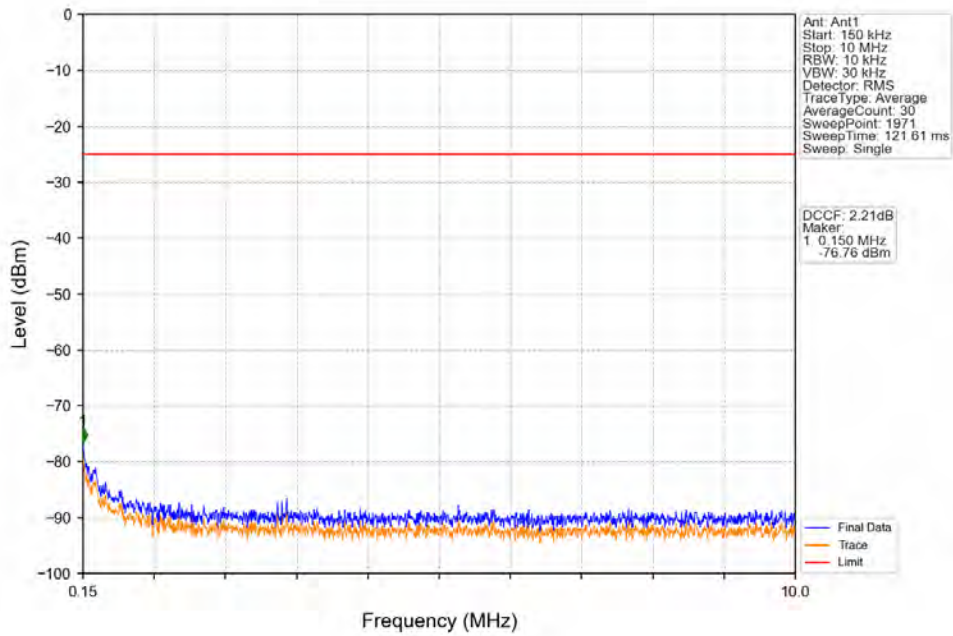
| Band: 41 / Bandwidth: 15MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2503.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 2593 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2682.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2503.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 2593 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2682.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |

6.3.2 Test Graph

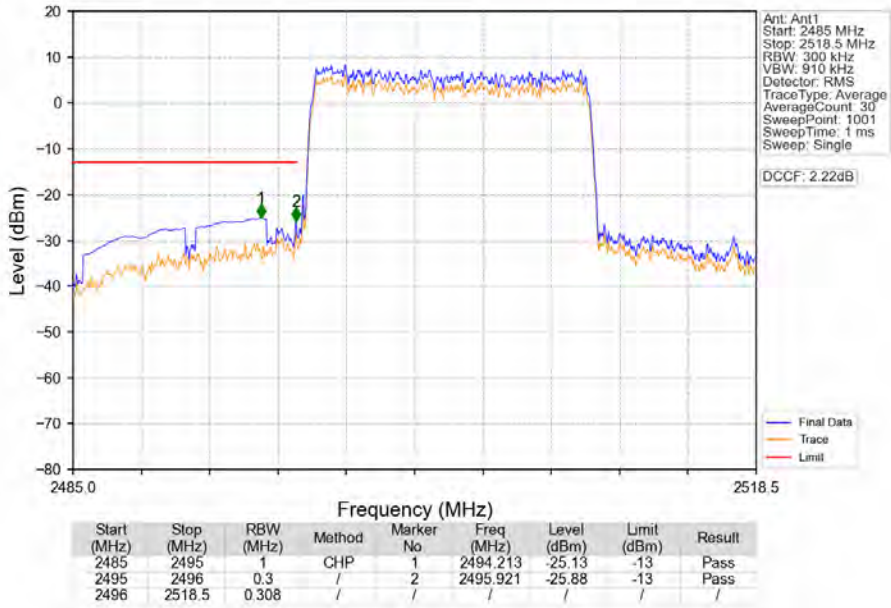




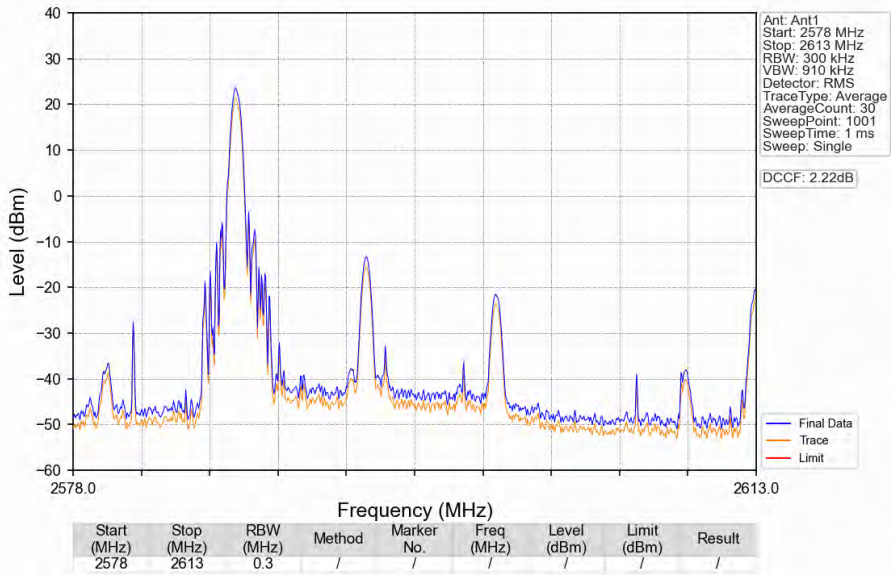
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_1_0_NTV



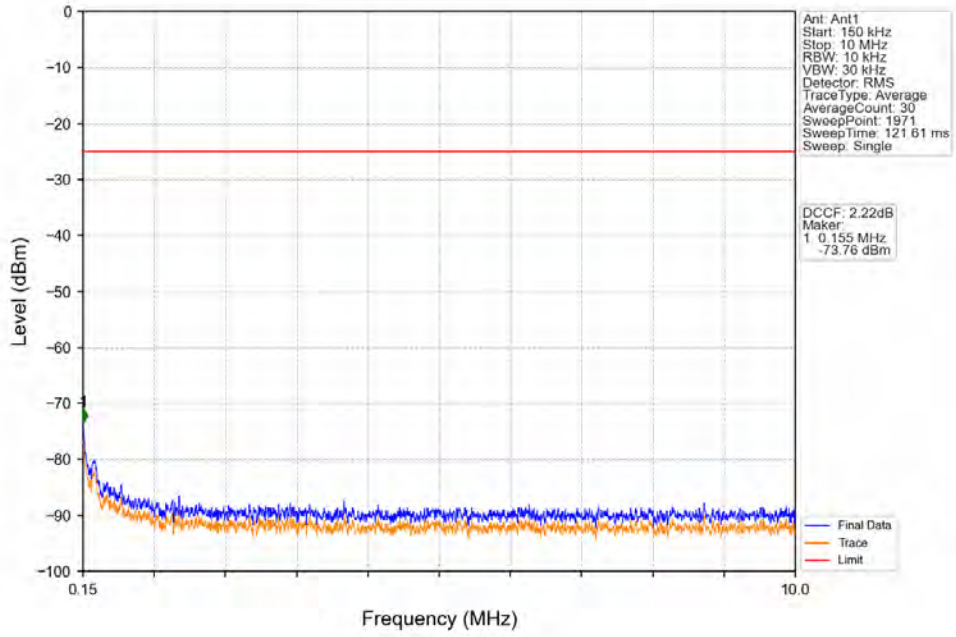
Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



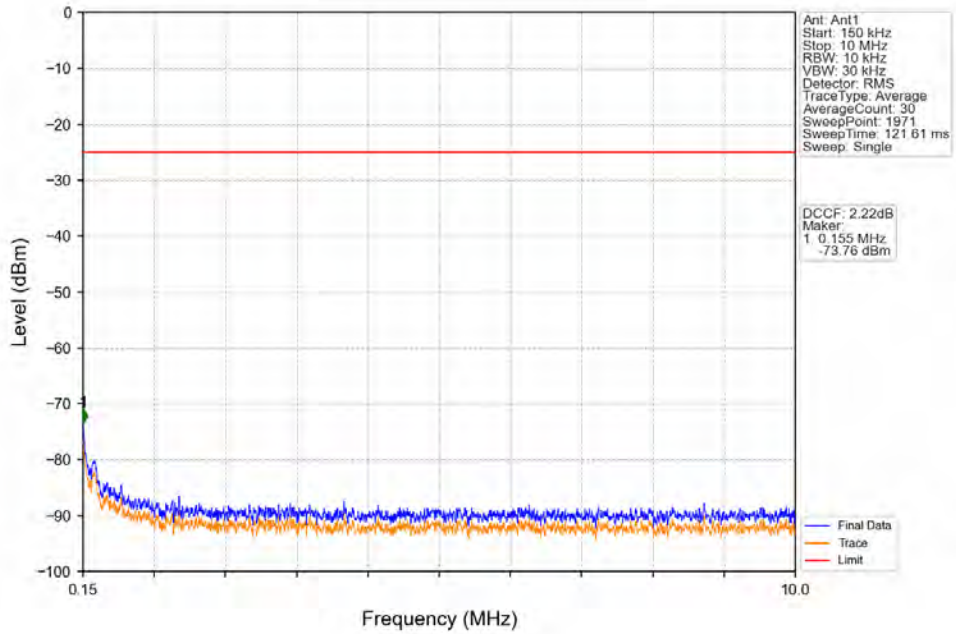
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



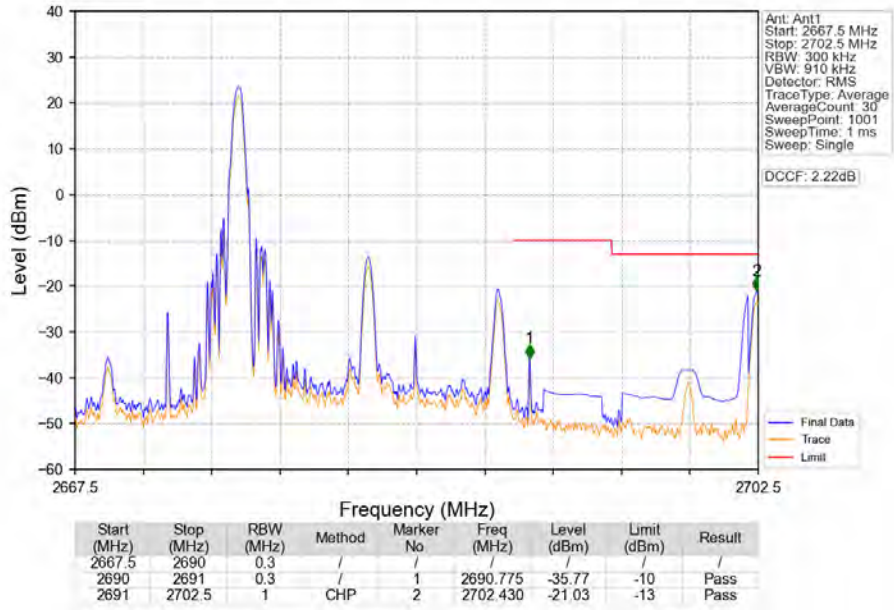
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



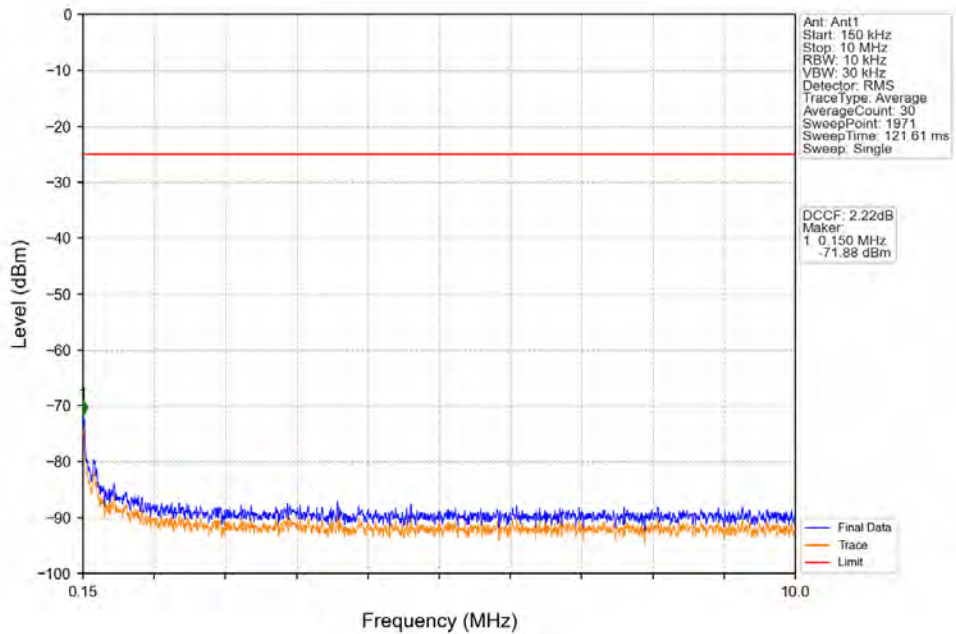
Band41_15MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



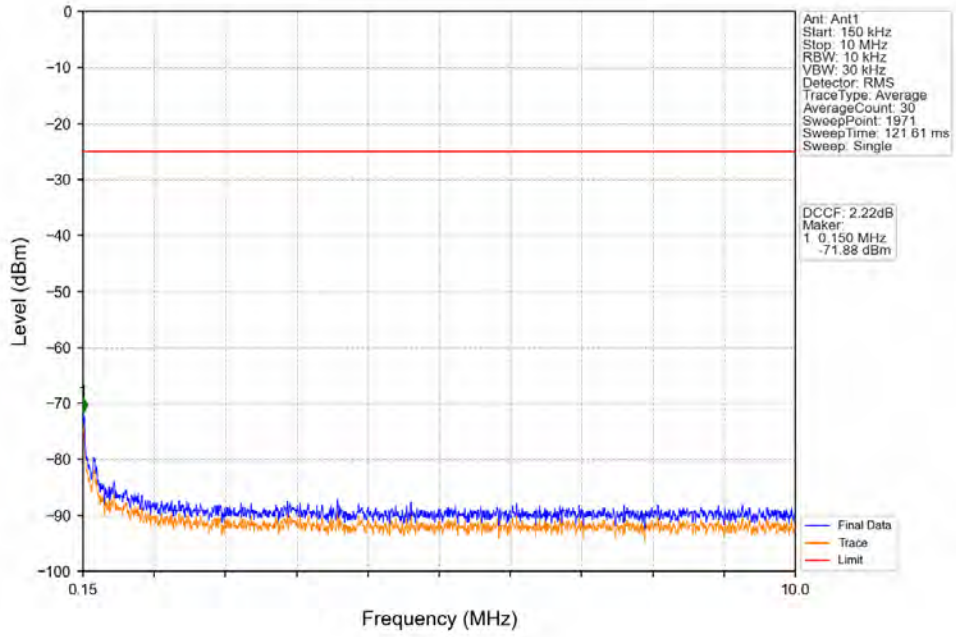
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_0_NTNV

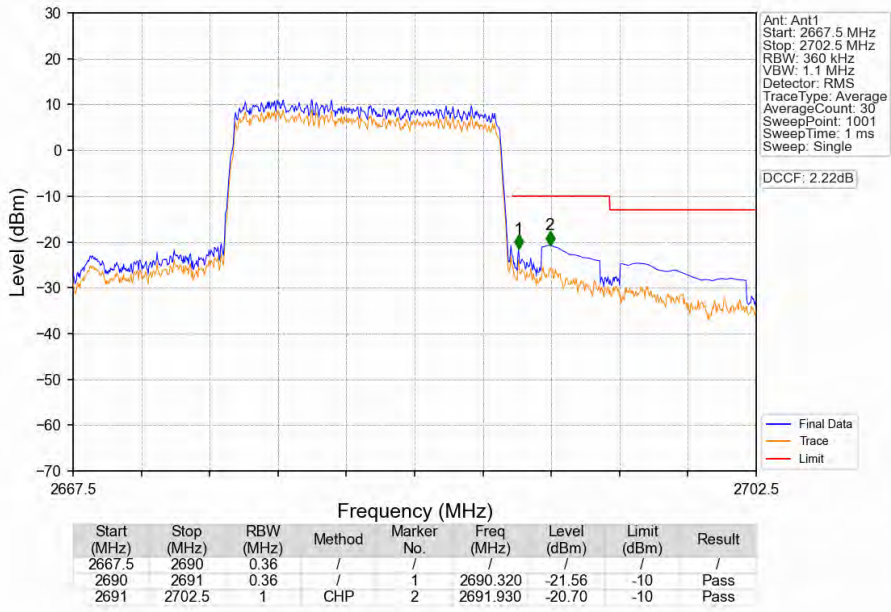


Band41_15MHz_QPSK_HCH_2682.5MHz_RB_1_74_NTNV

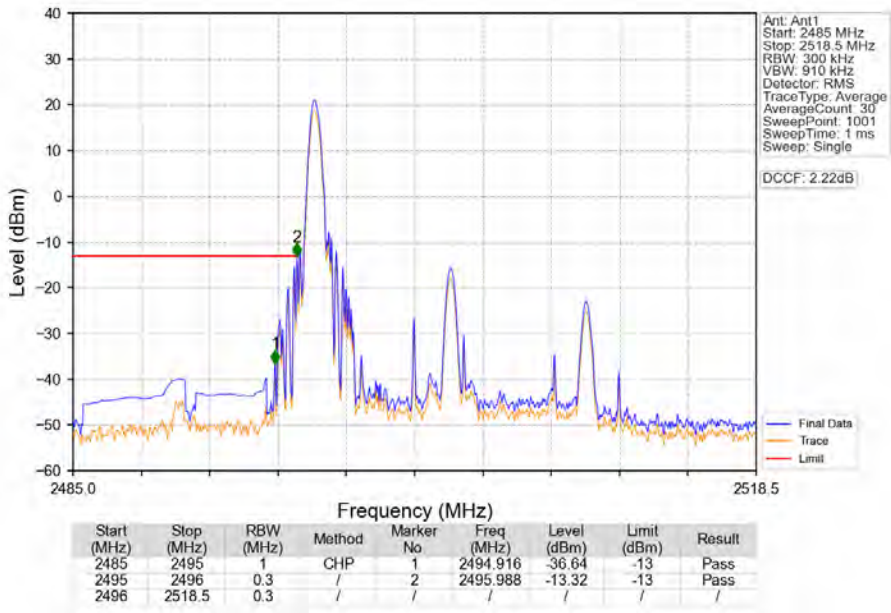


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2667.5 | 2690 | 0.3 | / | / | / | / | / | / |
| 2690 | 2691 | 0.3 | / | 1 | 2690.075 | -13.63 | -10 | Pass |
| 2691 | 2702.5 | 1 | CHP | 2 | 2695.150 | -32.49 | -13 | Pass |

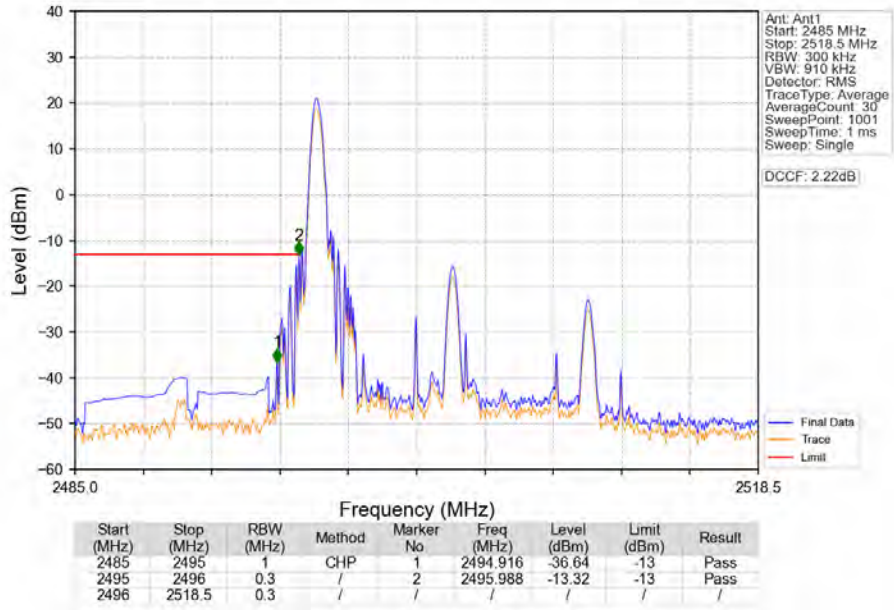
Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



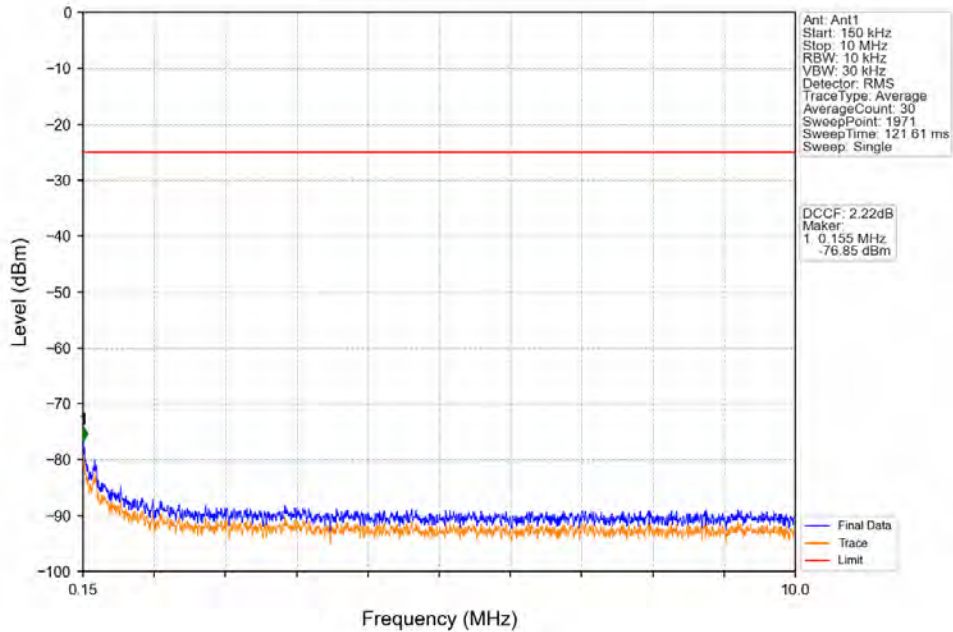
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_1_0_NTNV



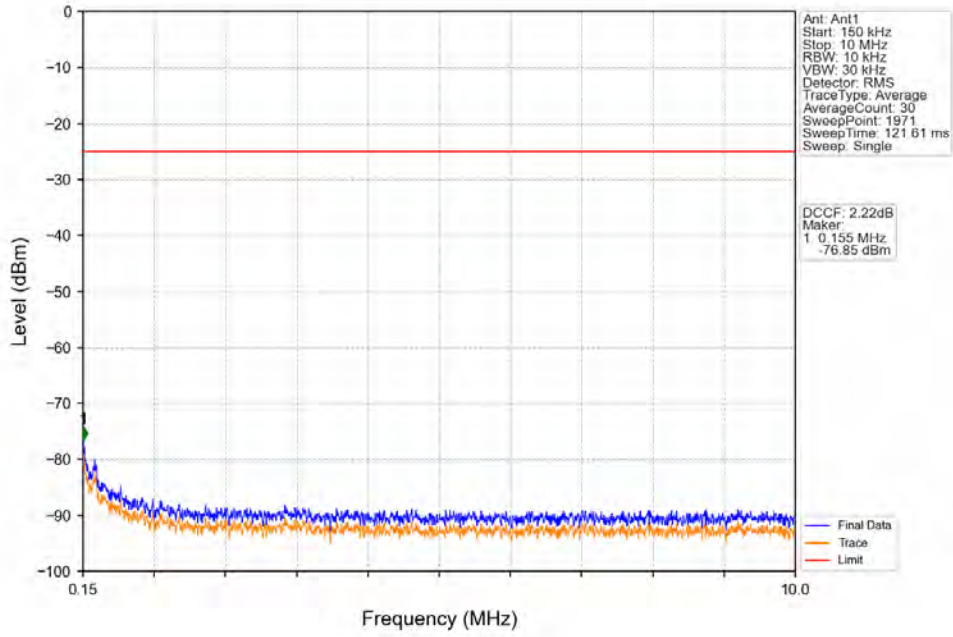
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_1_0_NTNV



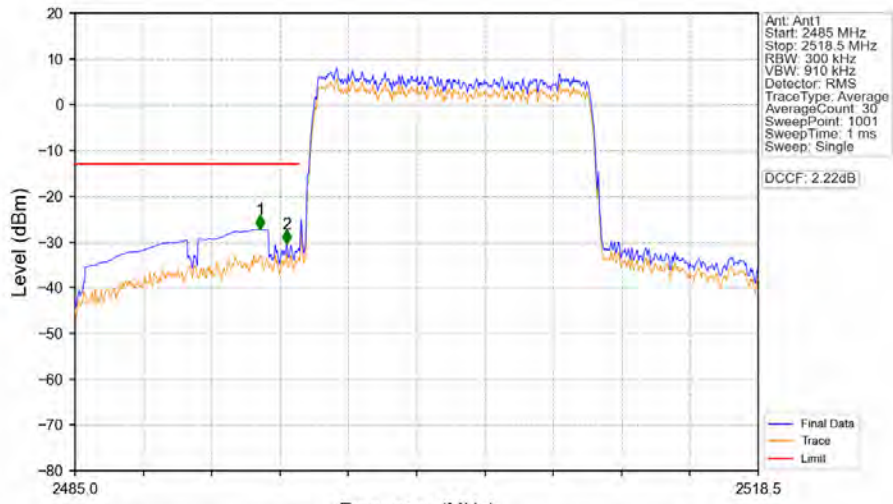
Band41_15MHz_16QAM_LCH_2503.5MHz_RB_1_0_NTNV



Band41_15MHz_16QAM_LCH_2503.5MHz_RB_1_0_NTNV

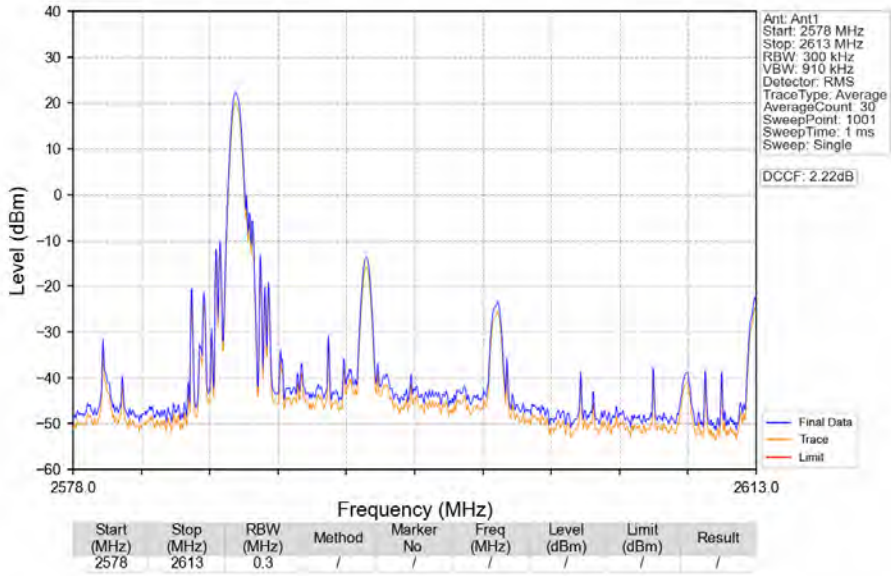


Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV

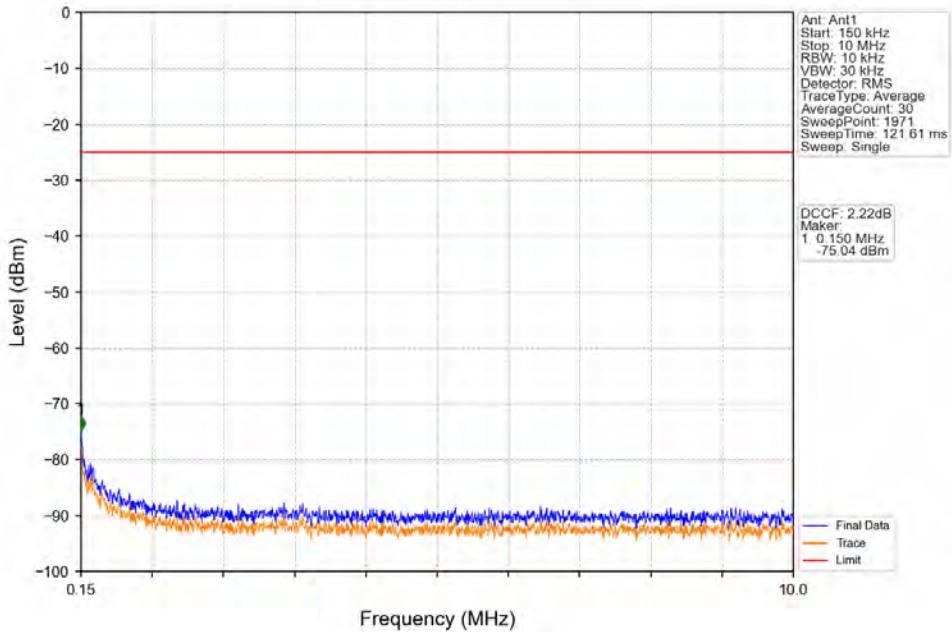


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2485 | 2495 | 1 | CHP | 1 | 2494.079 | -27.23 | -13 | Pass |
| 2495 | 2496 | 0.3 | / | 2 | 2495.385 | -30.40 | -13 | Pass |
| 2496 | 2518.5 | 0.328 | / | / | / | / | / | / |

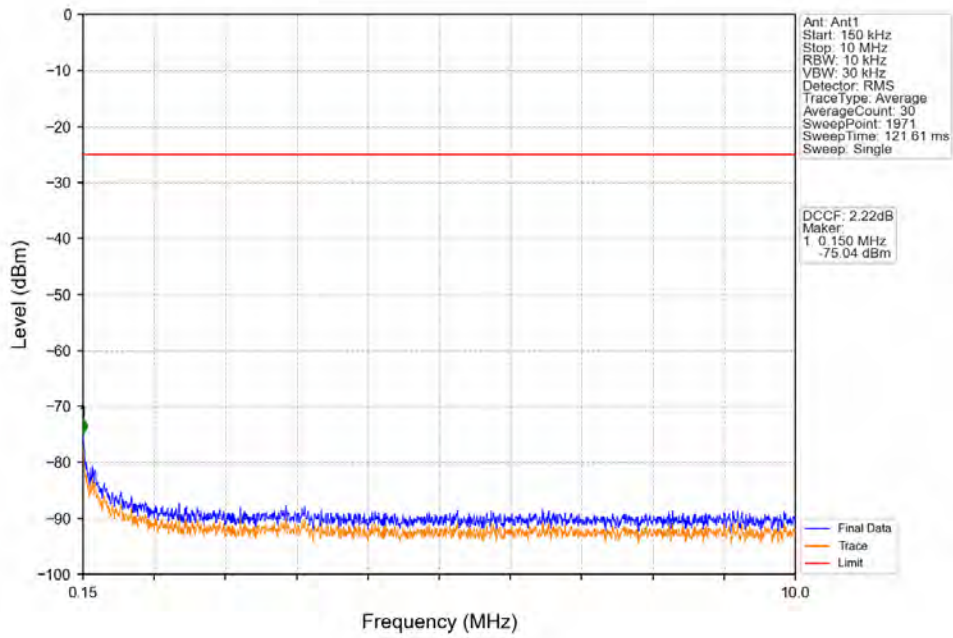
Band41_15MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



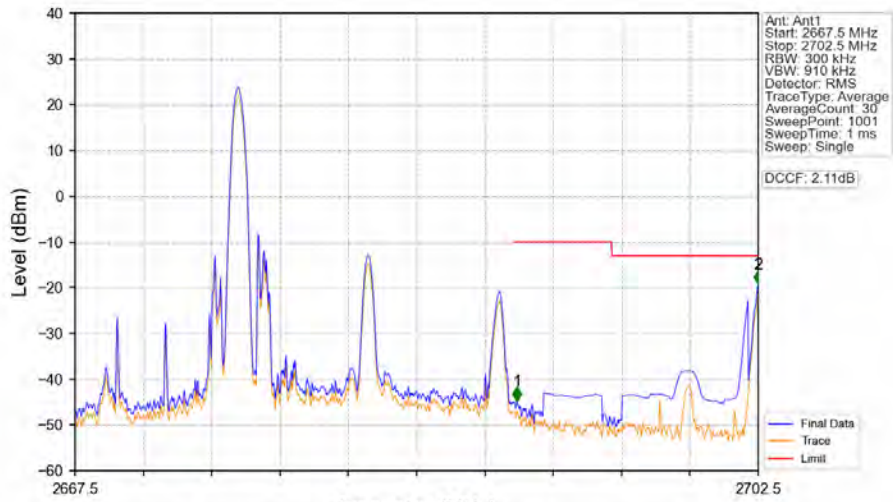
Band41_15MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



Band41_15MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV

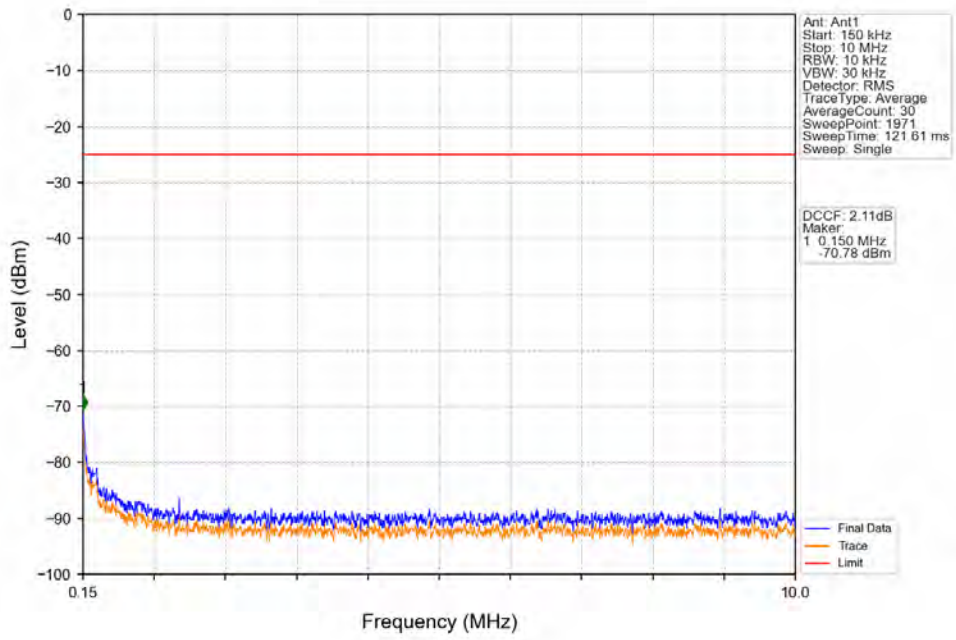


Band41_15MHz_16QAM_HCH_2682.5MHz_RB_1_0_NTNV

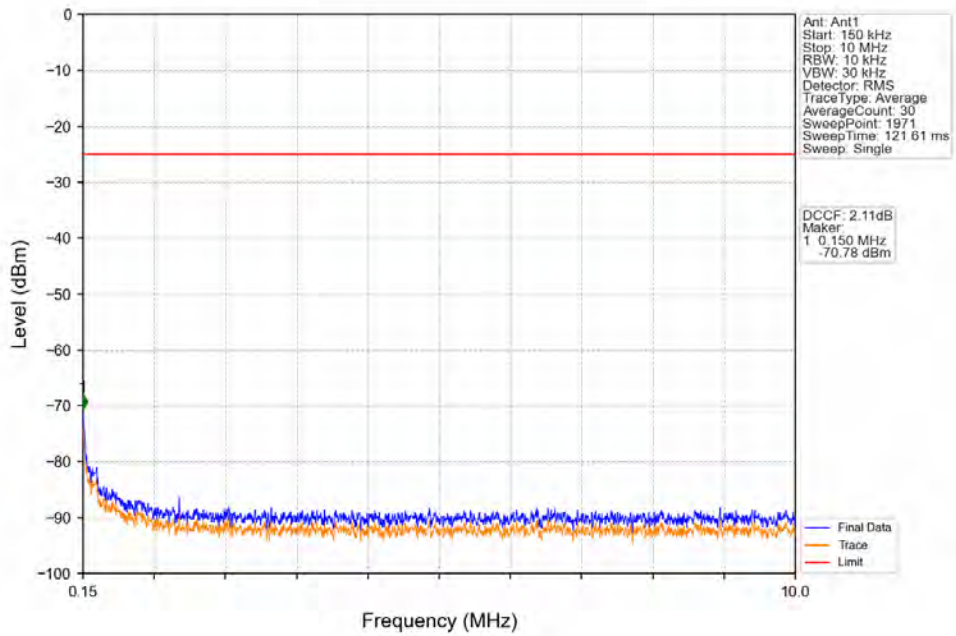


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2667.5 | 2690 | 0.3 | / | / | / | / | / | / |
| 2690 | 2691 | 0.3 | / | 1 | 2690.145 | -44.83 | -10 | Pass |
| 2691 | 2702.5 | 1 | CHP | 2 | 2702.500 | -19.29 | -13 | Pass |

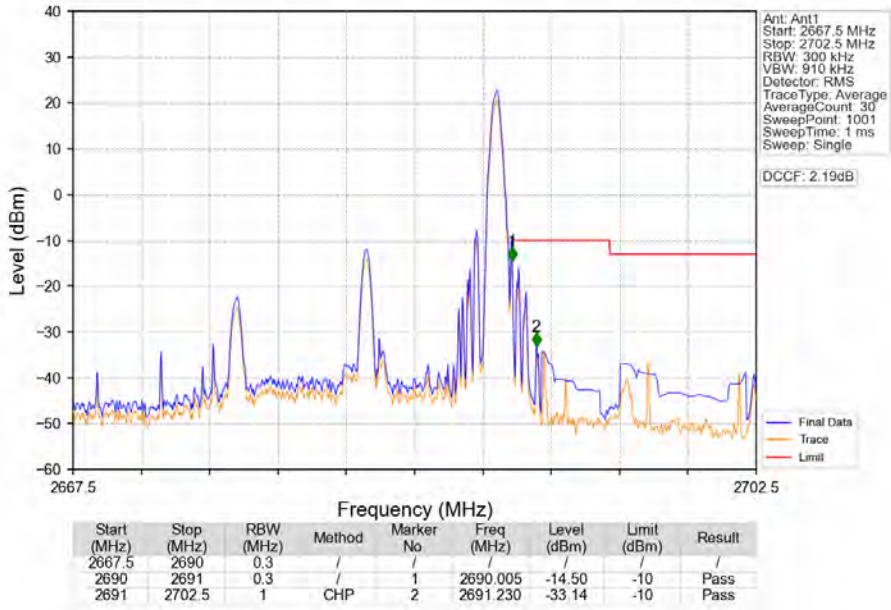
Band41_15MHz_16QAM_HCH_2682.5MHz_RB_1_0_NTNV



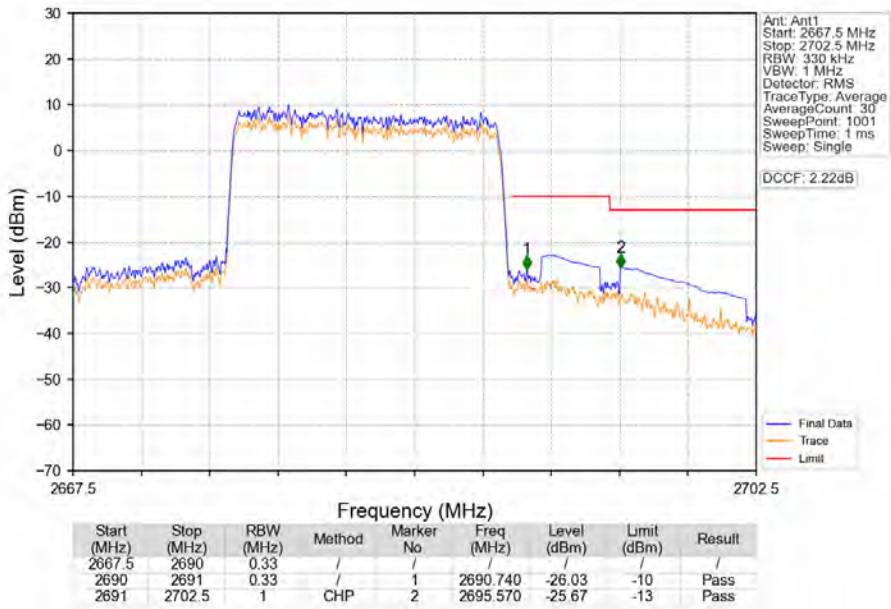
Band41_15MHz_16QAM_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_16QAM_HCH_2682.5MHz_RB_1_74_NTNV



Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV

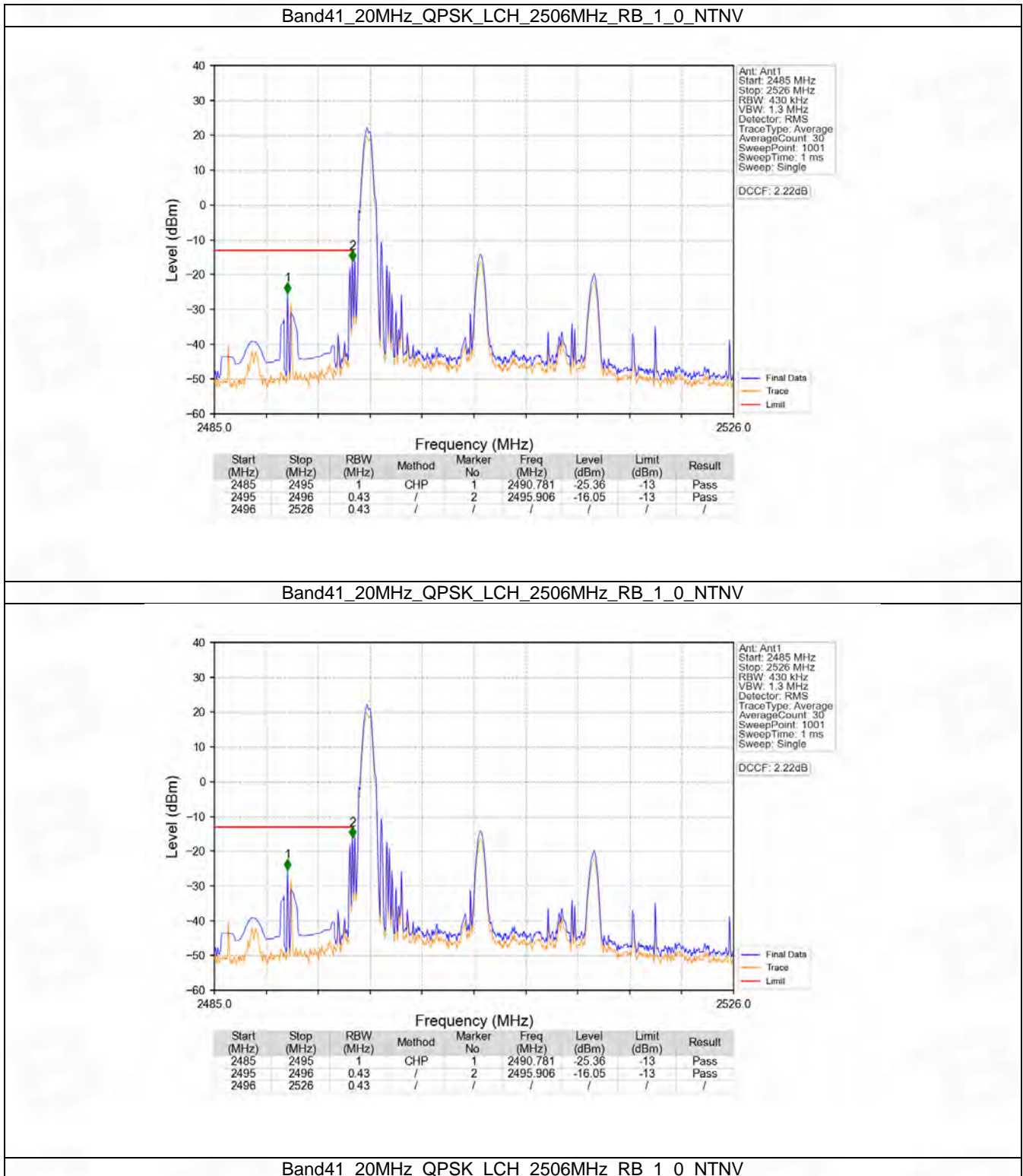


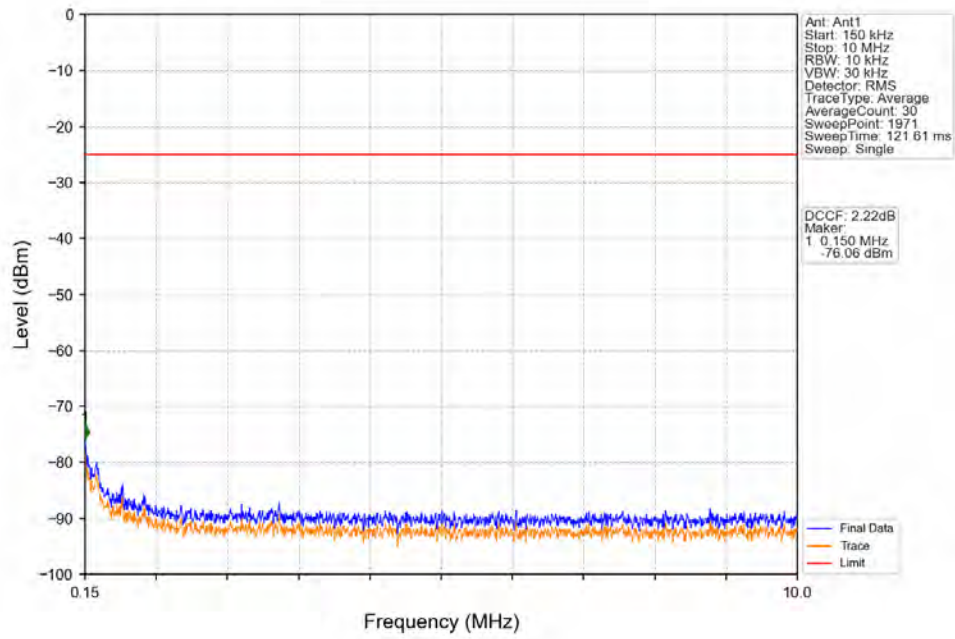
6.4 B41_20MHz

6.4.1 Test Result

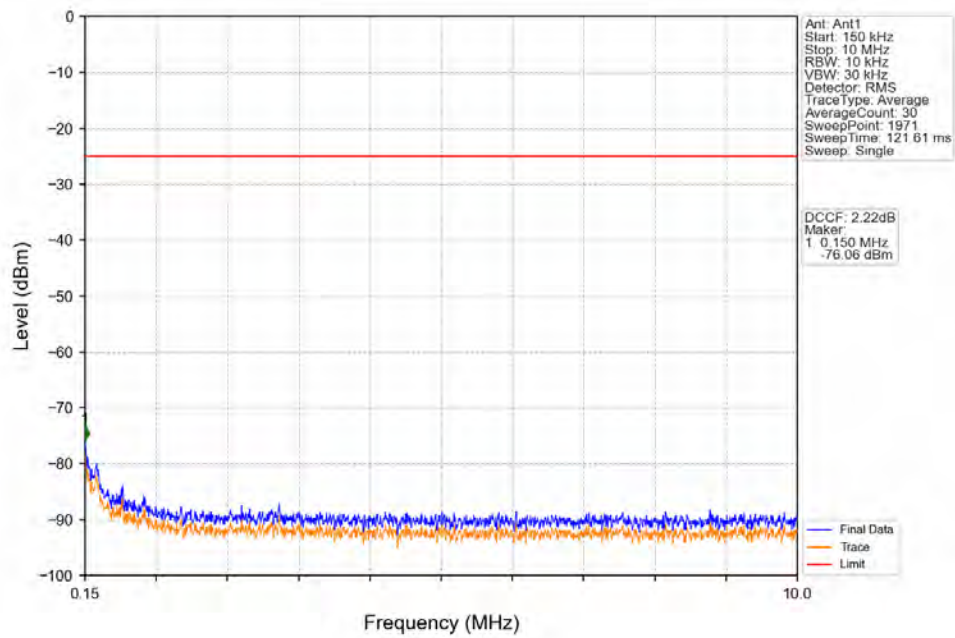
| Band: 41 / Bandwidth: 20MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 2506 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 2593 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2680 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 2506 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 2593 | 1 | 0 | Refer To Test Graph | | Pass |
| | 2680 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |

6.4.2 Test Graph

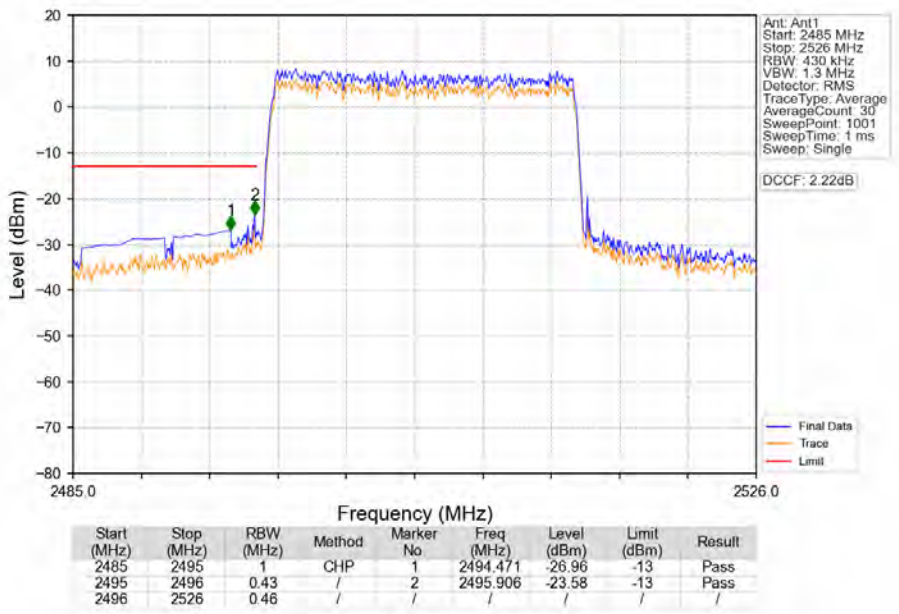




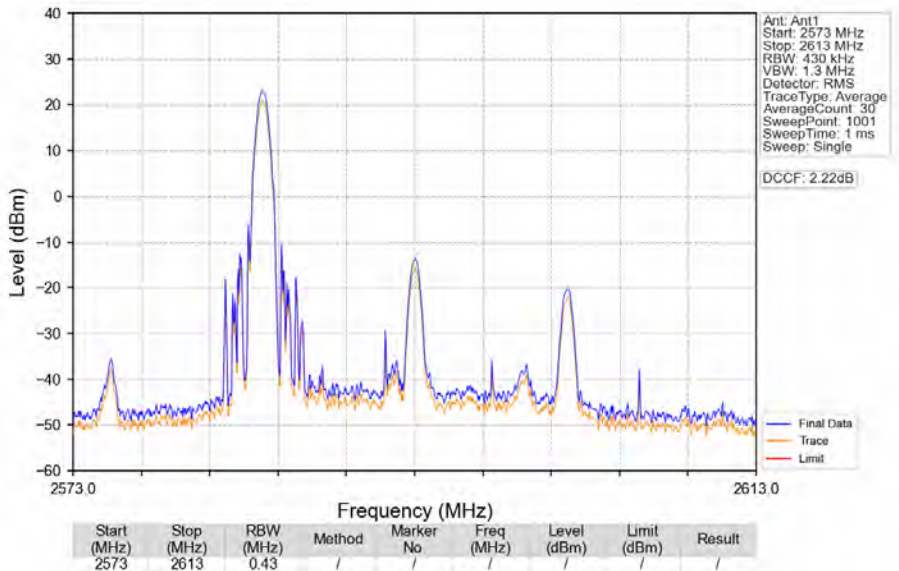
Band41_20MHz_QPSK_LCH_2506MHz_RB_1_0_NTNV



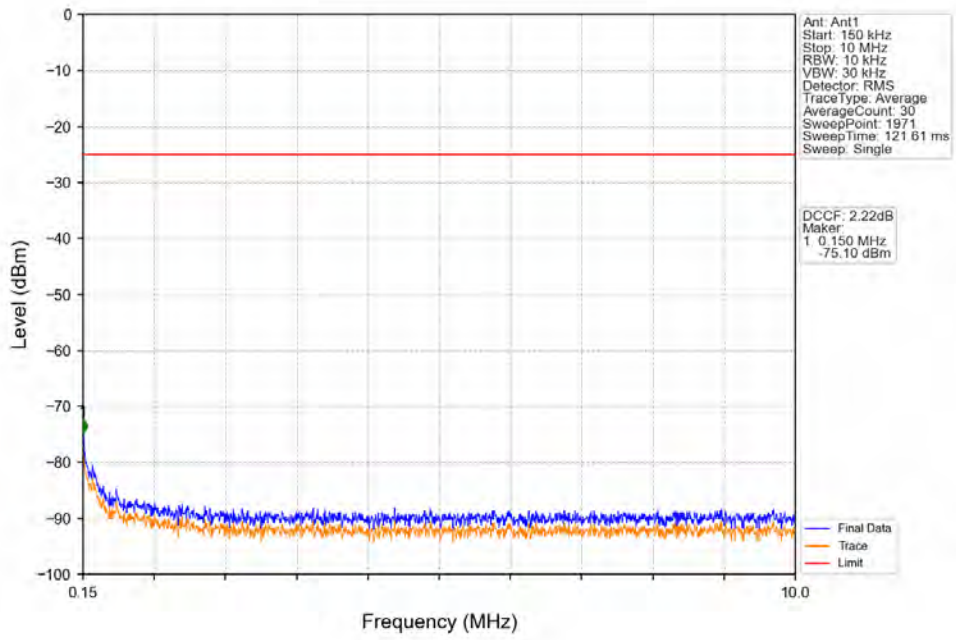
Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



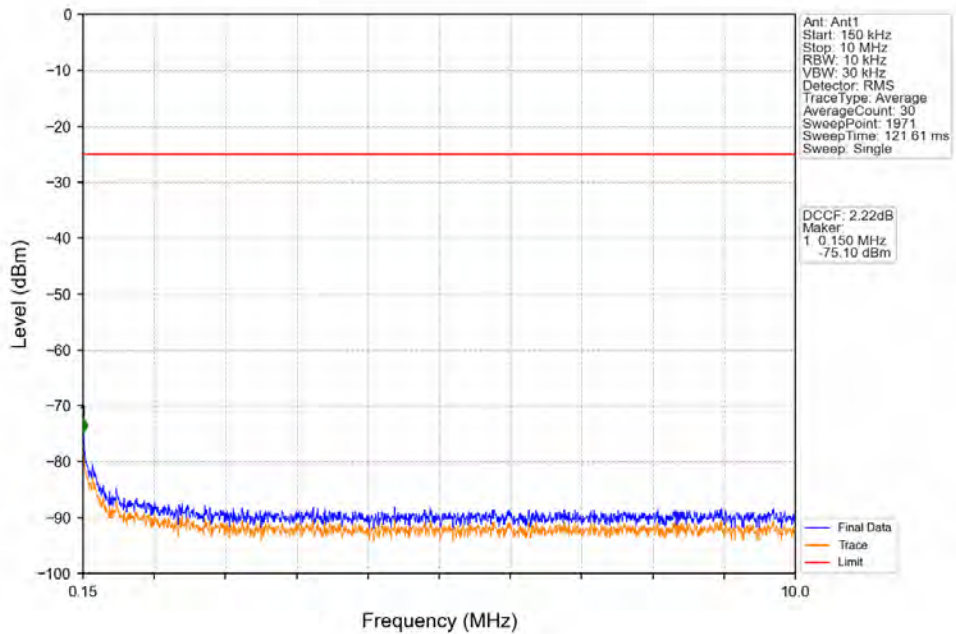
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



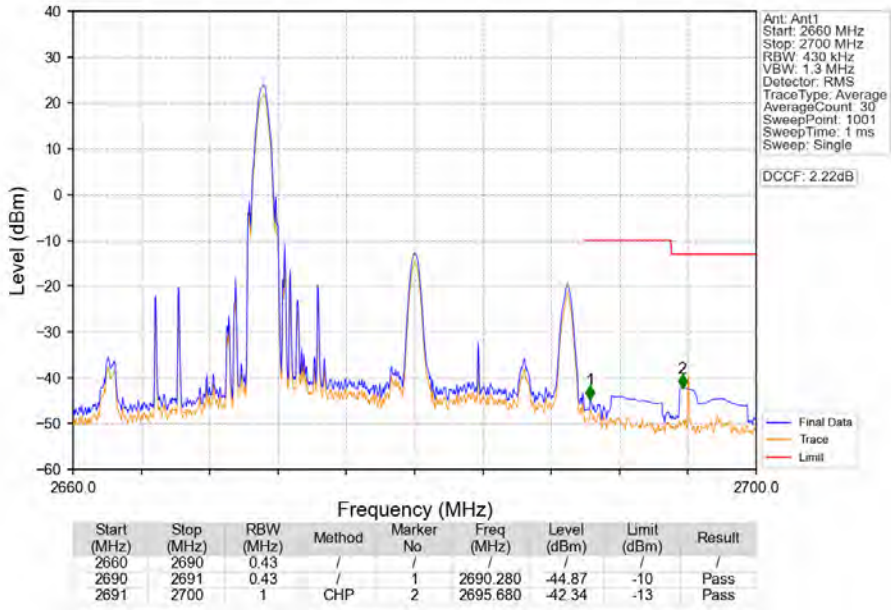
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



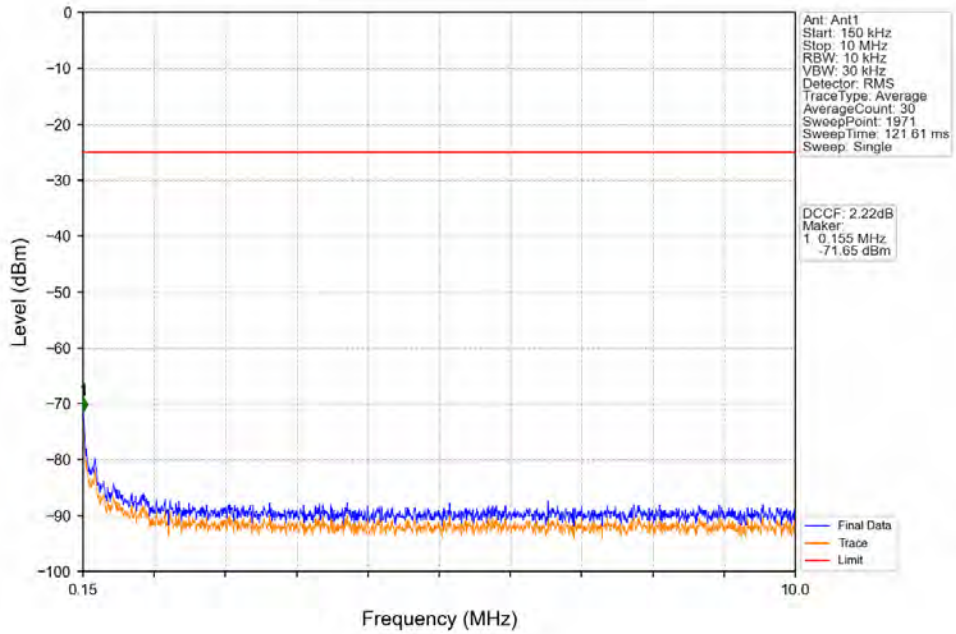
Band41_20MHz_QPSK_MCH_2593MHz_RB_1_0_NTNV



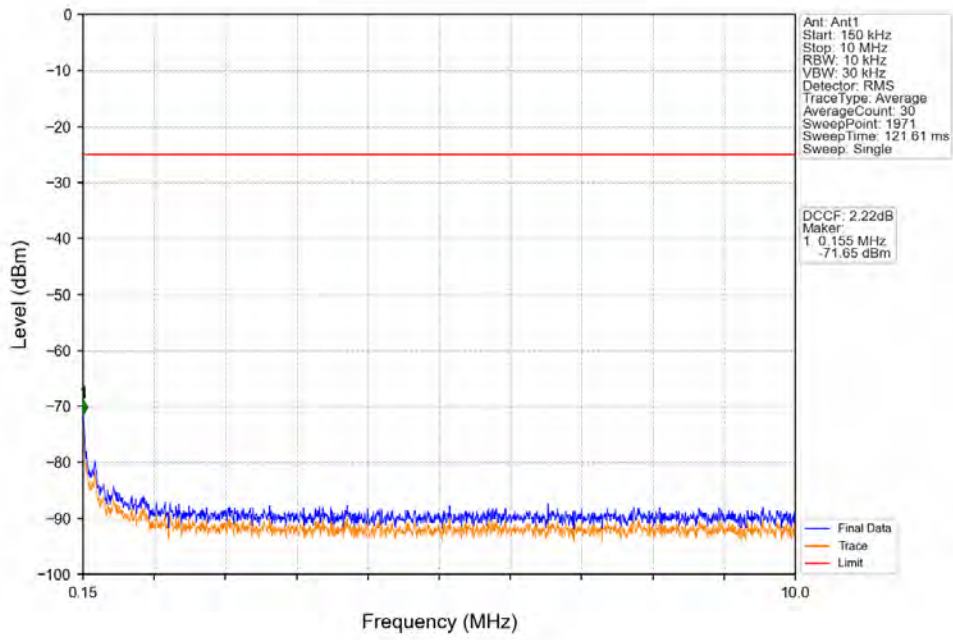
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



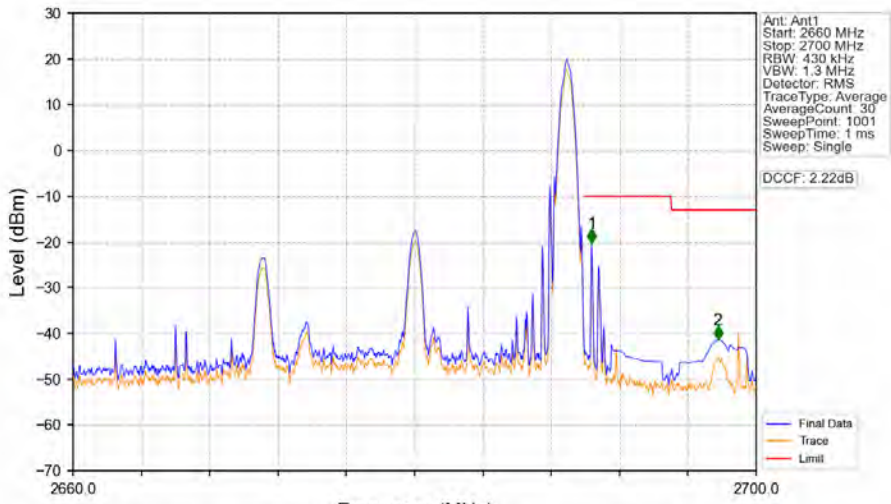
Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV



Band41_20MHz_QPSK_HCH_2680MHz_RB_1_0_NTNV

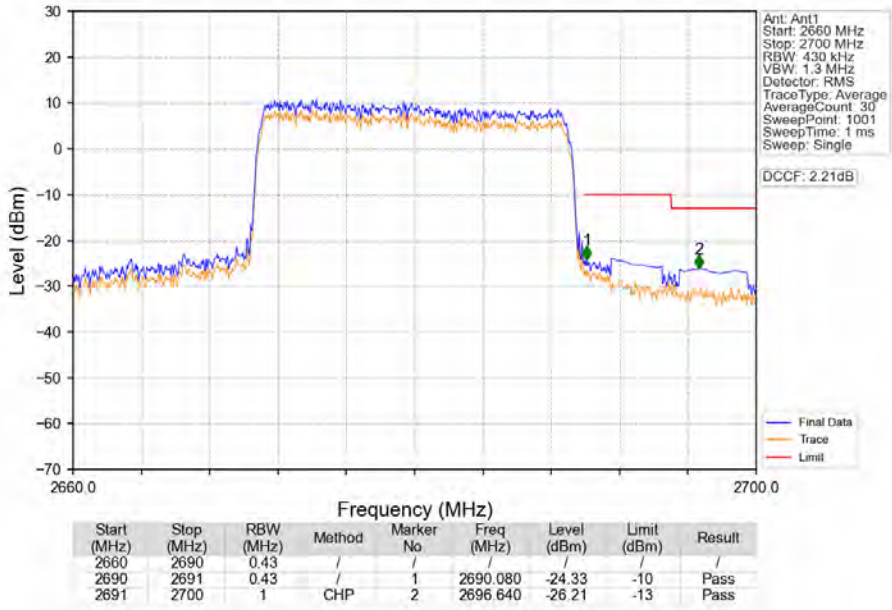


Band41_20MHz_QPSK_HCH_2680MHz_RB_1_99_NTNV

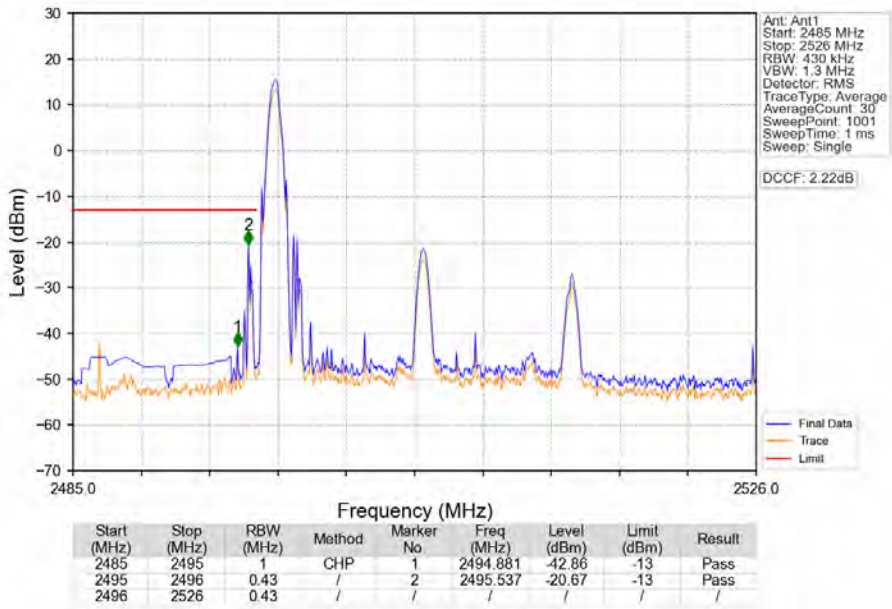


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2660 | 2690 | 0.43 | / | / | / | / | / | / |
| 2690 | 2691 | 0.43 | / | 1 | 2690.360 | -20.28 | -10 | Pass |
| 2691 | 2700 | 1 | CHP | 2 | 2697.760 | -41.44 | -13 | Pass |

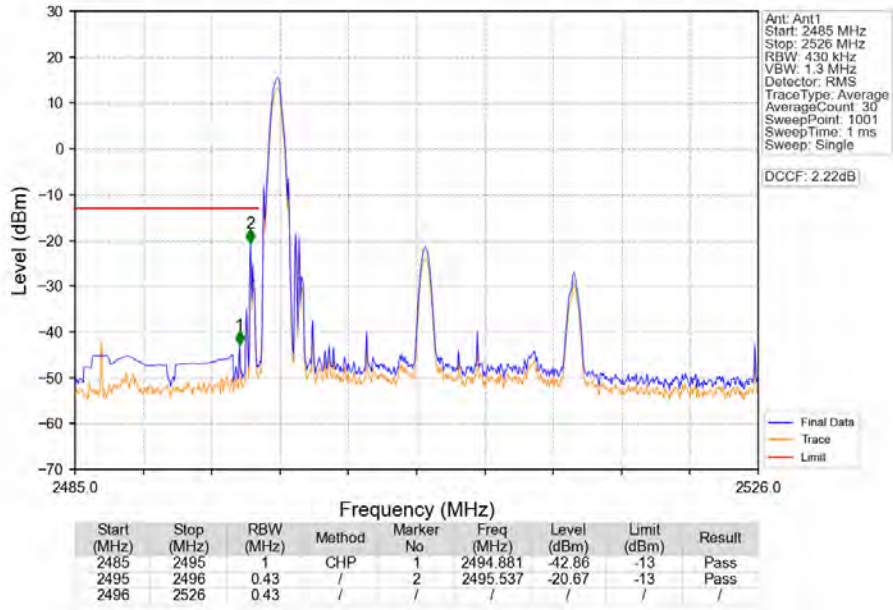
Band41_20MHz_QPSK_HCH_2680MHz_RB_100_0_NTNV



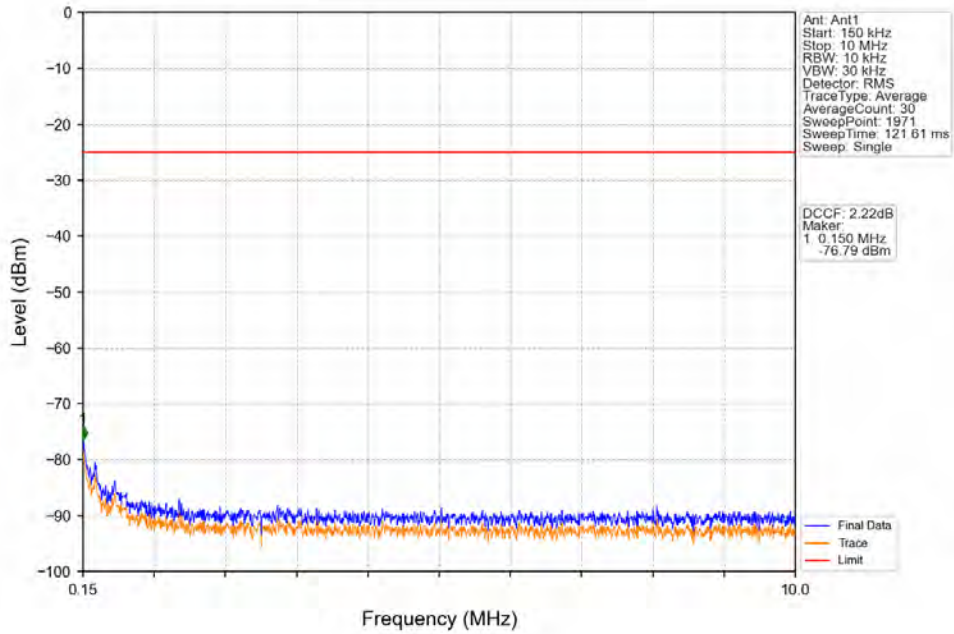
Band41_20MHz_16QAM_LCH_2506MHz_RB_1_0_NTNV



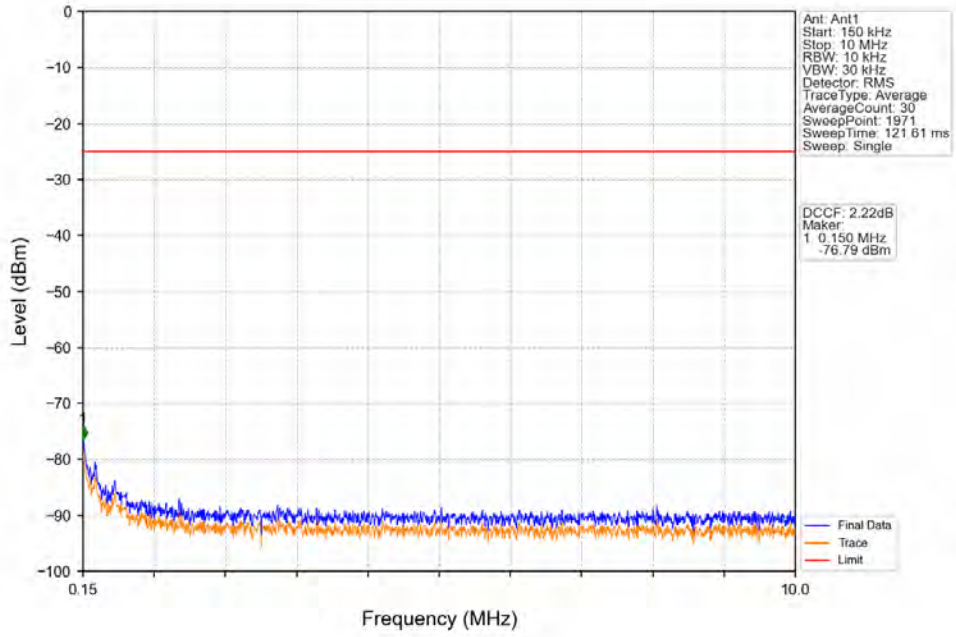
Band41_20MHz_16QAM_LCH_2506MHz_RB_1_0_NTNV



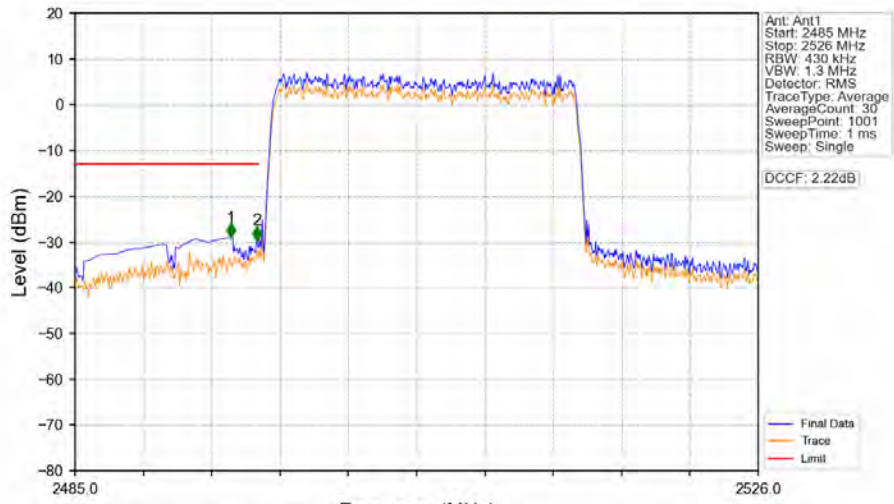
Band41_20MHz_16QAM_LCH_2506MHz_RB_1_0_NTNV



Band41_20MHz_16QAM_LCH_2506MHz_RB_1_0_NTNV

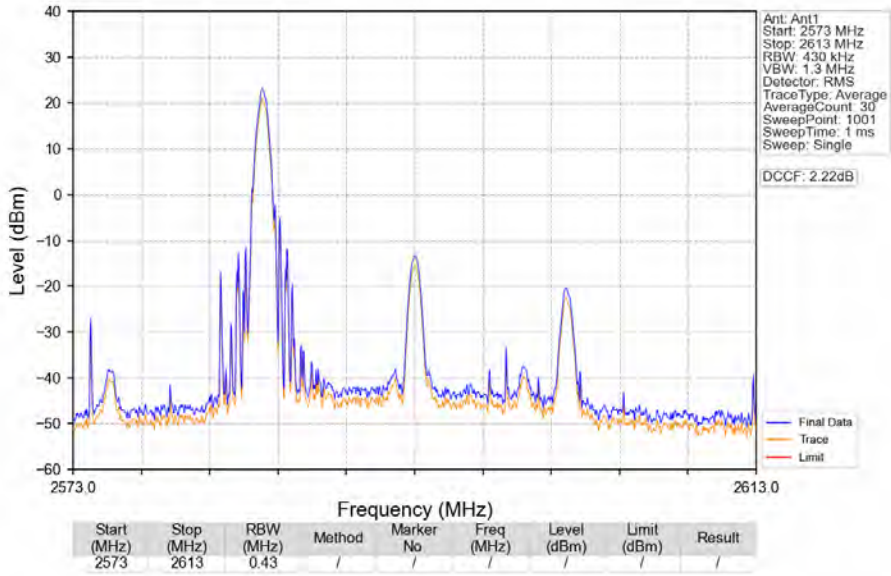


Band41_20MHz_16QAM_LCH_2506MHz_RB_100_0_NTNV

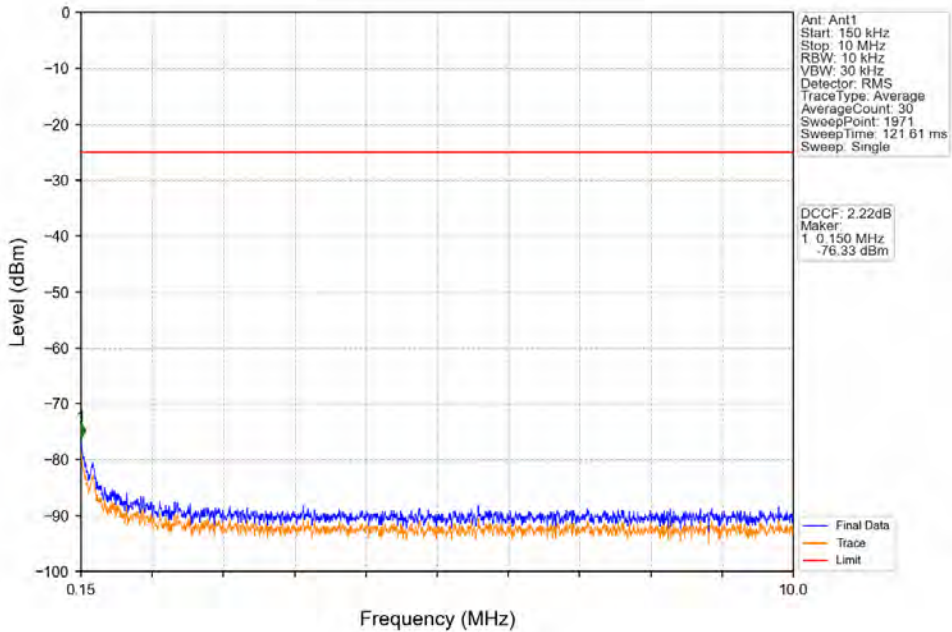


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2485 | 2495 | 1 | CHP | 1 | 2494.348 | -29.03 | -13 | Pass |
| 2495 | 2496 | 0.43 | / | 2 | 2495.906 | -29.66 | -13 | Pass |
| 2496 | 2526 | 0.43 | / | / | / | / | / | / |

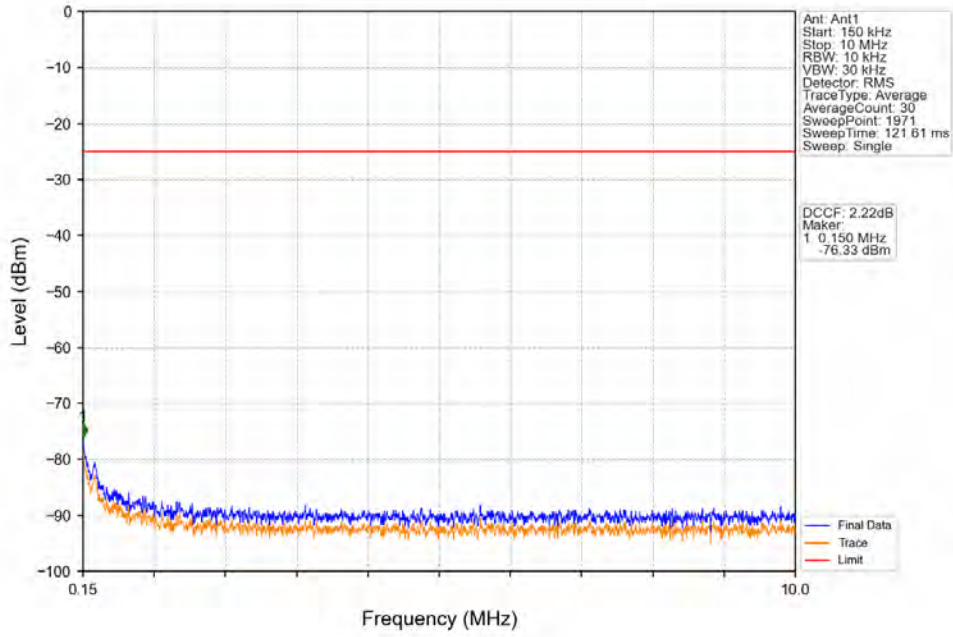
Band41_20MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



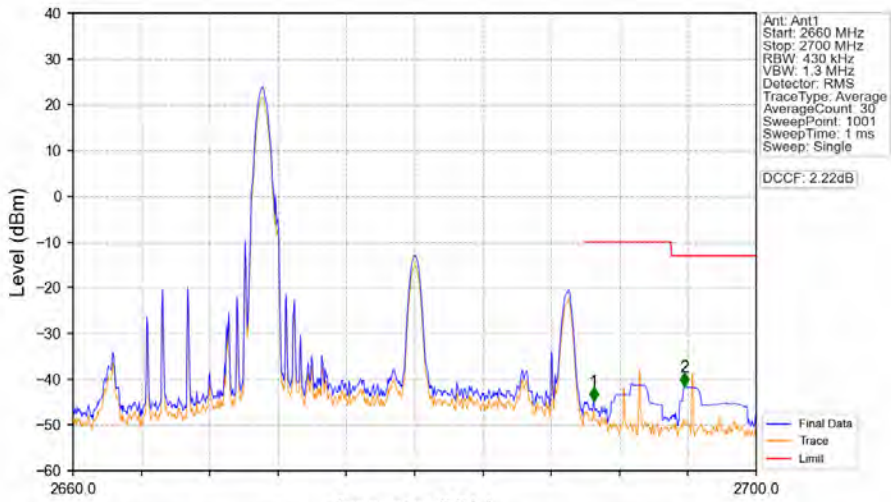
Band41_20MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



Band41_20MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV

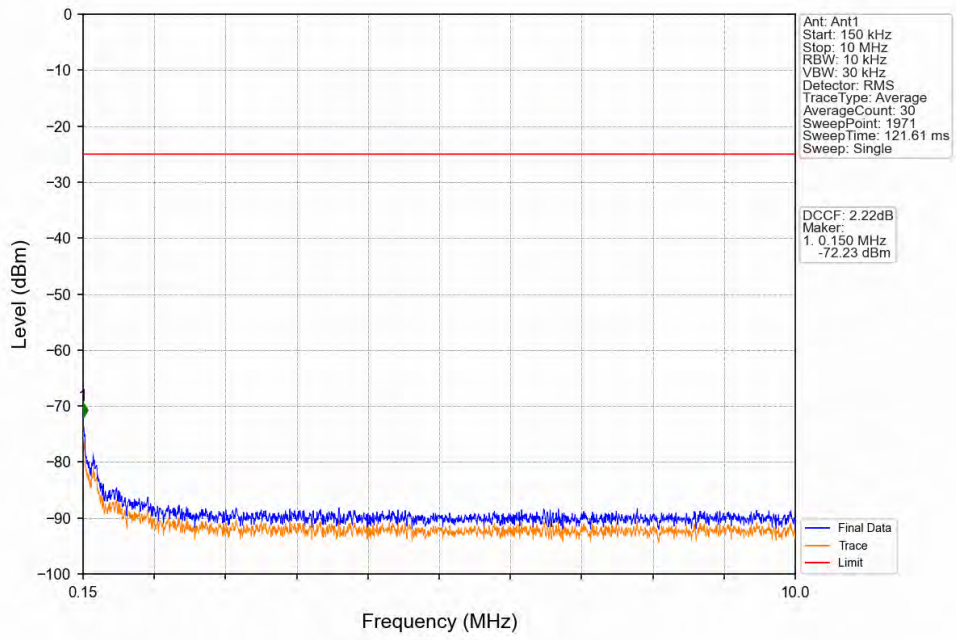


Band41_20MHz_16QAM_HCH_2680MHz_RB_1_0_NTNV

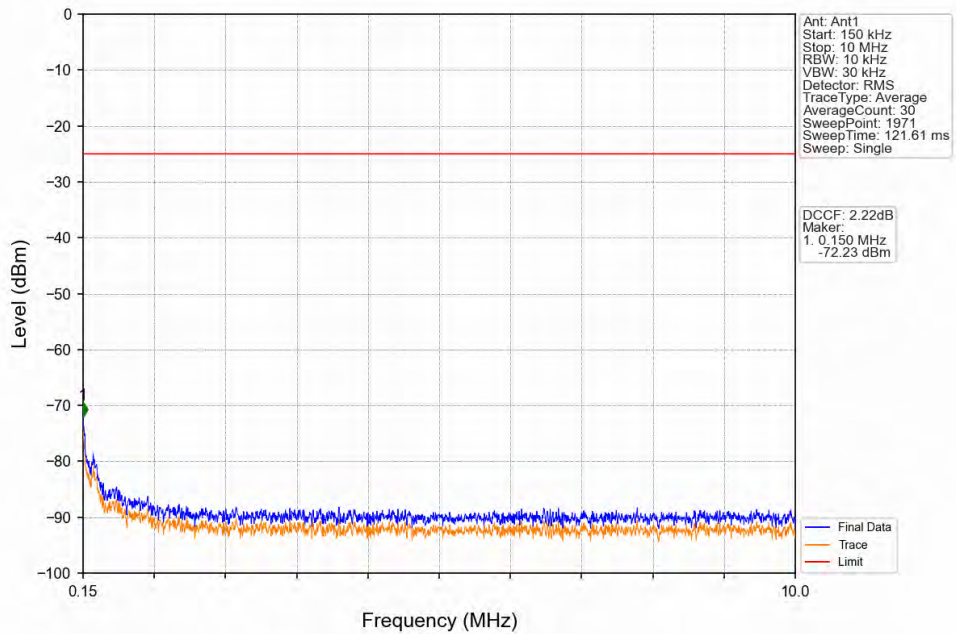


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 2660 | 2690 | 0.43 | / | / | / | / | / | / |
| 2690 | 2691 | 0.43 | / | 1 | 2690.480 | -44.83 | -10 | Pass |
| 2691 | 2700 | 1 | CHP | 2 | 2695.800 | -41.68 | -13 | Pass |

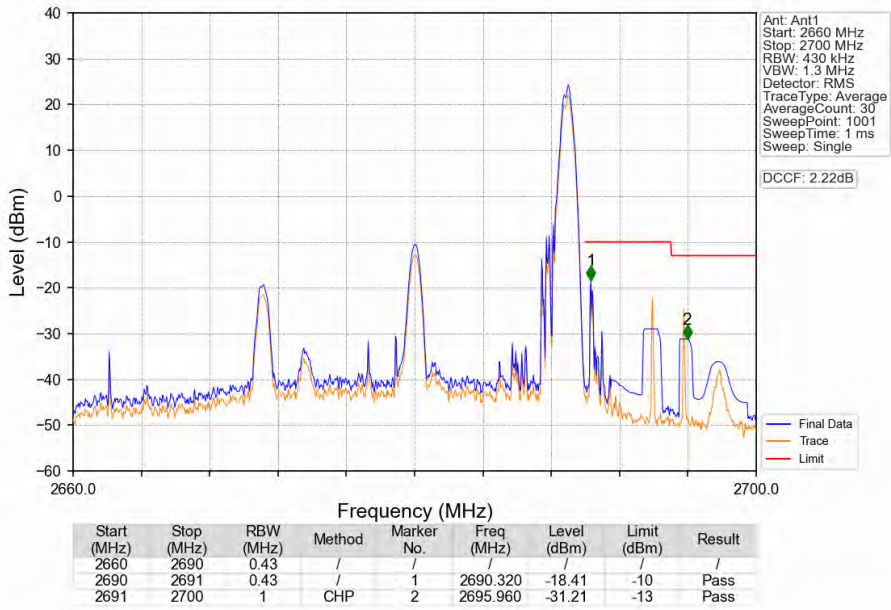
Band41_20MHz_16QAM_HCH_2680MHz_RB_1_0_NTNV



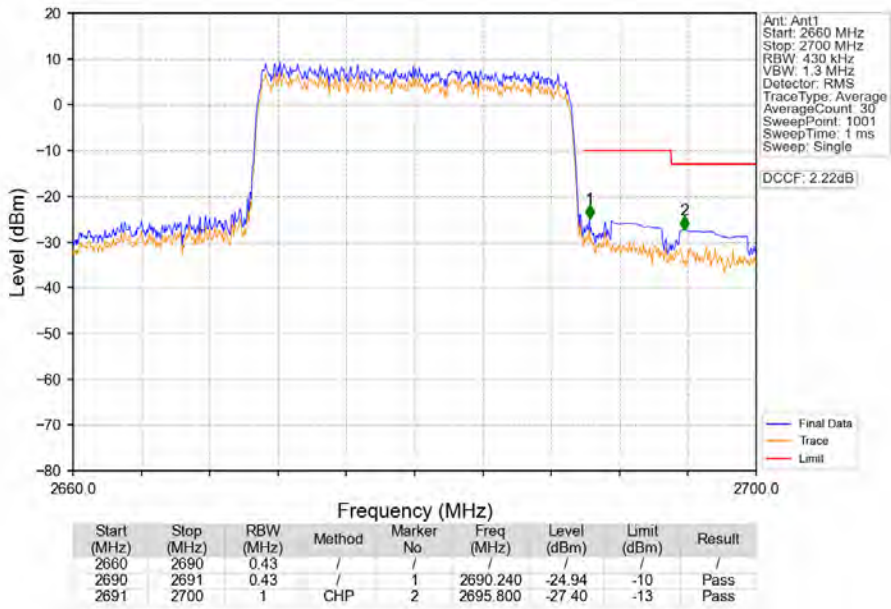
Band41_20MHz_16QAM_HCH_2680MHz_RB_1_0_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_1_99_NTNV



Band41_20MHz_16QAM_HCH_2680MHz_RB_100_0_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 41 | 5 | 2498.5 | 2687.5 | 0.3475 | 0.0269 | ppm | 4M55G7D | 27M | 25.41 |
| 41 | 5 | 2498.5 | 2687.5 | 0.2564 | 0.0154 | ppm | 4M57W7D | 27M | 24.09 |
| 41 | 10 | 2501 | 2685 | 0.3412 | 0.0072 | ppm | 9M06G7D | 27M | 25.33 |
| 41 | 10 | 2501 | 2685 | 0.2489 | 0.0073 | ppm | 9M07W7D | 27M | 23.96 |
| 41 | 15 | 2503.5 | 2682.5 | 0.3258 | 0.0082 | ppm | 13M6G7D | 27M | 25.13 |
| 41 | 15 | 2503.5 | 2682.5 | 0.2415 | 0.0064 | ppm | 13M7W7D | 27M | 23.83 |
| 41 | 20 | 2506 | 2680 | 0.3296 | 0.0075 | ppm | 18M2G7D | 27M | 25.18 |
| 41 | 20 | 2506 | 2680 | 0.2460 | 0.0064 | ppm | 18M1W7D | 27M | 23.91 |

7.2 Form731_EIRP

7.2.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 41 | 5 | 2498.5 | 2687.5 | 0.3475 | 0.0269 | ppm | 4M55G7D | 27M | 25.41 |
| 41 | 5 | 2498.5 | 2687.5 | 0.2564 | 0.0154 | ppm | 4M57W7D | 27M | 24.09 |
| 41 | 10 | 2501 | 2685 | 0.3412 | 0.0072 | ppm | 9M06G7D | 27M | 25.33 |
| 41 | 10 | 2501 | 2685 | 0.2489 | 0.0073 | ppm | 9M07W7D | 27M | 23.96 |
| 41 | 15 | 2503.5 | 2682.5 | 0.3258 | 0.0082 | ppm | 13M6G7D | 27M | 25.13 |
| 41 | 15 | 2503.5 | 2682.5 | 0.2415 | 0.0064 | ppm | 13M7W7D | 27M | 23.83 |
| 41 | 20 | 2506 | 2680 | 0.3296 | 0.0075 | ppm | 18M2G7D | 27M | 25.18 |
| 41 | 20 | 2506 | 2680 | 0.2460 | 0.0064 | ppm | 18M1W7D | 27M | 23.91 |