

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz / NTNV | | | | | | | | | | |
|-------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict | | |
| | | Size | Offset | | | Result | Limit | | | |
| QPSK | 699.7 | 1 | 0 | 23.77 | -3.6 | 18.02 | <=34.77 | Pass | | |
| | | | 2 | 23.88 | -3.6 | 18.13 | <=34.77 | Pass | | |
| | | | 5 | 23.80 | -3.6 | 18.05 | <=34.77 | Pass | | |
| | | 3 | 0 | 23.71 | -3.6 | 17.96 | <=34.77 | Pass | | |
| | | | 2 | 23.75 | -3.6 | 18 | <=34.77 | Pass | | |
| | | | 3 | 23.69 | -3.6 | 17.94 | <=34.77 | Pass | | |
| | | 6 | 0 | 22.74 | -3.6 | 16.99 | <=34.77 | Pass | | |
| | | 707.5 | 1 | 0 | 23.85 | -3.6 | 18.1 | <=34.77 | Pass | |
| | | | | 2 | 23.97 | -3.6 | 18.22 | <=34.77 | Pass | |
| | 5 | | | 23.87 | -3.6 | 18.12 | <=34.77 | Pass | | |
| | 3 | | 0 | 23.87 | -3.6 | 18.12 | <=34.77 | Pass | | |
| | | | 2 | 23.91 | -3.6 | 18.16 | <=34.77 | Pass | | |
| | | | 3 | 23.86 | -3.6 | 18.11 | <=34.77 | Pass | | |
| | 6 | | 0 | 22.95 | -3.6 | 17.2 | <=34.77 | Pass | | |
| | 715.3 | | 1 | 0 | 23.99 | -3.6 | 18.24 | <=34.77 | Pass | |
| | | | | 2 | 24.16 | -3.6 | 18.41 | <=34.77 | Pass | |
| | | 5 | | 24.06 | -3.6 | 18.31 | <=34.77 | Pass | | |
| | | 3 | 0 | 23.92 | -3.6 | 18.17 | <=34.77 | Pass | | |
| | | | 2 | 23.93 | -3.6 | 18.18 | <=34.77 | Pass | | |
| | | | 3 | 23.86 | -3.6 | 18.11 | <=34.77 | Pass | | |
| | | 6 | 0 | 23.09 | -3.6 | 17.34 | <=34.77 | Pass | | |
| | | 16QAM | 699.7 | 1 | 0 | 22.61 | -3.6 | 16.86 | <=34.77 | Pass |
| | | | | | 2 | 22.75 | -3.6 | 17 | <=34.77 | Pass |
| | 5 | | | | 22.72 | -3.6 | 16.97 | <=34.77 | Pass | |
| 3 | 0 | | | 22.71 | -3.6 | 16.96 | <=34.77 | Pass | | |
| | 2 | | | 22.74 | -3.6 | 16.99 | <=34.77 | Pass | | |
| | 3 | | | 22.75 | -3.6 | 17 | <=34.77 | Pass | | |
| 6 | 0 | | | 21.61 | -3.6 | 15.86 | <=34.77 | Pass | | |
| 707.5 | 1 | | | 0 | 22.90 | -3.6 | 17.15 | <=34.77 | Pass | |
| | | | | 2 | 23.02 | -3.6 | 17.27 | <=34.77 | Pass | |
| | | | 5 | 22.90 | -3.6 | 17.15 | <=34.77 | Pass | | |
| | 3 | | 0 | 22.77 | -3.6 | 17.02 | <=34.77 | Pass | | |
| | | | 2 | 22.79 | -3.6 | 17.04 | <=34.77 | Pass | | |
| | | | 3 | 22.77 | -3.6 | 17.02 | <=34.77 | Pass | | |
| | 6 | | 0 | 21.84 | -3.6 | 16.09 | <=34.77 | Pass | | |
| | 715.3 | | 1 | 0 | 22.78 | -3.6 | 17.03 | <=34.77 | Pass | |
| | | | | 2 | 22.87 | -3.6 | 17.12 | <=34.77 | Pass | |
| 5 | | | | 22.76 | -3.6 | 17.01 | <=34.77 | Pass | | |
| 3 | | | 0 | 22.97 | -3.6 | 17.22 | <=34.77 | Pass | | |
| | | | 2 | 22.99 | -3.6 | 17.24 | <=34.77 | Pass | | |
| | | | 3 | 22.95 | -3.6 | 17.2 | <=34.77 | Pass | | |
| 6 | | | 0 | 21.90 | -3.6 | 16.15 | <=34.77 | Pass | | |

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B12_3MHz_ERP

1.2.1 Test Result

| Band: 12 / Bandwidth: 3MHz / NTN | | | | | | | | | | |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict | | |
| | | Size | Offset | | | Result | Limit | | | |
| QPSK | 700.5 | 1 | 0 | 23.09 | -3.6 | 17.34 | <=34.77 | Pass | | |
| | | | 7 | 23.20 | -3.6 | 17.45 | <=34.77 | Pass | | |
| | | | 14 | 23.08 | -3.6 | 17.33 | <=34.77 | Pass | | |
| | | 8 | 0 | 22.08 | -3.6 | 16.33 | <=34.77 | Pass | | |
| | | | 4 | 22.09 | -3.6 | 16.34 | <=34.77 | Pass | | |
| | | | 7 | 22.05 | -3.6 | 16.3 | <=34.77 | Pass | | |
| | | 15 | 0 | 22.07 | -3.6 | 16.32 | <=34.77 | Pass | | |
| | | 707.5 | 1 | 0 | 23.12 | -3.6 | 17.37 | <=34.77 | Pass | |
| | | | | 7 | 23.26 | -3.6 | 17.51 | <=34.77 | Pass | |
| | 14 | | | 23.10 | -3.6 | 17.35 | <=34.77 | Pass | | |
| | 8 | | 0 | 22.18 | -3.6 | 16.43 | <=34.77 | Pass | | |
| | | | 4 | 22.19 | -3.6 | 16.44 | <=34.77 | Pass | | |
| | | | 7 | 22.13 | -3.6 | 16.38 | <=34.77 | Pass | | |
| | 15 | | 0 | 22.12 | -3.6 | 16.37 | <=34.77 | Pass | | |
| | 714.5 | | 1 | 0 | 23.08 | -3.6 | 17.33 | <=34.77 | Pass | |
| | | | | 7 | 23.26 | -3.6 | 17.51 | <=34.77 | Pass | |
| | | 14 | | 23.25 | -3.6 | 17.5 | <=34.77 | Pass | | |
| | | 8 | 0 | 22.12 | -3.6 | 16.37 | <=34.77 | Pass | | |
| | | | 4 | 22.23 | -3.6 | 16.48 | <=34.77 | Pass | | |
| | | | 7 | 22.26 | -3.6 | 16.51 | <=34.77 | Pass | | |
| | | 15 | 0 | 22.11 | -3.6 | 16.36 | <=34.77 | Pass | | |
| | | 16QAM | 700.5 | 1 | 0 | 22.07 | -3.6 | 16.32 | <=34.77 | Pass |
| | | | | | 7 | 22.22 | -3.6 | 16.47 | <=34.77 | Pass |
| | 14 | | | | 22.07 | -3.6 | 16.32 | <=34.77 | Pass | |
| 8 | 0 | | | 21.11 | -3.6 | 15.36 | <=34.77 | Pass | | |
| | 4 | | | 21.13 | -3.6 | 15.38 | <=34.77 | Pass | | |
| | 7 | | | 21.07 | -3.6 | 15.32 | <=34.77 | Pass | | |
| 15 | 0 | | | 21.10 | -3.6 | 15.35 | <=34.77 | Pass | | |
| 707.5 | 1 | | | 0 | 22.26 | -3.6 | 16.51 | <=34.77 | Pass | |
| | | | | 7 | 22.39 | -3.6 | 16.64 | <=34.77 | Pass | |
| | | | 14 | 22.29 | -3.6 | 16.54 | <=34.77 | Pass | | |
| | 8 | | 0 | 21.10 | -3.6 | 15.35 | <=34.77 | Pass | | |
| | | | 4 | 21.13 | -3.6 | 15.38 | <=34.77 | Pass | | |
| | | | 7 | 21.07 | -3.6 | 15.32 | <=34.77 | Pass | | |
| | 15 | | 0 | 21.05 | -3.6 | 15.3 | <=34.77 | Pass | | |
| | 714.5 | | 1 | 0 | 22.56 | -3.6 | 16.81 | <=34.77 | Pass | |
| | | | | 7 | 22.63 | -3.6 | 16.88 | <=34.77 | Pass | |
| 14 | | | | 22.44 | -3.6 | 16.69 | <=34.77 | Pass | | |
| 8 | | | 0 | 21.21 | -3.6 | 15.46 | <=34.77 | Pass | | |
| | | | 4 | 21.28 | -3.6 | 15.53 | <=34.77 | Pass | | |
| | | | 7 | 21.27 | -3.6 | 15.52 | <=34.77 | Pass | | |
| 15 | | | 0 | 21.11 | -3.6 | 15.36 | <=34.77 | Pass | | |

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.3 B12_5MHz_ERP

1.3.1 Test Result

| Band: 12 / Bandwidth: 5MHz / NTN | | | | | | |
|----------------------------------|-----------|---------------|-----------------|------|-----------|---------|
| Modulation | Frequency | RB Allocation | Conducted Power | Gain | ERP (dBm) | Verdict |

| | (MHz) | Size | Offset | (dBm) | (dBi) | Result | Limit | | | |
|--|-------|-------|--------|-------|-------|--------|---------|---------|---------|------|
| QPSK | 701.5 | 1 | 0 | 22.86 | -3.6 | 17.11 | <=34.77 | Pass | | |
| | | | 13 | 23.01 | -3.6 | 17.26 | <=34.77 | Pass | | |
| | | | 24 | 22.92 | -3.6 | 17.17 | <=34.77 | Pass | | |
| | | 12 | 0 | 22.00 | -3.6 | 16.25 | <=34.77 | Pass | | |
| | | | 6 | 22.05 | -3.6 | 16.3 | <=34.77 | Pass | | |
| | | | 13 | 22.03 | -3.6 | 16.28 | <=34.77 | Pass | | |
| | | 25 | 0 | 21.98 | -3.6 | 16.23 | <=34.77 | Pass | | |
| | | 707.5 | 1 | 0 | 22.89 | -3.6 | 17.14 | <=34.77 | Pass | |
| | | | | 13 | 23.04 | -3.6 | 17.29 | <=34.77 | Pass | |
| | 24 | | | 22.94 | -3.6 | 17.19 | <=34.77 | Pass | | |
| | 12 | | 0 | 22.00 | -3.6 | 16.25 | <=34.77 | Pass | | |
| | | | 6 | 22.07 | -3.6 | 16.32 | <=34.77 | Pass | | |
| | | | 13 | 21.94 | -3.6 | 16.19 | <=34.77 | Pass | | |
| | 25 | | 0 | 21.95 | -3.6 | 16.2 | <=34.77 | Pass | | |
| | 713.5 | | 1 | 0 | 22.90 | -3.6 | 17.15 | <=34.77 | Pass | |
| | | | | 13 | 23.01 | -3.6 | 17.26 | <=34.77 | Pass | |
| | | 24 | | 23.04 | -3.6 | 17.29 | <=34.77 | Pass | | |
| | | 12 | 0 | 22.05 | -3.6 | 16.3 | <=34.77 | Pass | | |
| | | | 6 | 22.07 | -3.6 | 16.32 | <=34.77 | Pass | | |
| | | | 13 | 22.17 | -3.6 | 16.42 | <=34.77 | Pass | | |
| | | 25 | 0 | 22.12 | -3.6 | 16.37 | <=34.77 | Pass | | |
| | | 16QAM | 701.5 | 1 | 0 | 21.95 | -3.6 | 16.2 | <=34.77 | Pass |
| | | | | | 13 | 22.09 | -3.6 | 16.34 | <=34.77 | Pass |
| | 24 | | | | 22.00 | -3.6 | 16.25 | <=34.77 | Pass | |
| 12 | 0 | | | 20.95 | -3.6 | 15.2 | <=34.77 | Pass | | |
| | 6 | | | 20.98 | -3.6 | 15.23 | <=34.77 | Pass | | |
| | 13 | | | 20.96 | -3.6 | 15.21 | <=34.77 | Pass | | |
| 25 | 0 | | | 20.97 | -3.6 | 15.22 | <=34.77 | Pass | | |
| 707.5 | 1 | | | 0 | 22.08 | -3.6 | 16.33 | <=34.77 | Pass | |
| | | | | 13 | 22.24 | -3.6 | 16.49 | <=34.77 | Pass | |
| | | | 24 | 22.20 | -3.6 | 16.45 | <=34.77 | Pass | | |
| | 12 | | 0 | 20.98 | -3.6 | 15.23 | <=34.77 | Pass | | |
| | | | 6 | 21.06 | -3.6 | 15.31 | <=34.77 | Pass | | |
| | | | 13 | 20.92 | -3.6 | 15.17 | <=34.77 | Pass | | |
| | 25 | | 0 | 20.92 | -3.6 | 15.17 | <=34.77 | Pass | | |
| | 713.5 | | 1 | 0 | 21.78 | -3.6 | 16.03 | <=34.77 | Pass | |
| | | | | 13 | 21.84 | -3.6 | 16.09 | <=34.77 | Pass | |
| 24 | | | | 21.77 | -3.6 | 16.02 | <=34.77 | Pass | | |
| 12 | | | 0 | 21.02 | -3.6 | 15.27 | <=34.77 | Pass | | |
| | | | 6 | 21.03 | -3.6 | 15.28 | <=34.77 | Pass | | |
| | | | 13 | 21.10 | -3.6 | 15.35 | <=34.77 | Pass | | |
| 25 | | | 0 | 21.14 | -3.6 | 15.39 | <=34.77 | Pass | | |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | | | |

1.4 B12_10MHz_ERP

1.4.1 Test Result

| Band: 12 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 704 | 1 | 0 | 23.72 | -3.6 | 17.97 | <=34.77 | Pass |
| | | | 25 | 23.96 | -3.6 | 18.21 | <=34.77 | Pass |
| | | | 49 | 23.95 | -3.6 | 18.2 | <=34.77 | Pass |
| | | 25 | 0 | 23.06 | -3.6 | 17.31 | <=34.77 | Pass |

| | | | | | | | | | | |
|-------|-------|-----|----|-------|-------|-------|---------|---------|---------|------|
| | 707.5 | 50 | 13 | 22.88 | -3.6 | 17.13 | <=34.77 | Pass | | |
| | | | 25 | 23.09 | -3.6 | 17.34 | <=34.77 | Pass | | |
| | | | 0 | 23.07 | -3.6 | 17.32 | <=34.77 | Pass | | |
| | | 1 | 25 | 0 | 23.71 | -3.6 | 17.96 | <=34.77 | Pass | |
| | | | | 25 | 24.17 | -3.6 | 18.42 | <=34.77 | Pass | |
| | | | | 49 | 23.91 | -3.6 | 18.16 | <=34.77 | Pass | |
| | | | 50 | 0 | 22.78 | -3.6 | 17.03 | <=34.77 | Pass | |
| | | | | 13 | 22.89 | -3.6 | 17.14 | <=34.77 | Pass | |
| | | | | 25 | 22.94 | -3.6 | 17.19 | <=34.77 | Pass | |
| | 711 | 50 | 0 | 22.90 | -3.6 | 17.15 | <=34.77 | Pass | | |
| | | | 1 | 0 | 23.82 | -3.6 | 18.07 | <=34.77 | Pass | |
| | | | 25 | 24.10 | -3.6 | 18.35 | <=34.77 | Pass | | |
| | | 1 | 25 | 49 | 24.07 | -3.6 | 18.32 | <=34.77 | Pass | |
| | | | | 0 | 22.66 | -3.6 | 16.91 | <=34.77 | Pass | |
| | | | | 13 | 22.88 | -3.6 | 17.13 | <=34.77 | Pass | |
| | | | 50 | 25 | 22.68 | -3.6 | 16.93 | <=34.77 | Pass | |
| | | | | 0 | 22.72 | -3.6 | 16.97 | <=34.77 | Pass | |
| | | | | 1 | 0 | 22.59 | -3.6 | 16.84 | <=34.77 | Pass |
| | 16QAM | 704 | 1 | 25 | 22.97 | -3.6 | 17.22 | <=34.77 | Pass | |
| | | | | 49 | 22.79 | -3.6 | 17.04 | <=34.77 | Pass | |
| | | | | 0 | 22.05 | -3.6 | 16.3 | <=34.77 | Pass | |
| | | | 25 | 50 | 13 | 21.91 | -3.6 | 16.16 | <=34.77 | Pass |
| | | | | | 25 | 22.12 | -3.6 | 16.37 | <=34.77 | Pass |
| | | | | | 0 | 22.04 | -3.6 | 16.29 | <=34.77 | Pass |
| 1 | | | | 0 | 22.81 | -3.6 | 17.06 | <=34.77 | Pass | |
| | | | | 25 | 23.12 | -3.6 | 17.37 | <=34.77 | Pass | |
| | | | | 49 | 23.00 | -3.6 | 17.25 | <=34.77 | Pass | |
| 707.5 | | 25 | 0 | 21.74 | -3.6 | 15.99 | <=34.77 | Pass | | |
| | | | 13 | 21.87 | -3.6 | 16.12 | <=34.77 | Pass | | |
| | | | 25 | 21.92 | -3.6 | 16.17 | <=34.77 | Pass | | |
| | | | 50 | 0 | 21.85 | -3.6 | 16.1 | <=34.77 | Pass | |
| | | | 1 | 0 | 23.19 | -3.6 | 17.44 | <=34.77 | Pass | |
| | | | | 25 | 23.48 | -3.6 | 17.73 | <=34.77 | Pass | |
| | | 49 | | 23.28 | -3.6 | 17.53 | <=34.77 | Pass | | |
| | | 711 | 25 | 0 | 21.63 | -3.6 | 15.88 | <=34.77 | Pass | |
| | | | | 13 | 21.87 | -3.6 | 16.12 | <=34.77 | Pass | |
| 25 | | | | 21.68 | -3.6 | 15.93 | <=34.77 | Pass | | |
| 50 | | | 0 | 21.65 | -3.6 | 15.9 | <=34.77 | Pass | | |
| | | | 1 | 0 | 23.19 | -3.6 | 17.44 | <=34.77 | Pass | |
| | | | 25 | 23.48 | -3.6 | 17.73 | <=34.77 | Pass | | |

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz | | | | | | | | | | |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|-------------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 699.7 | 6 | 0 | 20 | 3.27 | -5.250 | -0.0075 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -7.110 | -0.0102 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -9.327 | -0.0133 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -8.698 | -0.0124 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -6.366 | -0.0091 | -2.5 to 2.5 | Pass |
| | | | | | -10 | 3.85 | -7.467 | -0.0107 | -2.5 to 2.5 | Pass |
| | | | | | 0 | 3.85 | -7.925 | -0.0113 | -2.5 to 2.5 | Pass |

| | | | | | | | | | | |
|-------|--------|---------|-------------|---------|-------------|---------|-------------|-------------|-------------|---------|
| | 707.5 | 6 | 0 | 10 | 3.85 | -9.899 | -0.0141 | -2.5 to 2.5 | Pass | |
| | | | | 30 | 3.85 | -7.210 | -0.0103 | -2.5 to 2.5 | Pass | |
| | | | | 40 | 3.85 | -8.426 | -0.0120 | -2.5 to 2.5 | Pass | |
| | | | | 50 | 3.85 | -3.891 | -0.0056 | -2.5 to 2.5 | Pass | |
| | | | | 20 | 3.27 | -9.913 | -0.0140 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -5.236 | -0.0074 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -0.572 | -0.0008 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -0.229 | -0.0003 | -2.5 to 2.5 | Pass | |
| | | | | -20 | 3.85 | -0.887 | -0.0013 | -2.5 to 2.5 | Pass | |
| | | | | -10 | 3.85 | -7.625 | -0.0108 | -2.5 to 2.5 | Pass | |
| | | | | 0 | 3.85 | -4.420 | -0.0062 | -2.5 to 2.5 | Pass | |
| | | | | 10 | 3.85 | -7.396 | -0.0105 | -2.5 to 2.5 | Pass | |
| | 30 | 3.85 | -3.076 | -0.0043 | -2.5 to 2.5 | Pass | | | | |
| | 40 | 3.85 | -2.246 | -0.0032 | -2.5 to 2.5 | Pass | | | | |
| | 50 | 3.85 | -2.575 | -0.0036 | -2.5 to 2.5 | Pass | | | | |
| | 715.3 | 6 | 0 | 20 | 3.27 | -7.167 | -0.0100 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -4.478 | -0.0063 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -2.031 | -0.0028 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -5.651 | -0.0079 | -2.5 to 2.5 | Pass | |
| | | | | -20 | 3.85 | -5.236 | -0.0073 | -2.5 to 2.5 | Pass | |
| | | | | -10 | 3.85 | -2.217 | -0.0031 | -2.5 to 2.5 | Pass | |
| | | | | 0 | 3.85 | -4.835 | -0.0068 | -2.5 to 2.5 | Pass | |
| | | | | 10 | 3.85 | -3.977 | -0.0056 | -2.5 to 2.5 | Pass | |
| | | | | 30 | 3.85 | -7.067 | -0.0099 | -2.5 to 2.5 | Pass | |
| | | | | 40 | 3.85 | -4.320 | -0.0060 | -2.5 to 2.5 | Pass | |
| | | | | 50 | 3.85 | -6.680 | -0.0093 | -2.5 to 2.5 | Pass | |
| | | | | 16QAM | 699.7 | 6 | 0 | 20 | 3.27 | -3.333 |
| | 3.85 | -3.333 | -0.0048 | | | | | | -2.5 to 2.5 | Pass |
| 4.43 | -7.524 | -0.0108 | -2.5 to 2.5 | | | | | | Pass | |
| -30 | 3.85 | -10.157 | -0.0145 | | | | | -2.5 to 2.5 | Pass | |
| -20 | 3.85 | -3.963 | -0.0057 | | | | | -2.5 to 2.5 | Pass | |
| -10 | 3.85 | -3.862 | -0.0055 | | | | | -2.5 to 2.5 | Pass | |
| 0 | 3.85 | -4.563 | -0.0065 | | | | | -2.5 to 2.5 | Pass | |
| 10 | 3.85 | -7.653 | -0.0109 | | | | | -2.5 to 2.5 | Pass | |
| 30 | 3.85 | -7.854 | -0.0112 | | | | | -2.5 to 2.5 | Pass | |
| 40 | 3.85 | -10.486 | -0.0150 | | | | | -2.5 to 2.5 | Pass | |
| 50 | 3.85 | -7.424 | -0.0106 | | | | | -2.5 to 2.5 | Pass | |
| 707.5 | 6 | 0 | 20 | | | | | 3.27 | 0.186 | 0.0003 |
| | | | | | 3.85 | -6.652 | -0.0094 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -9.956 | -0.0141 | -2.5 to 2.5 | Pass | |
| | | | -30 | | 3.85 | -10.357 | -0.0146 | -2.5 to 2.5 | Pass | |
| | | | -20 | | 3.85 | -9.227 | -0.0130 | -2.5 to 2.5 | Pass | |
| | | | -10 | | 3.85 | -4.306 | -0.0061 | -2.5 to 2.5 | Pass | |
| | | | 0 | | 3.85 | -8.368 | -0.0118 | -2.5 to 2.5 | Pass | |
| | | | 10 | | 3.85 | -6.881 | -0.0097 | -2.5 to 2.5 | Pass | |
| | | | 30 | | 3.85 | -3.791 | -0.0054 | -2.5 to 2.5 | Pass | |
| | | | 40 | | 3.85 | -6.924 | -0.0098 | -2.5 to 2.5 | Pass | |
| | | | 50 | | 3.85 | -6.881 | -0.0097 | -2.5 to 2.5 | Pass | |
| | | | 715.3 | | 6 | 0 | 20 | 3.27 | -4.320 | -0.0060 |
| 3.85 | -4.292 | -0.0060 | | | | | | -2.5 to 2.5 | Pass | |
| 4.43 | -7.854 | -0.0110 | | | | | | -2.5 to 2.5 | Pass | |
| -30 | 3.85 | -3.862 | | | | | -0.0054 | -2.5 to 2.5 | Pass | |
| -20 | 3.85 | -3.719 | | | | | -0.0052 | -2.5 to 2.5 | Pass | |
| -10 | 3.85 | -1.116 | | | | | -0.0016 | -2.5 to 2.5 | Pass | |
| 0 | 3.85 | -0.501 | | -0.0007 | | | -2.5 to 2.5 | Pass | | |
| 10 | 3.85 | -6.166 | | -0.0086 | | | -2.5 to 2.5 | Pass | | |
| 30 | 3.85 | -10.085 | | -0.0141 | | | -2.5 to 2.5 | Pass | | |
| 40 | 3.85 | -2.375 | | -0.0033 | | | -2.5 to 2.5 | Pass | | |
| 50 | 3.85 | -6.723 | | -0.0094 | | | -2.5 to 2.5 | Pass | | |

2.2 B12_3MHz

2.2.1 Test Result

| Band: 12 / Bandwidth: 3MHz | | | | | | | | | | |
|----------------------------|-----------------|---------------|---------|-------------|---------------|------------------|-----------------------|-------------|-------------|-------------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 700.5 | 15 | 0 | 20 | 3.27 | -6.294 | -0.0090 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -9.813 | -0.0140 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -8.955 | -0.0128 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -9.084 | -0.0130 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -6.723 | -0.0096 | -2.5 to 2.5 | Pass |
| | | | | | | -10 | 3.85 | -9.127 | -0.0130 | -2.5 to 2.5 |
| | | | | 0 | 3.85 | -9.384 | -0.0134 | -2.5 to 2.5 | Pass | |
| | | | | | 10 | 3.85 | -9.742 | -0.0139 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -4.792 | -0.0068 | -2.5 to 2.5 | Pass | |
| | 40 | 3.85 | -4.463 | -0.0064 | -2.5 to 2.5 | Pass | | | | |
| | 50 | 3.85 | -5.322 | -0.0076 | -2.5 to 2.5 | Pass | | | | |
| | 707.5 | 15 | 0 | 20 | 3.27 | -10.457 | -0.0148 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -5.336 | -0.0075 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -1.931 | -0.0027 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -1.574 | -0.0022 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -1.059 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | | | -10 | 3.85 | -1.345 | -0.0019 | -2.5 to 2.5 |
| | | | | 0 | 3.85 | -7.238 | -0.0102 | -2.5 to 2.5 | Pass | |
| | | | | | 10 | 3.85 | -4.048 | -0.0057 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -8.497 | -0.0120 | -2.5 to 2.5 | Pass | |
| | 40 | 3.85 | -7.954 | -0.0112 | -2.5 to 2.5 | Pass | | | | |
| | 50 | 3.85 | -5.450 | -0.0077 | -2.5 to 2.5 | Pass | | | | |
| | 714.5 | 15 | 0 | 20 | 3.27 | -5.665 | -0.0079 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -5.264 | -0.0074 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -0.615 | -0.0009 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -3.090 | -0.0043 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -6.952 | -0.0097 | -2.5 to 2.5 | Pass |
| -10 | | | | | | 3.85 | -6.781 | -0.0095 | -2.5 to 2.5 | Pass |
| 0 | | | | 3.85 | -3.247 | -0.0045 | -2.5 to 2.5 | Pass | | |
| | | | | 10 | 3.85 | -5.879 | -0.0082 | -2.5 to 2.5 | Pass | |
| 30 | | | | 3.85 | -3.219 | -0.0045 | -2.5 to 2.5 | Pass | | |
| 40 | 3.85 | -3.147 | -0.0044 | -2.5 to 2.5 | Pass | | | | | |
| 50 | 3.85 | -7.982 | -0.0112 | -2.5 to 2.5 | Pass | | | | | |
| 16QAM | 700.5 | 15 | 0 | 20 | 3.27 | -0.744 | -0.0011 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -0.172 | -0.0002 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -0.272 | -0.0004 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -0.815 | -0.0012 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -4.420 | -0.0063 | -2.5 to 2.5 | Pass |
| | | | | | | -10 | 3.85 | -1.817 | -0.0026 | -2.5 to 2.5 |
| | | | | 0 | 3.85 | -5.264 | -0.0075 | -2.5 to 2.5 | Pass | |
| | | | | | 10 | 3.85 | -5.350 | -0.0076 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -7.725 | -0.0110 | -2.5 to 2.5 | Pass | |
| | 40 | 3.85 | -11.816 | -0.0169 | -2.5 to 2.5 | Pass | | | | |
| | 50 | 3.85 | -11.544 | -0.0165 | -2.5 to 2.5 | Pass | | | | |
| | 707.5 | 15 | 0 | 20 | 3.27 | -6.137 | -0.0087 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | -2.017 | -0.0029 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | -4.950 | -0.0070 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
| | | | | -10 | 3.85 | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -4.549 | -0.0064 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -3.333 | -0.0047 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.591 | -0.0051 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.117 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -3.791 | -0.0054 | -2.5 to 2.5 | Pass |
| | 714.5 | 15 | 0 | 20 | 3.27 | -3.290 | -0.0046 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -4.592 | -0.0064 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -5.364 | -0.0075 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -9.356 | -0.0131 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.888 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -4.964 | -0.0069 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.346 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.661 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.433 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -7.339 | -0.0103 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -6.924 | -0.0097 | -2.5 to 2.5 | Pass |

2.3 B12_5MHz

2.3.1 Test Result

| Band: 12 / Bandwidth: 5MHz | | | | | | | | | |
|----------------------------|-----------------|---------------|---------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 701.5 | 25 | 0 | 20 | 3.27 | -2.117 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.945 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -3.991 | -0.0057 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.847 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -4.377 | -0.0062 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.273 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -4.263 | -0.0061 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -8.054 | -0.0115 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -8.411 | -0.0120 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -7.610 | -0.0108 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.406 | -0.0063 | -2.5 to 2.5 | Pass |
| | | | | 707.5 | 25 | 0 | 20 | 3.27 | -6.194 |
| | 3.85 | -4.864 | -0.0069 | | | | | -2.5 to 2.5 | Pass |
| | 4.43 | -4.263 | -0.0060 | | | | | -2.5 to 2.5 | Pass |
| | -30 | 3.85 | -6.108 | | | | -0.0086 | -2.5 to 2.5 | Pass |
| | -20 | 3.85 | -6.824 | | | | -0.0096 | -2.5 to 2.5 | Pass |
| | -10 | 3.85 | -2.947 | | | | -0.0042 | -2.5 to 2.5 | Pass |
| | 0 | 3.85 | -2.589 | | | | -0.0037 | -2.5 to 2.5 | Pass |
| | 10 | 3.85 | -1.402 | | | | -0.0020 | -2.5 to 2.5 | Pass |
| | 30 | 3.85 | -2.561 | | | | -0.0036 | -2.5 to 2.5 | Pass |
| | 40 | 3.85 | -2.589 | | | | -0.0037 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | 1.187 | | | | 0.0017 | -2.5 to 2.5 | Pass |
| | 713.5 | 25 | 0 | | | | 20 | 3.27 | -6.237 |
| | | | | 3.85 | -5.751 | -0.0081 | | -2.5 to 2.5 | Pass |
| | | | | 4.43 | -5.765 | -0.0081 | | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.874 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.988 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -7.825 | -0.0110 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -7.510 | -0.0105 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -6.552 | -0.0092 | -2.5 to 2.5 | Pass |
| 30 | | | | 3.85 | -2.861 | -0.0040 | -2.5 to 2.5 | Pass | |
| 40 | | | | 3.85 | -8.497 | -0.0119 | -2.5 to 2.5 | Pass | |

| | | | | | | | | | |
|-------|-------|--------|---------|-------------|-------------|---------|-------------|-------------|-------------|
| 16QAM | 701.5 | 25 | 0 | 50 | 3.85 | -7.496 | -0.0105 | -2.5 to 2.5 | Pass |
| | | | | 20 | 3.27 | -3.791 | -0.0054 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.832 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | 20 | 4.43 | -9.255 | -0.0132 | -2.5 to 2.5 | Pass |
| | | | | | -30 | 3.85 | -9.370 | -0.0134 | -2.5 to 2.5 |
| | | | | -20 | 3.85 | -9.069 | -0.0129 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -6.623 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -5.407 | -0.0077 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -5.121 | -0.0073 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -4.721 | -0.0067 | -2.5 to 2.5 | Pass |
| | 40 | 3.85 | -4.764 | -0.0068 | -2.5 to 2.5 | Pass | | | |
| | 50 | 3.85 | -5.593 | -0.0080 | -2.5 to 2.5 | Pass | | | |
| | 707.5 | 25 | 0 | 20 | 3.27 | -7.982 | -0.0113 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -8.411 | -0.0119 | -2.5 to 2.5 | Pass |
| | | | | 20 | 4.43 | -9.799 | -0.0139 | -2.5 to 2.5 | Pass |
| | | | | | -30 | 3.85 | -8.097 | -0.0114 | -2.5 to 2.5 |
| | | | | -20 | 3.85 | -8.311 | -0.0117 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -8.540 | -0.0121 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -7.510 | -0.0106 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -7.024 | -0.0099 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -9.785 | -0.0138 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -10.157 | -0.0144 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -9.270 | -0.0131 | -2.5 to 2.5 | Pass | | | |
| | 713.5 | 25 | 0 | 20 | 3.27 | -4.992 | -0.0070 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.503 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | 20 | 4.43 | -3.419 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | | -30 | 3.85 | -3.104 | -0.0044 | -2.5 to 2.5 |
| | | | | -20 | 3.85 | -13.103 | -0.0184 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -6.838 | -0.0096 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -9.670 | -0.0136 | -2.5 to 2.5 | Pass |
| 10 | | | | 3.85 | -9.627 | -0.0135 | -2.5 to 2.5 | Pass | |
| 30 | | | | 3.85 | -10.471 | -0.0147 | -2.5 to 2.5 | Pass | |
| 40 | | | | 3.85 | -11.172 | -0.0157 | -2.5 to 2.5 | Pass | |
| 50 | 3.85 | -8.197 | -0.0115 | -2.5 to 2.5 | Pass | | | | |

2.4 B12_10MHz

2.4.1 Test Result

| Band: 12 / Bandwidth: 10MHz | | | | | | | | | |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 704 | 50 | 0 | 20 | 3.27 | -8.440 | -0.0120 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -6.623 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -6.638 | -0.0094 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -4.621 | -0.0066 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.446 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.018 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.097 | -0.0115 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -5.908 | -0.0084 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.418 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -6.552 | -0.0093 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -7.982 | -0.0113 | -2.5 to 2.5 | Pass | | | |
| | 707.5 | 50 | 0 | 20 | 3.27 | -8.440 | -0.0119 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -9.456 | -0.0134 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -9.527 | -0.0135 | -2.5 to 2.5 | Pass |
| -30 | | | | 3.85 | -6.838 | -0.0097 | -2.5 to 2.5 | Pass | |

| | | | | | | | | | |
|-------|-------|------|--------|---------|-------------|-------------|---------|-------------|-------------|
| | | | | -20 | 3.85 | -7.324 | -0.0104 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -7.024 | -0.0099 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -8.254 | -0.0117 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -4.992 | -0.0071 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -4.549 | -0.0064 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -5.865 | -0.0083 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -4.778 | -0.0068 | -2.5 to 2.5 | Pass | | | |
| | 711 | 50 | 0 | 20 | 3.27 | -6.437 | -0.0091 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -6.437 | -0.0091 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -3.119 | -0.0044 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.689 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -3.662 | -0.0052 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.704 | -0.0038 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | -2.732 | -0.0038 | -2.5 to 2.5 | Pass | | |
| | | 10 | 3.85 | -3.905 | -0.0055 | -2.5 to 2.5 | Pass | | |
| | | 30 | 3.85 | -1.545 | -0.0022 | -2.5 to 2.5 | Pass | | |
| | | 40 | 3.85 | -1.574 | -0.0022 | -2.5 to 2.5 | Pass | | |
| | | 50 | 3.85 | -6.752 | -0.0095 | -2.5 to 2.5 | Pass | | |
| 16QAM | | 704 | 50 | 0 | 20 | 3.27 | -4.334 | -0.0062 | -2.5 to 2.5 |
| | 3.85 | | | | | -1.402 | -0.0020 | -2.5 to 2.5 | Pass |
| | 4.43 | | | | | -2.489 | -0.0035 | -2.5 to 2.5 | Pass |
| | -30 | | | | 3.85 | -3.061 | -0.0043 | -2.5 to 2.5 | Pass |
| | -20 | | | | 3.85 | -10.300 | -0.0146 | -2.5 to 2.5 | Pass |
| | -10 | | | | 3.85 | -8.140 | -0.0116 | -2.5 to 2.5 | Pass |
| | 0 | | 3.85 | -6.552 | -0.0093 | -2.5 to 2.5 | Pass | | |
| | 10 | | 3.85 | -6.909 | -0.0098 | -2.5 to 2.5 | Pass | | |
| | 30 | | 3.85 | -8.597 | -0.0122 | -2.5 to 2.5 | Pass | | |
| | 40 | | 3.85 | -4.721 | -0.0067 | -2.5 to 2.5 | Pass | | |
| | 50 | | 3.85 | -4.950 | -0.0070 | -2.5 to 2.5 | Pass | | |
| | 707.5 | | 50 | 0 | 20 | 3.27 | -0.544 | -0.0008 | -2.5 to 2.5 |
| | | 3.85 | | | | -9.670 | -0.0137 | -2.5 to 2.5 | Pass |
| | | 4.43 | | | | -8.483 | -0.0120 | -2.5 to 2.5 | Pass |
| | | -30 | | | 3.85 | -3.233 | -0.0046 | -2.5 to 2.5 | Pass |
| | | -20 | | | 3.85 | -2.346 | -0.0033 | -2.5 to 2.5 | Pass |
| | | -10 | | | 3.85 | -2.446 | -0.0035 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | -5.307 | -0.0075 | -2.5 to 2.5 | Pass | | |
| | | 10 | 3.85 | -5.465 | -0.0077 | -2.5 to 2.5 | Pass | | |
| | | 30 | 3.85 | -4.177 | -0.0059 | -2.5 to 2.5 | Pass | | |
| | | 40 | 3.85 | -3.777 | -0.0053 | -2.5 to 2.5 | Pass | | |
| | | 50 | 3.85 | -5.565 | -0.0079 | -2.5 to 2.5 | Pass | | |
| | | 711 | 50 | 0 | 20 | 3.27 | -7.367 | -0.0104 | -2.5 to 2.5 |
| | 3.85 | | | | | -7.410 | -0.0104 | -2.5 to 2.5 | Pass |
| | 4.43 | | | | | -6.466 | -0.0091 | -2.5 to 2.5 | Pass |
| | -30 | | | | 3.85 | -9.398 | -0.0132 | -2.5 to 2.5 | Pass |
| | -20 | | | | 3.85 | -9.270 | -0.0130 | -2.5 to 2.5 | Pass |
| | -10 | | | | 3.85 | -9.899 | -0.0139 | -2.5 to 2.5 | Pass |
| | 0 | | 3.85 | -9.212 | -0.0130 | -2.5 to 2.5 | Pass | | |
| | 10 | | 3.85 | -1.473 | -0.0021 | -2.5 to 2.5 | Pass | | |
| 30 | 3.85 | | -1.903 | -0.0027 | -2.5 to 2.5 | Pass | | | |
| 40 | 3.85 | | -2.217 | -0.0031 | -2.5 to 2.5 | Pass | | | |
| 50 | 3.85 | | -1.674 | -0.0024 | -2.5 to 2.5 | Pass | | | |

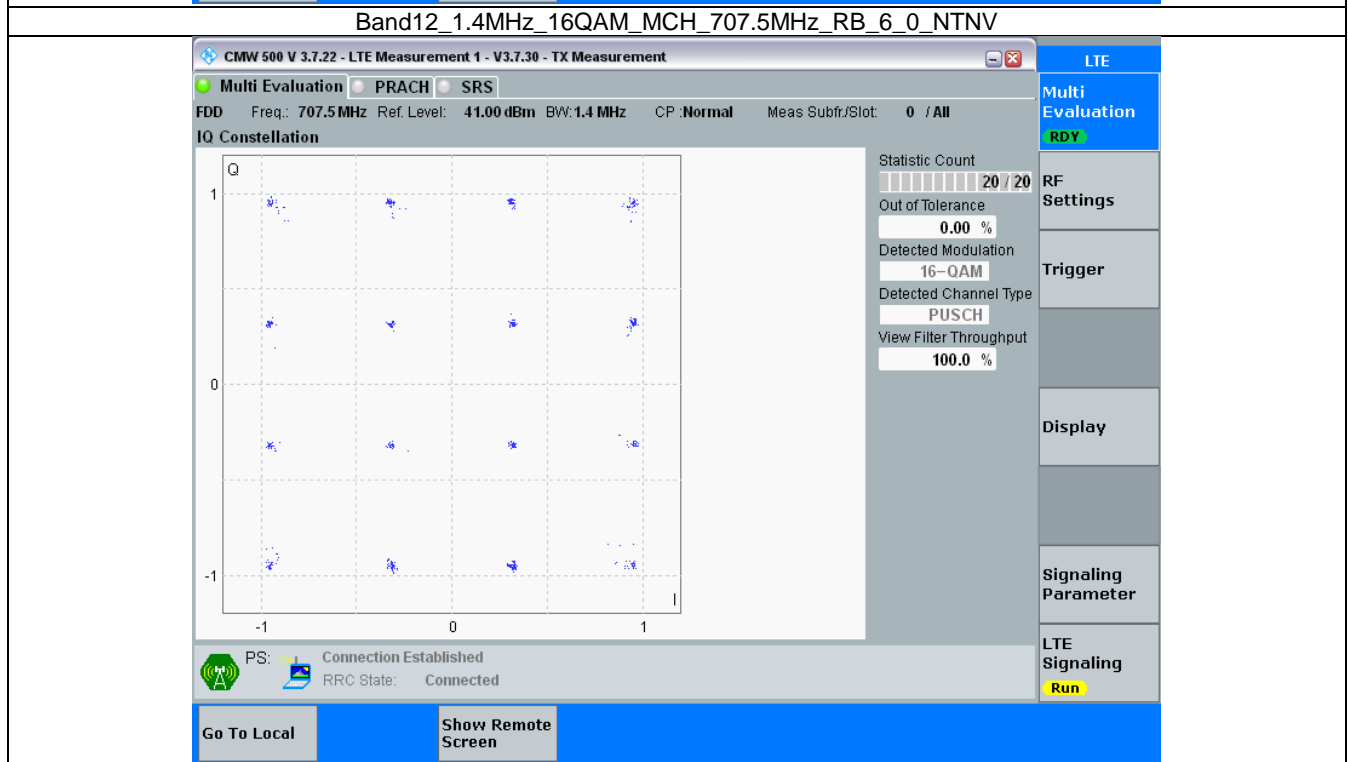
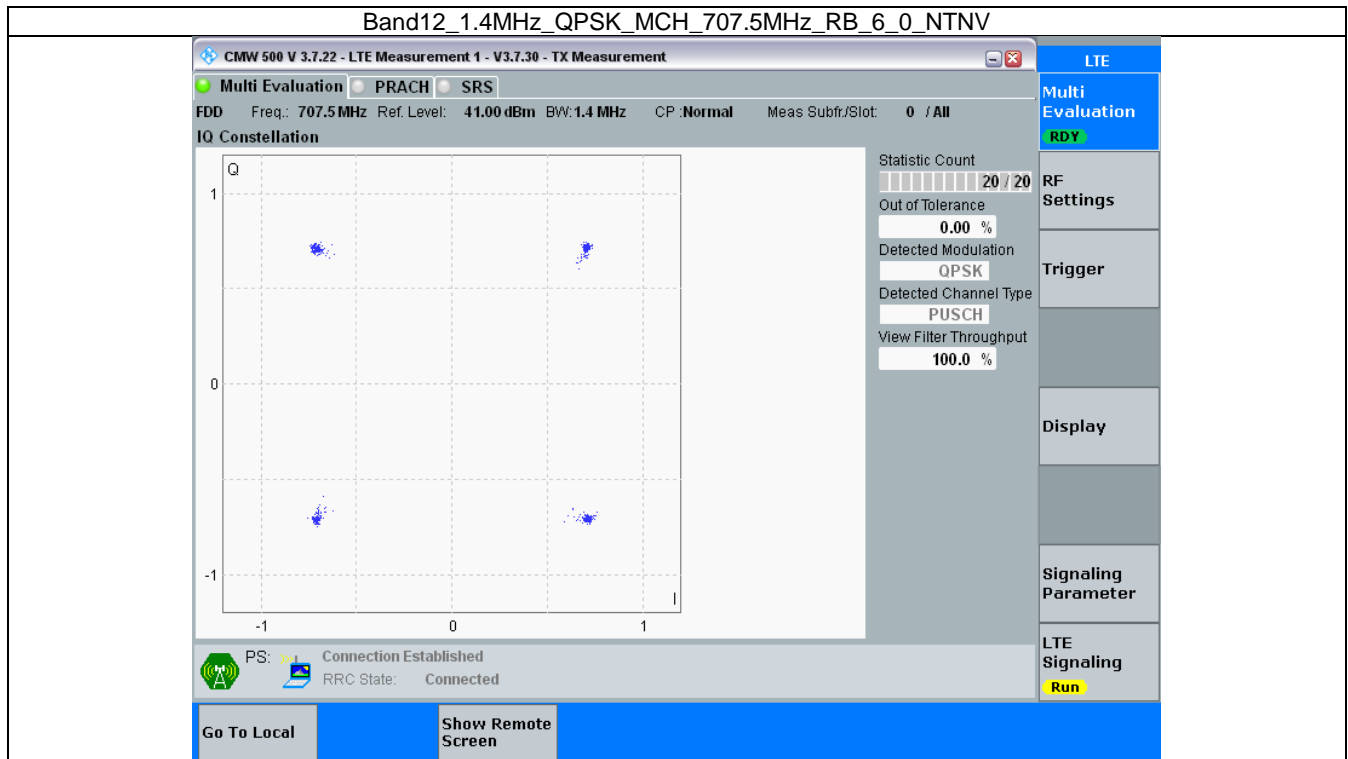
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz / NTN | | | | | | |
|------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 707.5 | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 707.5 | 6 | 0 | Refer To Test Graph | | Pass |

3.1.2 Test Graph

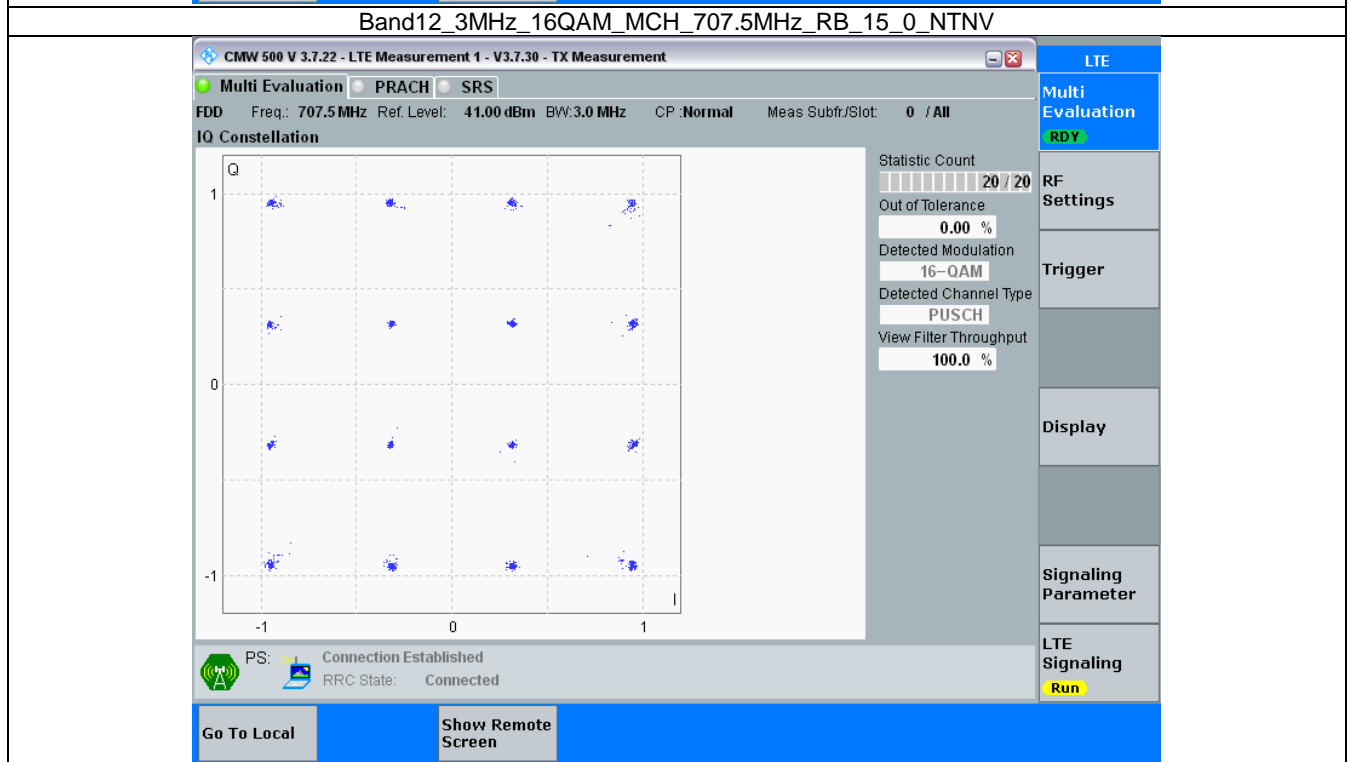
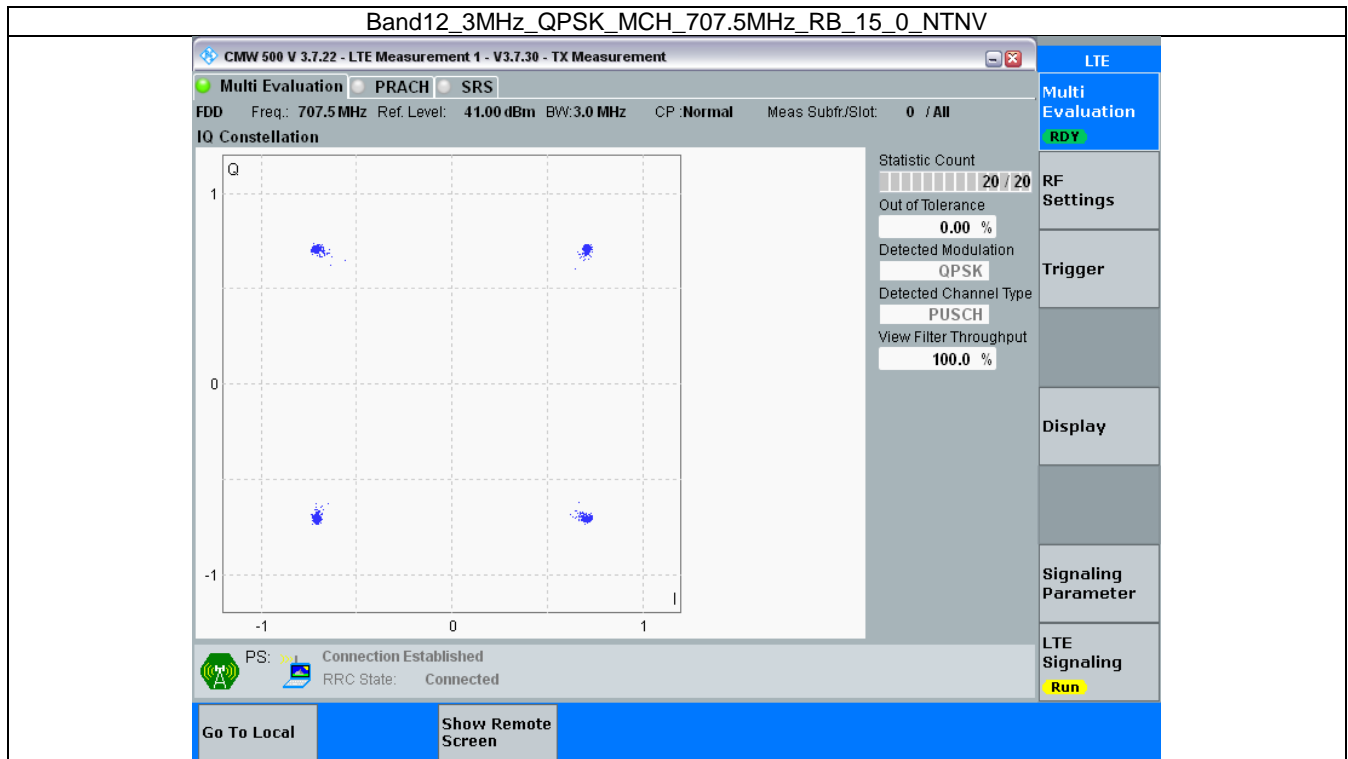


3.2 B12_3MHz

3.2.1 Test Result

| Band: 12 / Bandwidth: 3MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 707.5 | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 707.5 | 15 | 0 | Refer To Test Graph | | Pass |

3.2.2 Test Graph

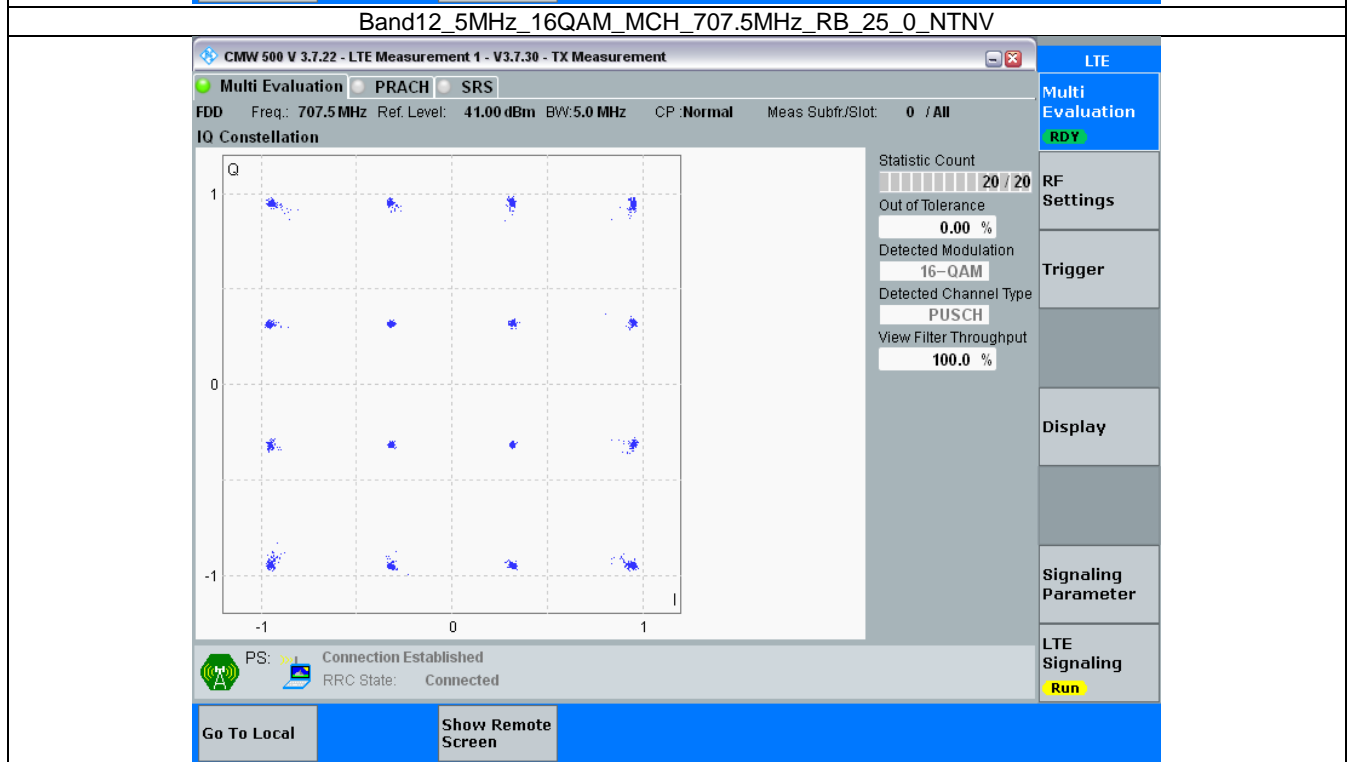
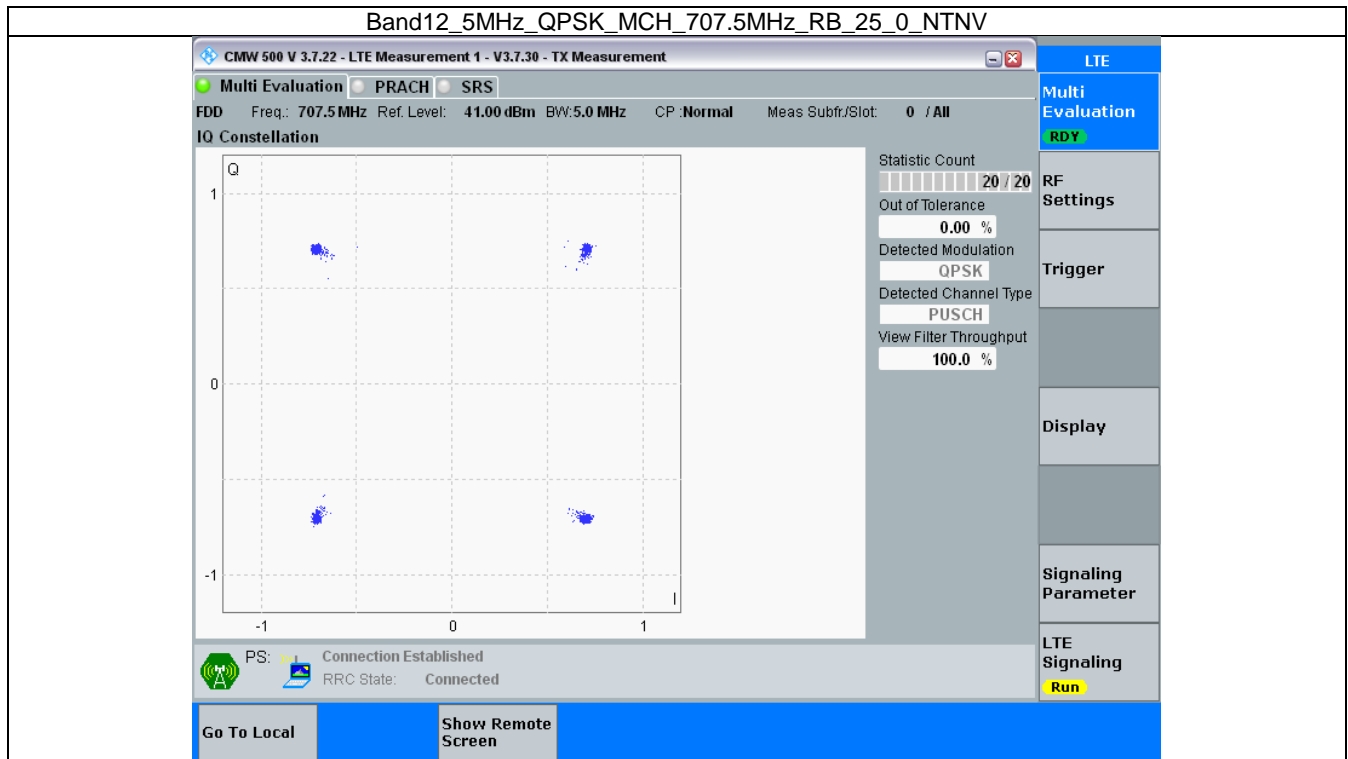


3.3 B12_5MHz

3.3.1 Test Result

| Band: 12 / Bandwidth: 5MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 707.5 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 707.5 | 25 | 0 | Refer To Test Graph | | Pass |

3.3.2 Test Graph

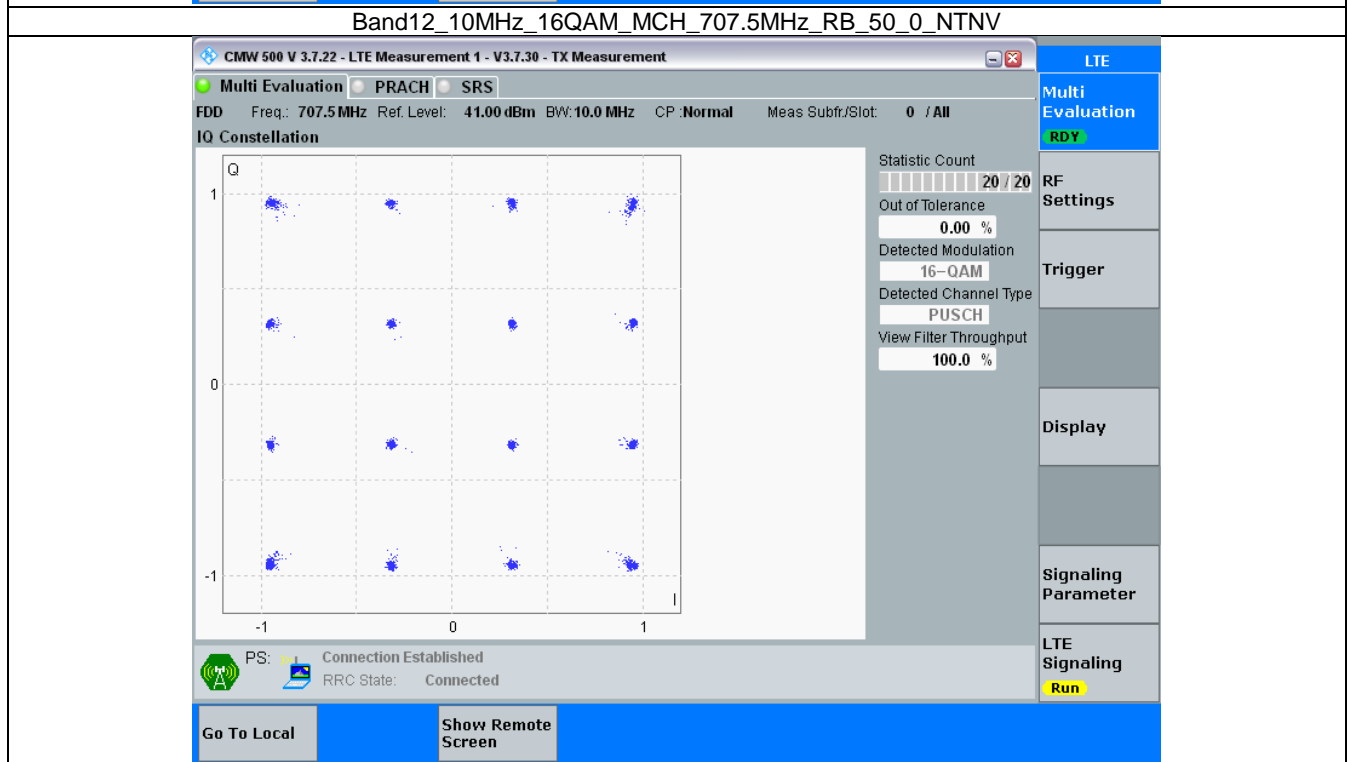
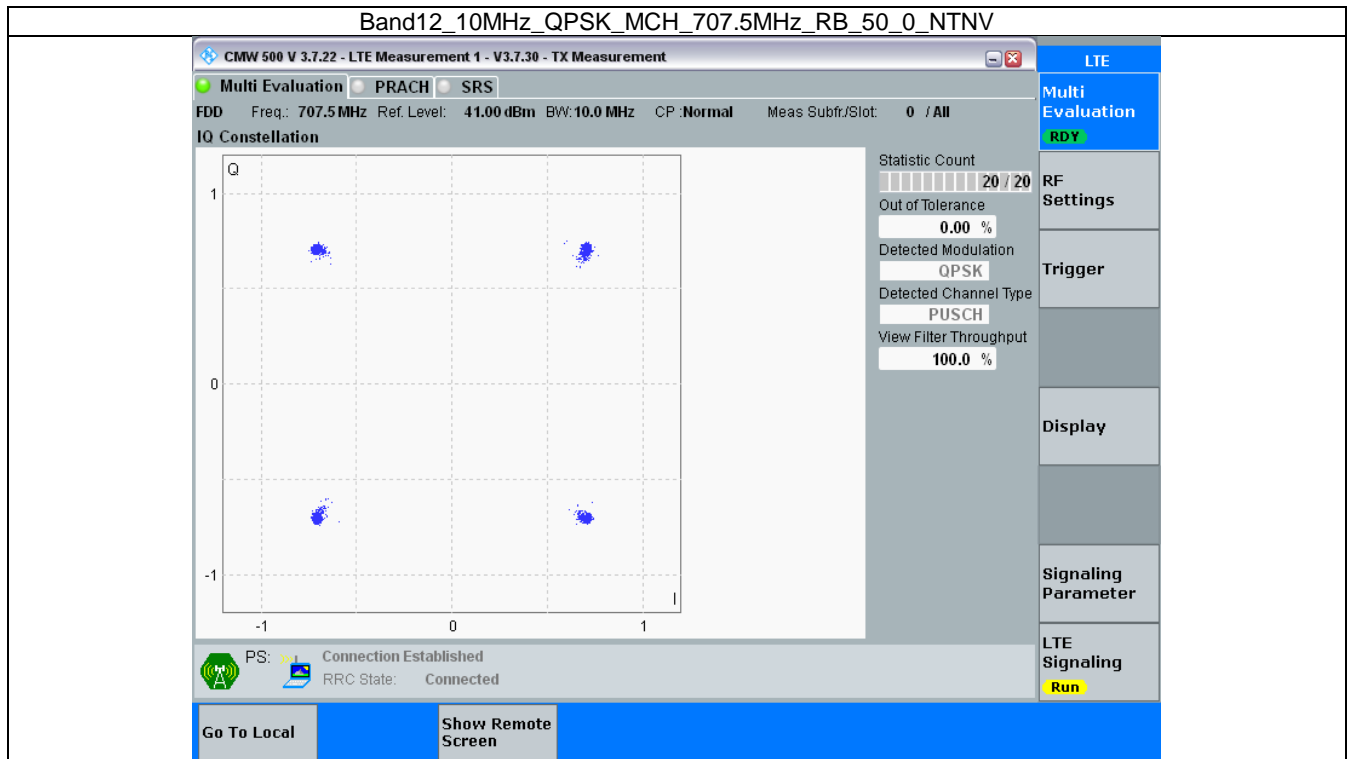


3.4 B12_10MHz

3.4.1 Test Result

| Band: 12 / Bandwidth: 10MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 707.5 | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 707.5 | 50 | 0 | Refer To Test Graph | | Pass |

3.4.2 Test Graph



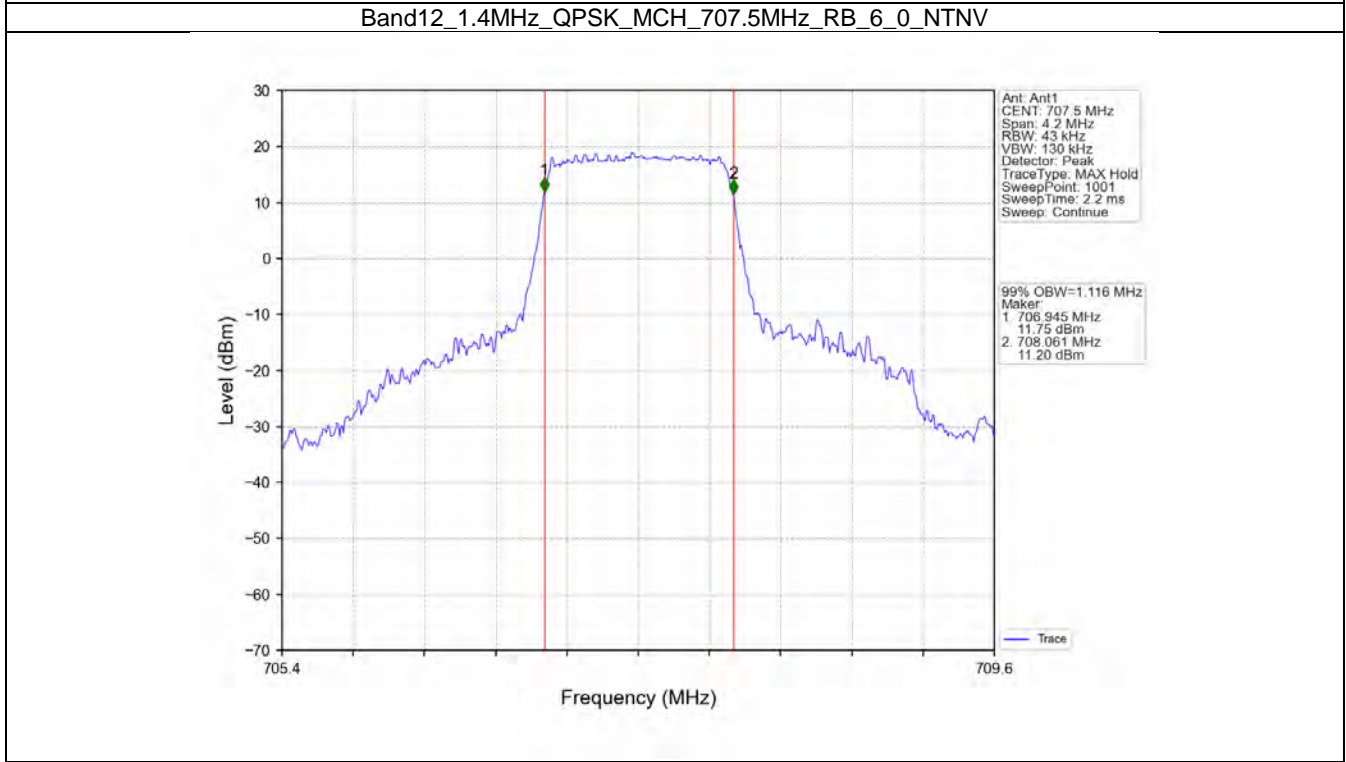
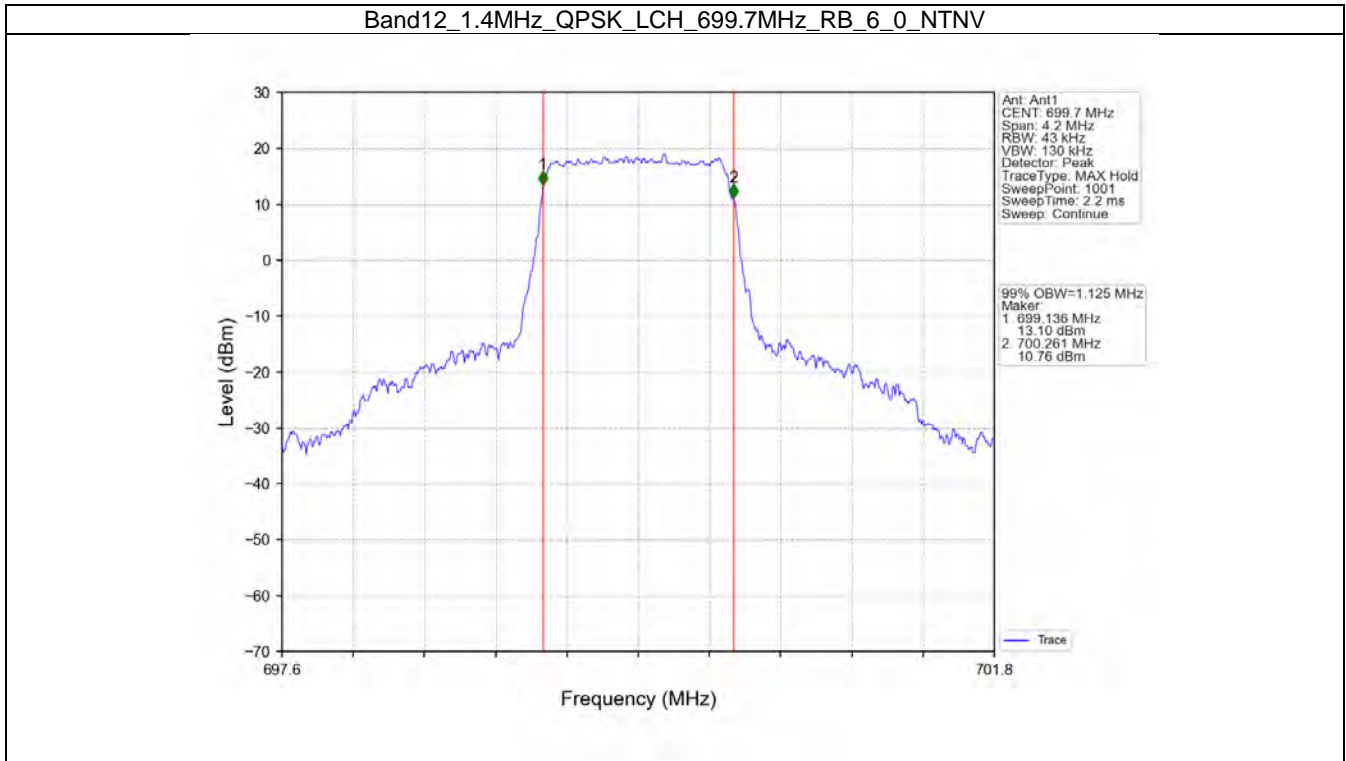
4. 99% & 26dB Bandwidth

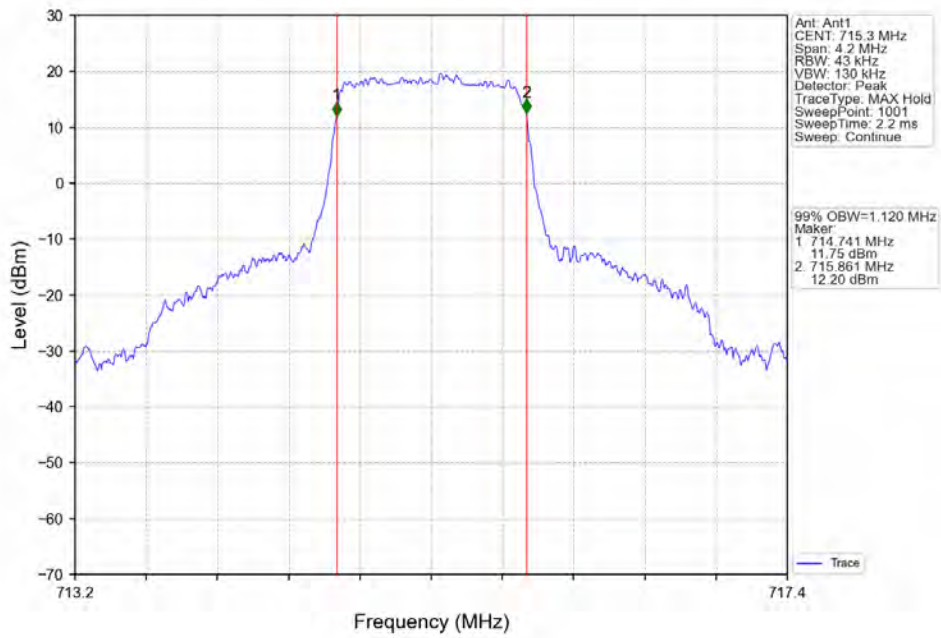
4.1 Band12_OBW

4.1.1 Test Result

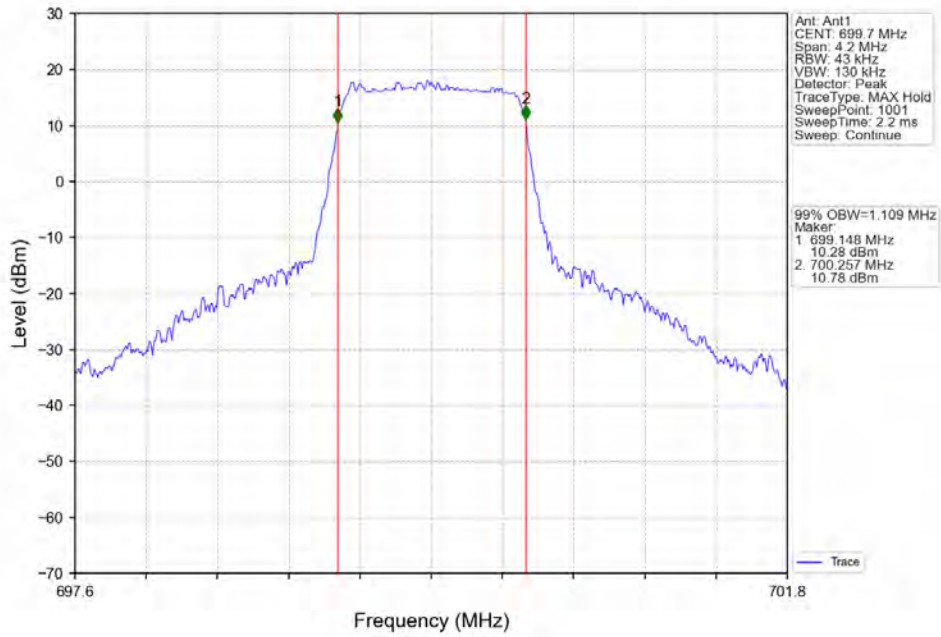
| Band: 12 / NTNV | | | | | | |
|-----------------|------------|-----------------|---------------|--------|------------------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 699.7 | 6 | 0 | 1.125 | Pass |
| | | 707.5 | 6 | 0 | 1.116 | Pass |
| | | 715.3 | 6 | 0 | 1.120 | Pass |
| | 16QAM | 699.7 | 6 | 0 | 1.109 | Pass |
| | | 707.5 | 6 | 0 | 1.101 | Pass |
| | | 715.3 | 6 | 0 | 1.115 | Pass |
| 3 | QPSK | 700.5 | 15 | 0 | 2.729 | Pass |
| | | 707.5 | 15 | 0 | 2.726 | Pass |
| | | 714.5 | 15 | 0 | 2.733 | Pass |
| | 16QAM | 700.5 | 15 | 0 | 2.719 | Pass |
| | | 707.5 | 15 | 0 | 2.728 | Pass |
| | | 714.5 | 15 | 0 | 2.735 | Pass |
| 5 | QPSK | 701.5 | 25 | 0 | 4.552 | Pass |
| | | 707.5 | 25 | 0 | 4.572 | Pass |
| | | 713.5 | 25 | 0 | 4.589 | Pass |
| | 16QAM | 701.5 | 25 | 0 | 4.578 | Pass |
| | | 707.5 | 25 | 0 | 4.577 | Pass |
| | | 713.5 | 25 | 0 | 4.577 | Pass |
| 10 | QPSK | 704 | 50 | 0 | 9.148 | Pass |
| | | 707.5 | 50 | 0 | 9.061 | Pass |
| | | 711 | 50 | 0 | 9.005 | Pass |
| | 16QAM | 704 | 50 | 0 | 9.126 | Pass |
| | | 707.5 | 50 | 0 | 9.072 | Pass |
| | | 711 | 50 | 0 | 9.024 | Pass |

4.1.2 Test Graph

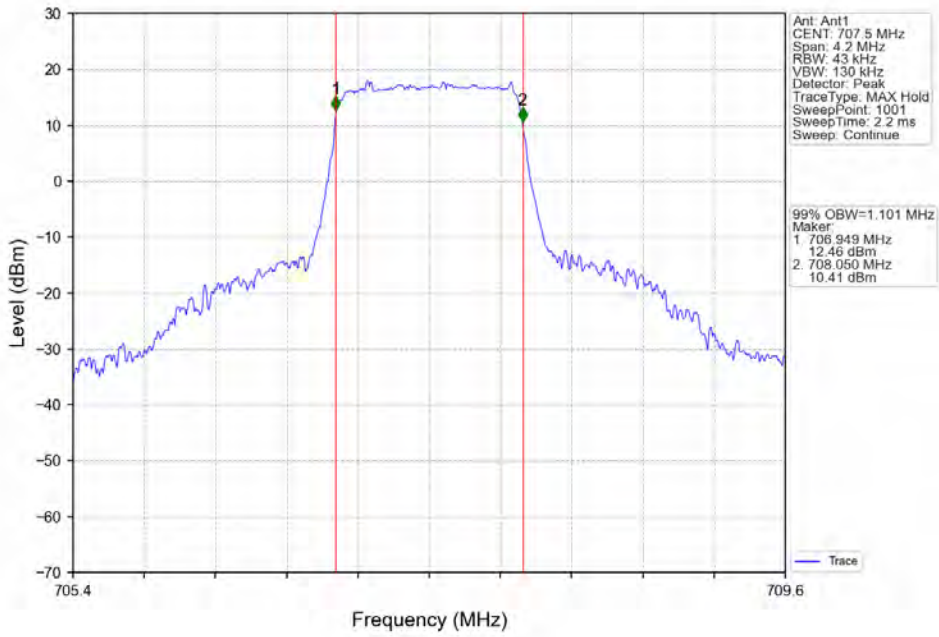




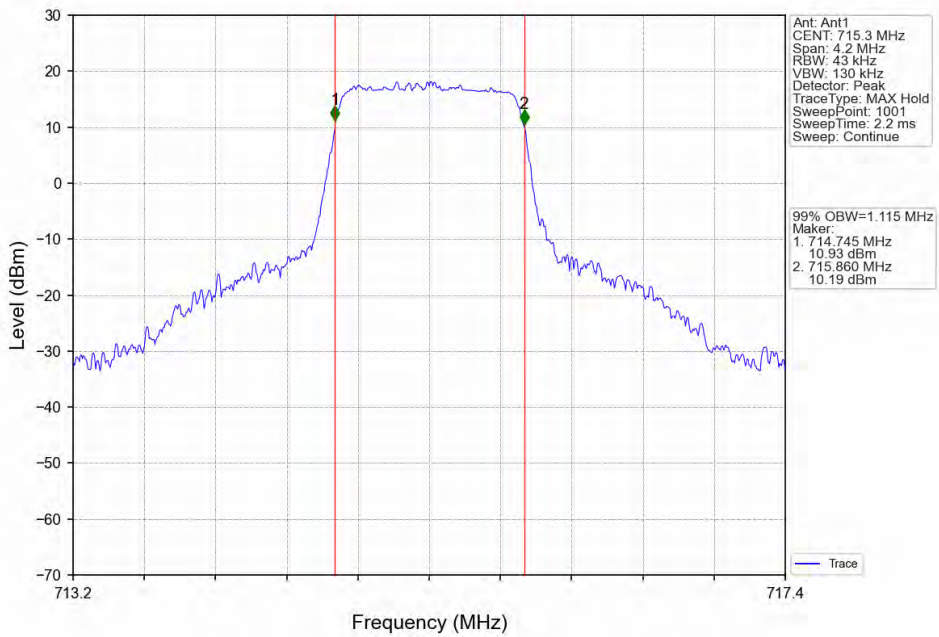
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



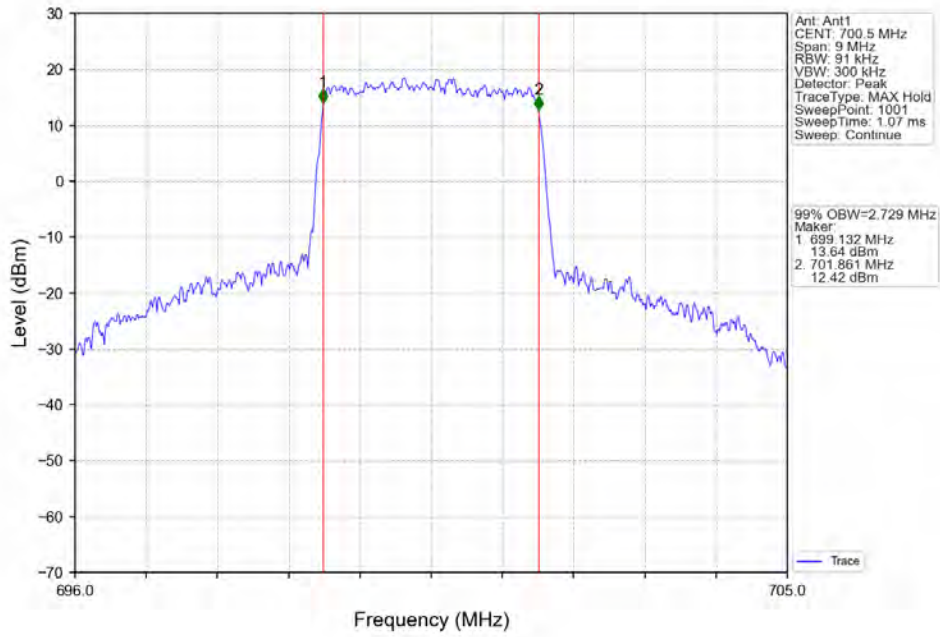
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



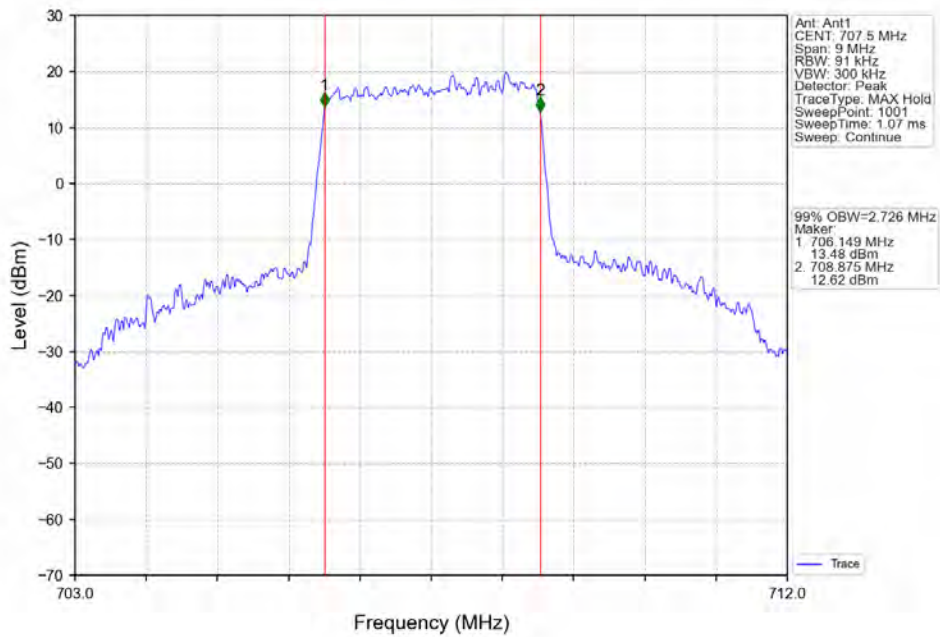
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



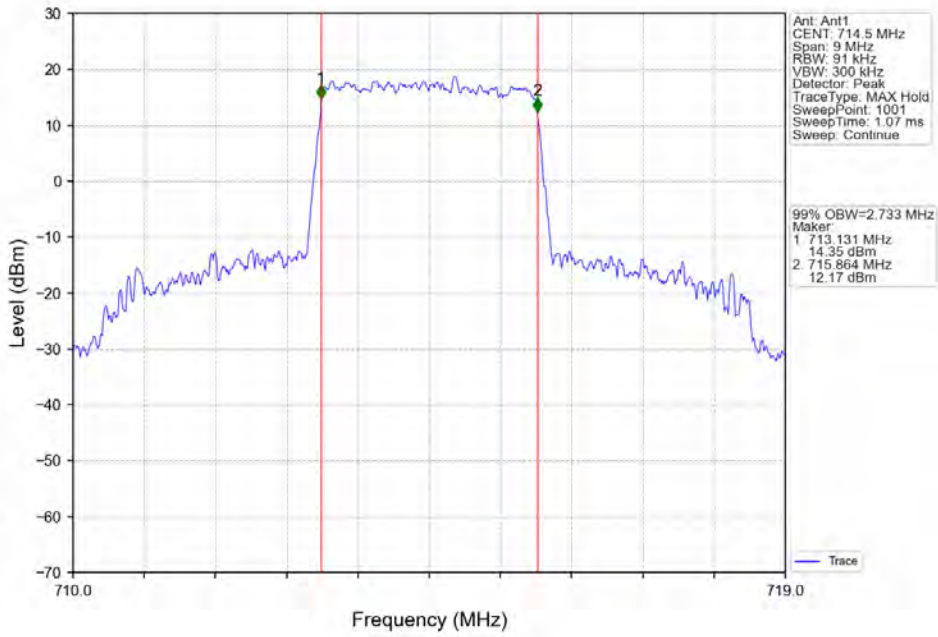
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



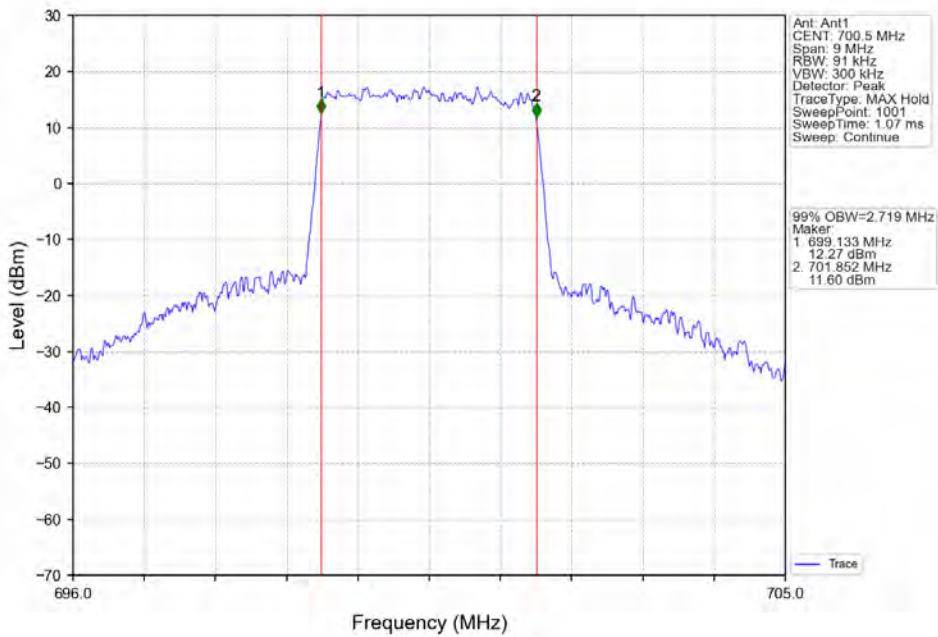
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



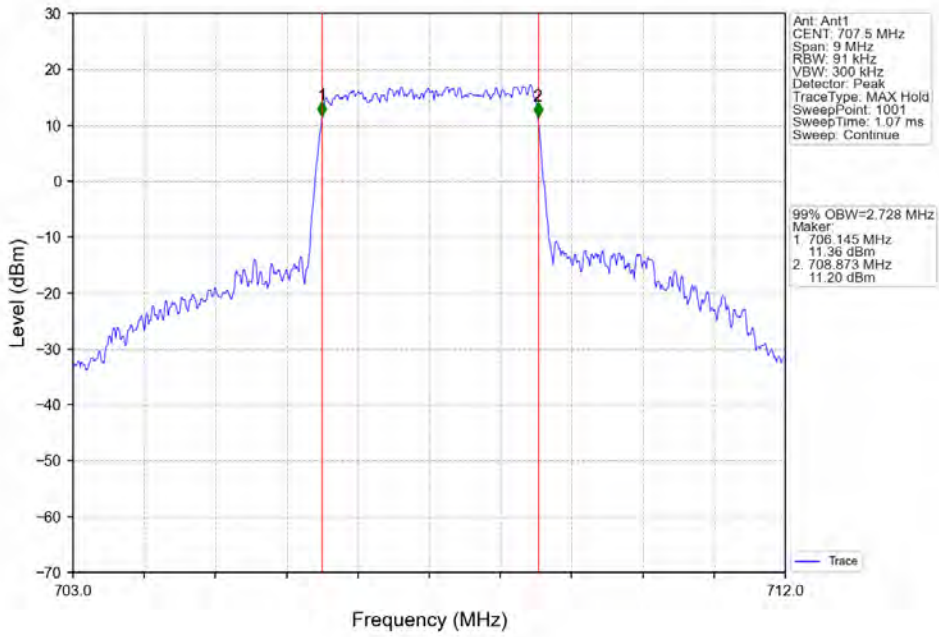
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



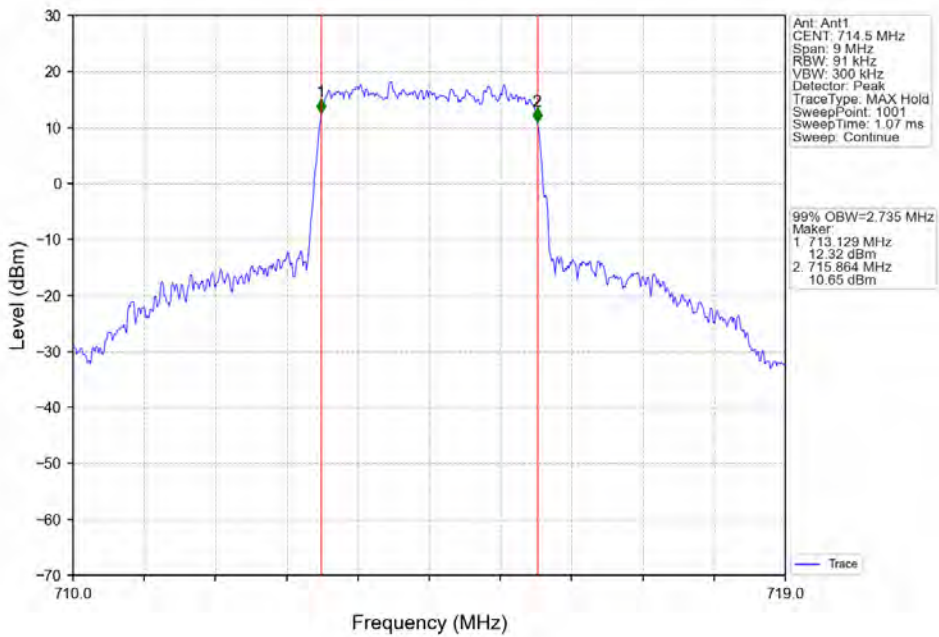
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



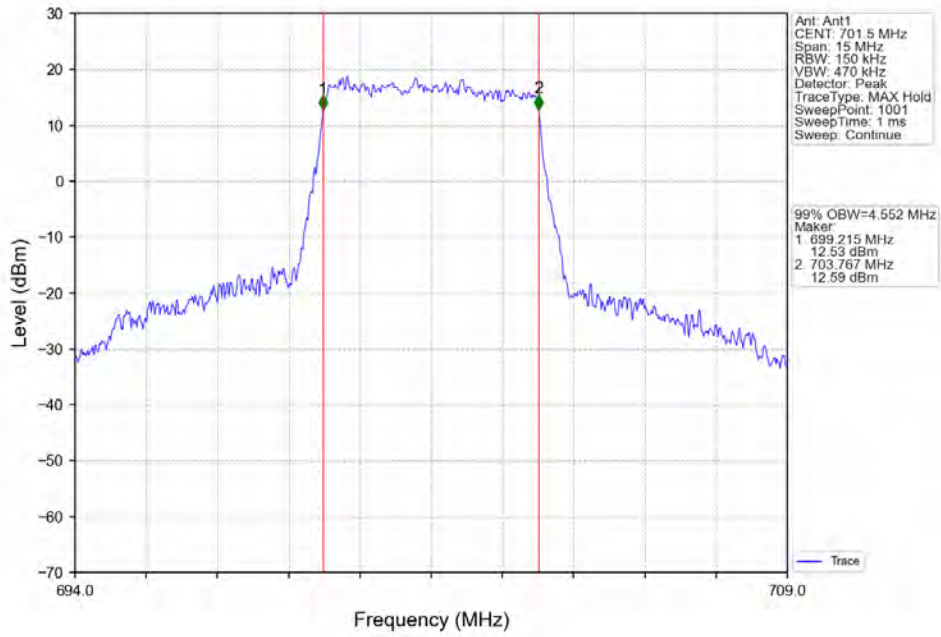
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



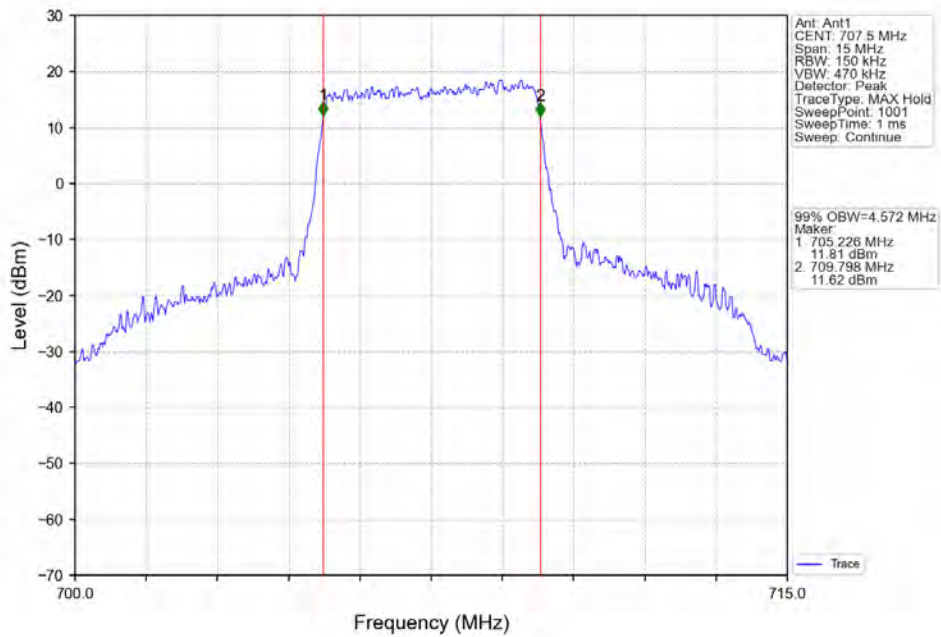
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



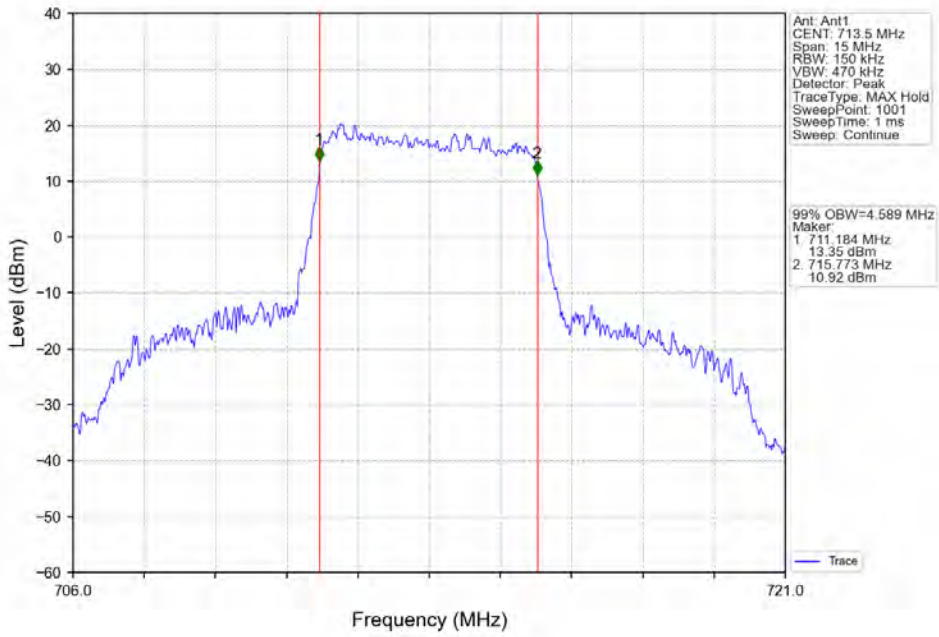
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



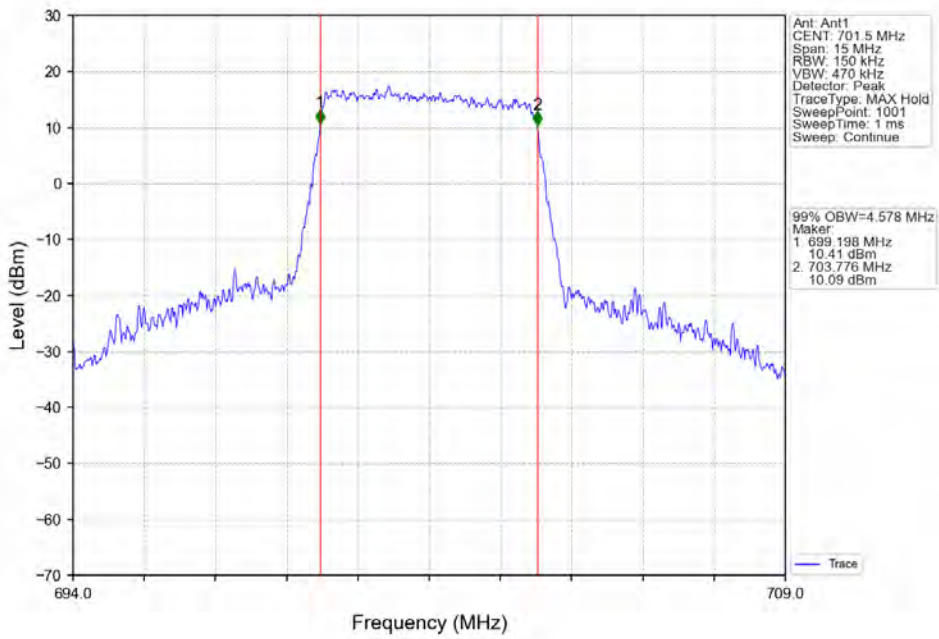
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



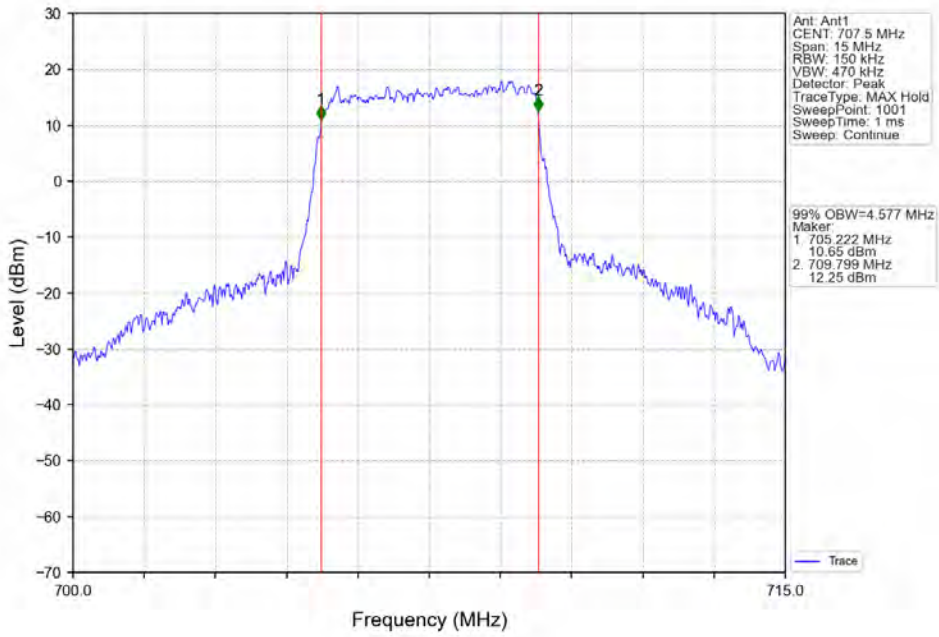
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



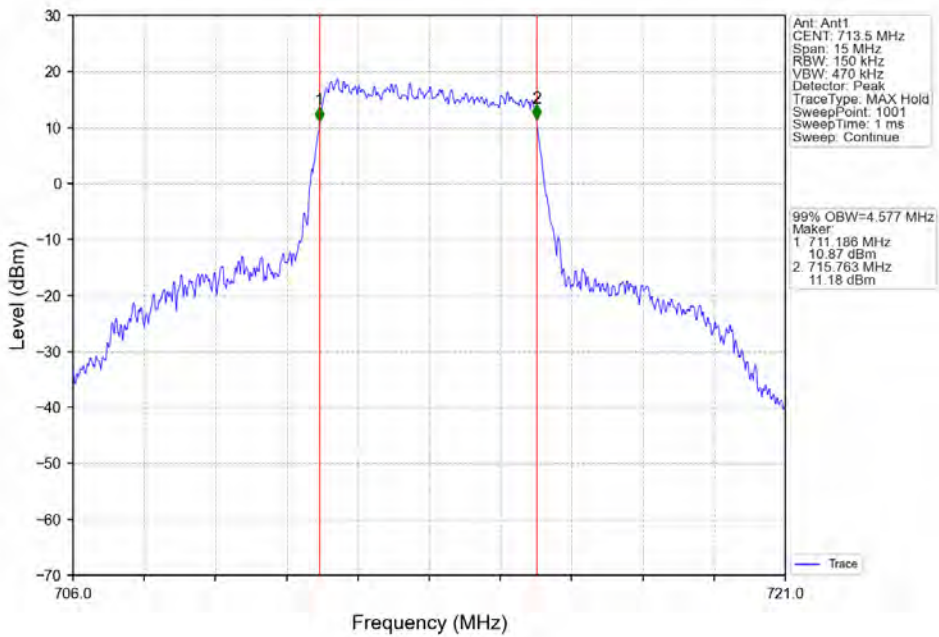
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



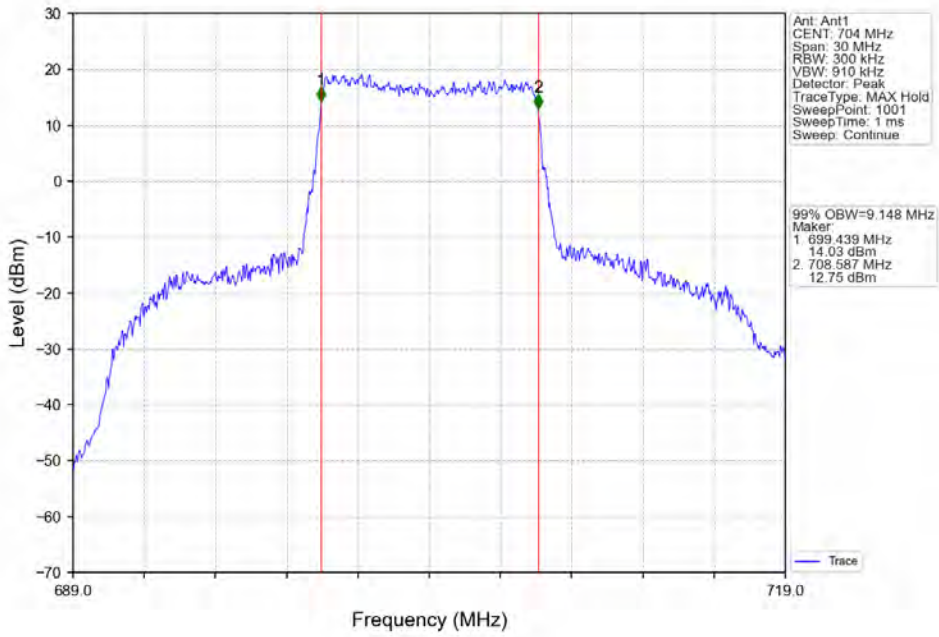
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



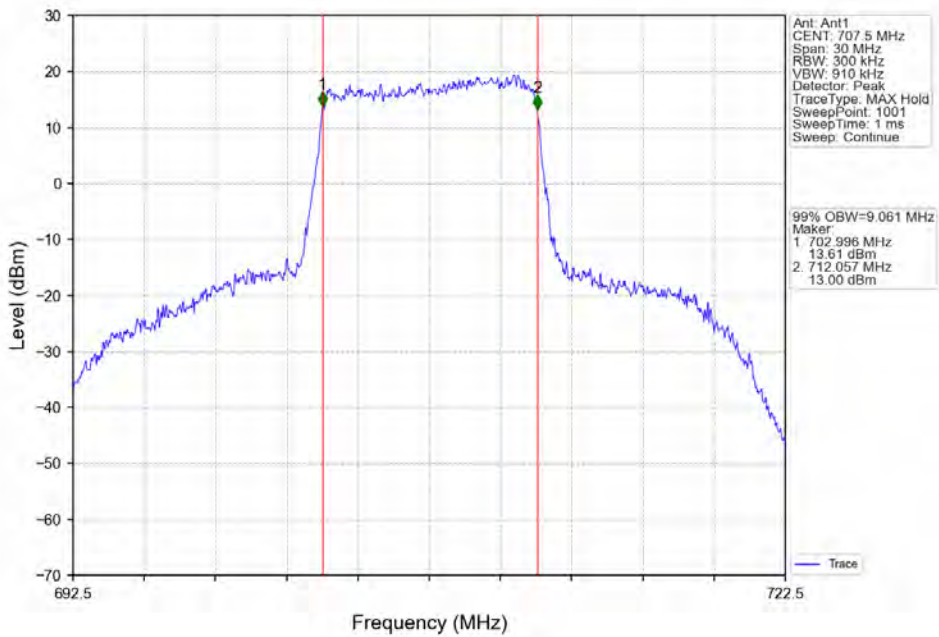
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



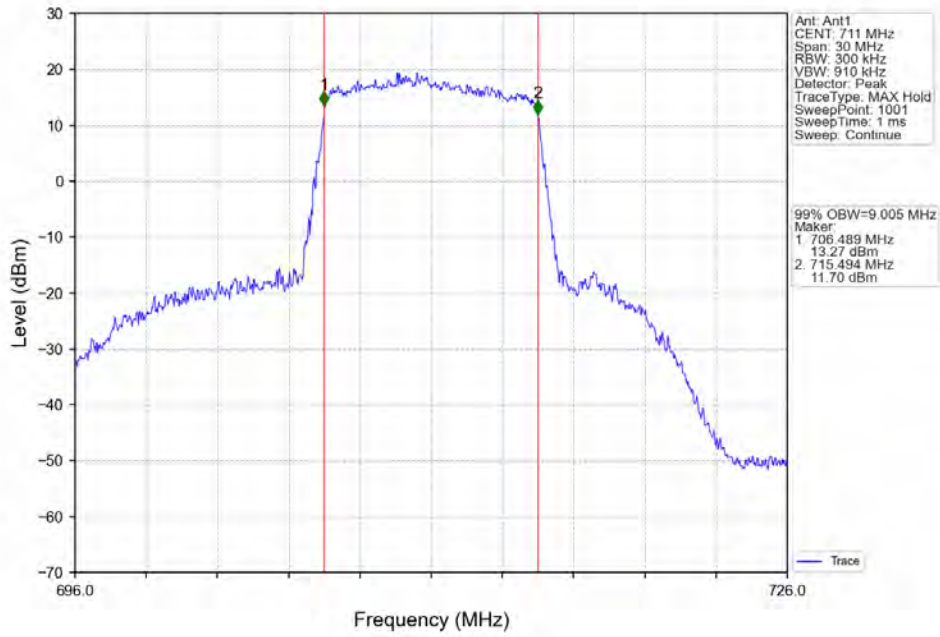
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



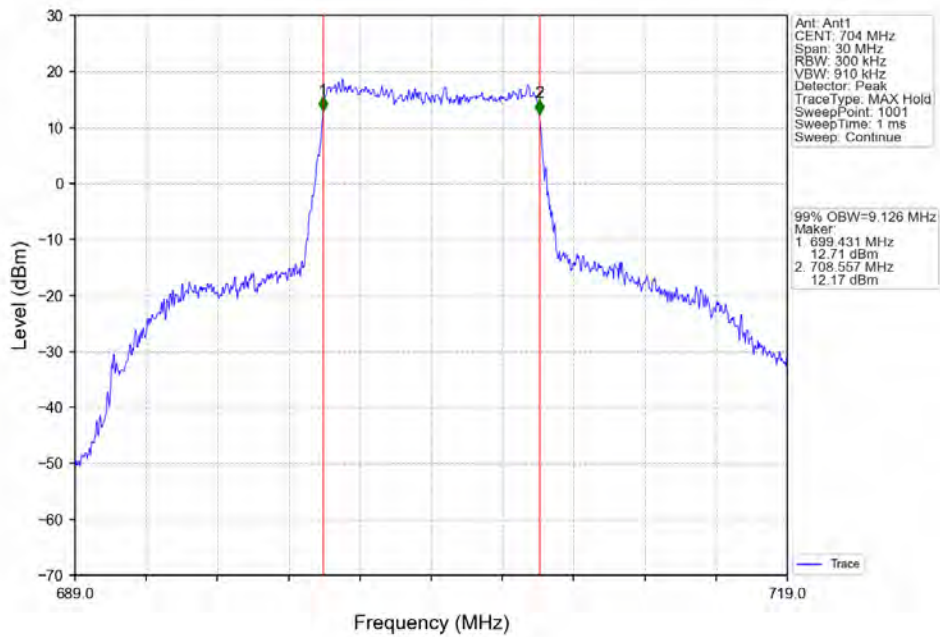
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



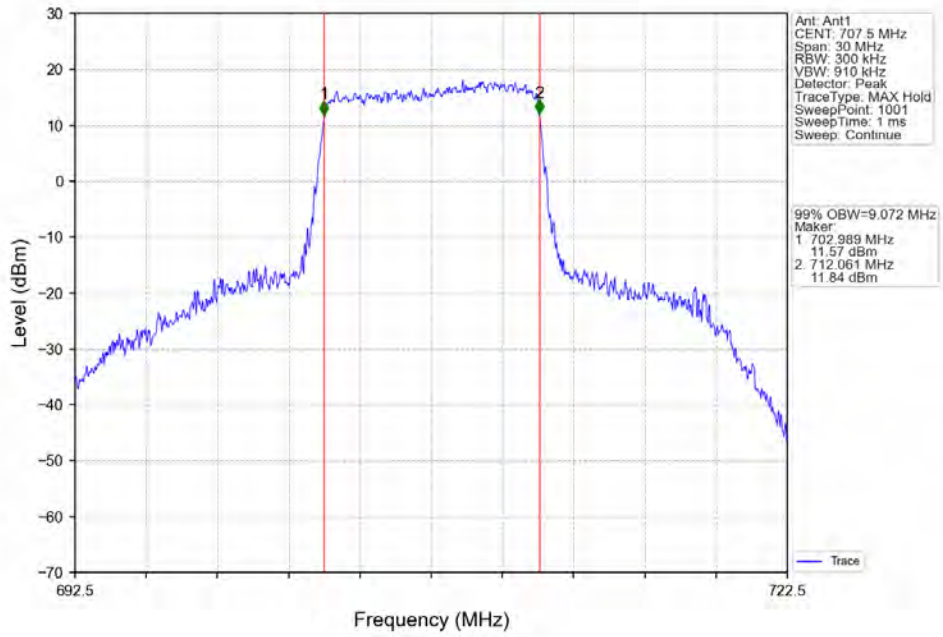
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



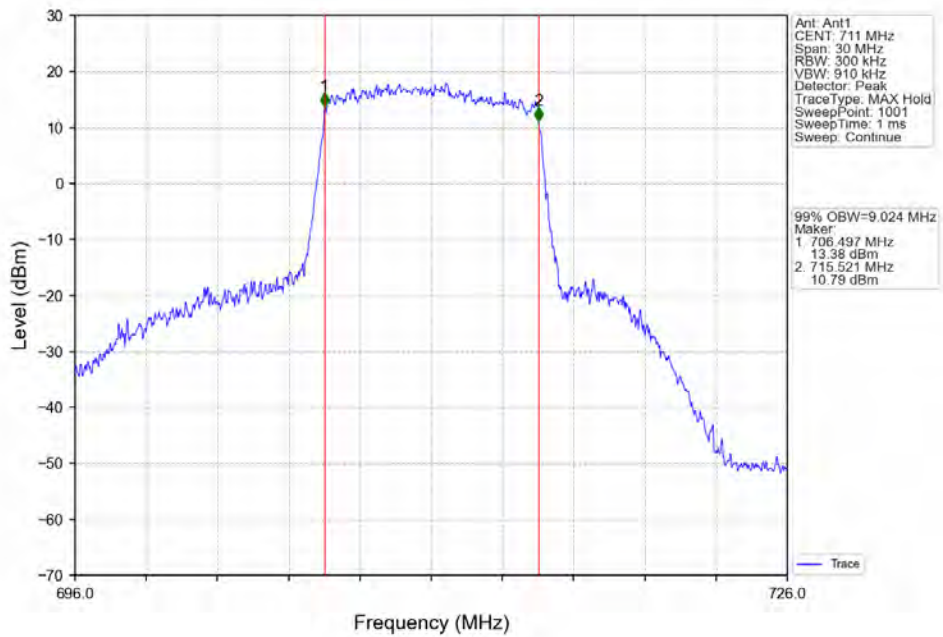
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

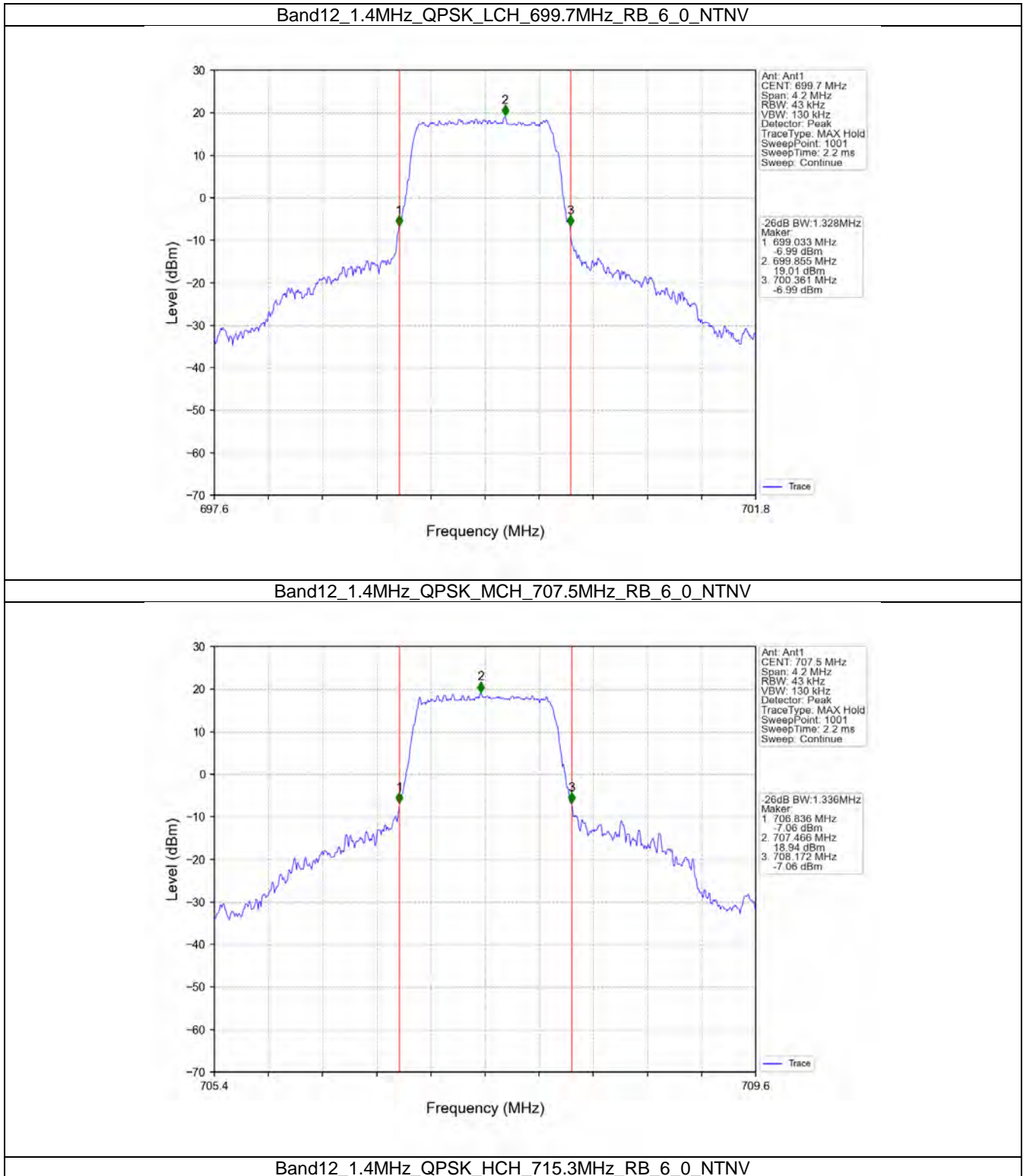


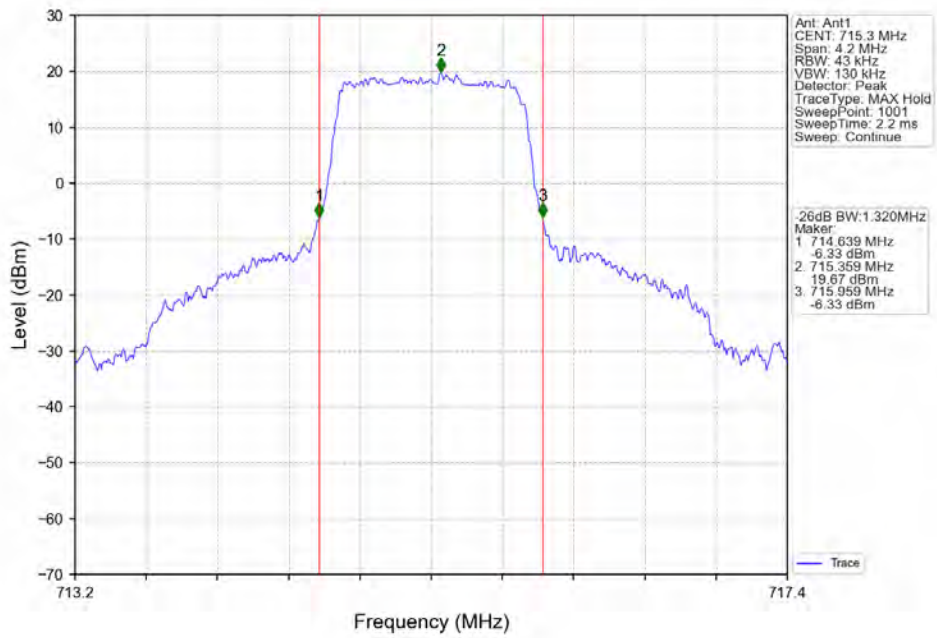
4.2 Band12_XDB

4.2.1 Test Result

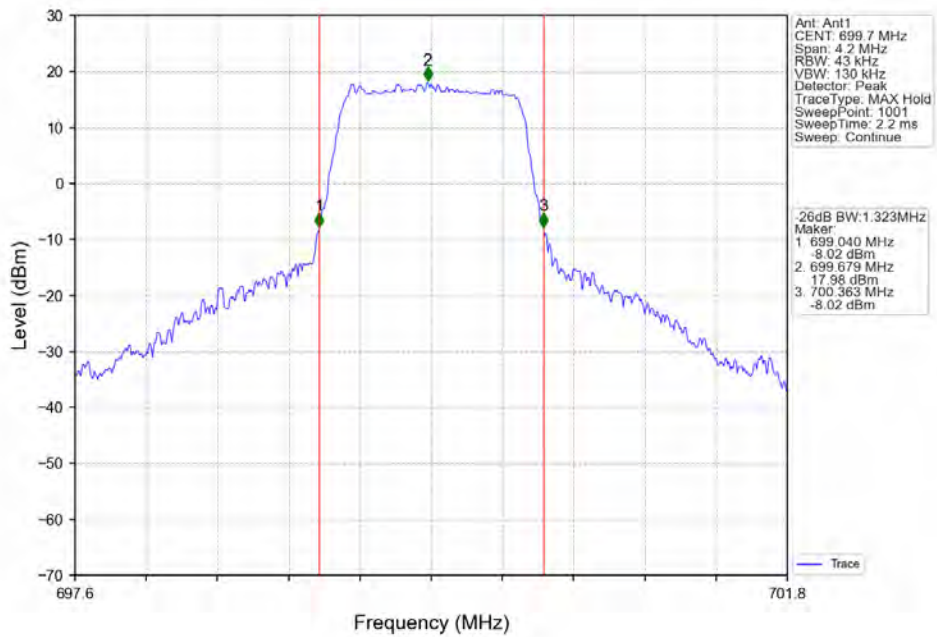
| Band: 12 / NTNV | | | | | | |
|-----------------|------------|-----------------|---------------|--------|----------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 699.7 | 6 | 0 | 1.328 | Pass |
| | | 707.5 | 6 | 0 | 1.336 | Pass |
| | | 715.3 | 6 | 0 | 1.320 | Pass |
| | 16QAM | 699.7 | 6 | 0 | 1.323 | Pass |
| | | 707.5 | 6 | 0 | 1.300 | Pass |
| | | 715.3 | 6 | 0 | 1.347 | Pass |
| 3 | QPSK | 700.5 | 15 | 0 | 2.988 | Pass |
| | | 707.5 | 15 | 0 | 2.988 | Pass |
| | | 714.5 | 15 | 0 | 3.020 | Pass |
| | 16QAM | 700.5 | 15 | 0 | 2.995 | Pass |
| | | 707.5 | 15 | 0 | 3.003 | Pass |
| | | 714.5 | 15 | 0 | 3.007 | Pass |
| 5 | QPSK | 701.5 | 25 | 0 | 5.225 | Pass |
| | | 707.5 | 25 | 0 | 5.266 | Pass |
| | | 713.5 | 25 | 0 | 5.280 | Pass |
| | 16QAM | 701.5 | 25 | 0 | 5.272 | Pass |
| | | 707.5 | 25 | 0 | 5.269 | Pass |
| | | 713.5 | 25 | 0 | 5.234 | Pass |
| 10 | QPSK | 704 | 50 | 0 | 10.357 | Pass |
| | | 707.5 | 50 | 0 | 10.174 | Pass |
| | | 711 | 50 | 0 | 10.184 | Pass |
| | 16QAM | 704 | 50 | 0 | 10.386 | Pass |
| | | 707.5 | 50 | 0 | 10.252 | Pass |
| | | 711 | 50 | 0 | 10.083 | Pass |

4.2.2 Test Graph

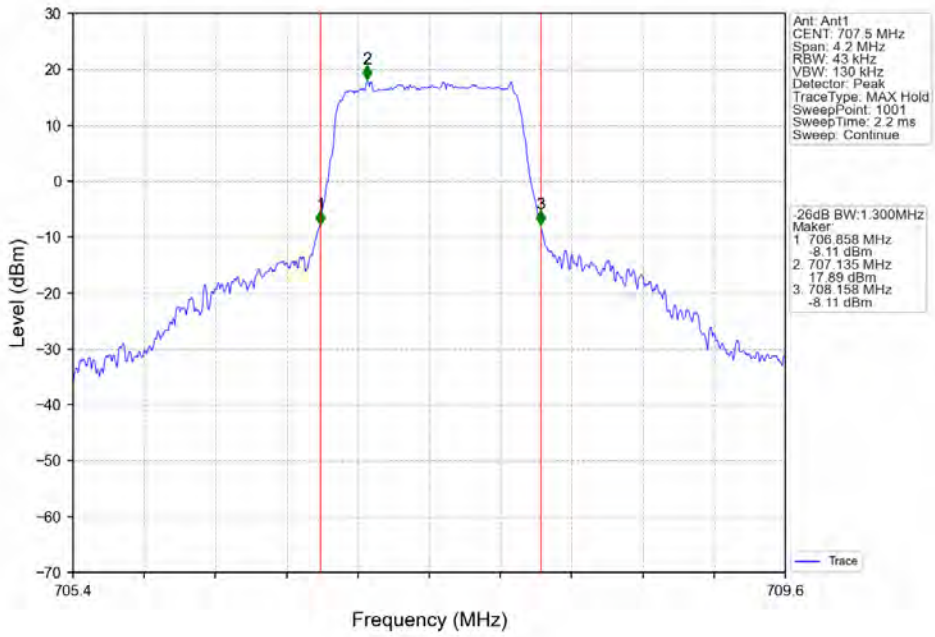




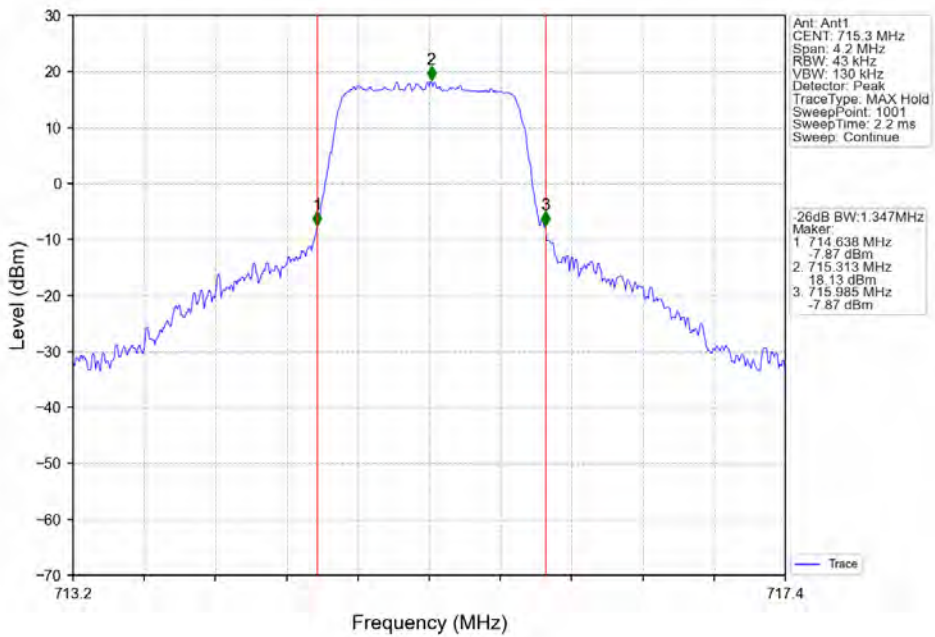
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



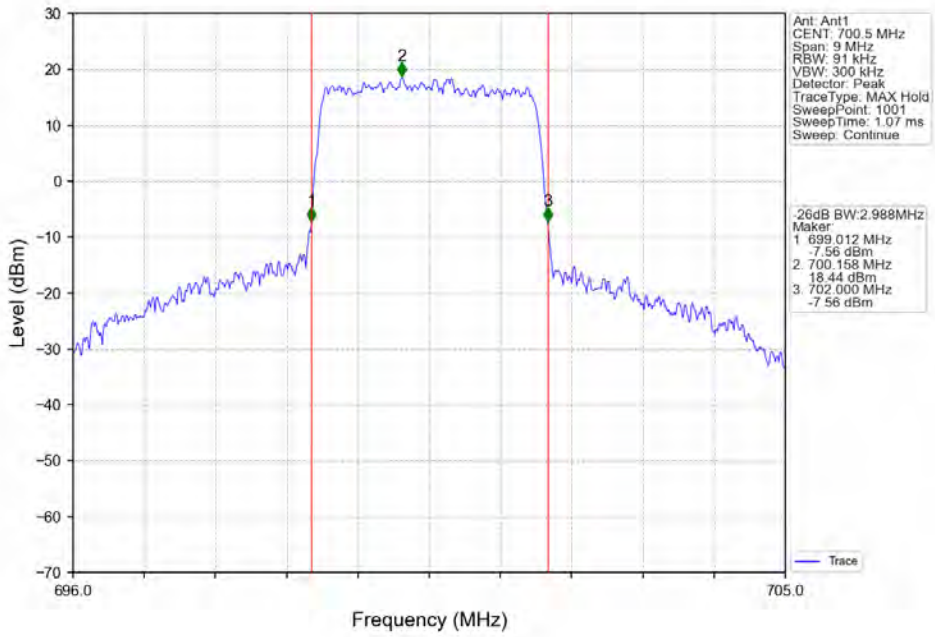
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



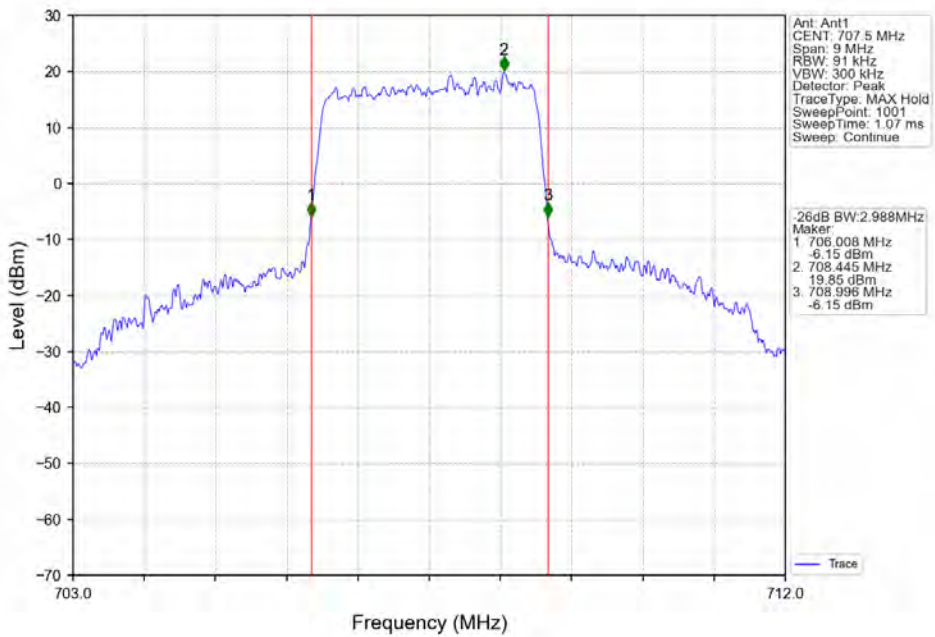
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



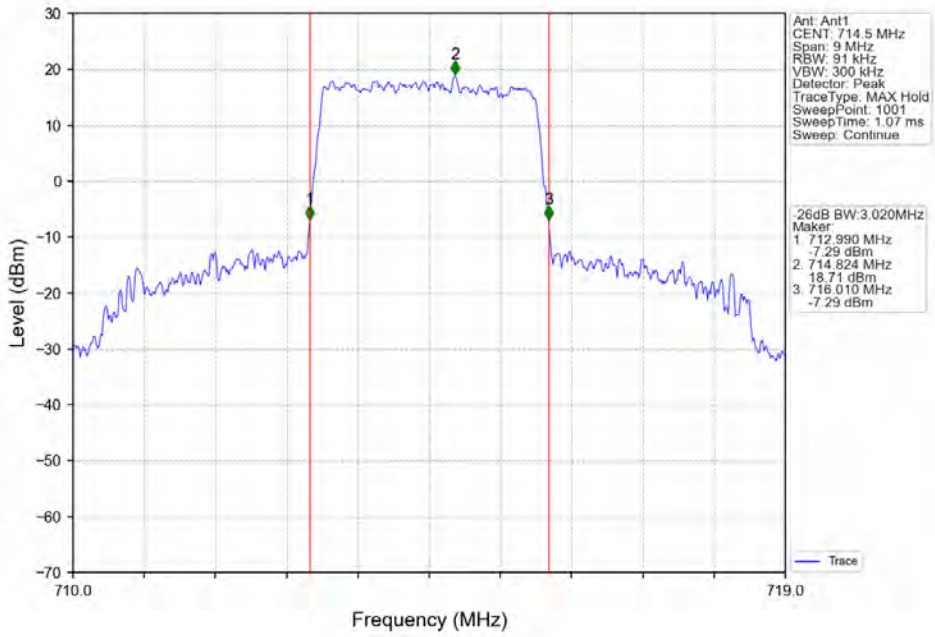
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



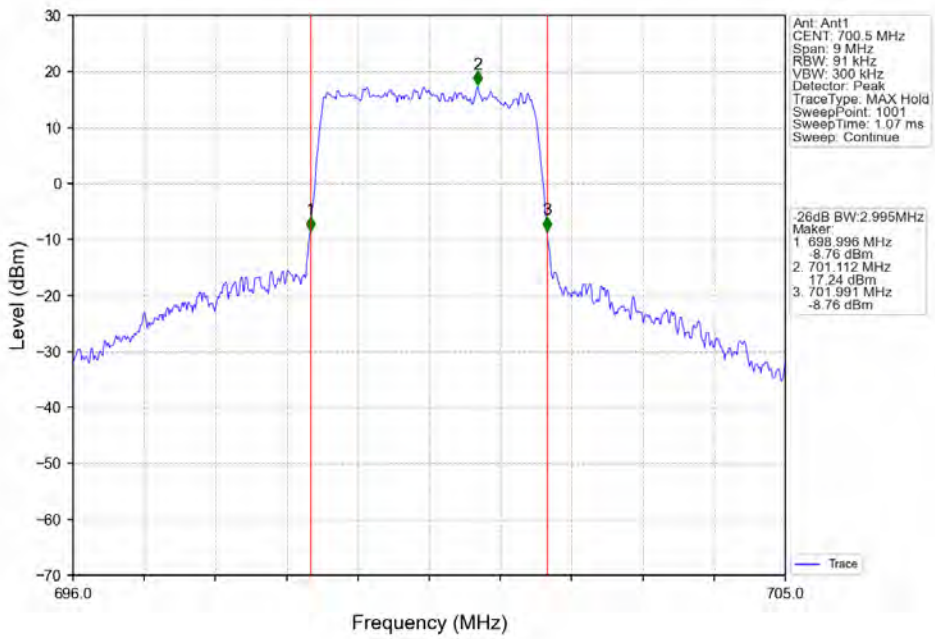
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



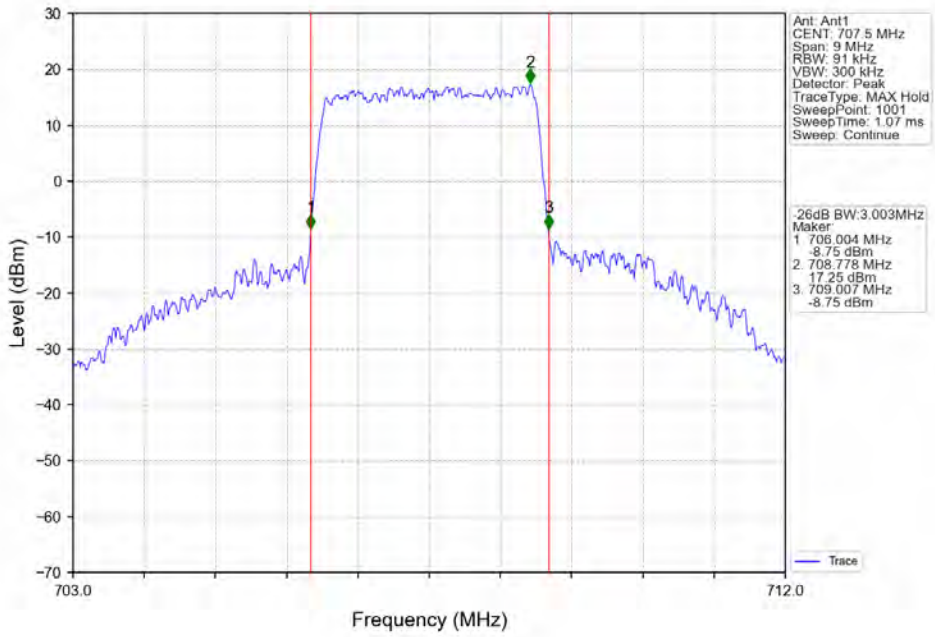
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



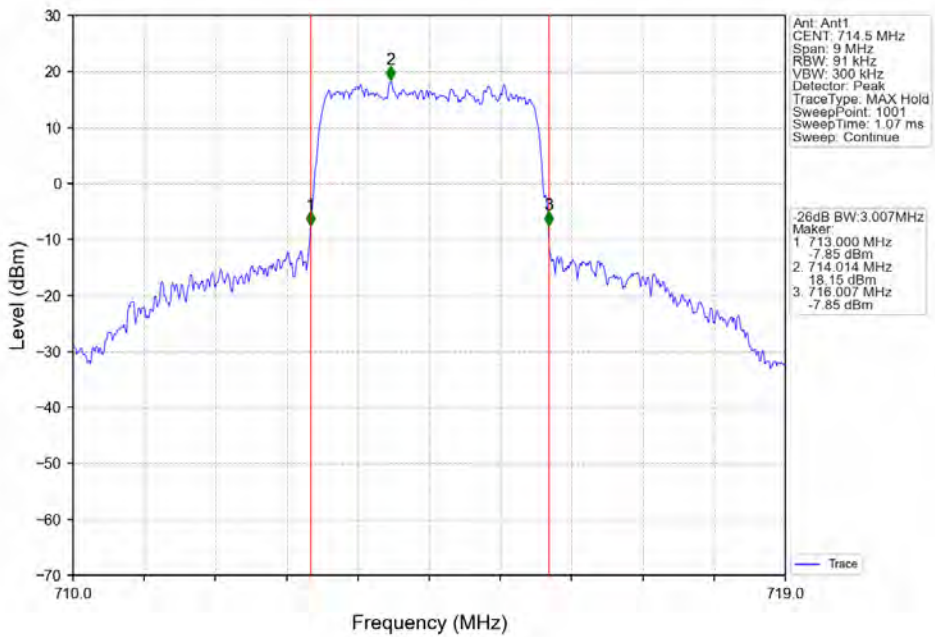
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



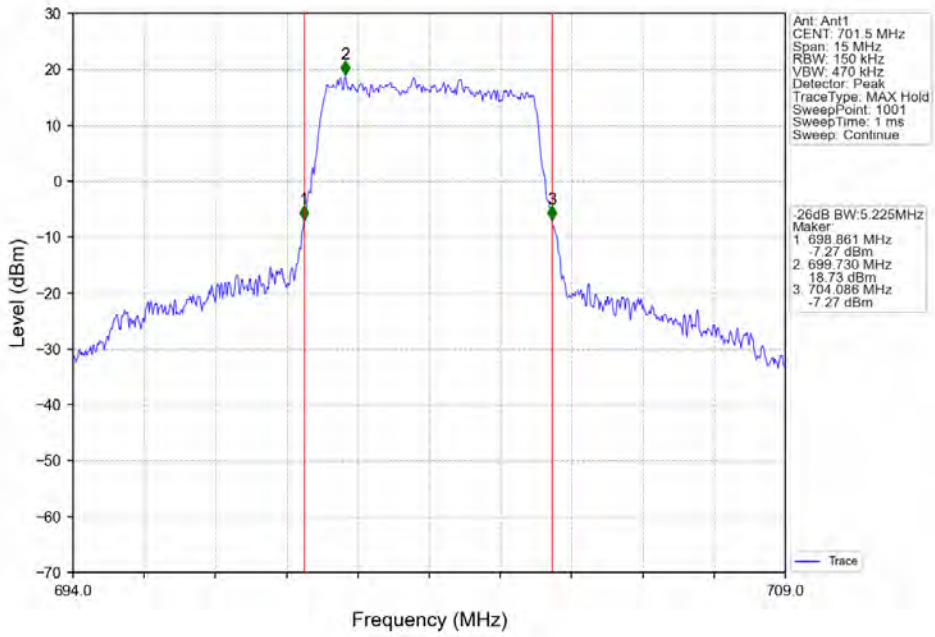
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



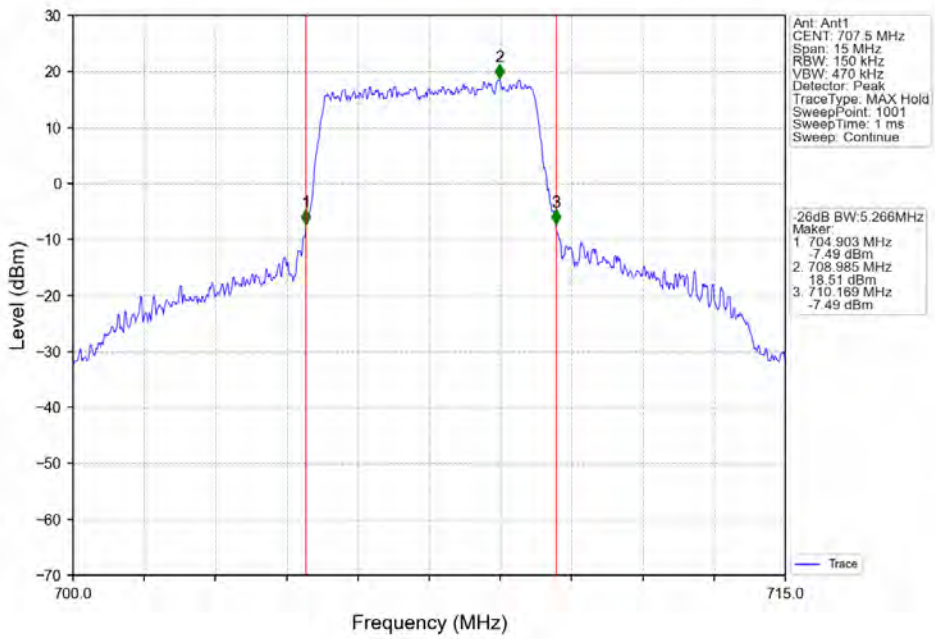
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



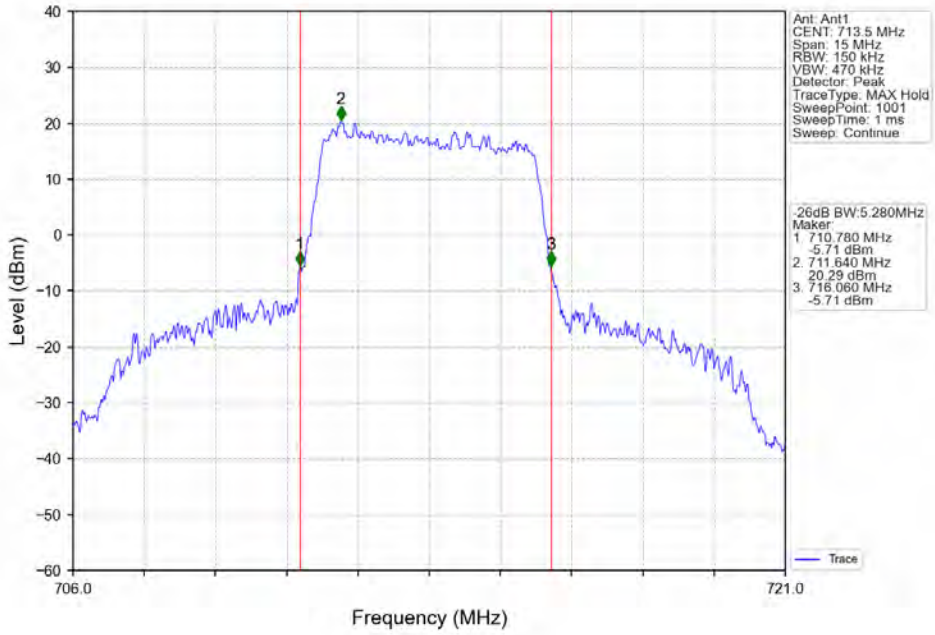
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



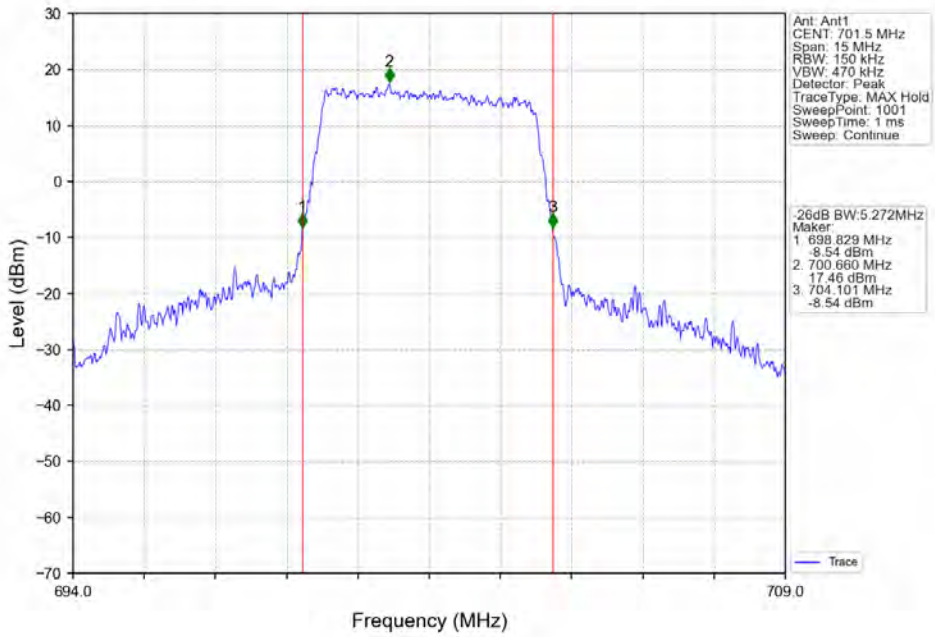
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



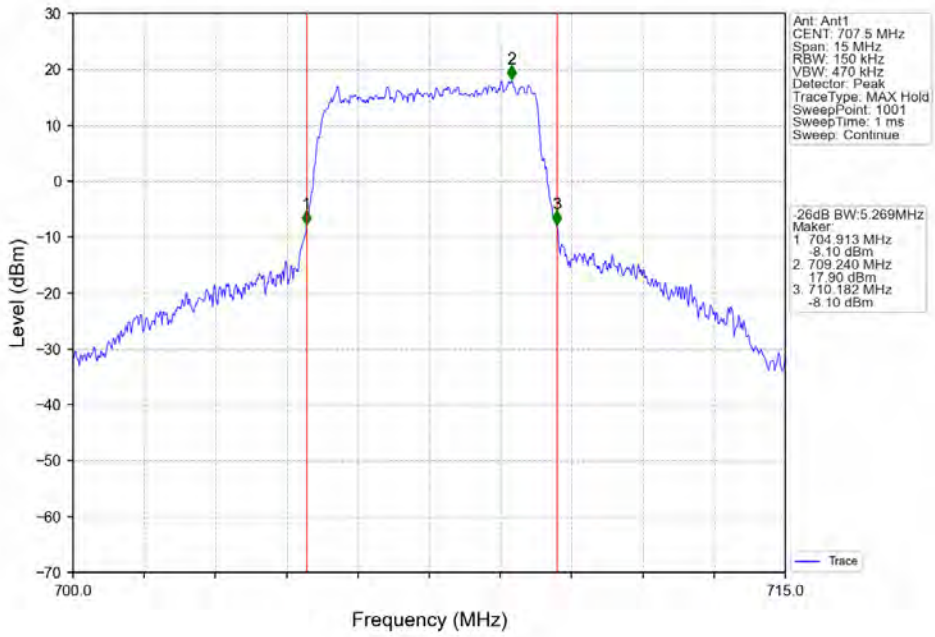
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



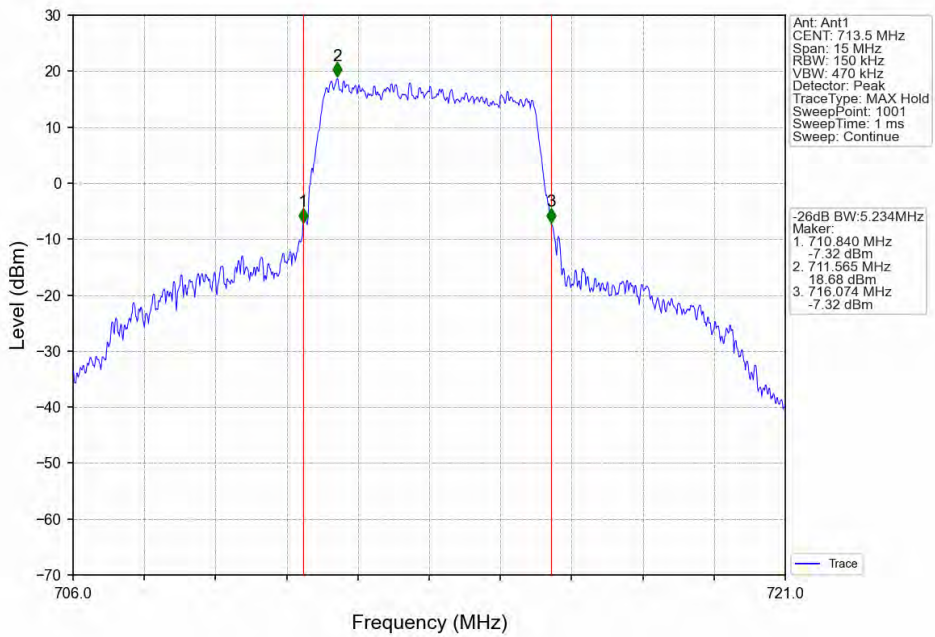
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



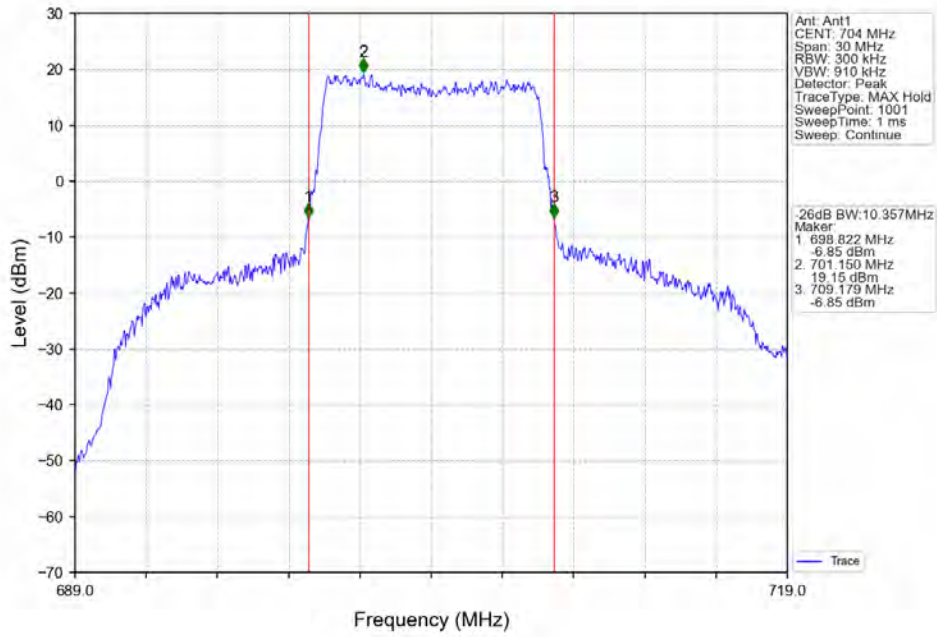
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



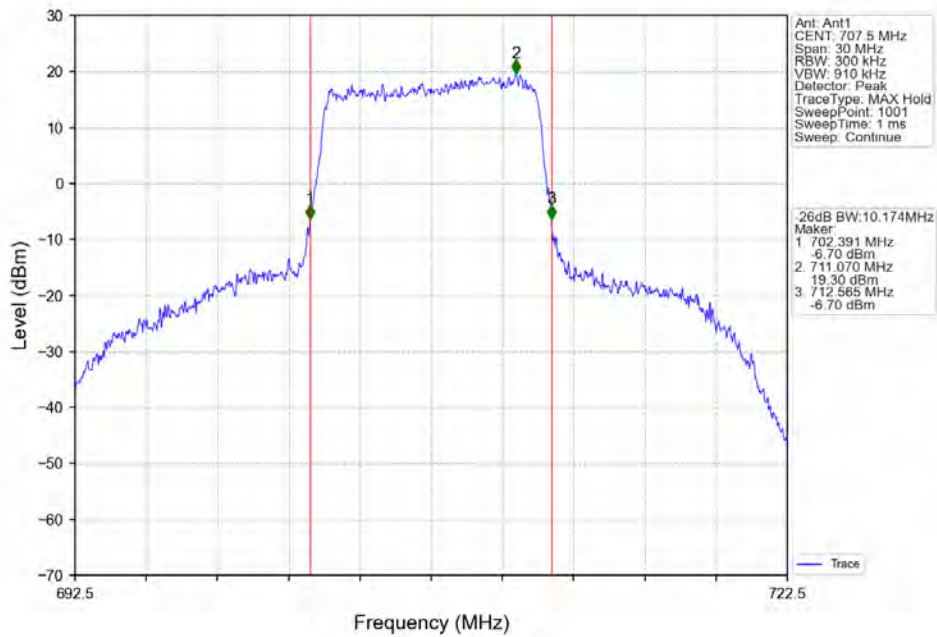
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



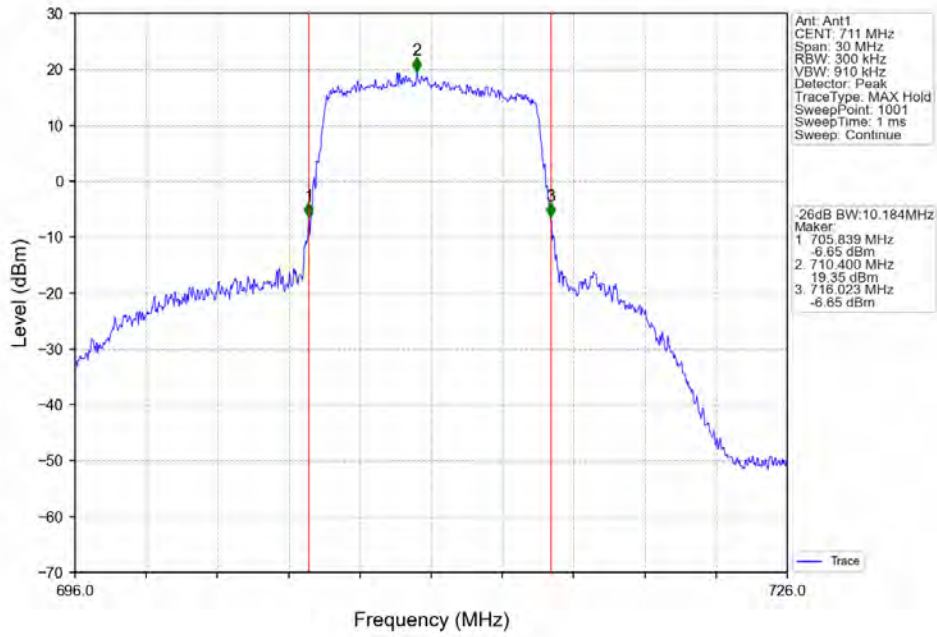
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



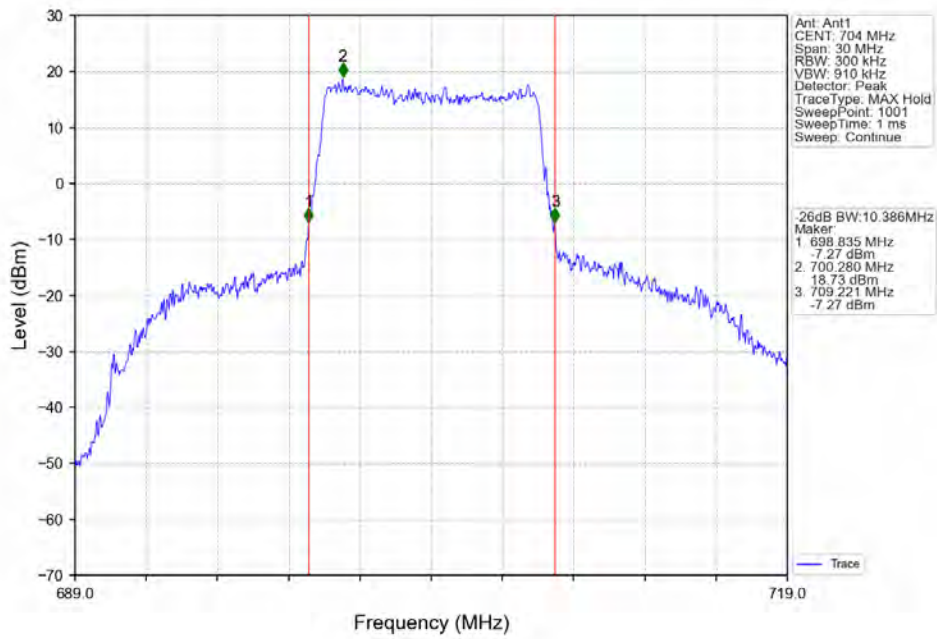
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



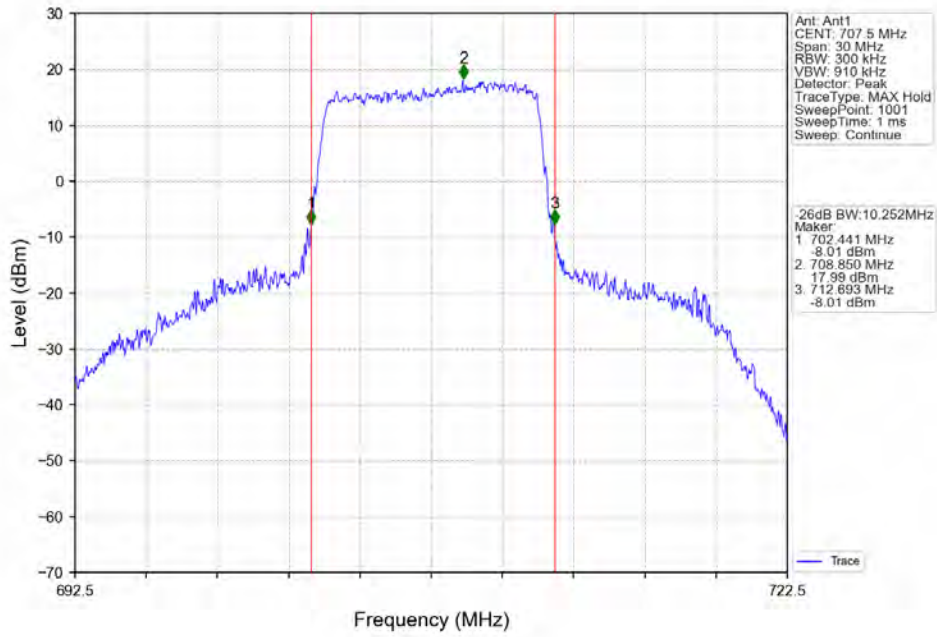
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



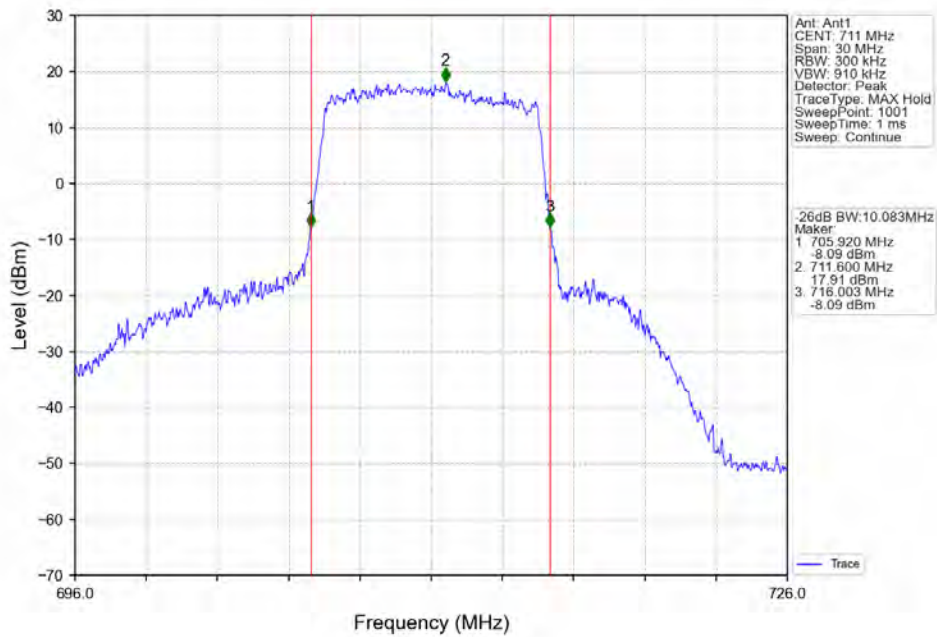
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



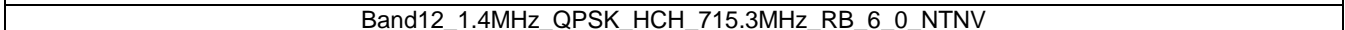
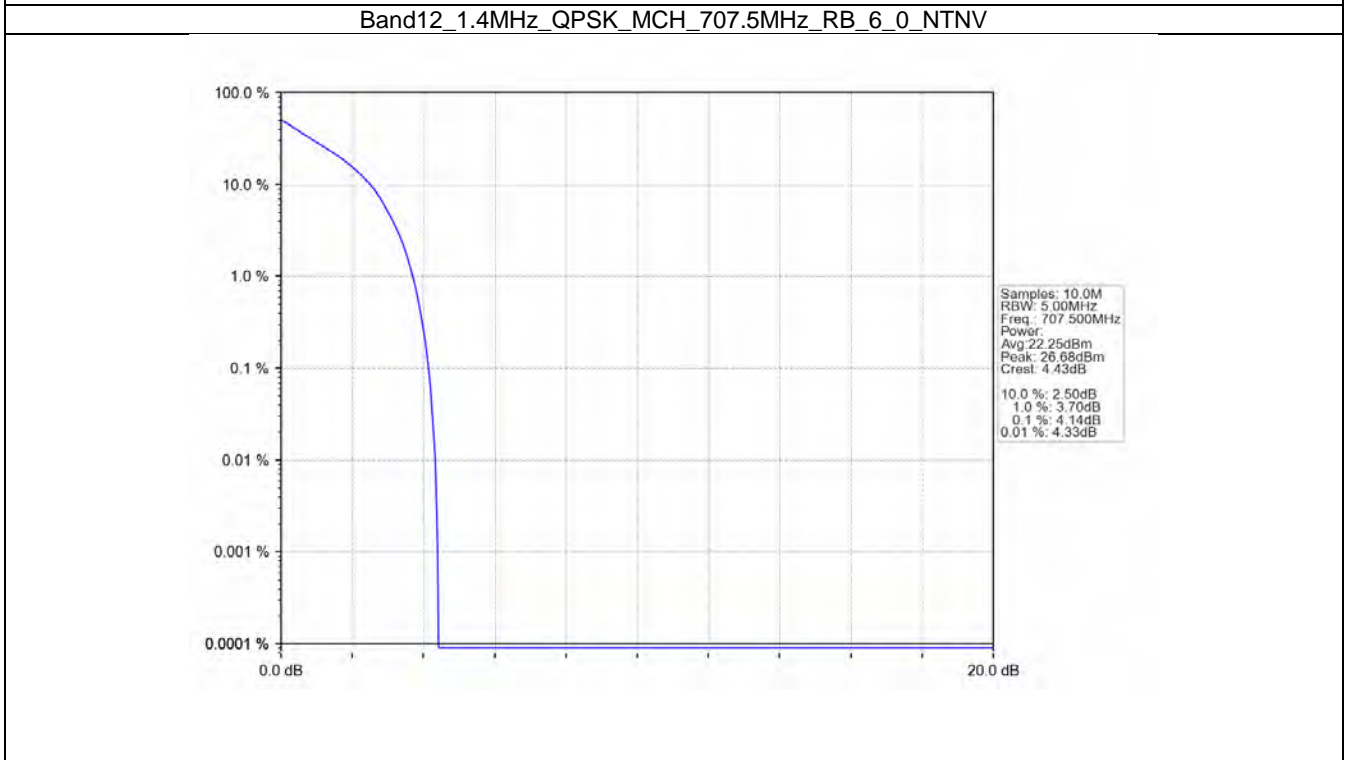
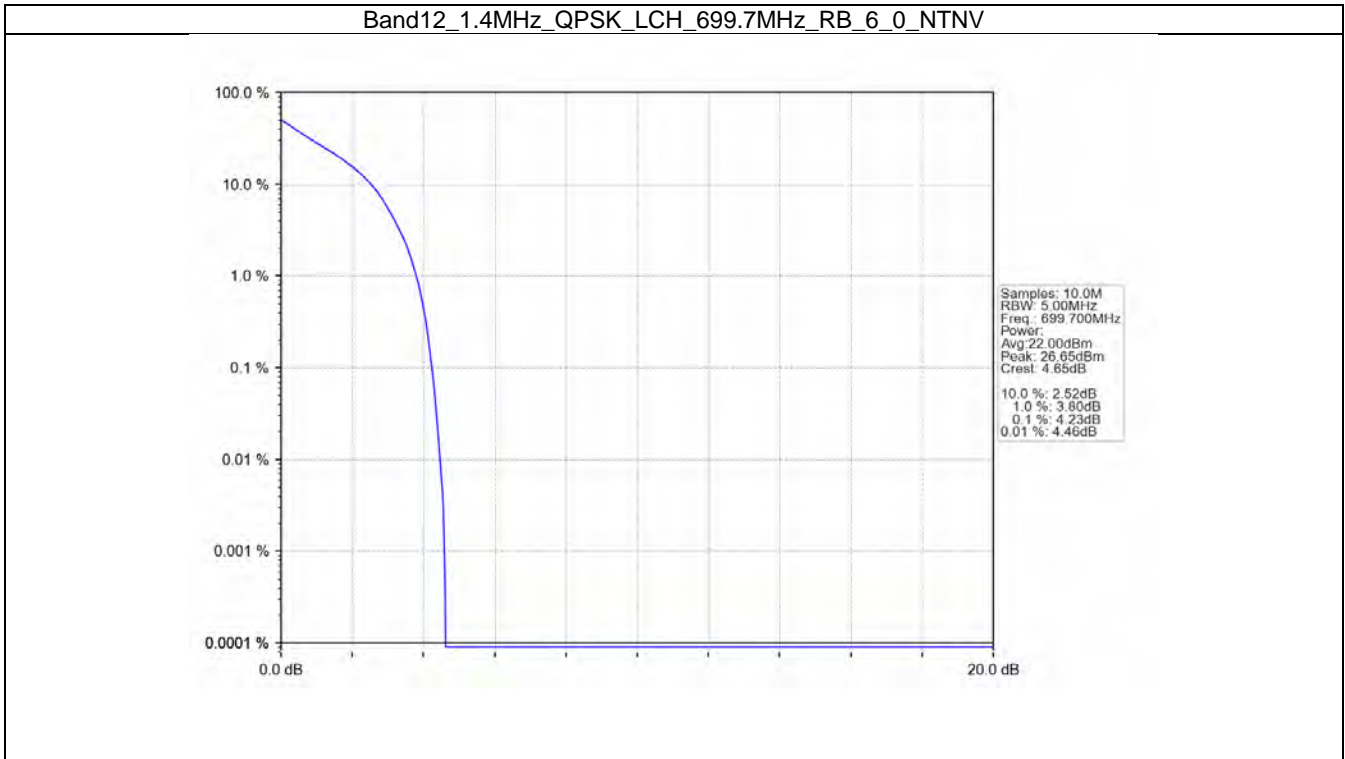
5. Peak-Average Ratio

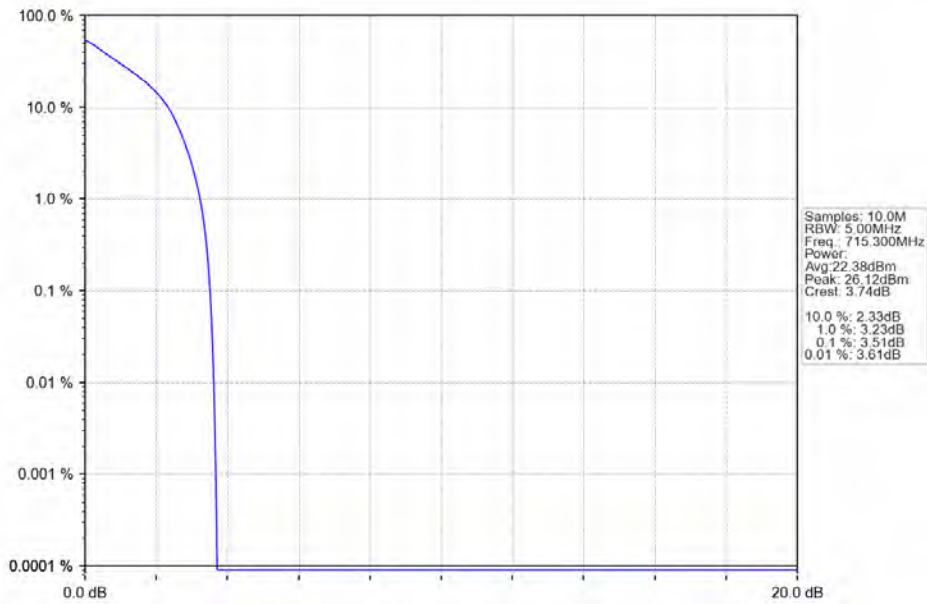
5.1 B12_1.4MHz

5.1.1 Test Result

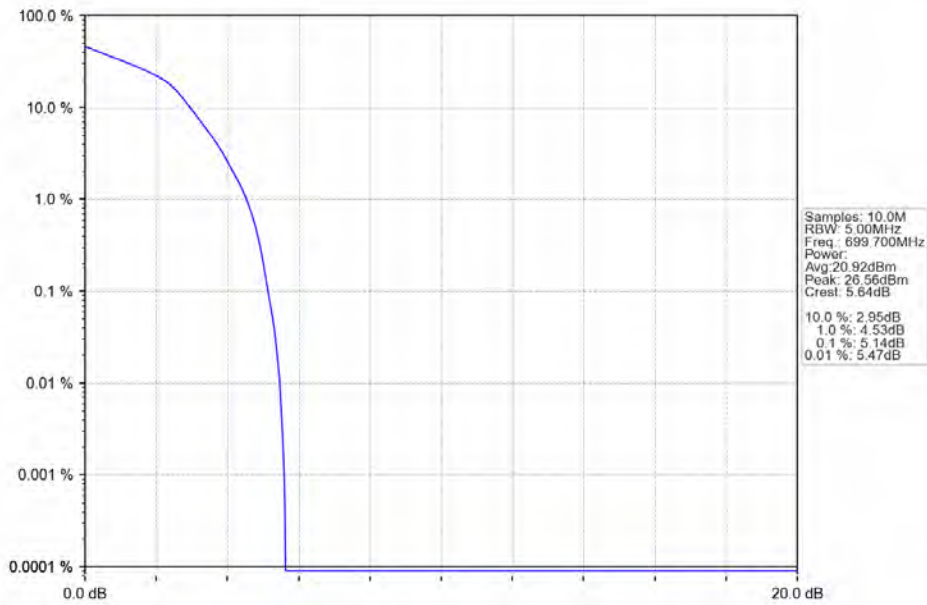
| Band: 12 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|-------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 699.7 | 6 | 0 | 4.23 | <=13 | Pass |
| | 707.5 | 6 | 0 | 4.14 | <=13 | Pass |
| | 715.3 | 6 | 0 | 3.51 | <=13 | Pass |
| 16QAM | 699.7 | 6 | 0 | 5.14 | <=13 | Pass |
| | 707.5 | 6 | 0 | 5.07 | <=13 | Pass |
| | 715.3 | 6 | 0 | 4.63 | <=13 | Pass |

5.1.2 Test Graph

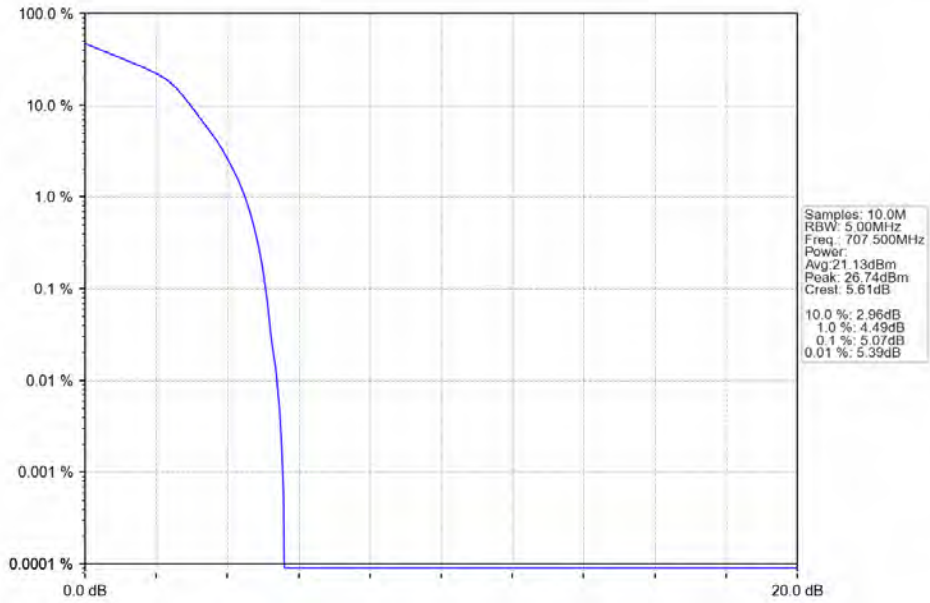




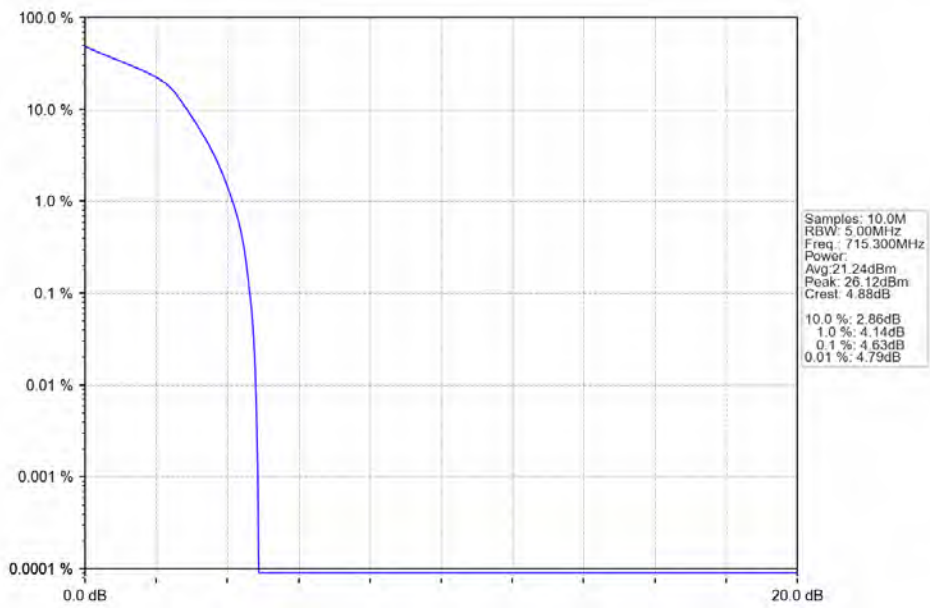
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

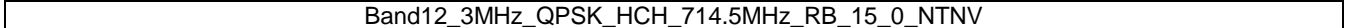
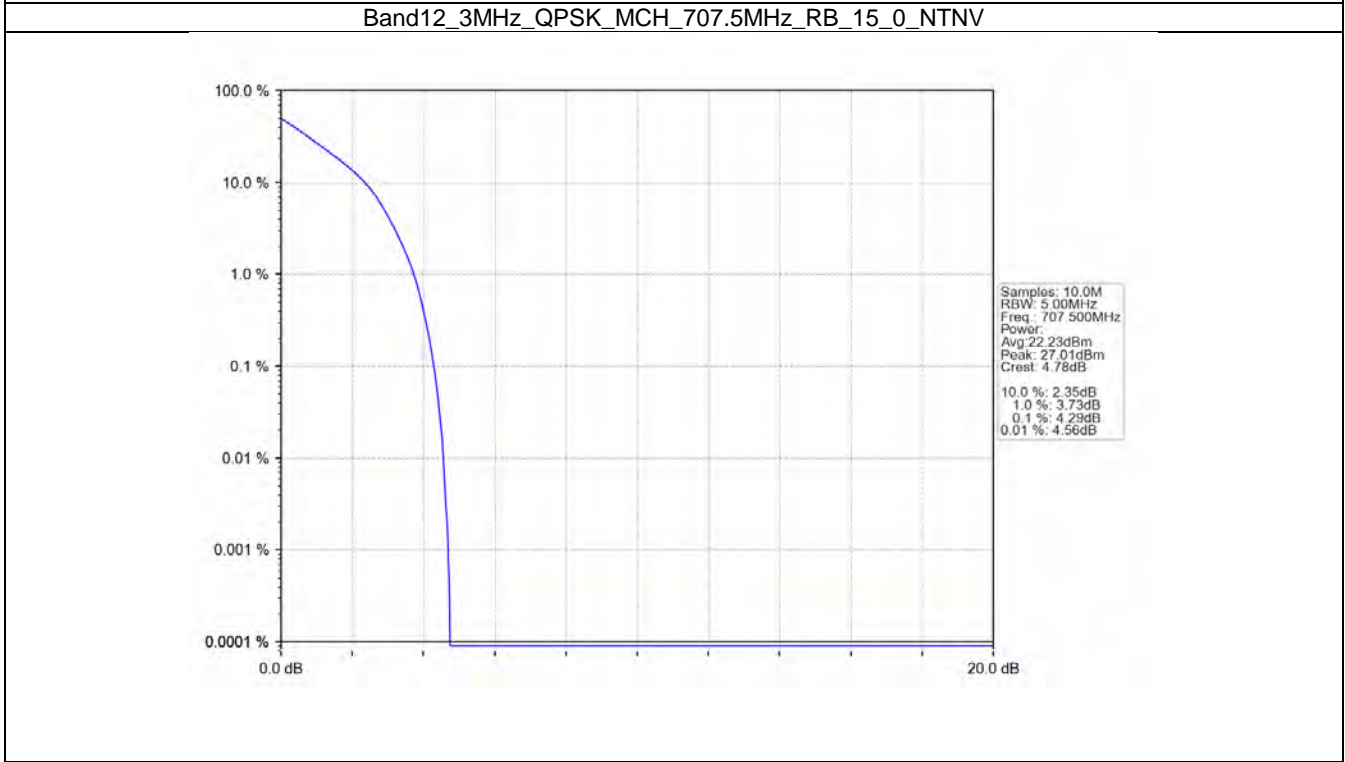
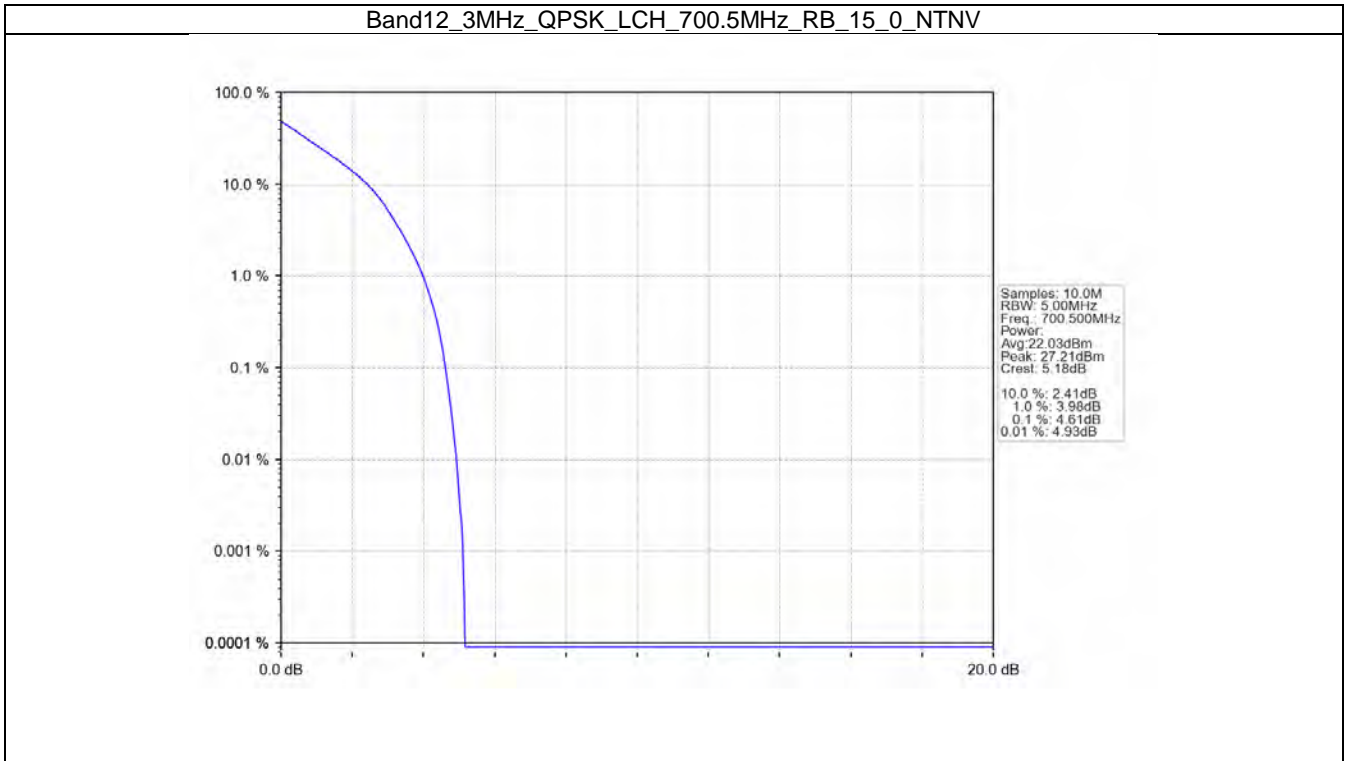


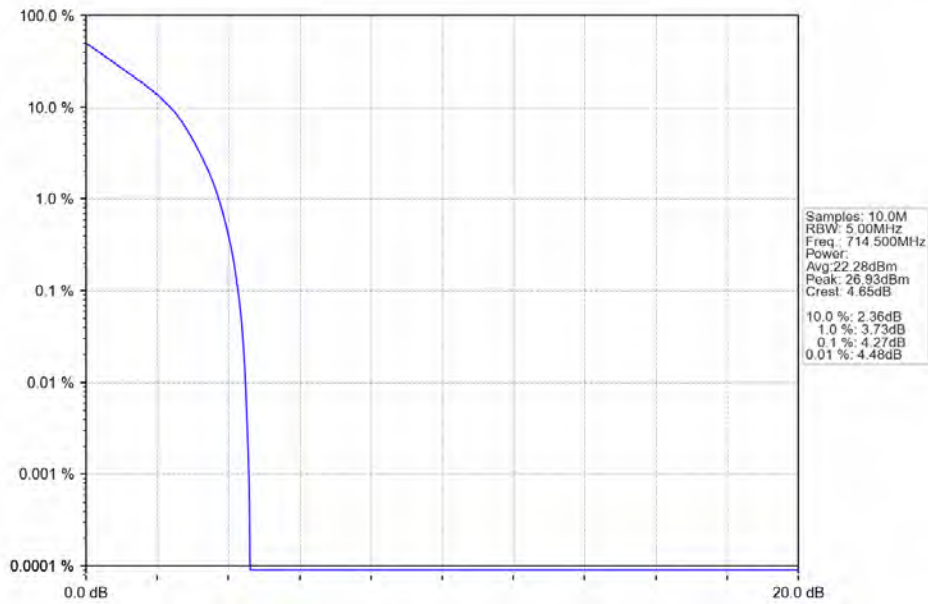
5.2 B12_3MHz

5.2.1 Test Result

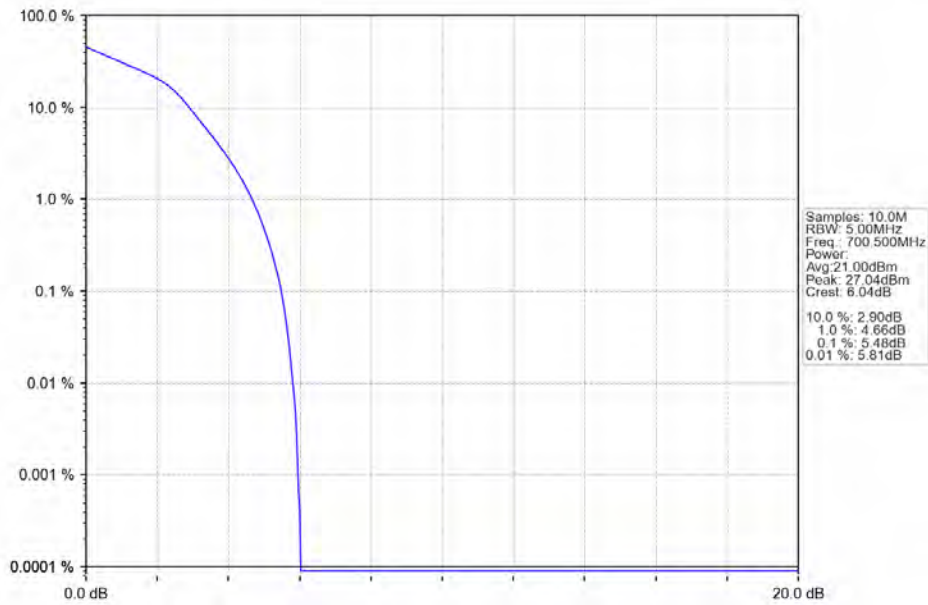
| Band: 12 / Bandwidth: 3MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 700.5 | 15 | 0 | 4.61 | <=13 | Pass |
| | 707.5 | 15 | 0 | 4.29 | <=13 | Pass |
| | 714.5 | 15 | 0 | 4.27 | <=13 | Pass |
| 16QAM | 700.5 | 15 | 0 | 5.48 | <=13 | Pass |
| | 707.5 | 15 | 0 | 5.22 | <=13 | Pass |
| | 714.5 | 15 | 0 | 5.21 | <=13 | Pass |

5.2.2 Test Graph

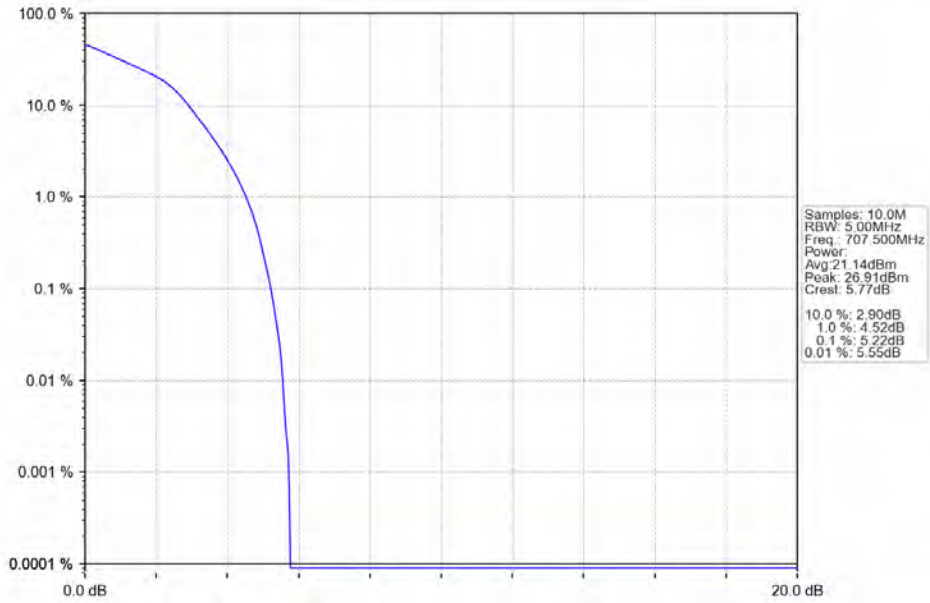




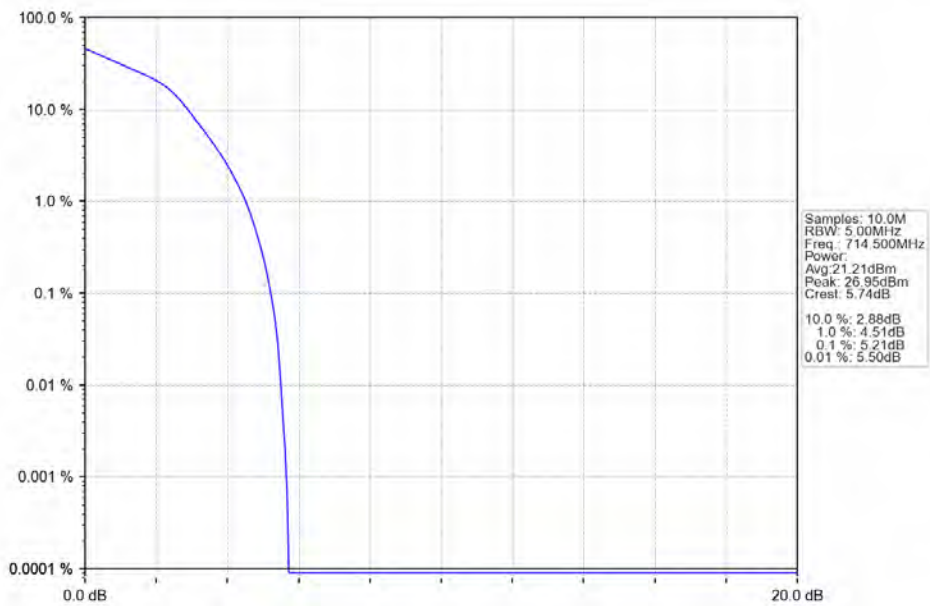
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

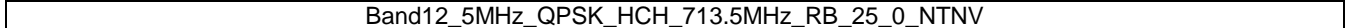
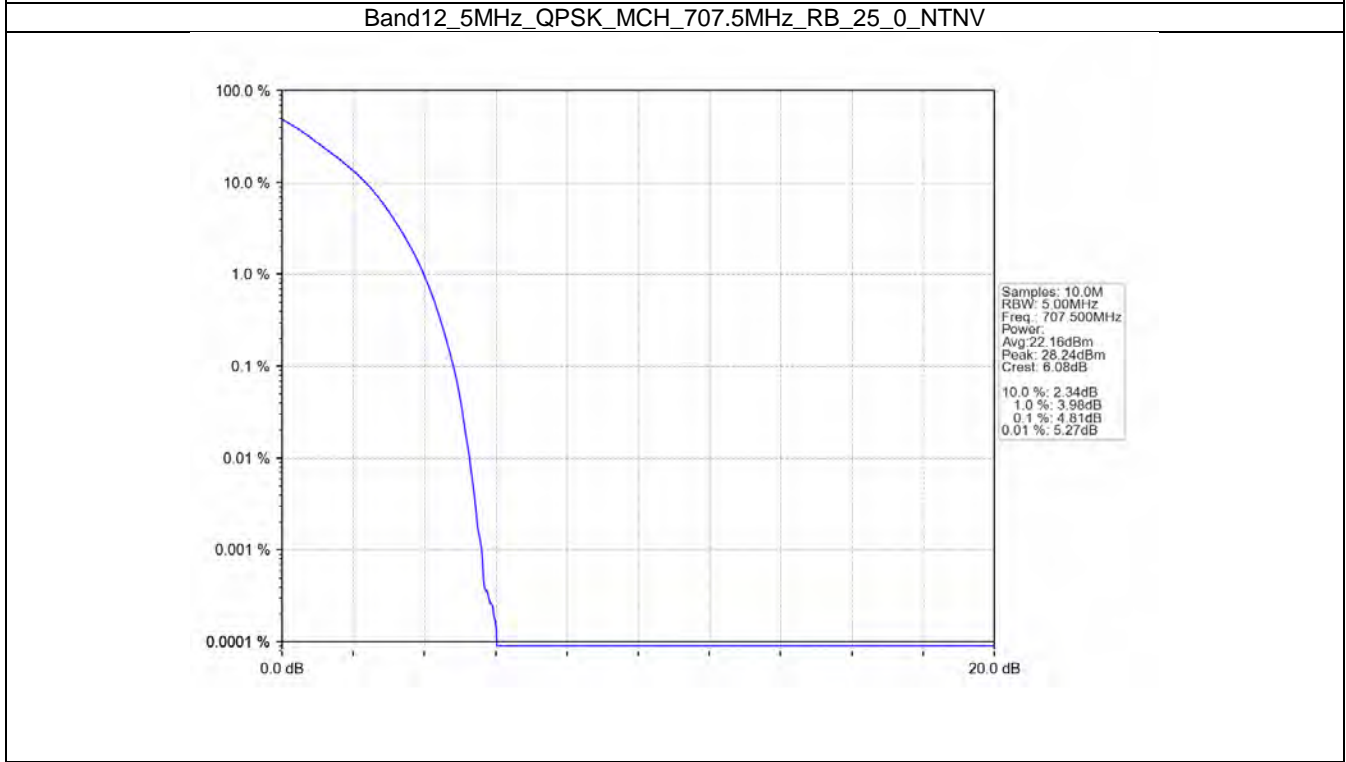
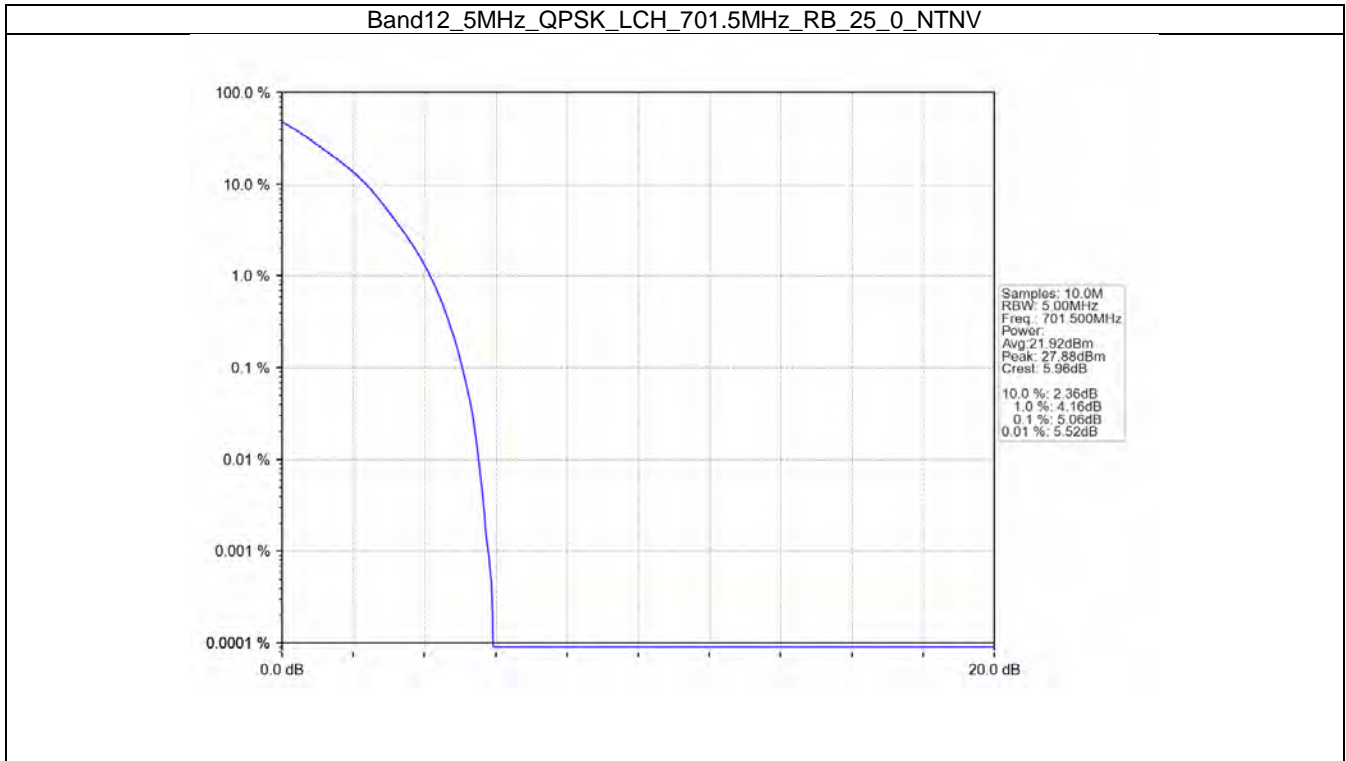


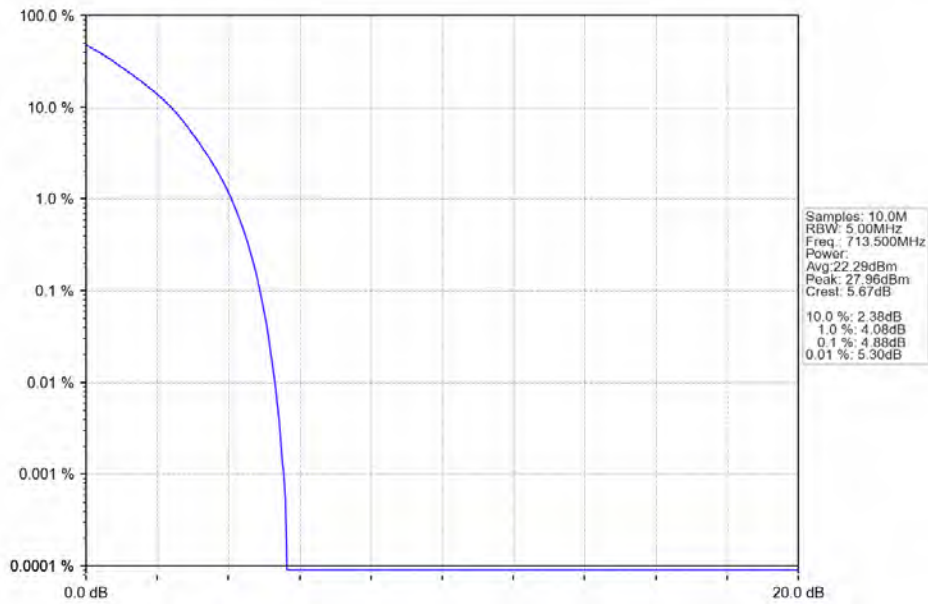
5.3 B12_5MHz

5.3.1 Test Result

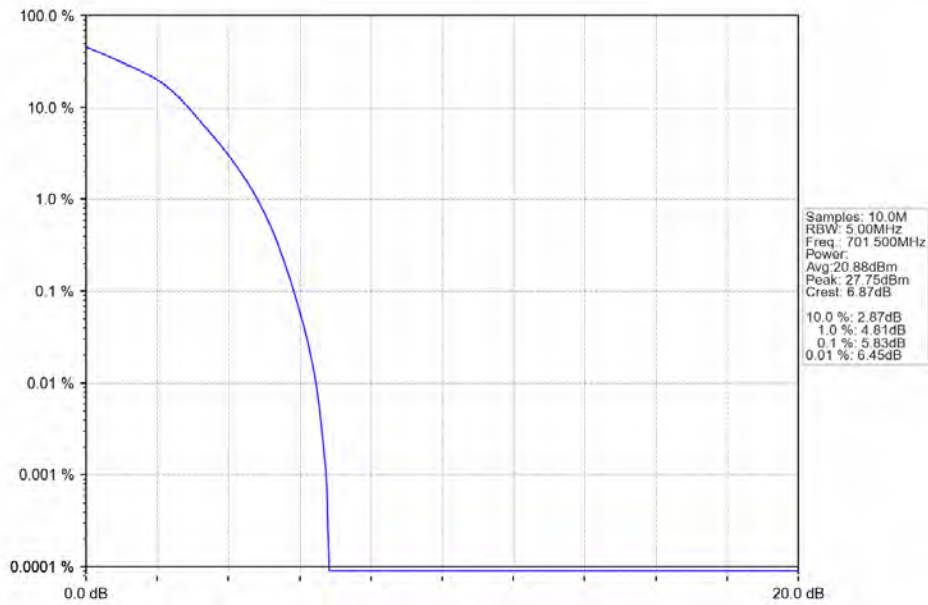
| Band: 12 / Bandwidth: 5MHz / NTN | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 701.5 | 25 | 0 | 5.06 | <=13 | Pass |
| | 707.5 | 25 | 0 | 4.81 | <=13 | Pass |
| | 713.5 | 25 | 0 | 4.88 | <=13 | Pass |
| 16QAM | 701.5 | 25 | 0 | 5.83 | <=13 | Pass |
| | 707.5 | 25 | 0 | 5.55 | <=13 | Pass |
| | 713.5 | 25 | 0 | 5.68 | <=13 | Pass |

5.3.2 Test Graph

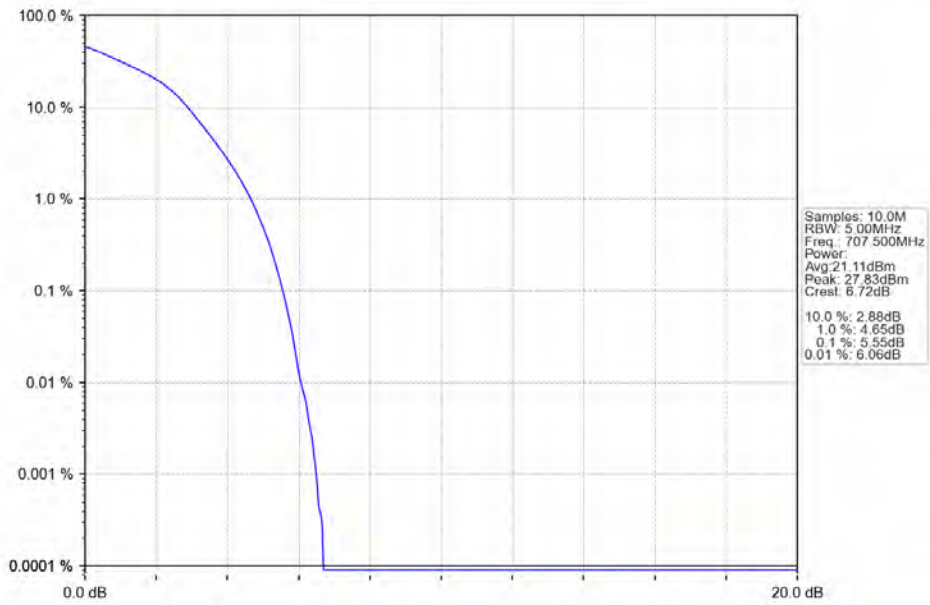




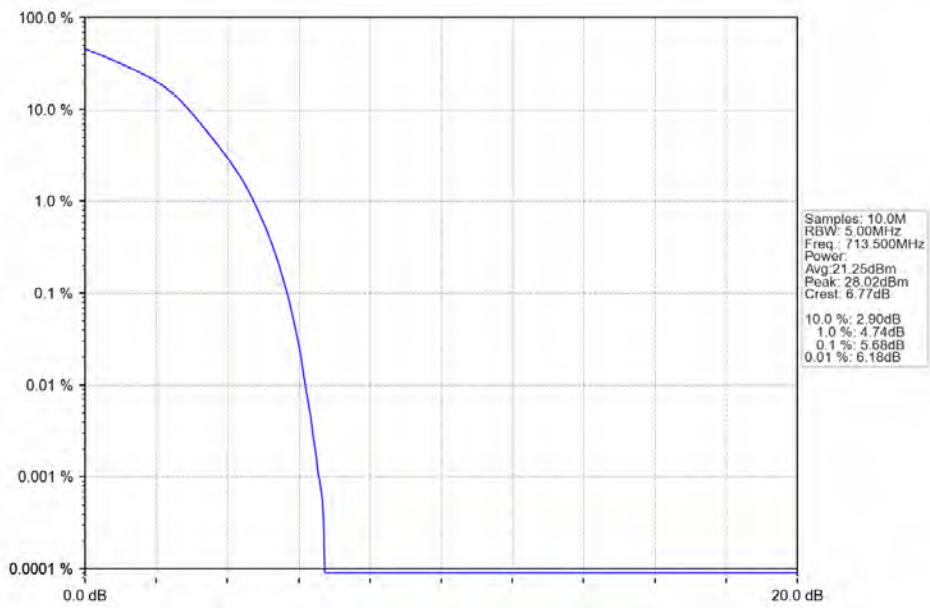
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

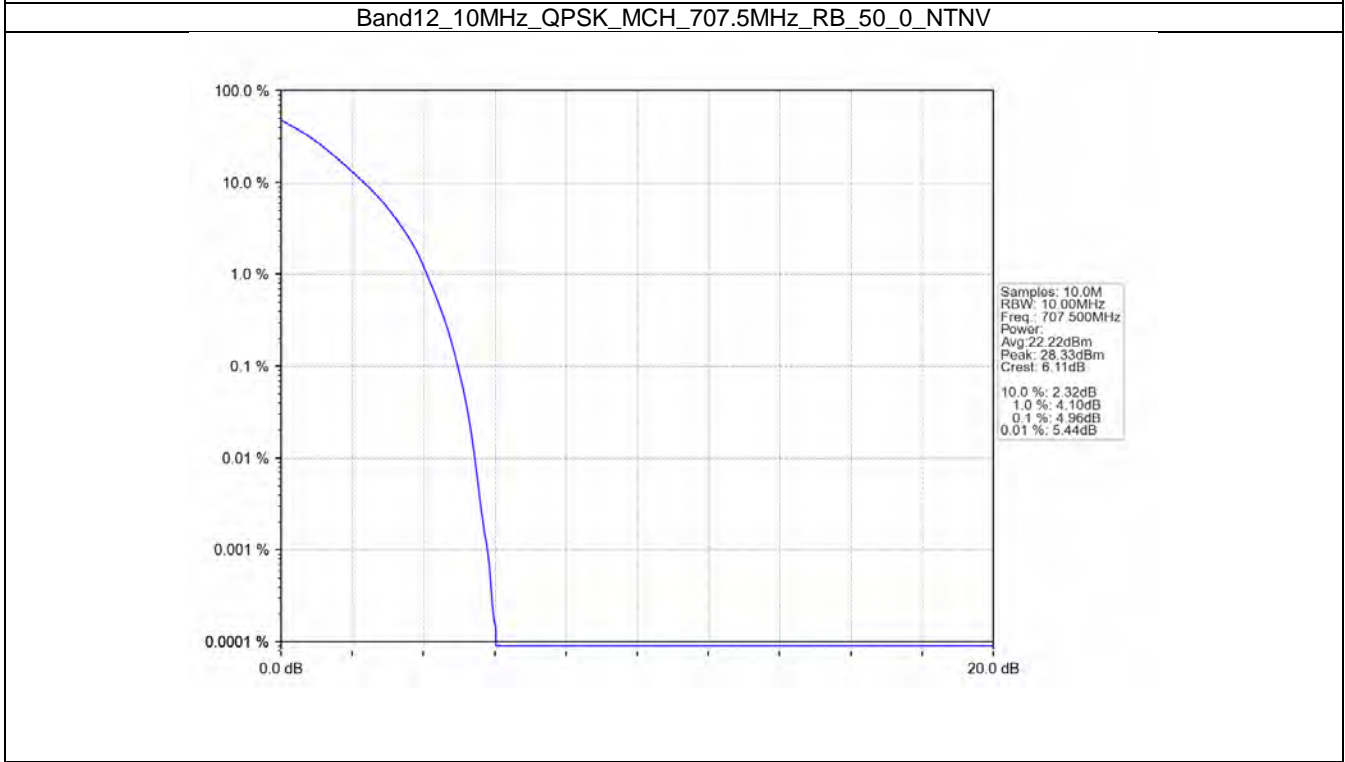
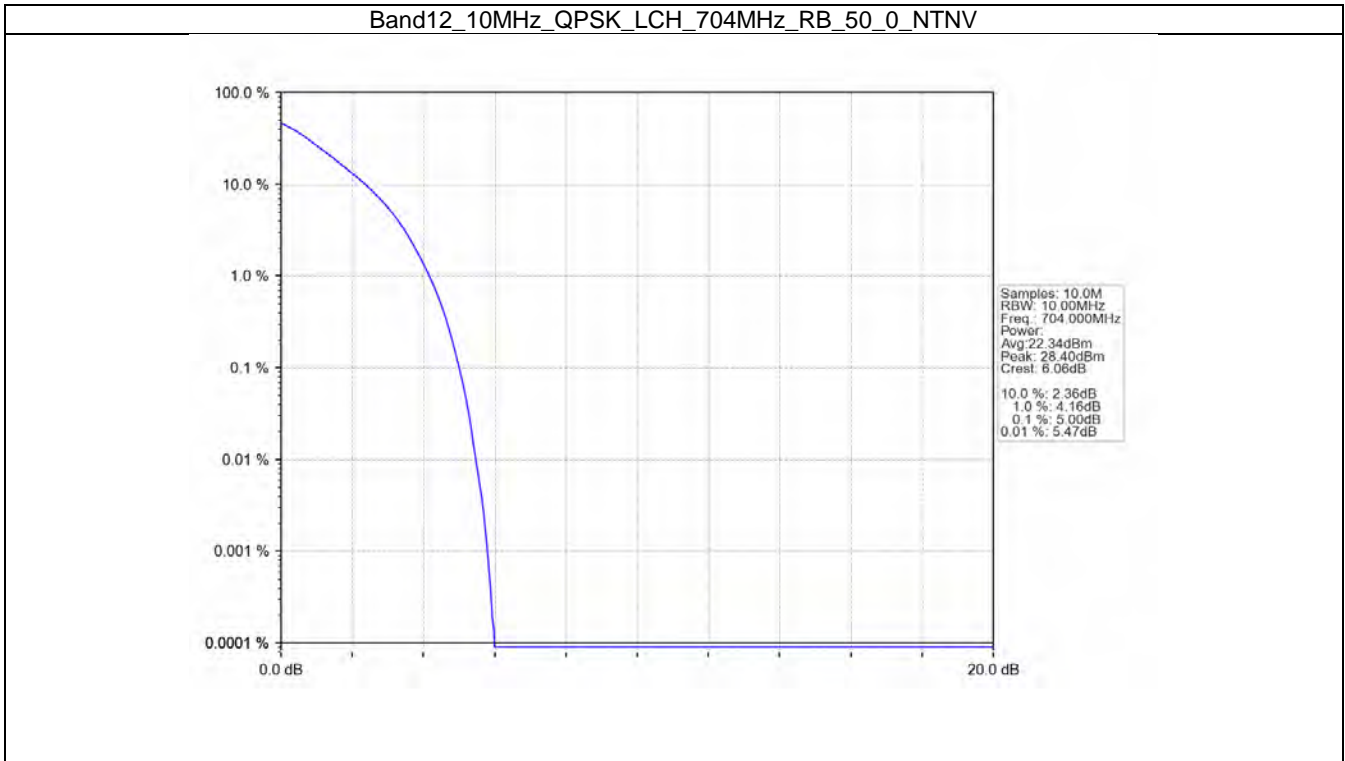


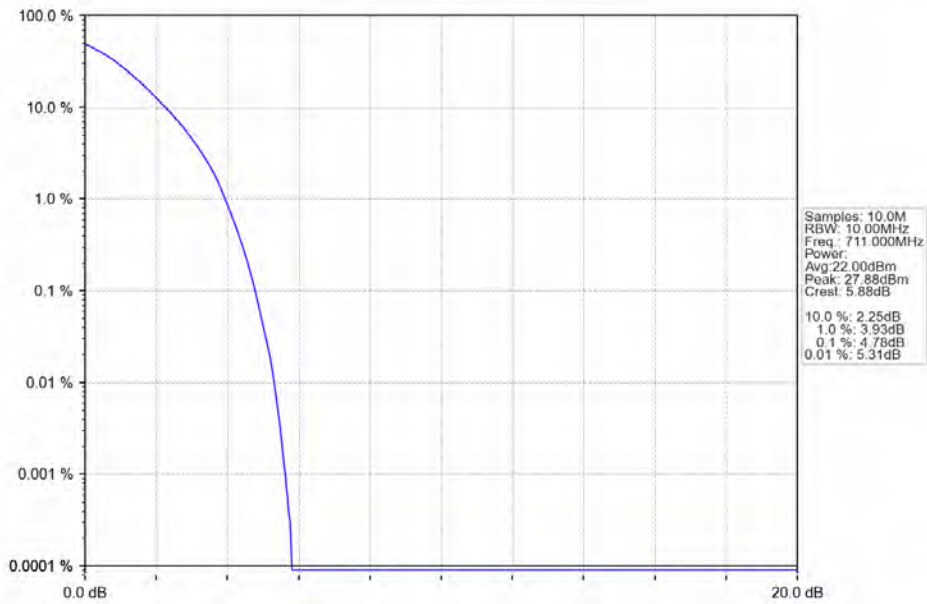
5.4 B12_10MHz

5.4.1 Test Result

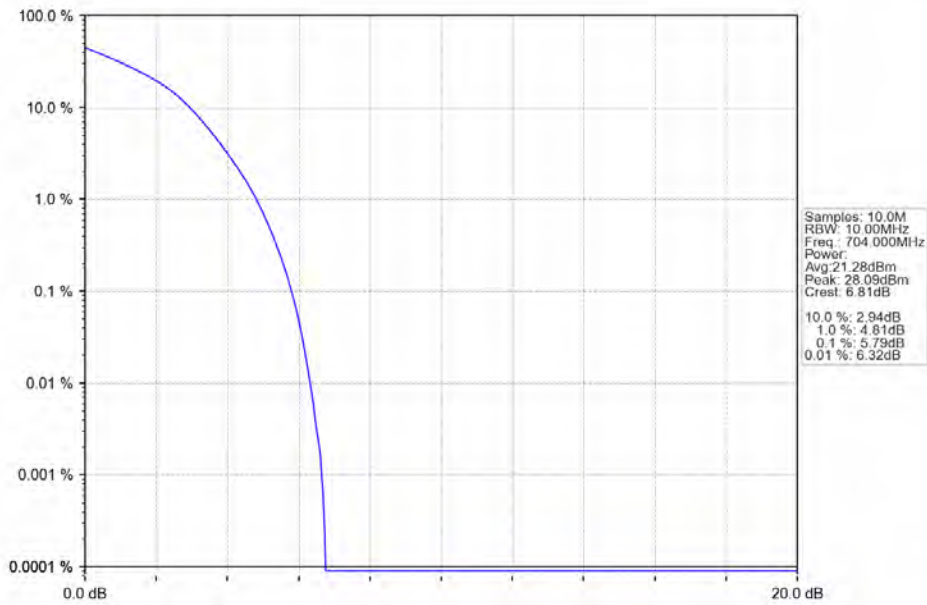
| Band: 12 / Bandwidth: 10MHz / NTNV | | | | | | |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 704 | 50 | 0 | 5.00 | <=13 | Pass |
| | 707.5 | 50 | 0 | 4.96 | <=13 | Pass |
| | 711 | 50 | 0 | 4.78 | <=13 | Pass |
| 16QAM | 704 | 50 | 0 | 5.79 | <=13 | Pass |
| | 707.5 | 50 | 0 | 5.73 | <=13 | Pass |
| | 711 | 50 | 0 | 5.61 | <=13 | Pass |

5.4.2 Test Graph

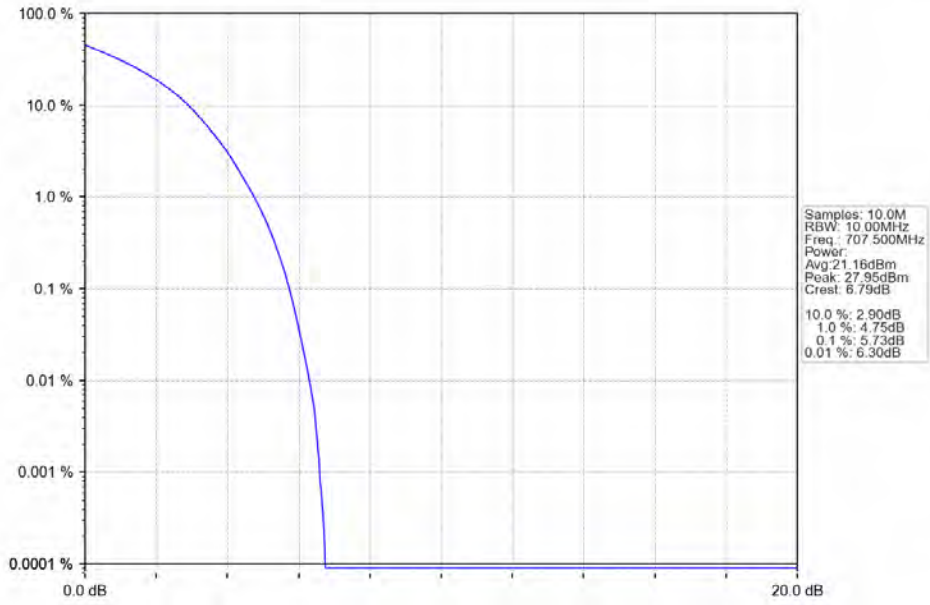




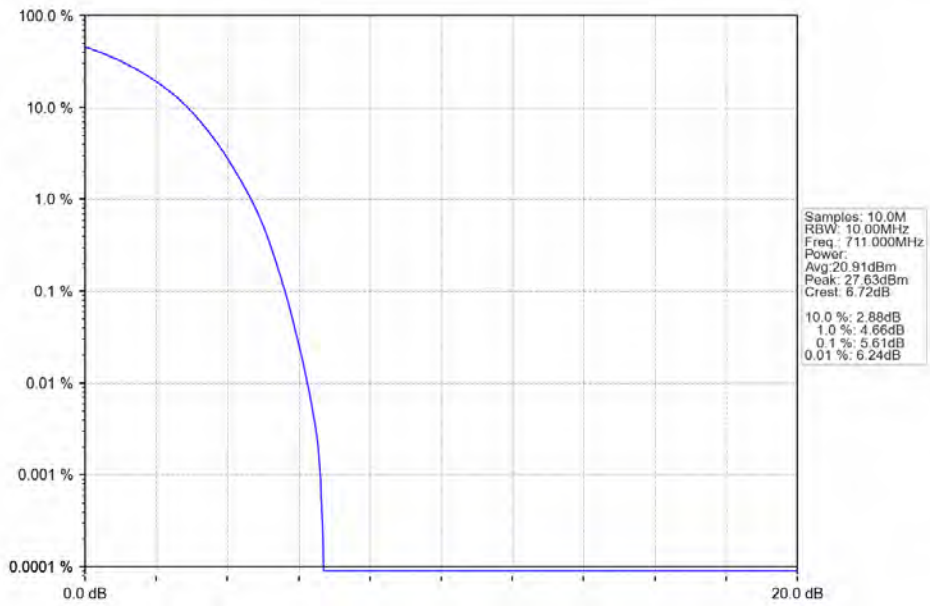
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



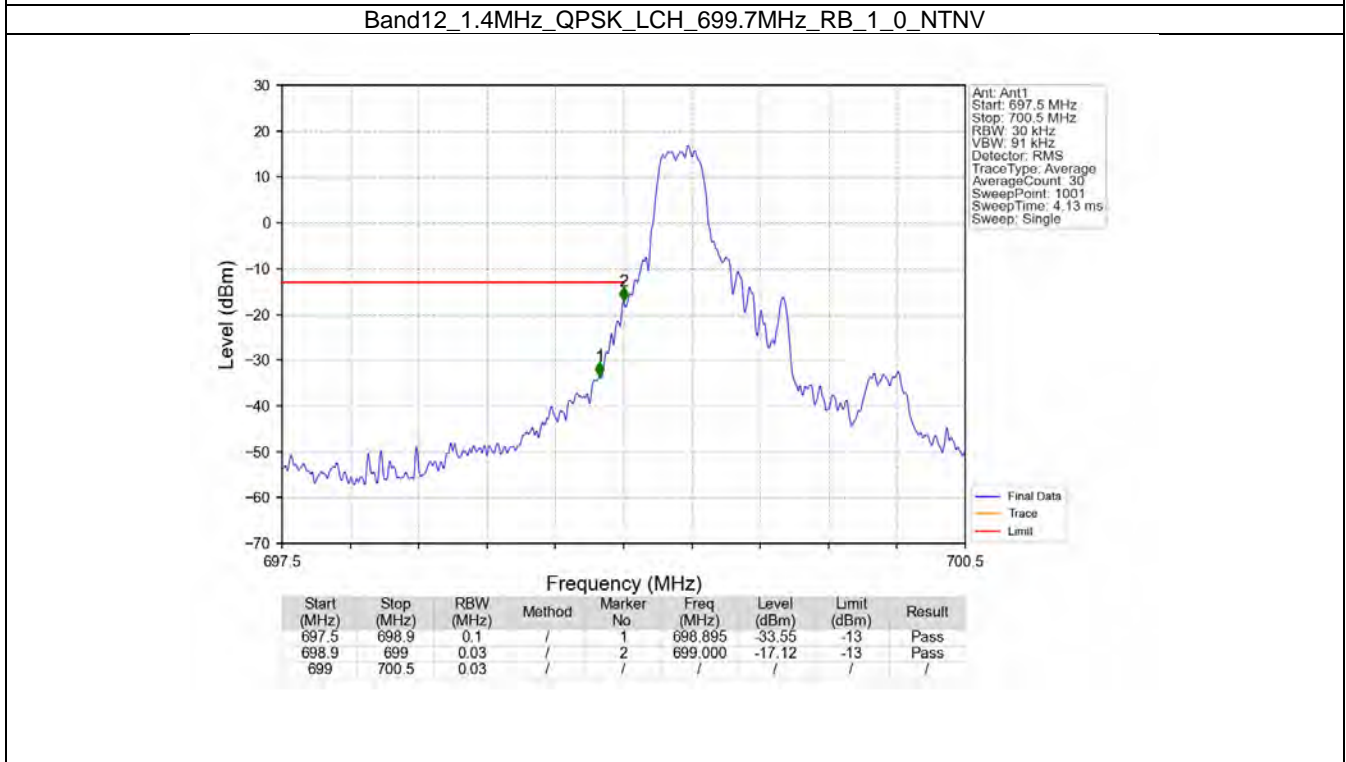
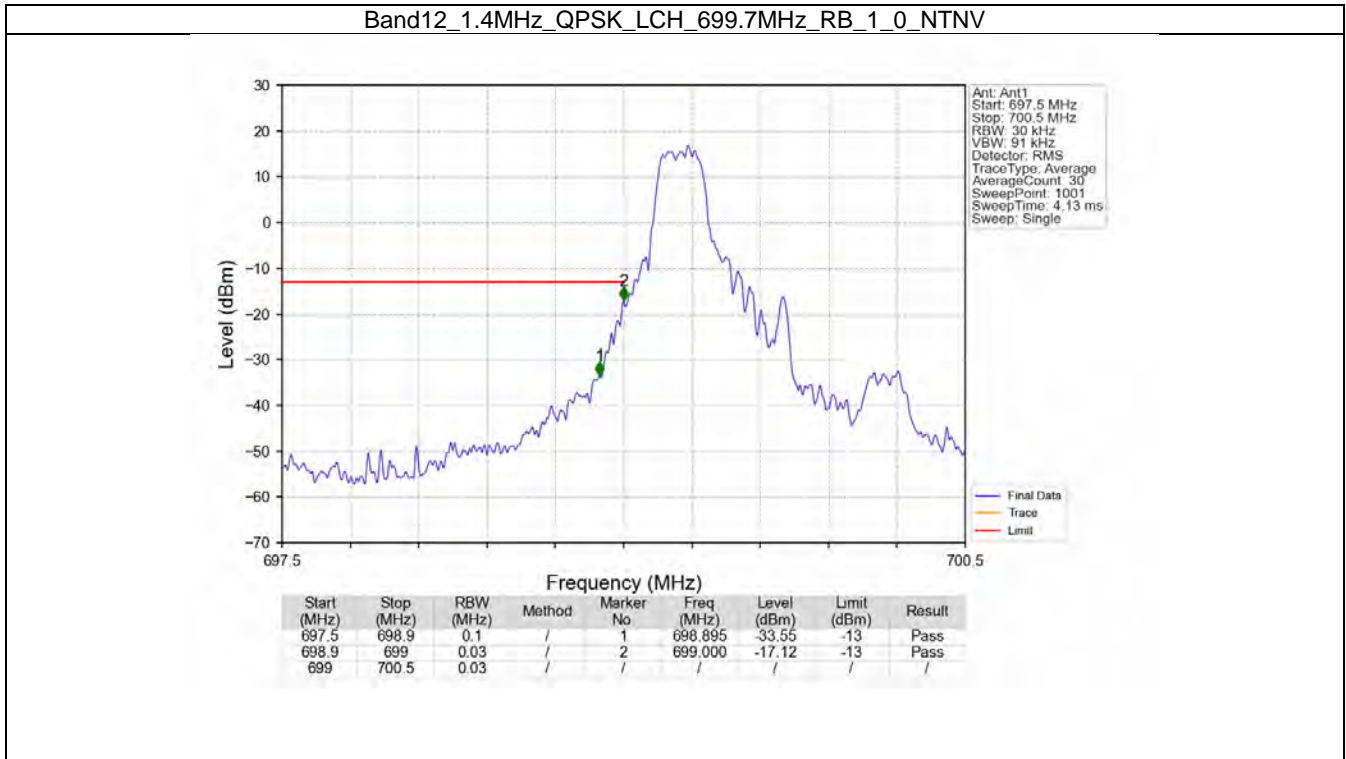
6. Spurious Emission

6.1 B12_1.4MHz

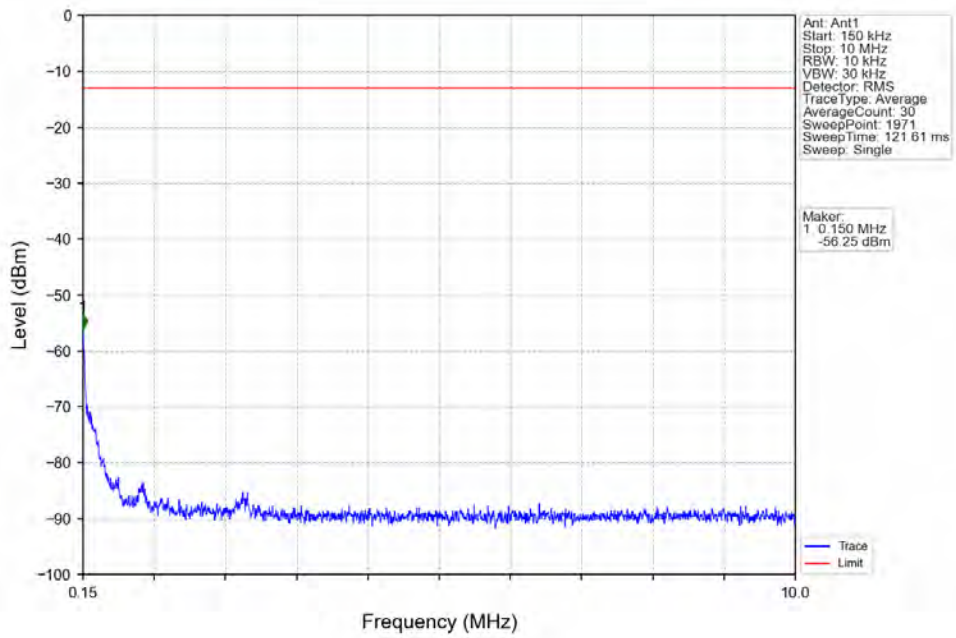
6.1.1 Test Result

| Band: 12 / Bandwidth: 1.4MHz / NTV | | | | | | |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 699.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 715.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 16QAM | 699.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 715.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

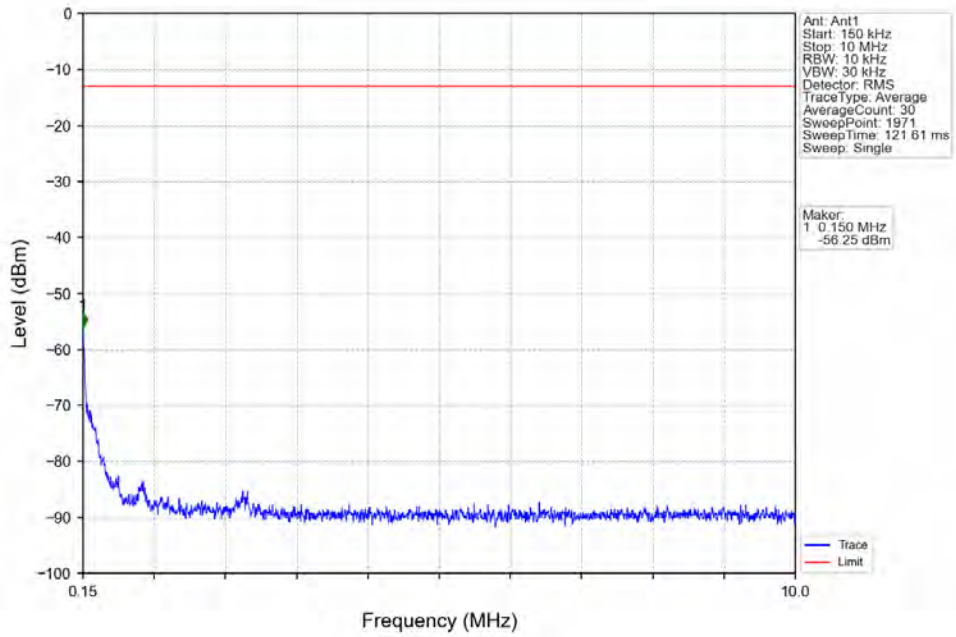
6.1.2 Test Graph



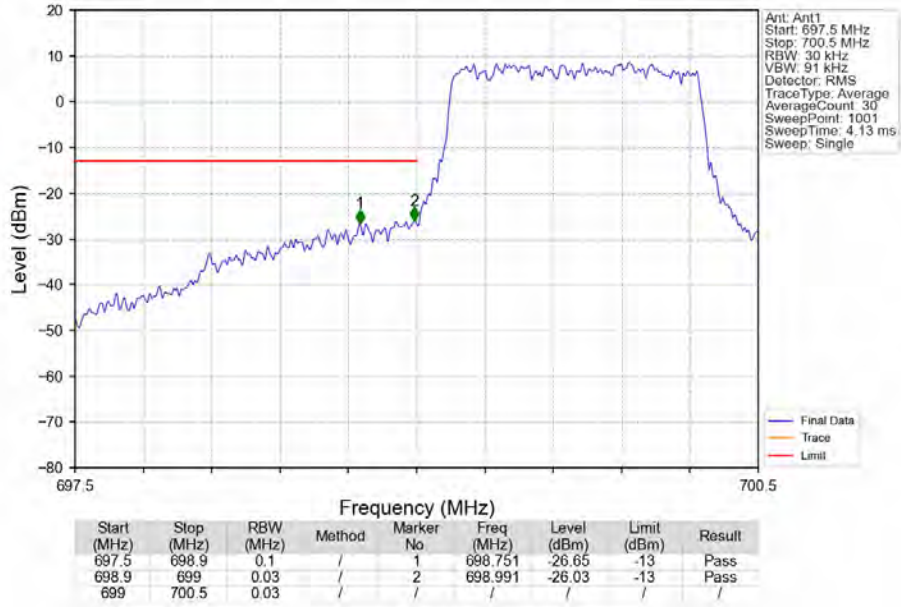
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



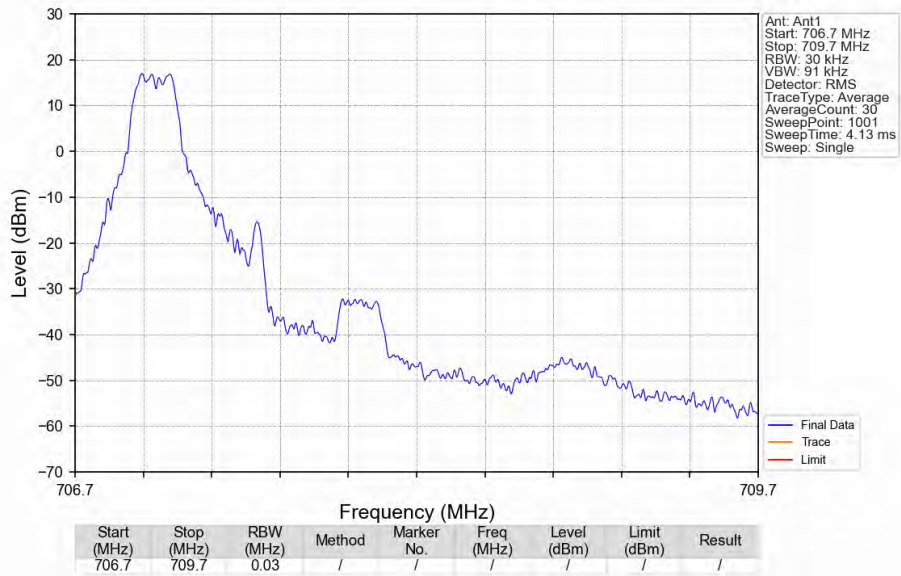
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



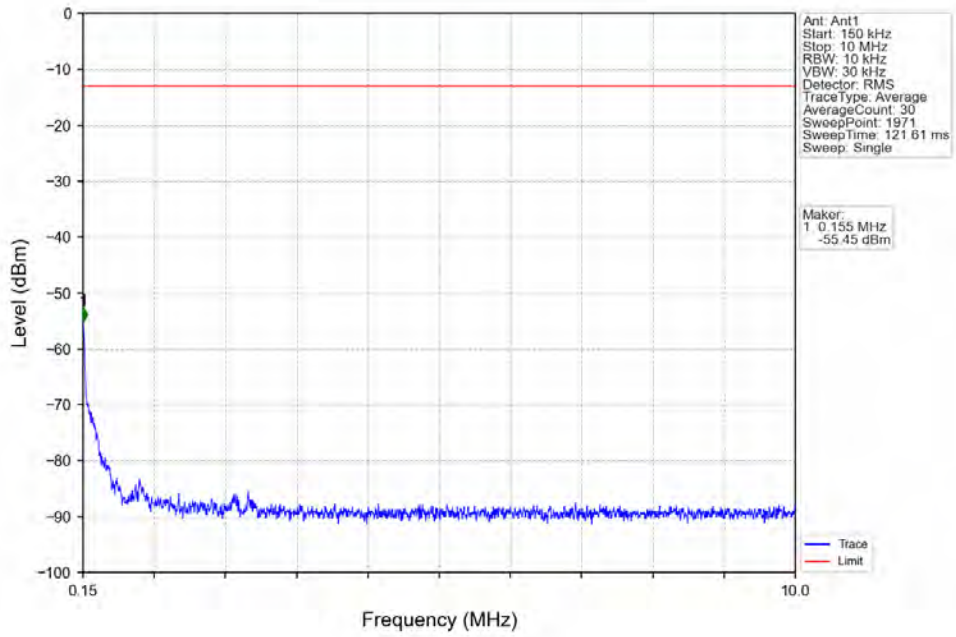
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



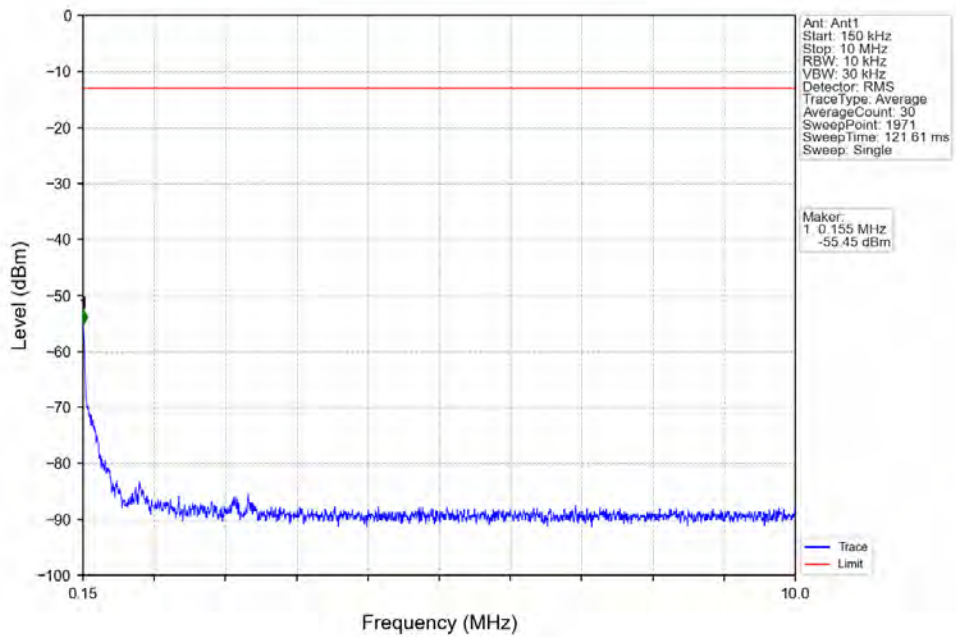
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



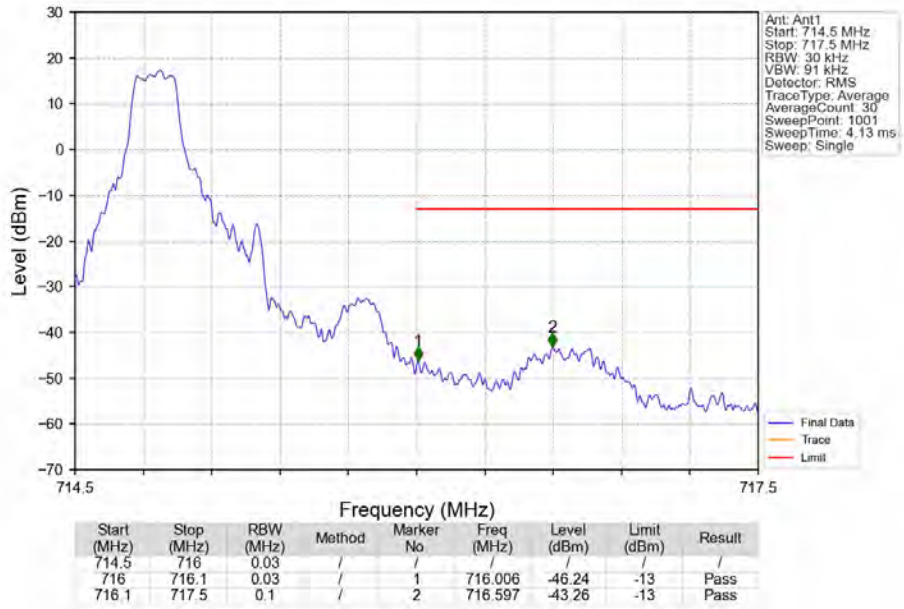
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



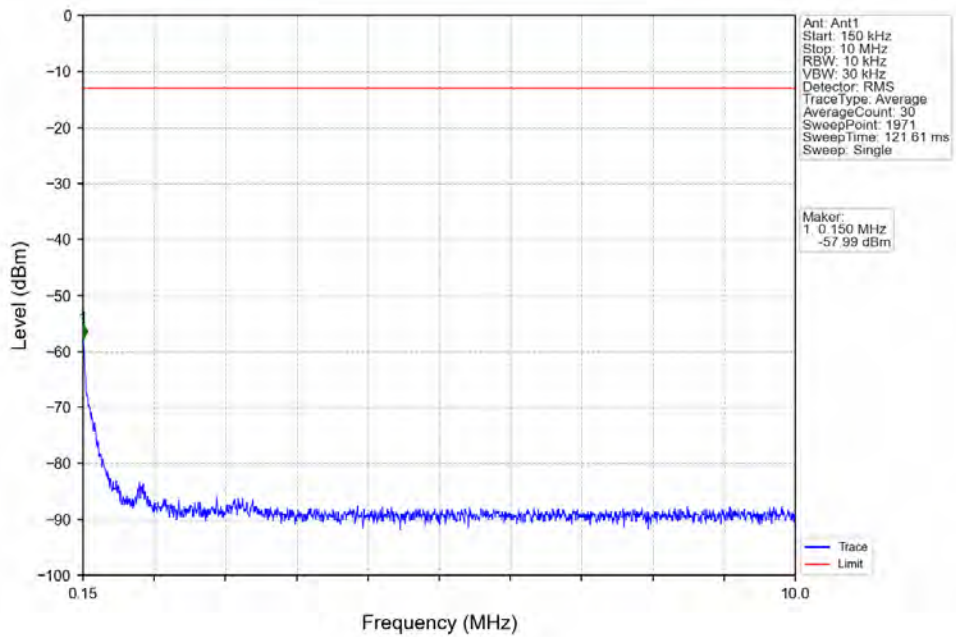
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



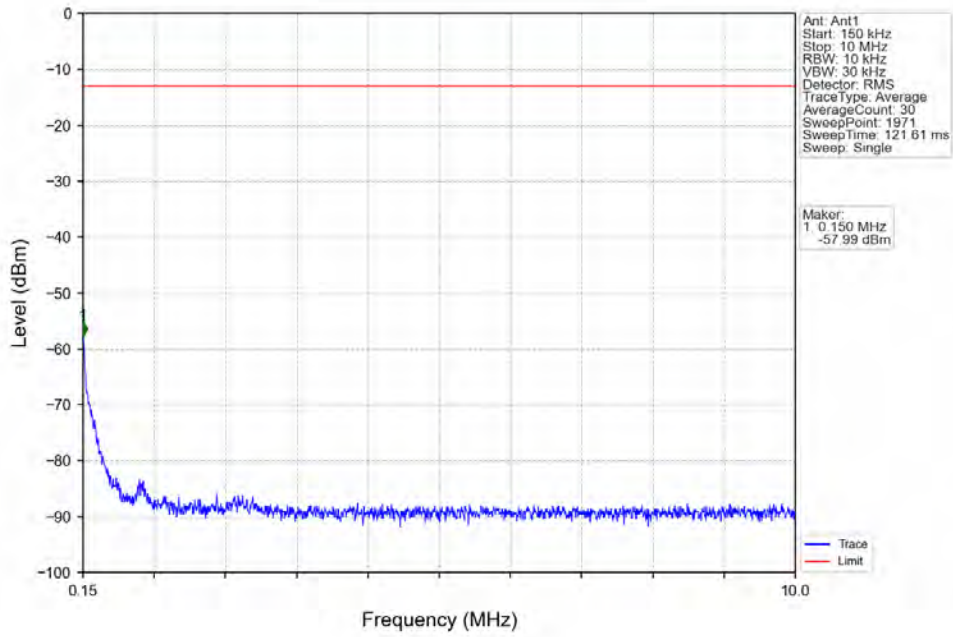
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



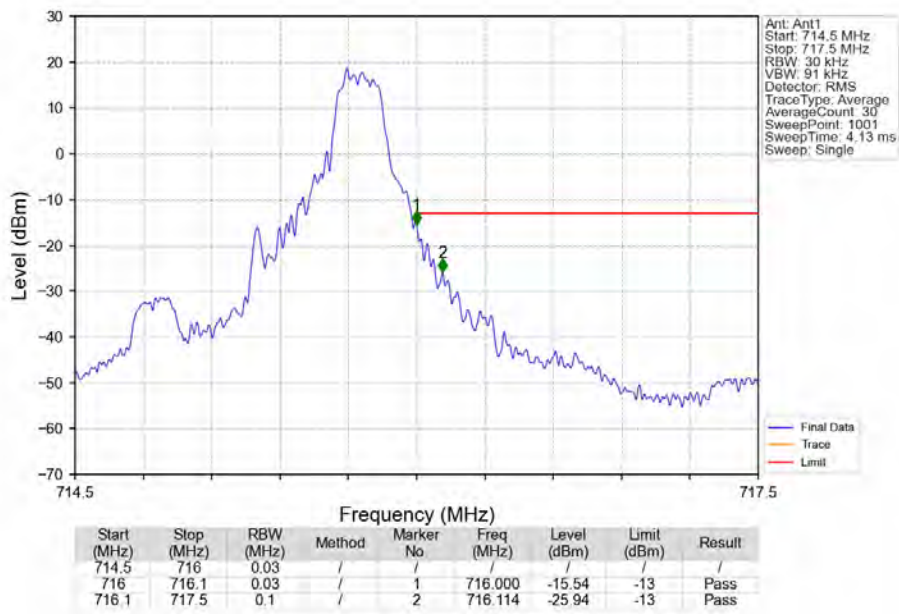
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



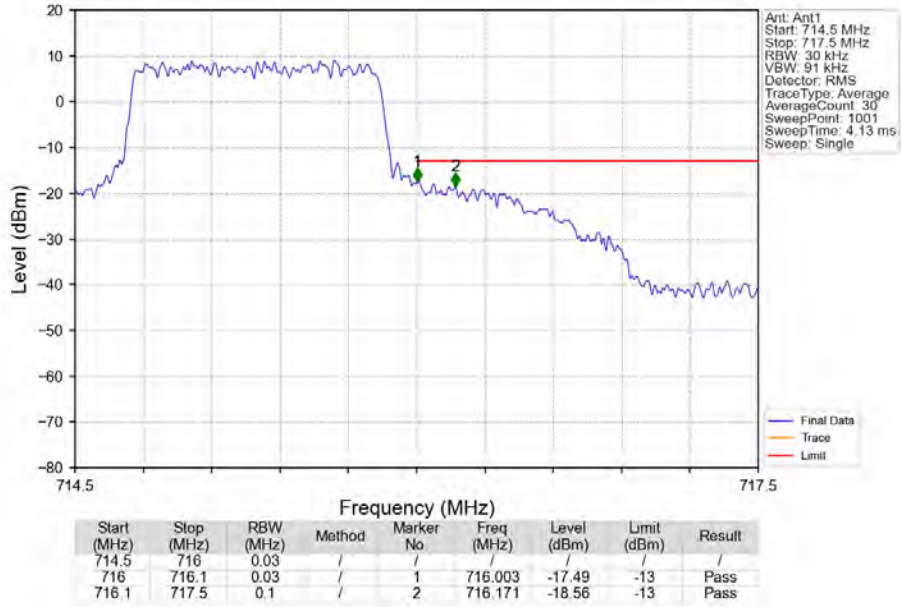
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTV



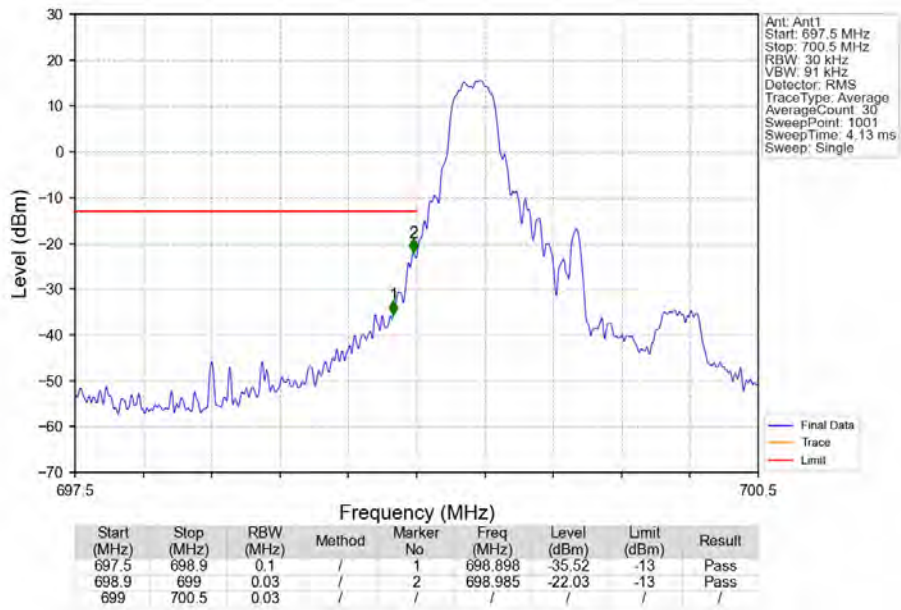
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTV



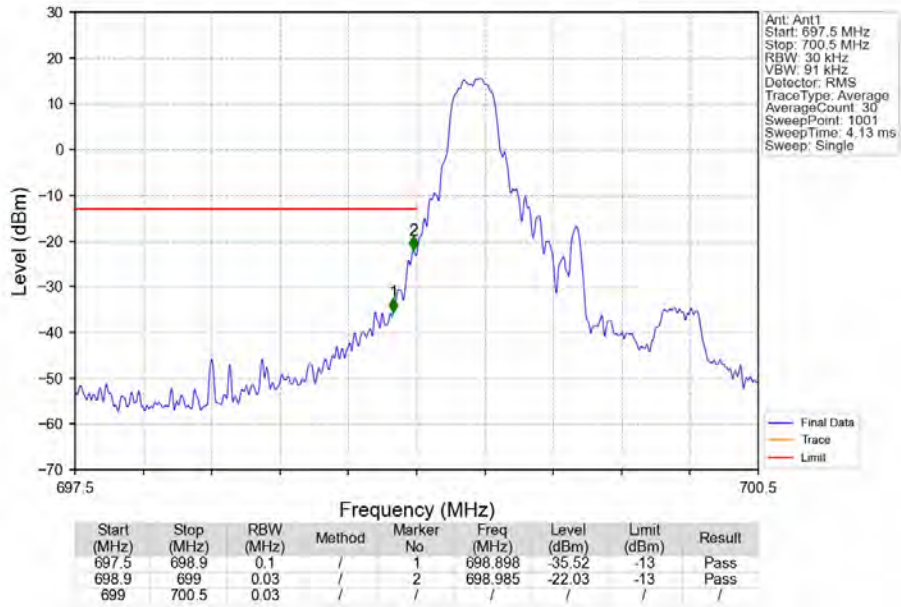
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



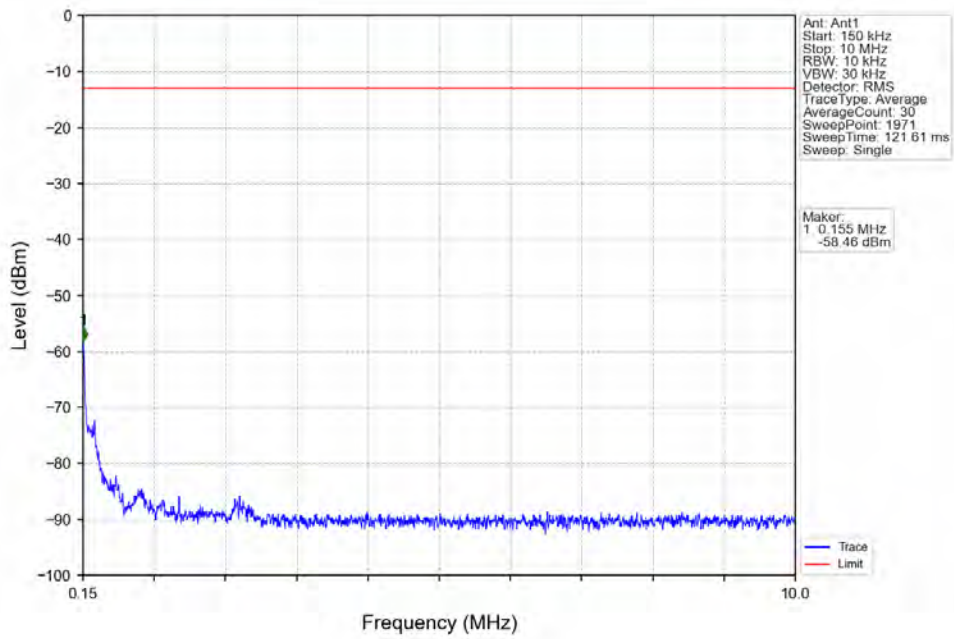
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



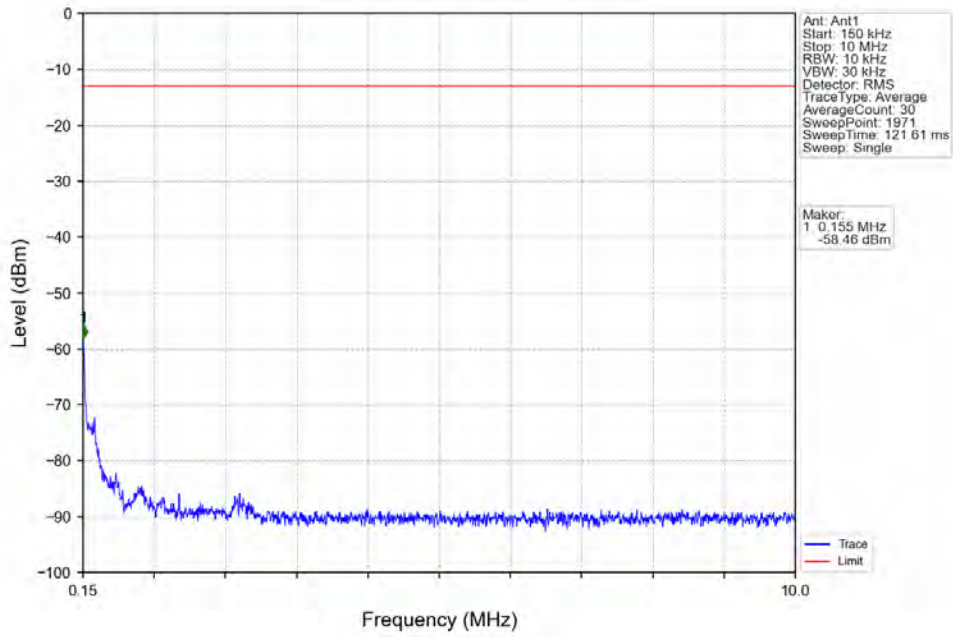
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



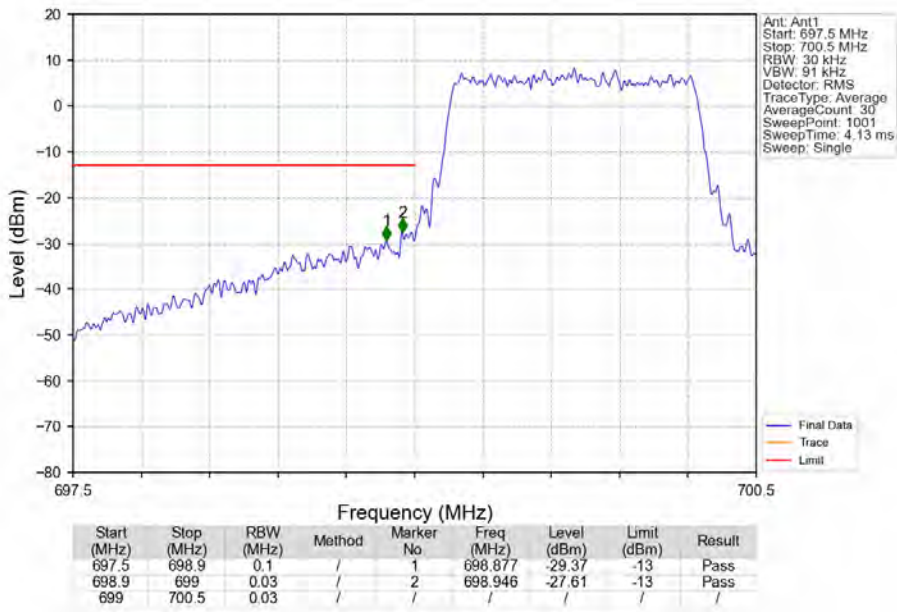
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



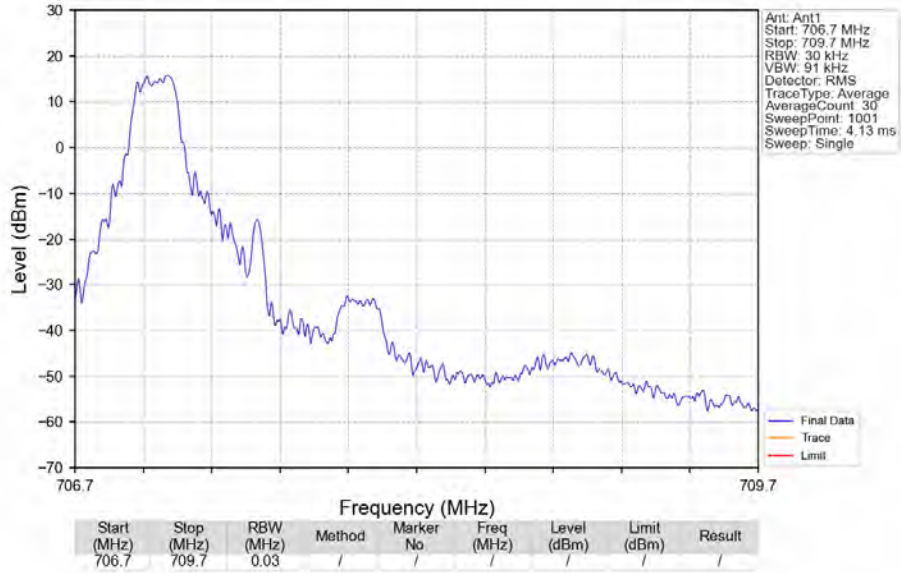
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



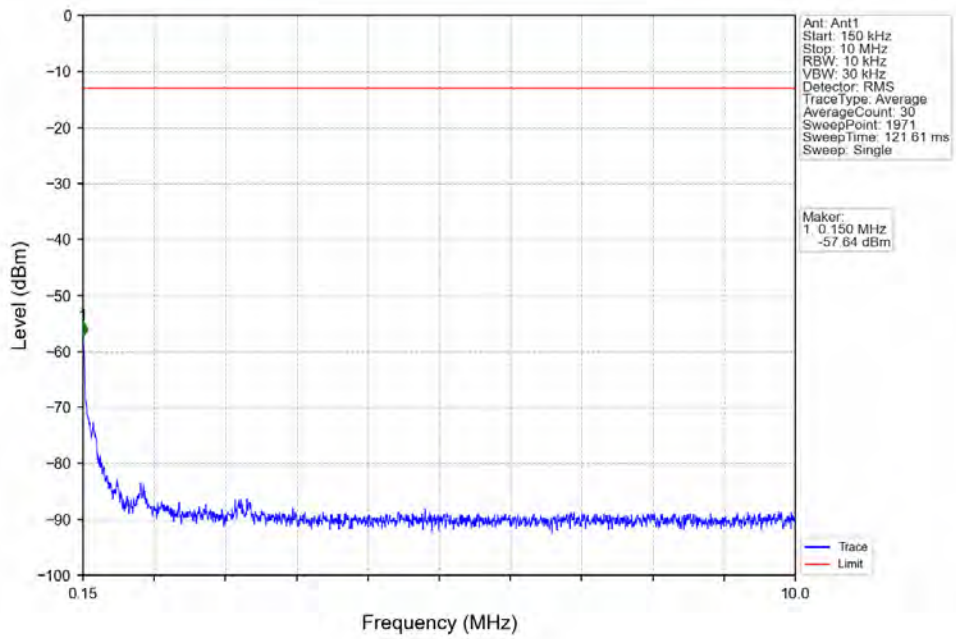
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



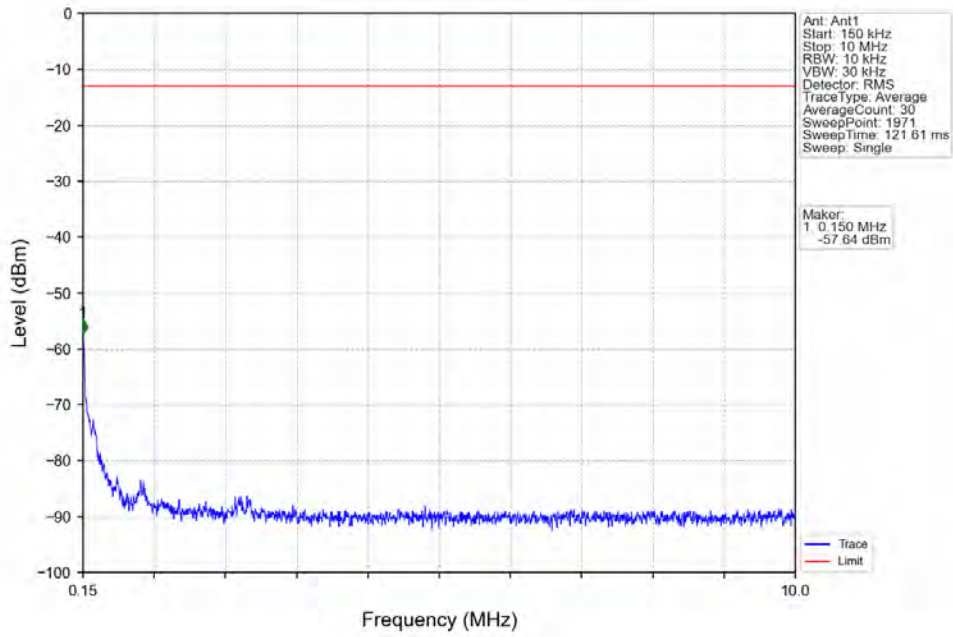
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



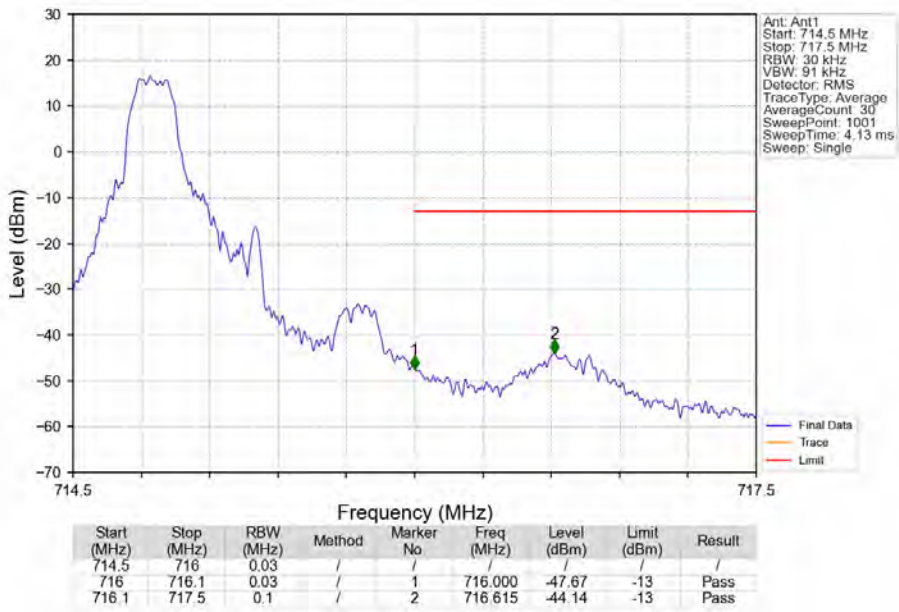
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



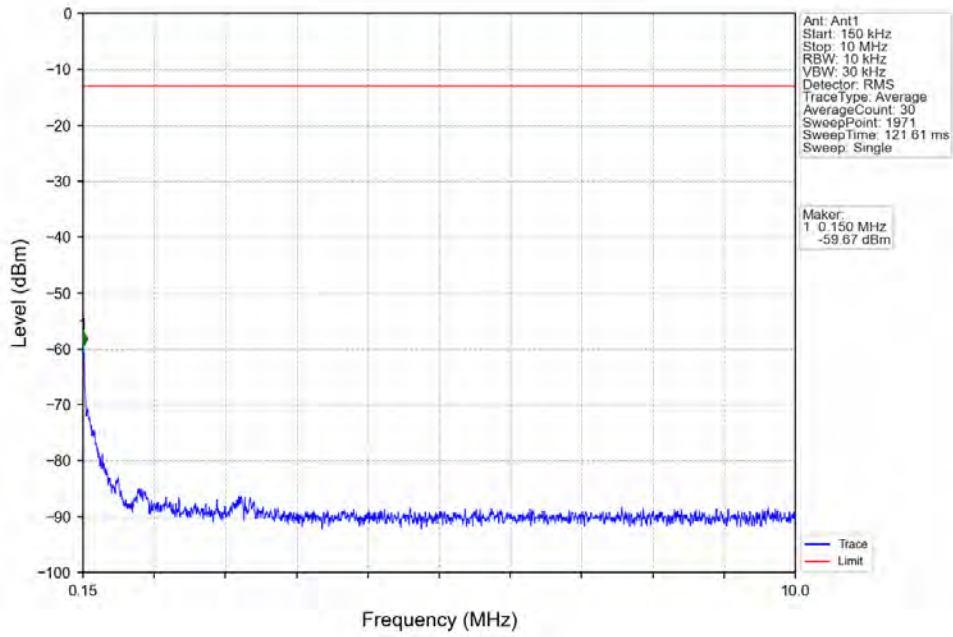
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



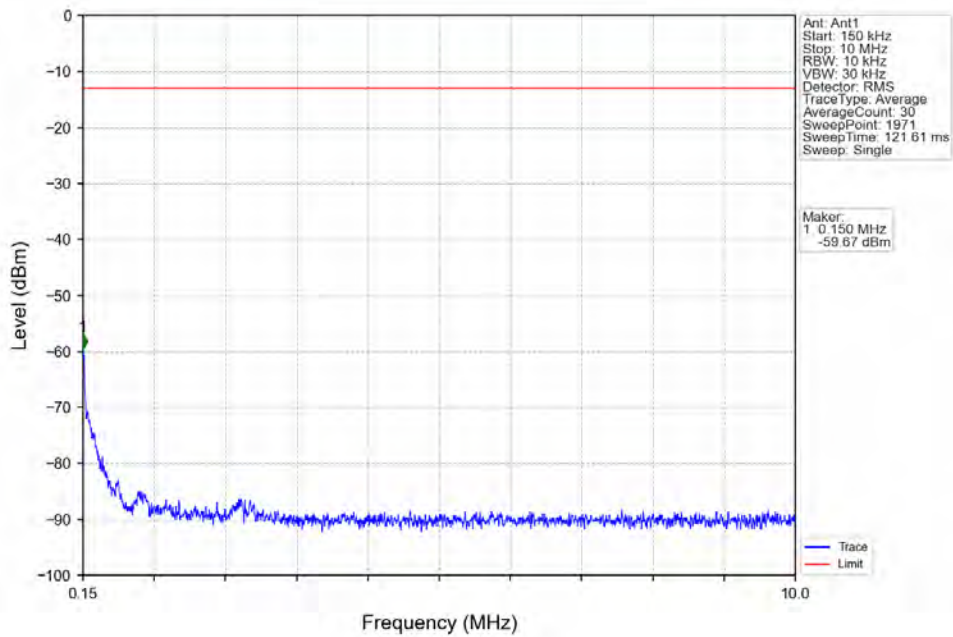
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



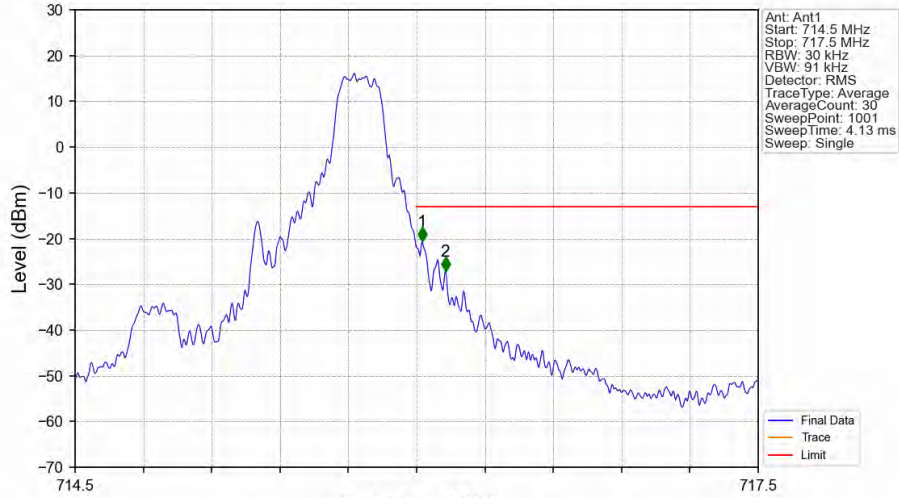
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

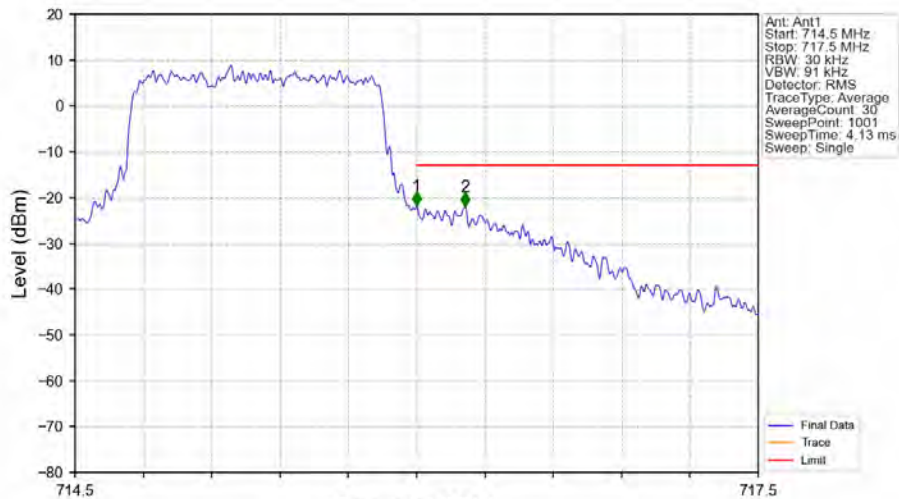


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.024 | -20.67 | -13 | Pass |
| 716.1 | 717.5 | 0.1 | / | 2 | 716.126 | -27.10 | -13 | Pass |

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



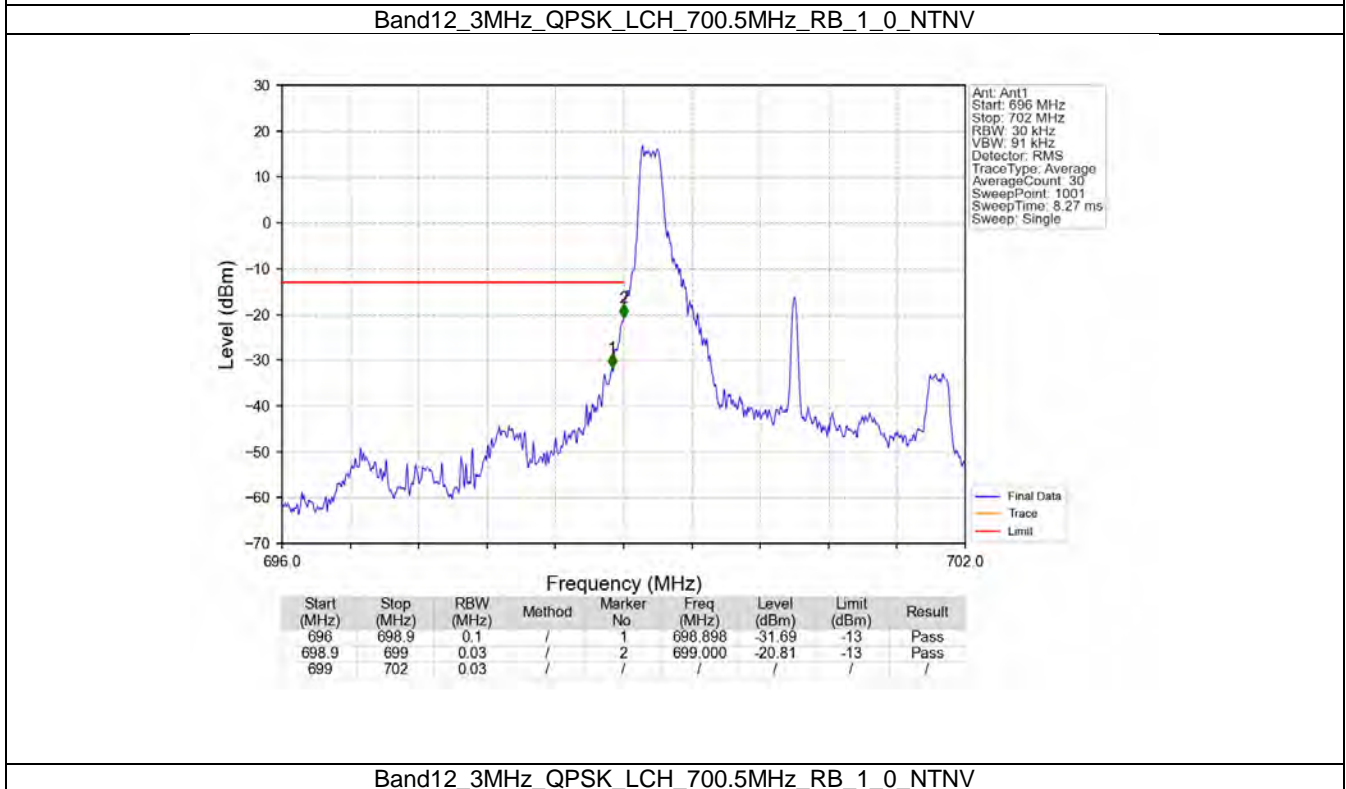
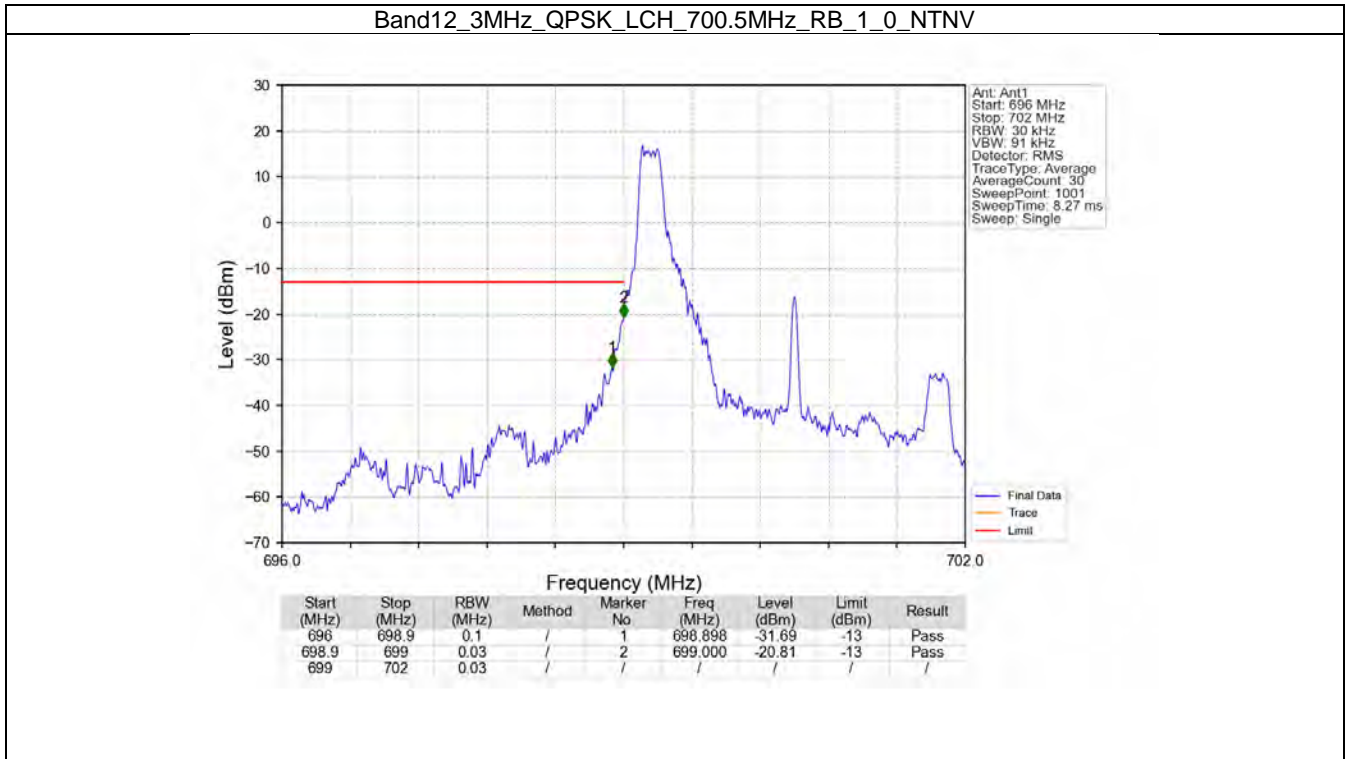
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.000 | -21.79 | -13 | Pass |
| 716.1 | 717.5 | 0.1 | / | 2 | 716.213 | -21.99 | -13 | Pass |

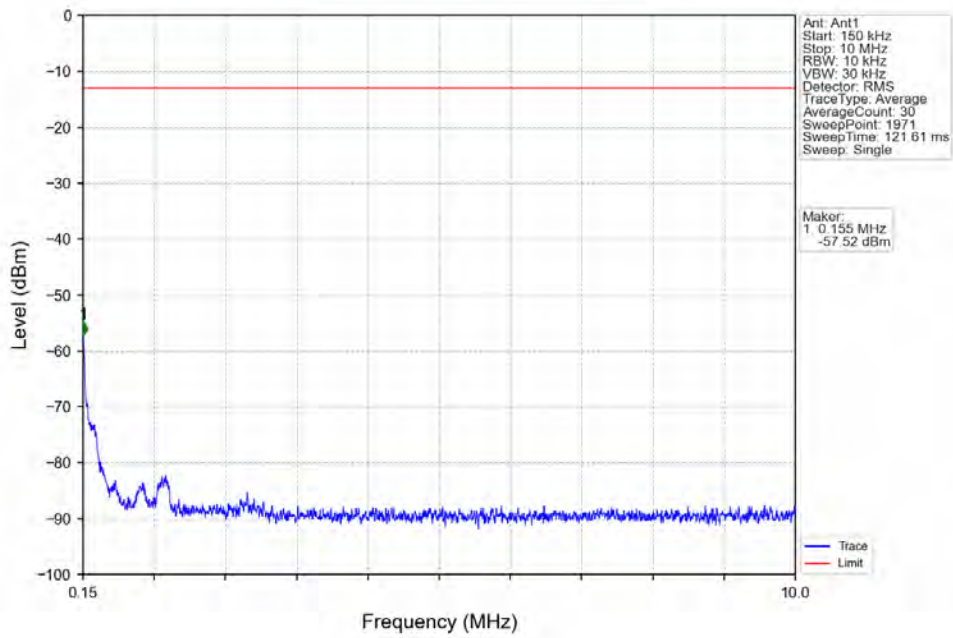
6.2 B12_3MHz

6.2.1 Test Result

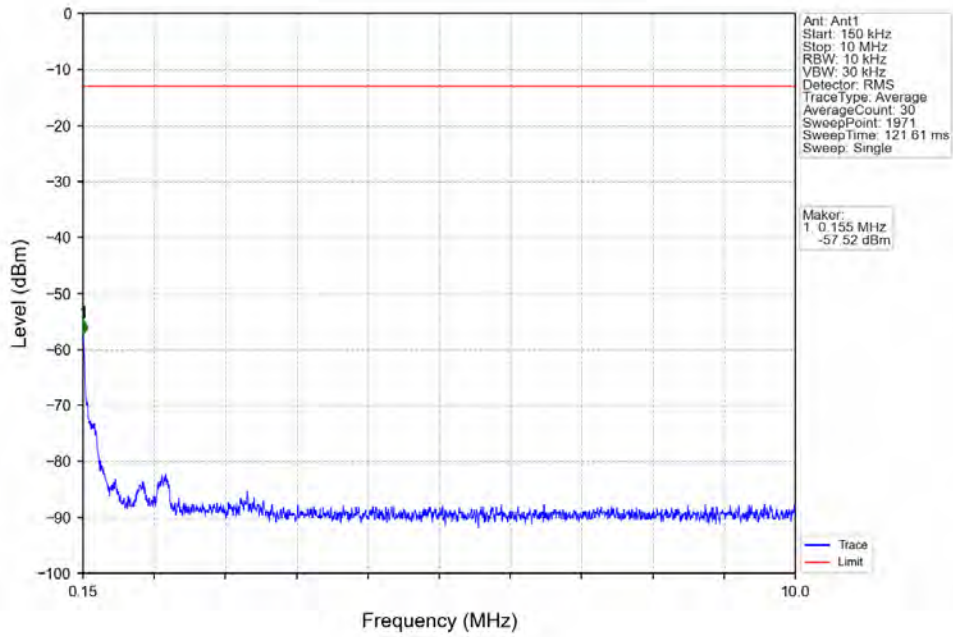
| Band: 12 / Bandwidth: 3MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 700.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 714.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 700.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 714.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

6.2.2 Test Graph

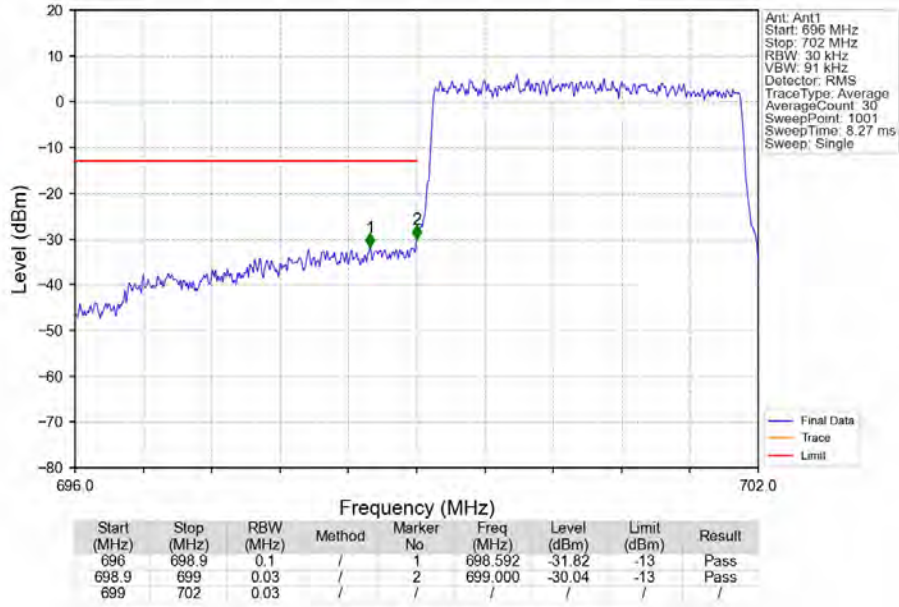




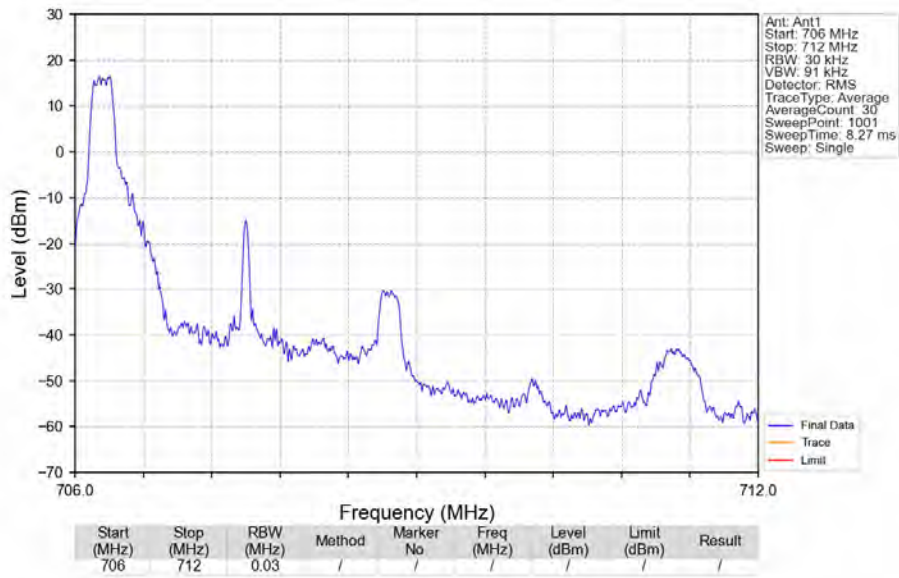
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



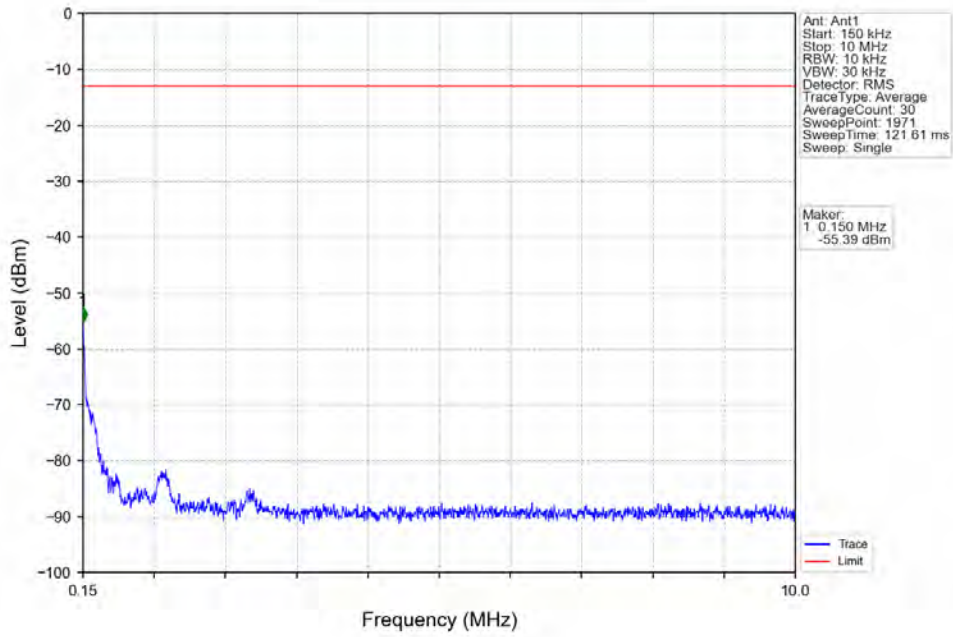
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



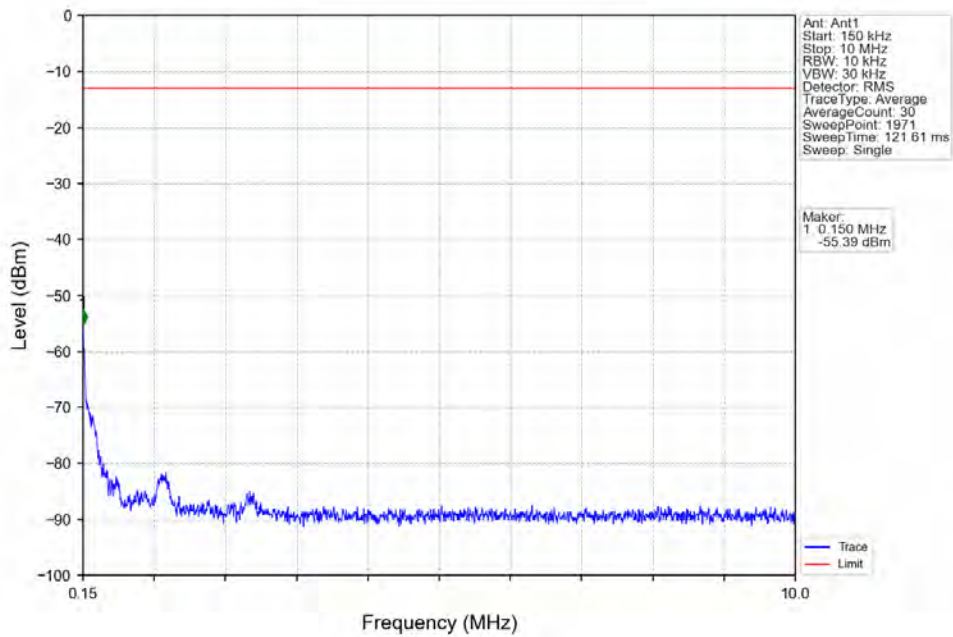
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



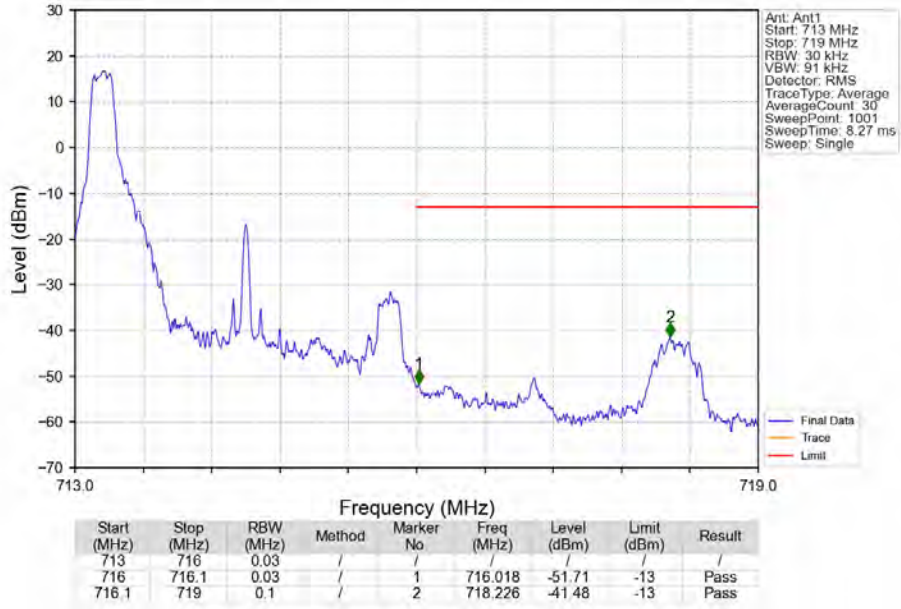
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



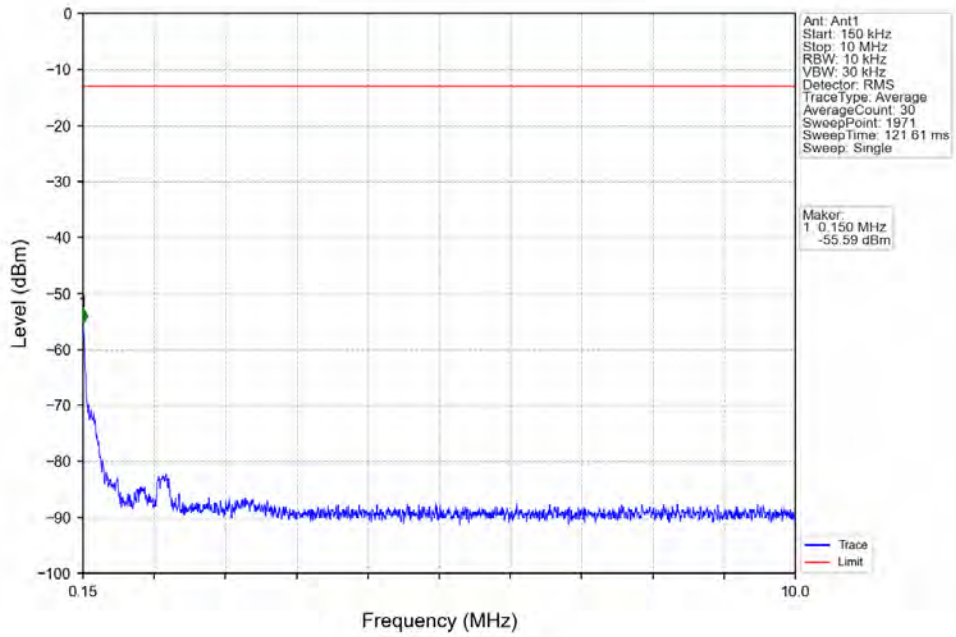
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



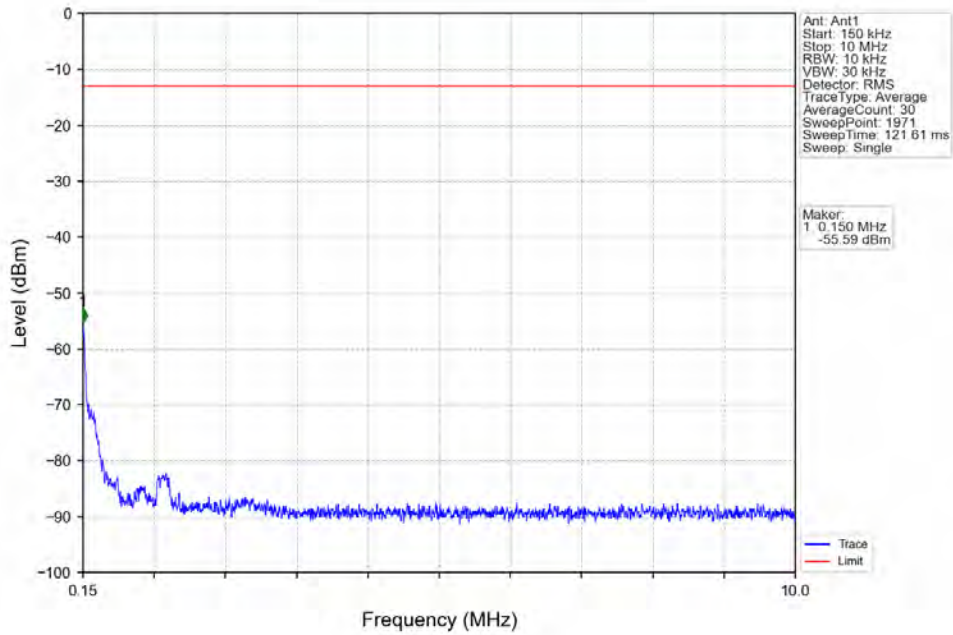
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



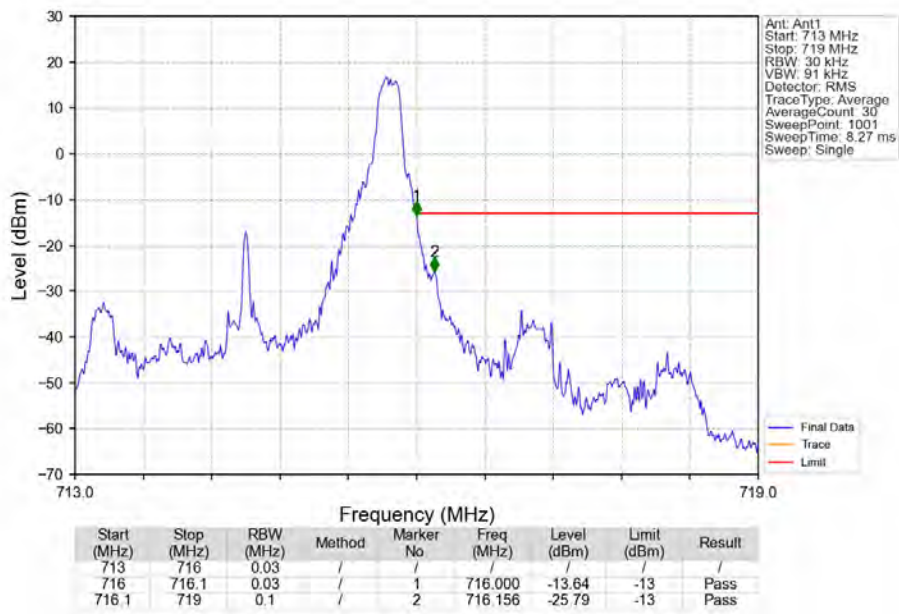
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



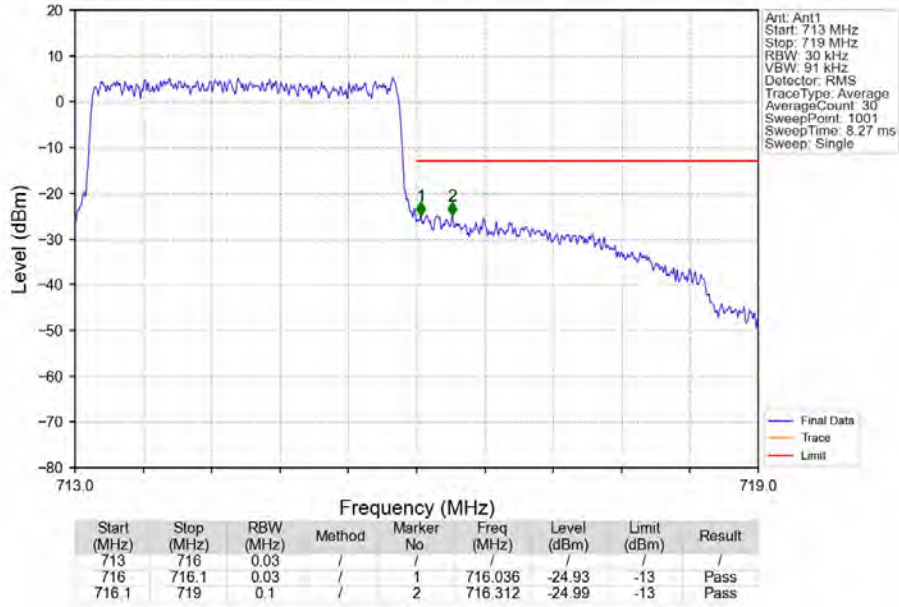
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



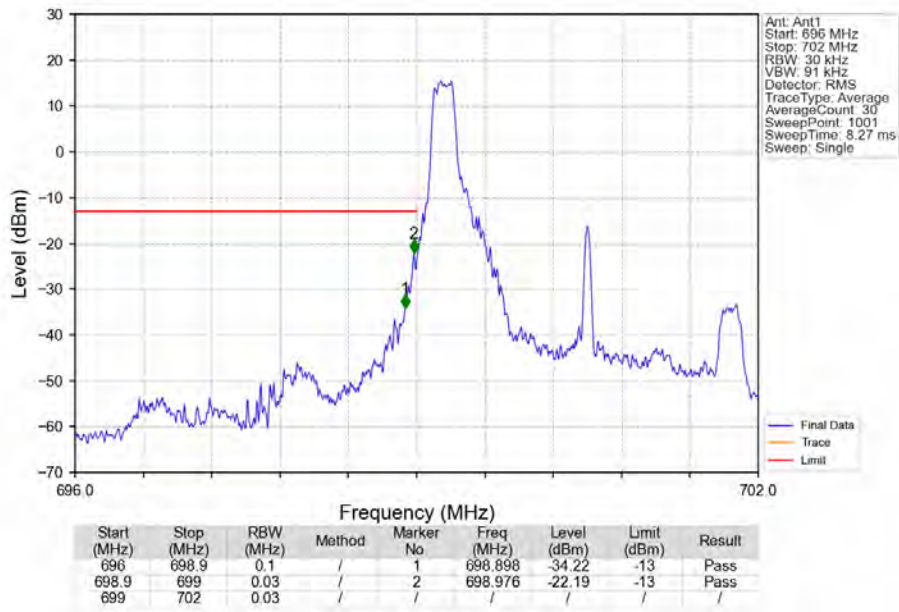
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



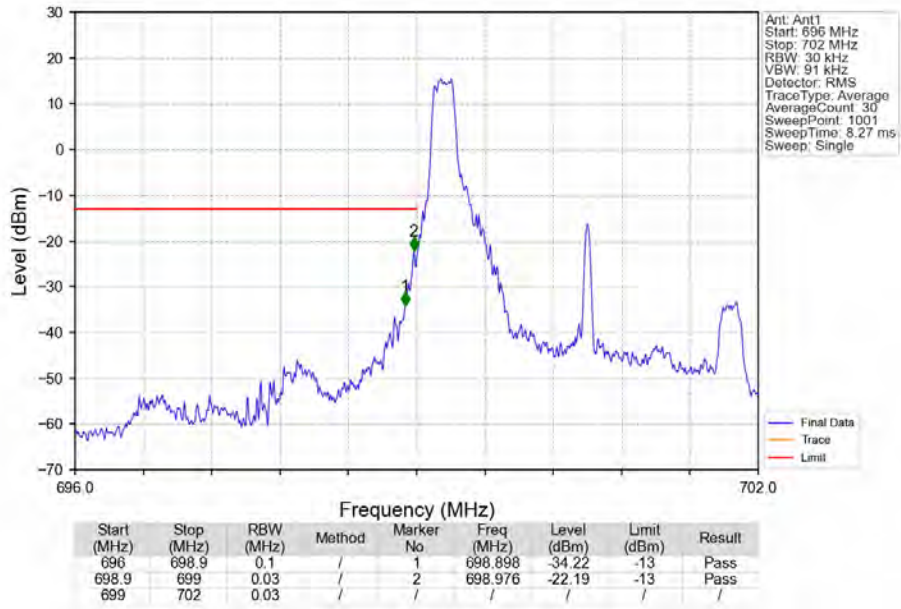
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



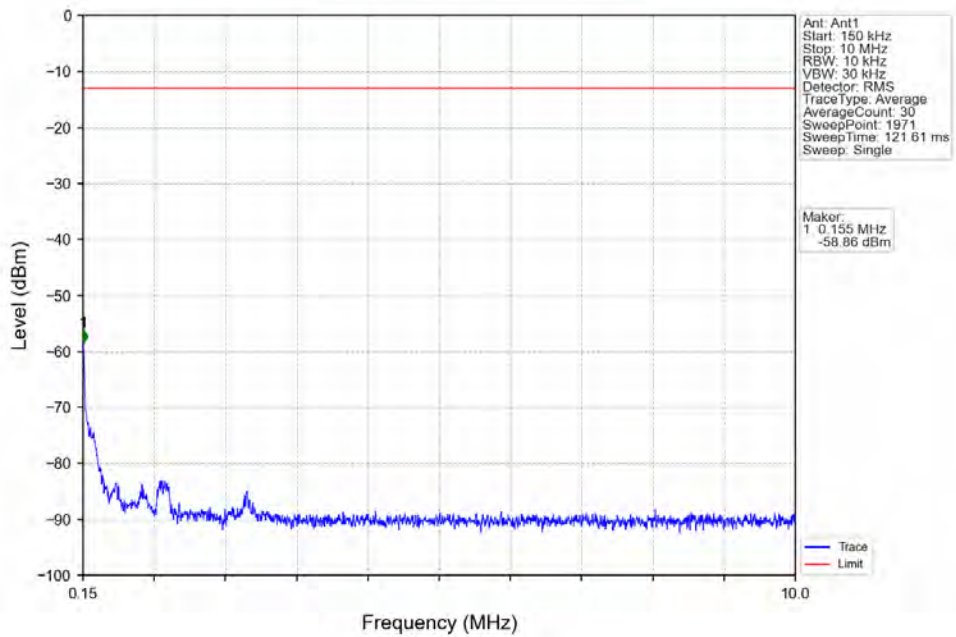
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



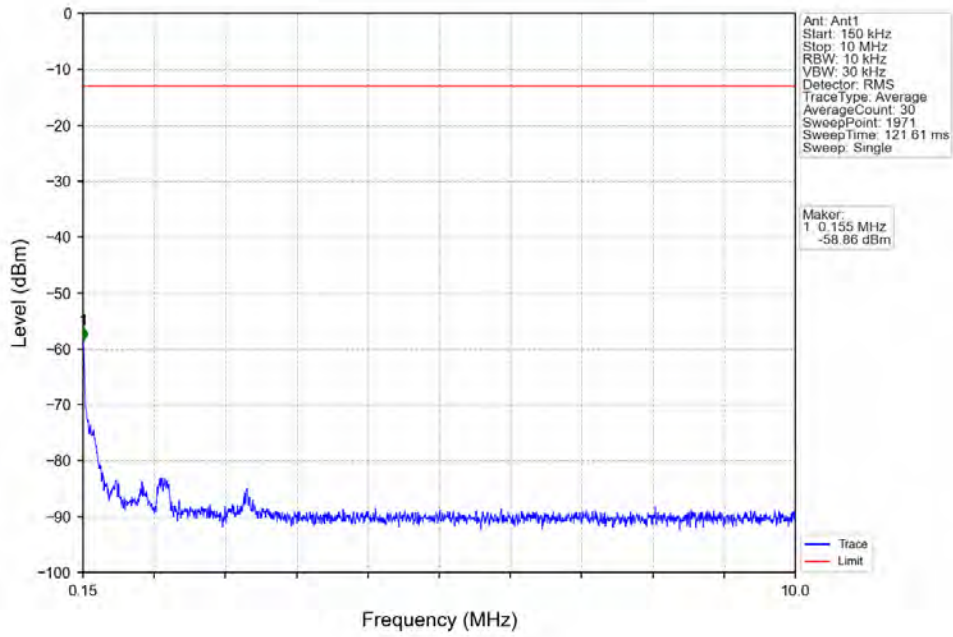
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



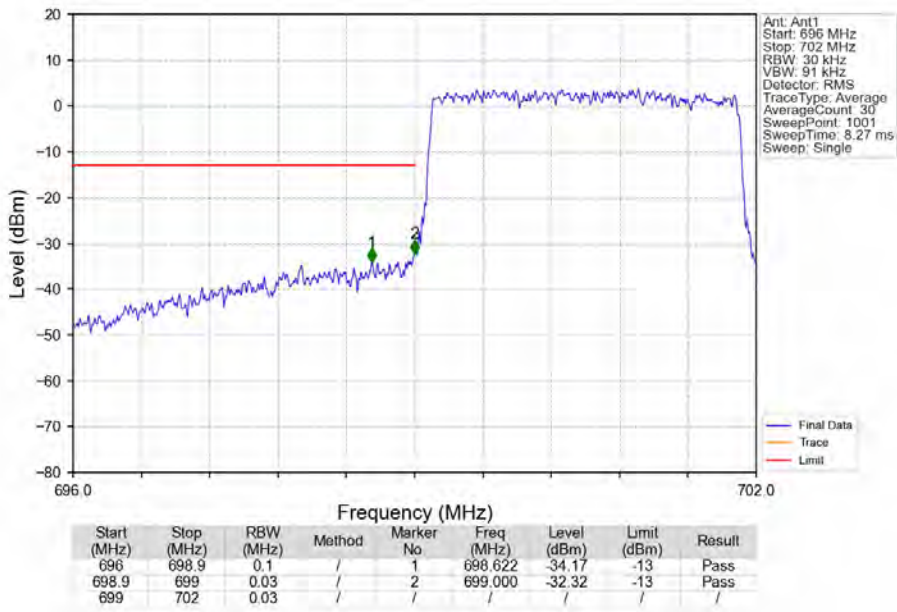
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



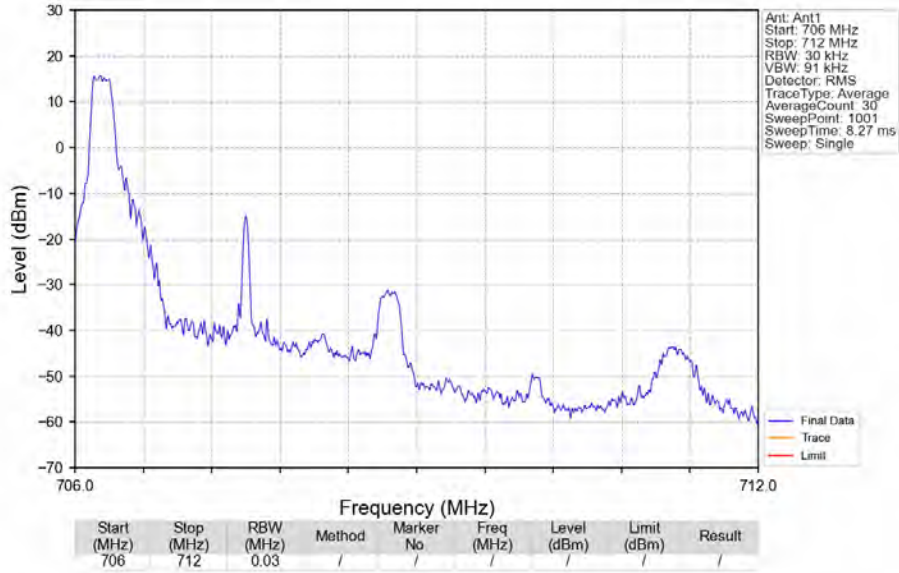
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



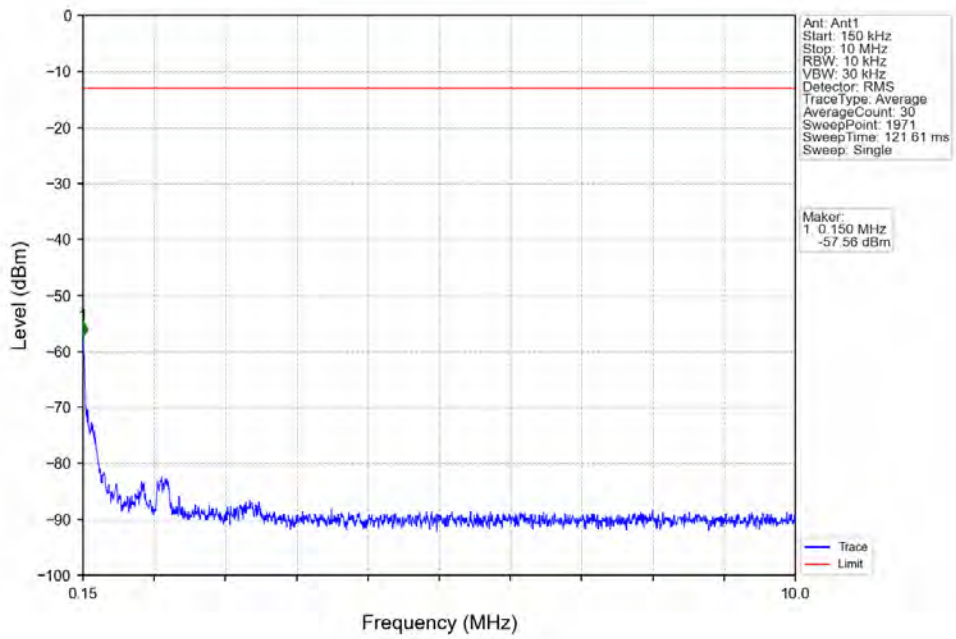
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



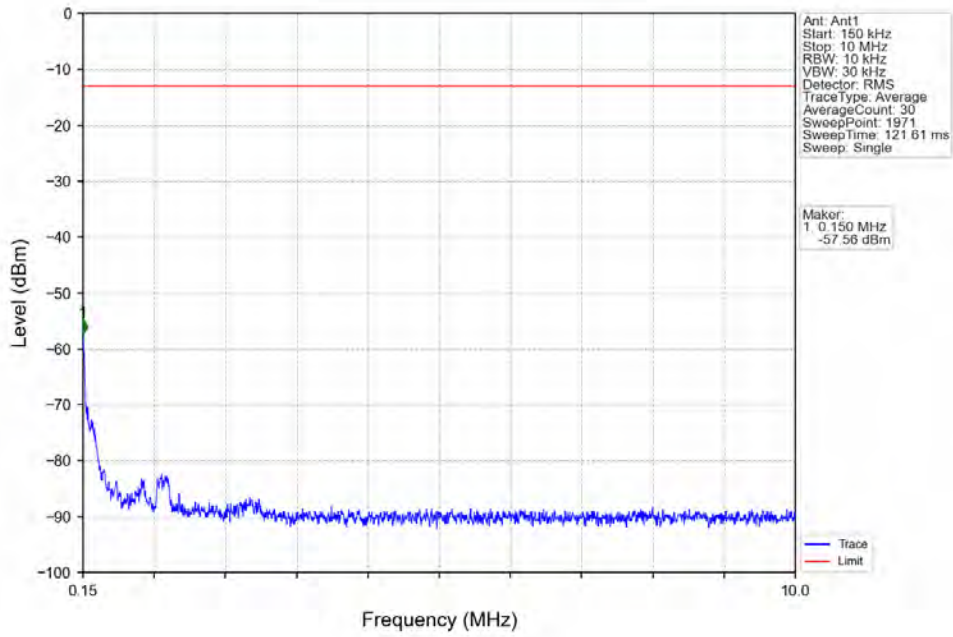
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



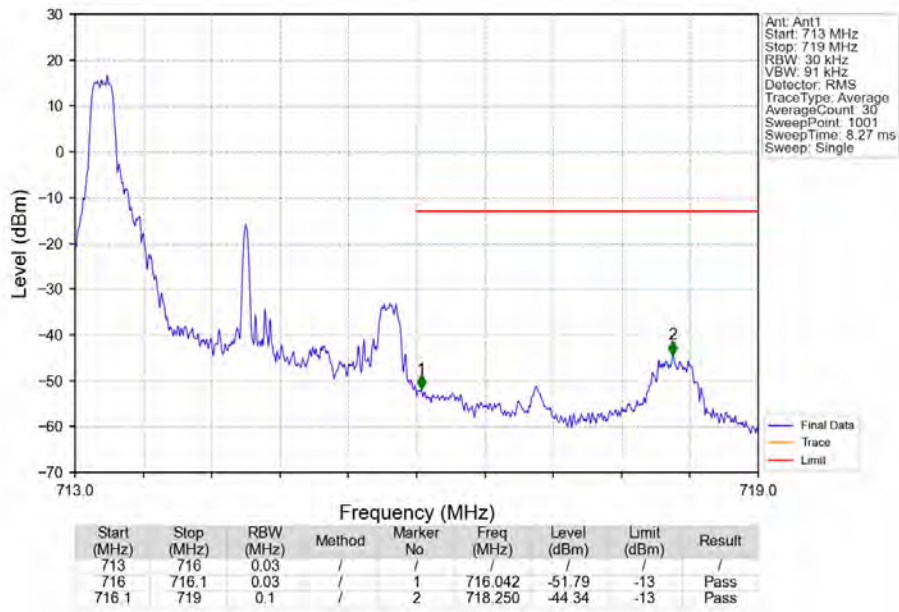
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



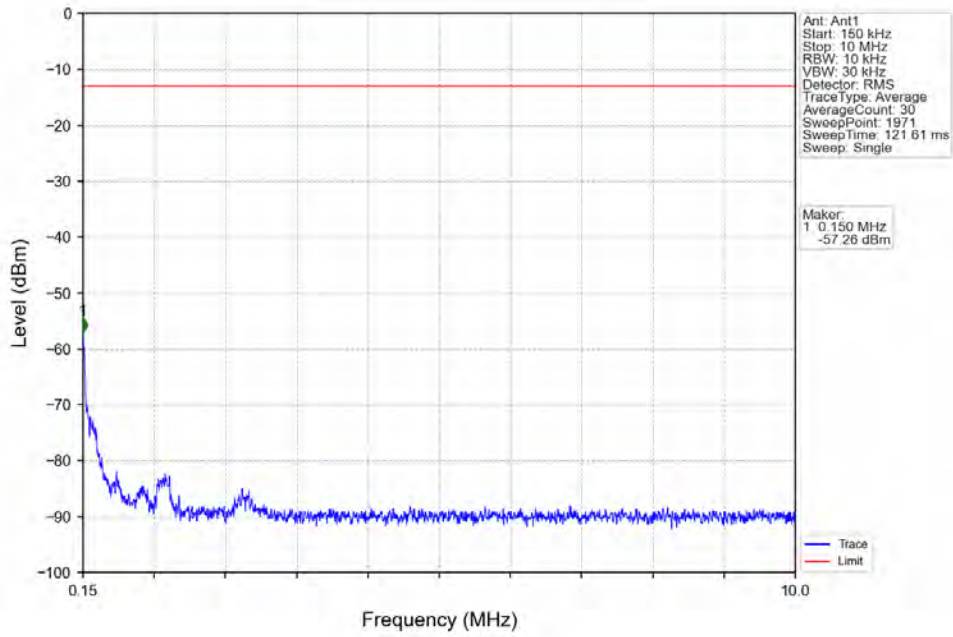
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



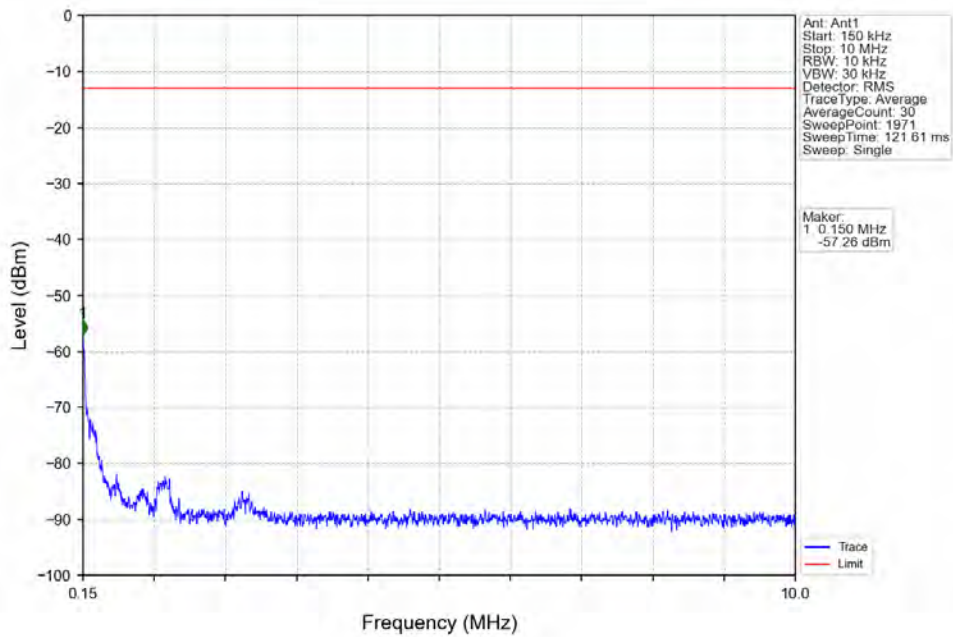
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



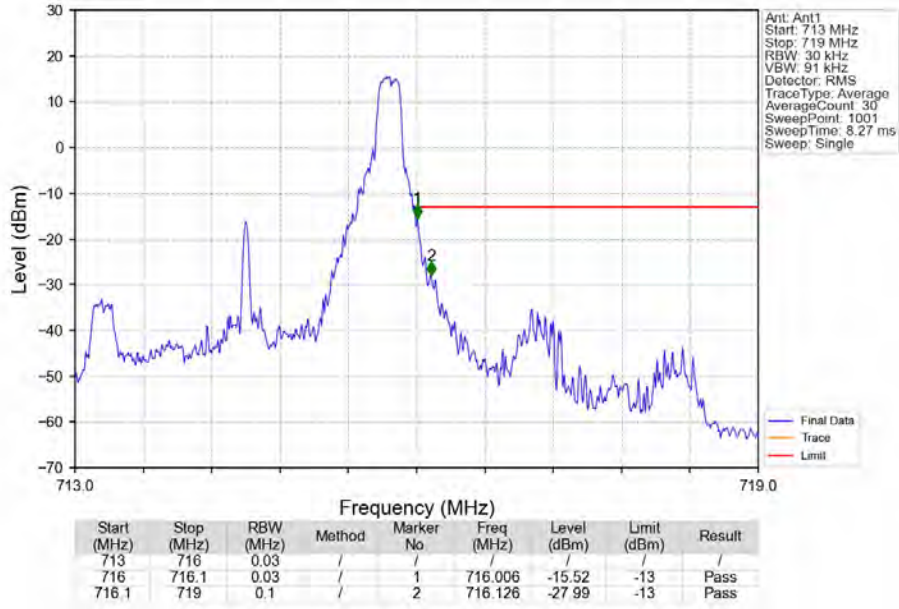
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



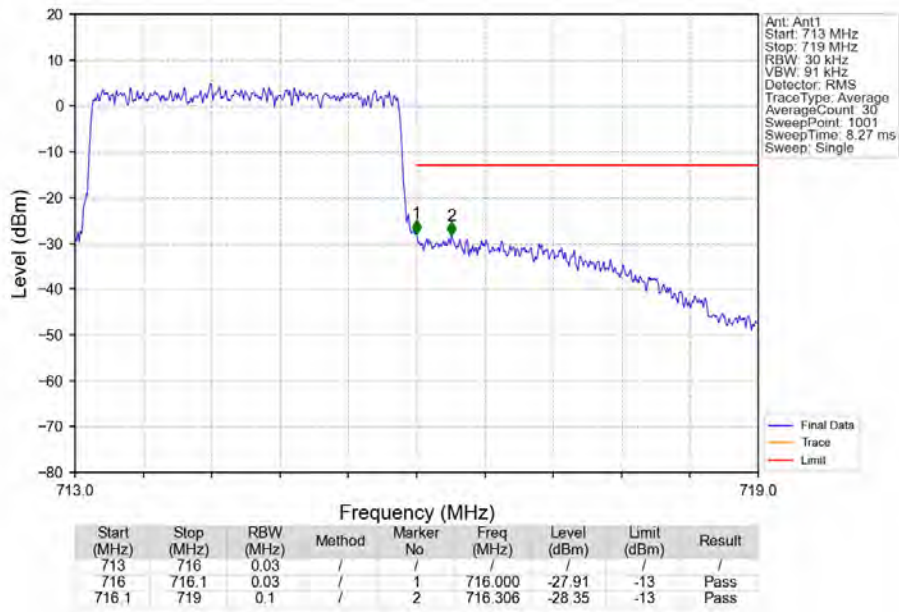
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

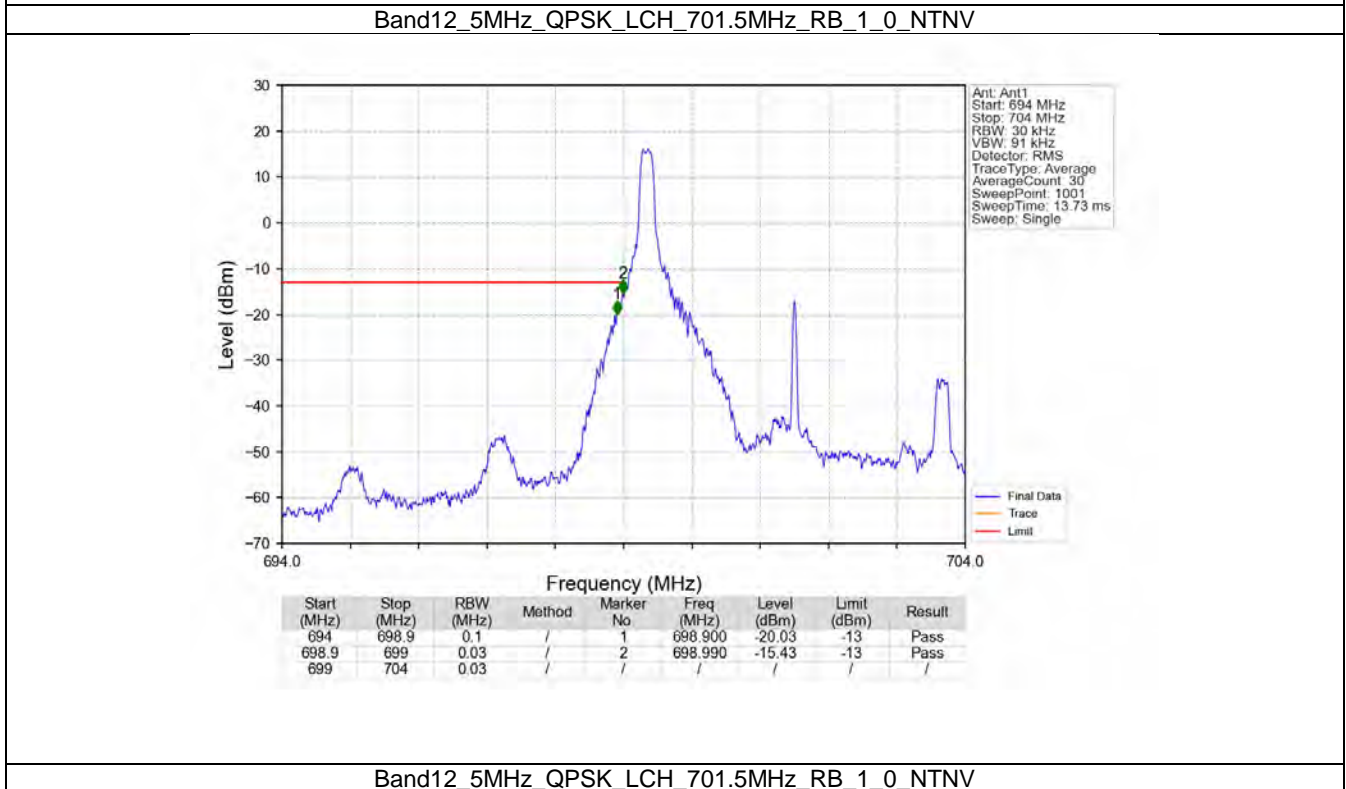
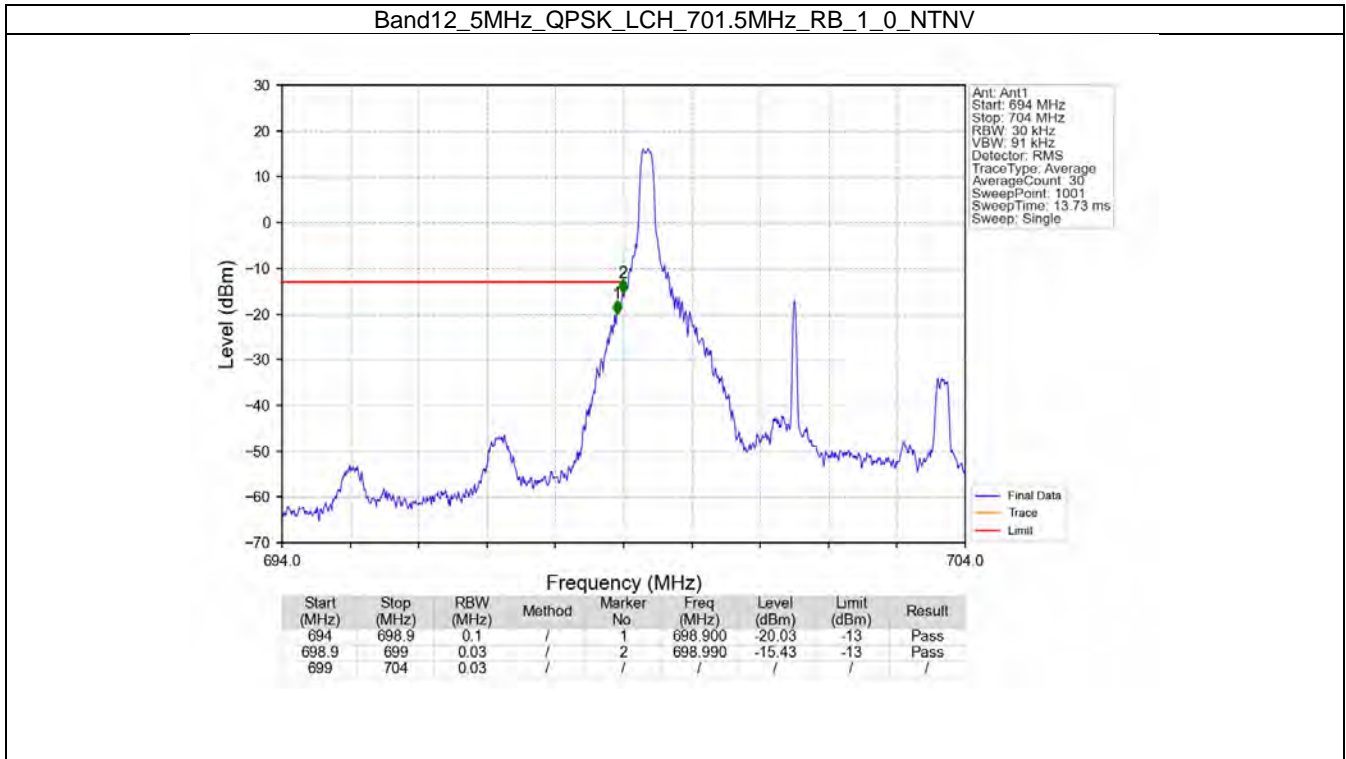


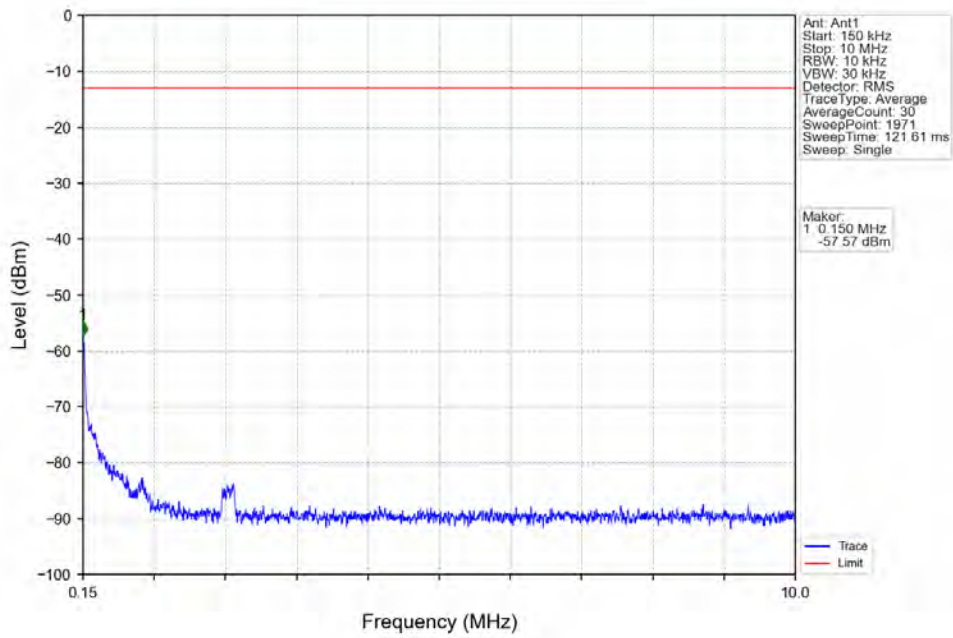
6.3 B12_5MHz

6.3.1 Test Result

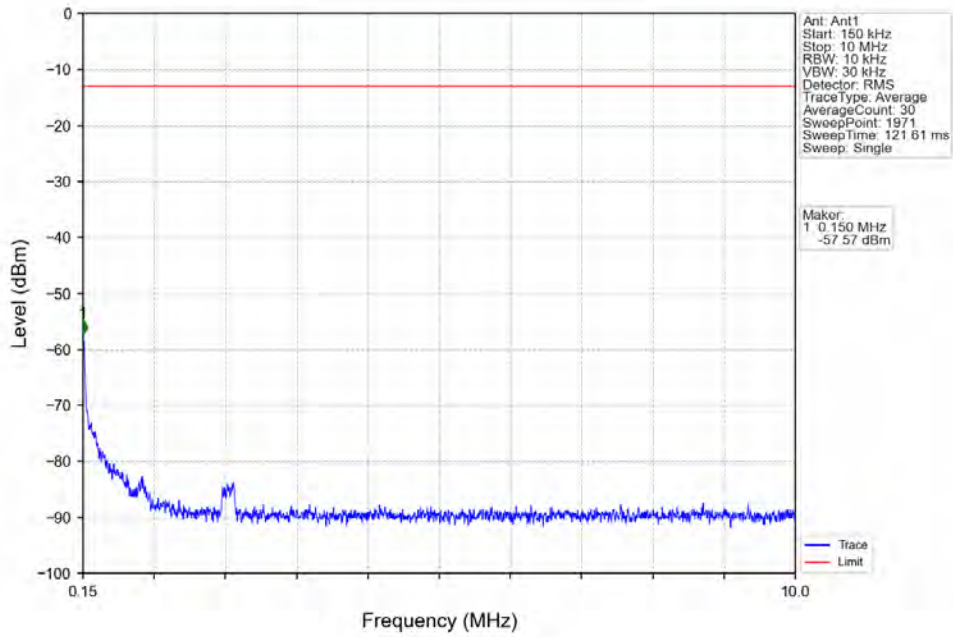
| Band: 12 / Bandwidth: 5MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 701.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 713.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 16QAM | 701.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 713.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

6.3.2 Test Graph

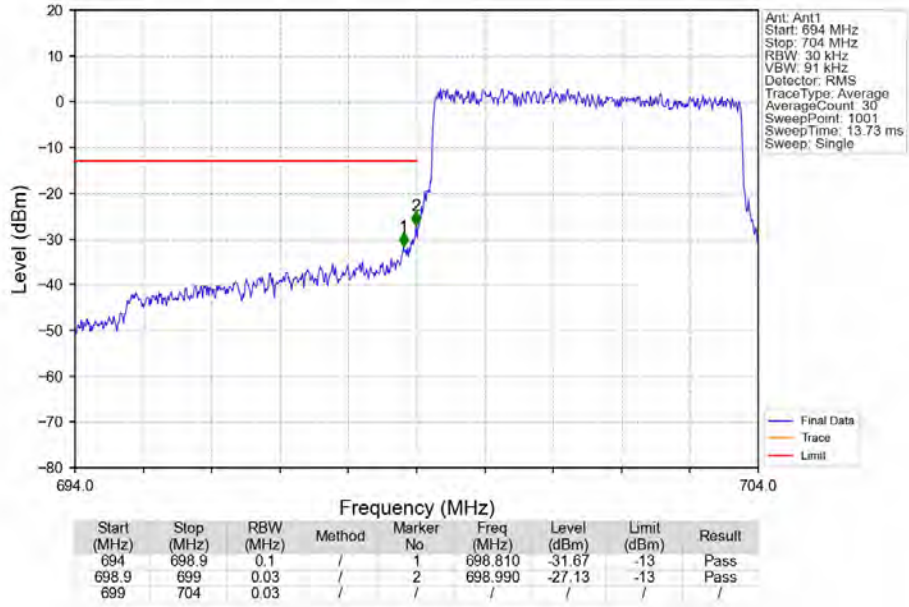




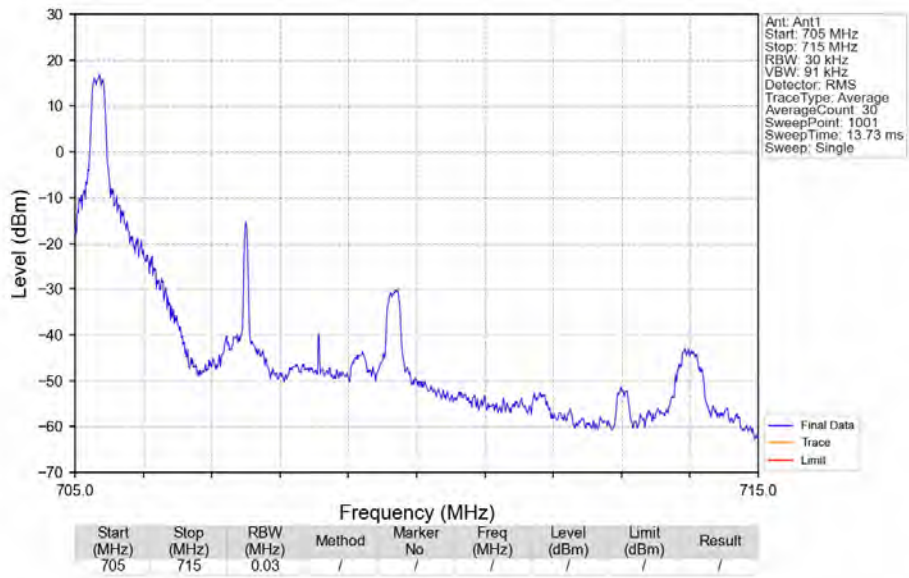
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



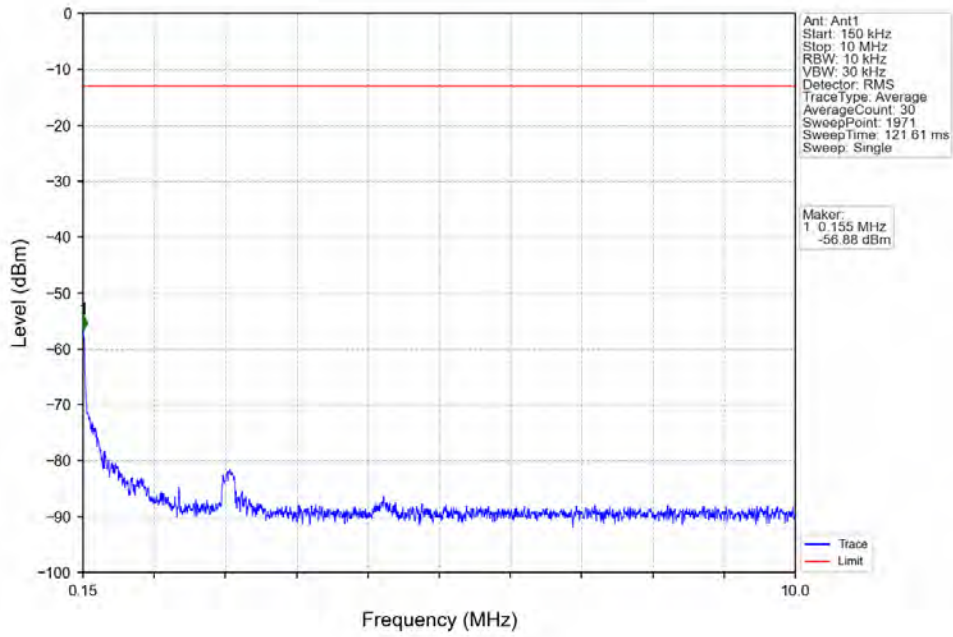
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



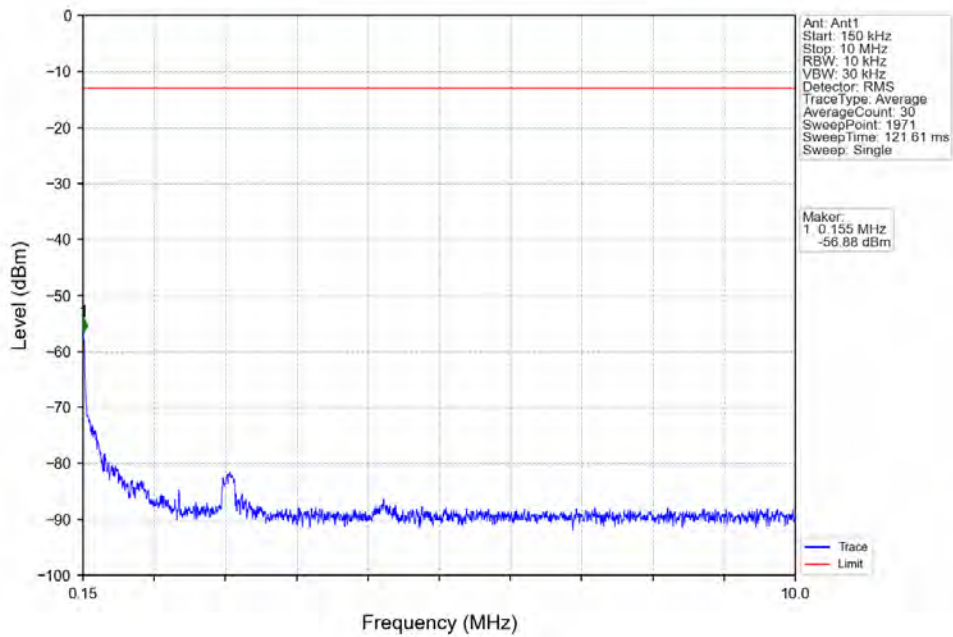
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



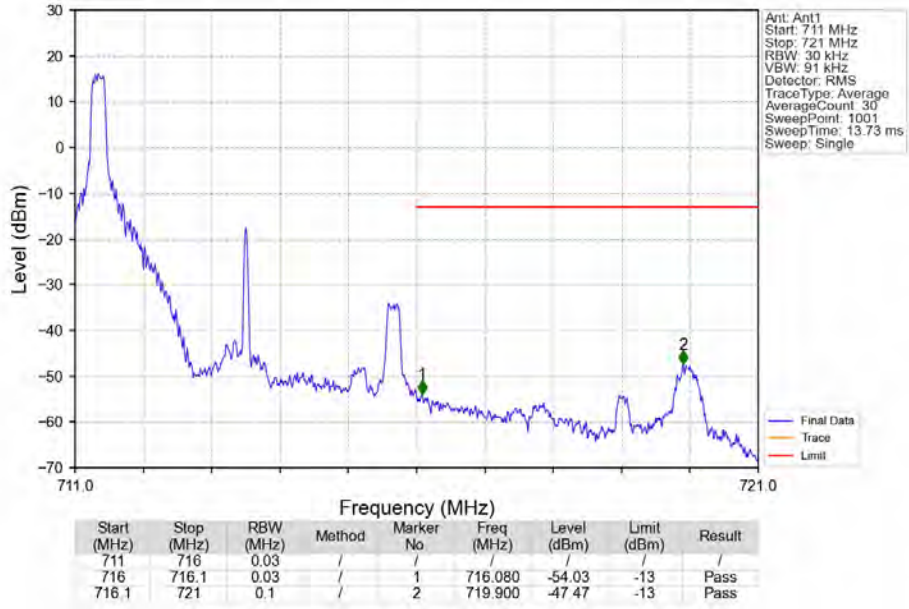
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



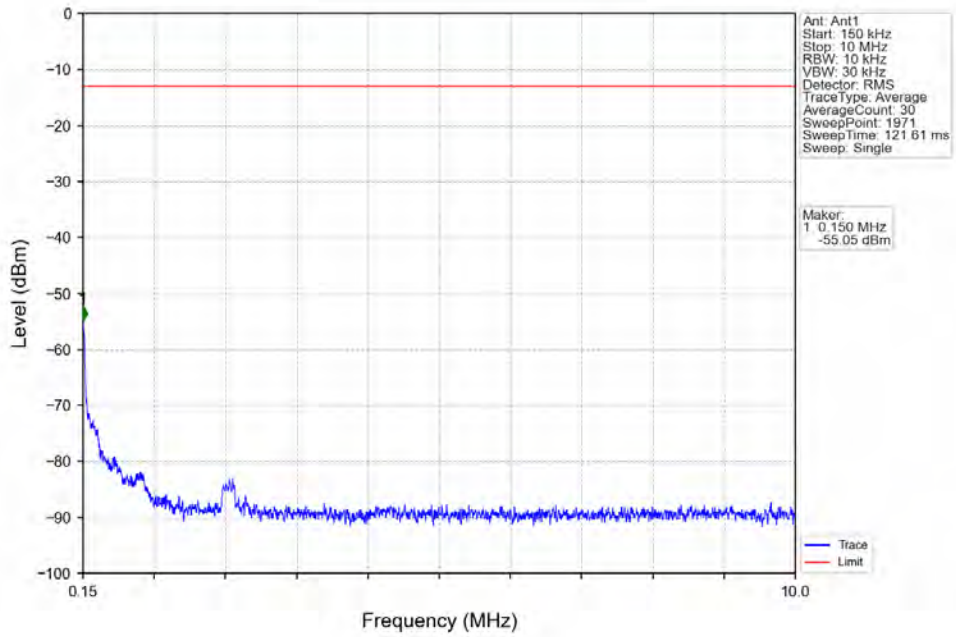
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



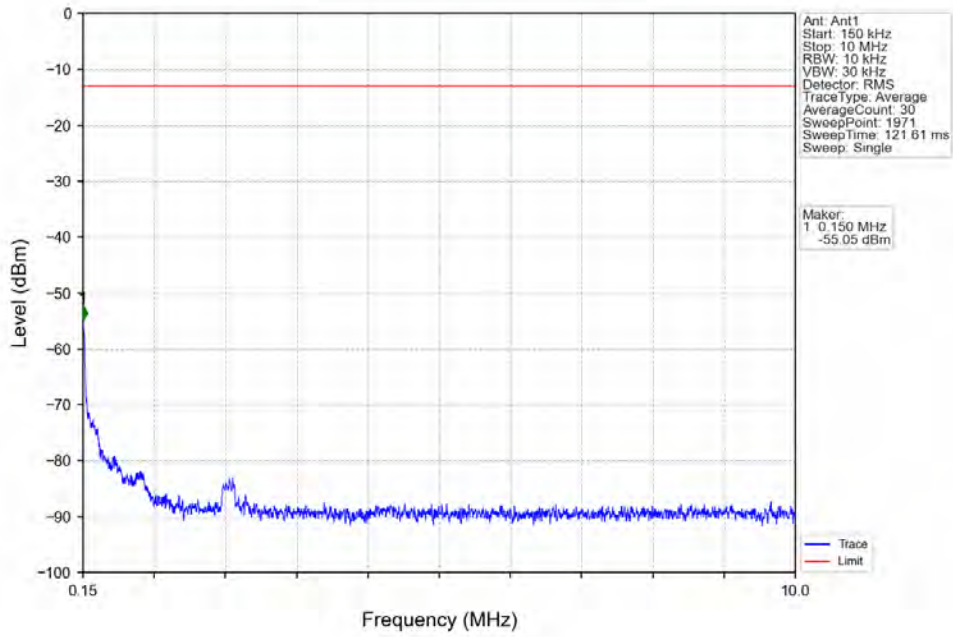
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



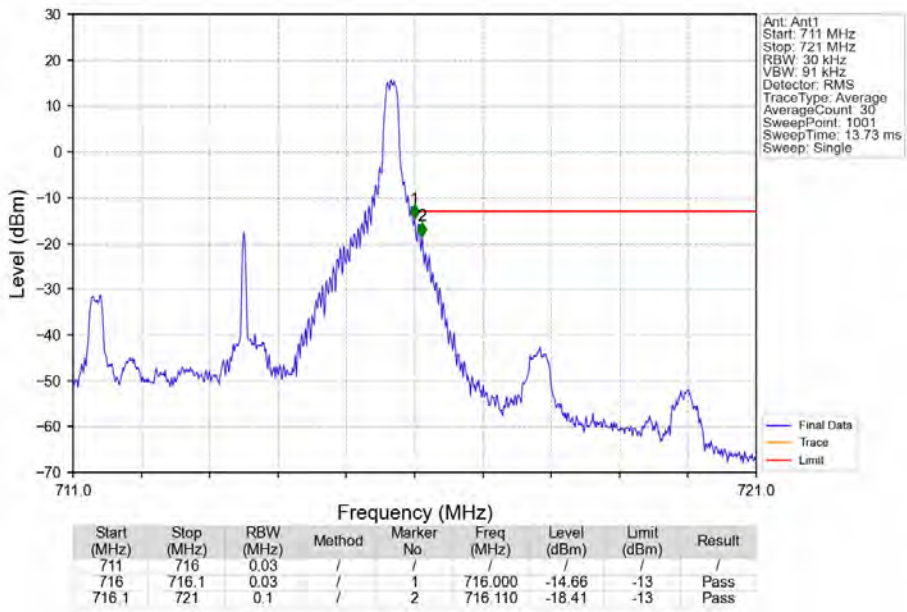
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



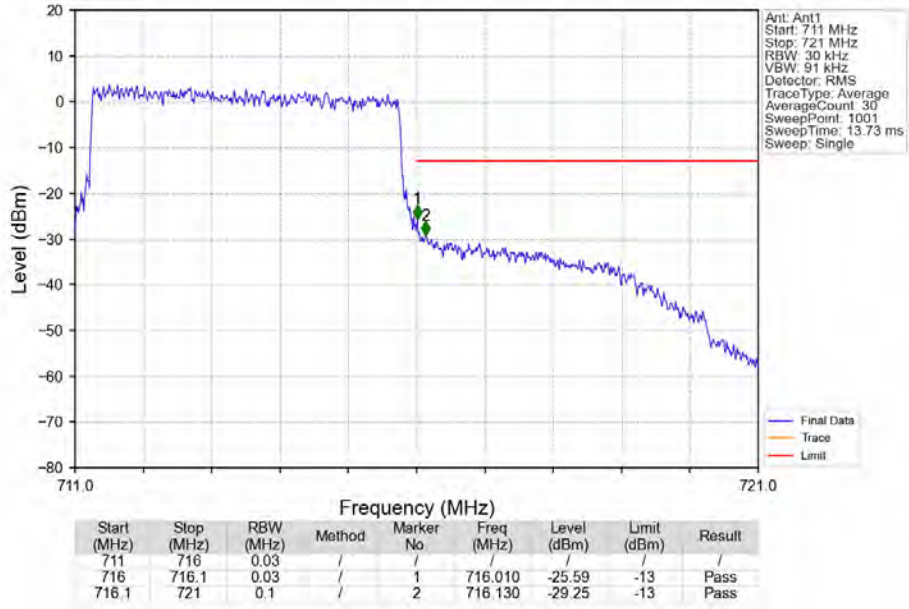
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



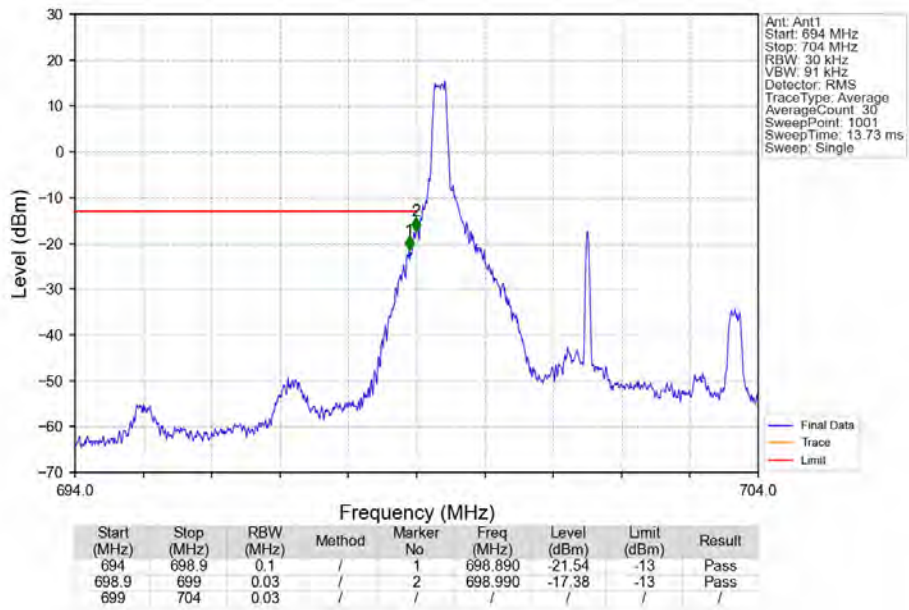
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



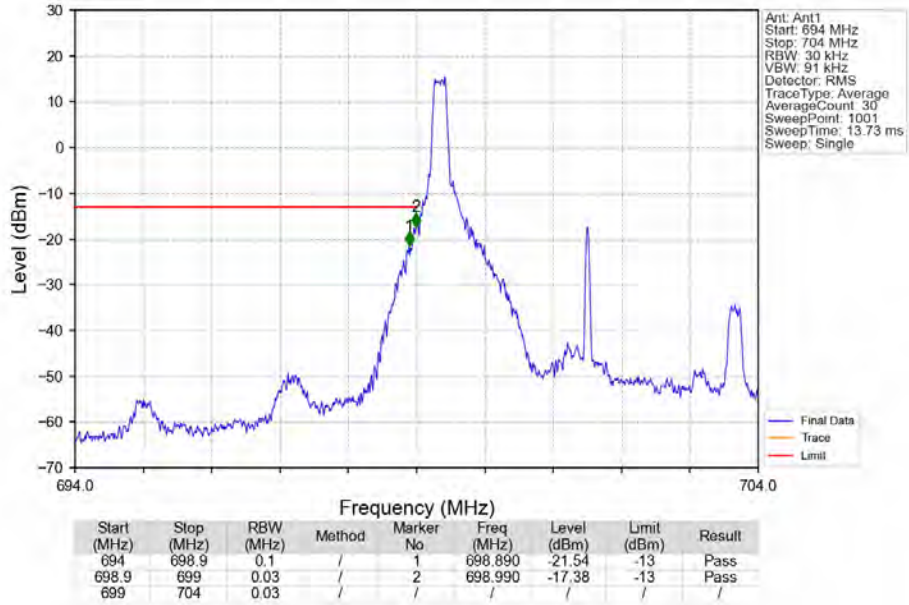
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



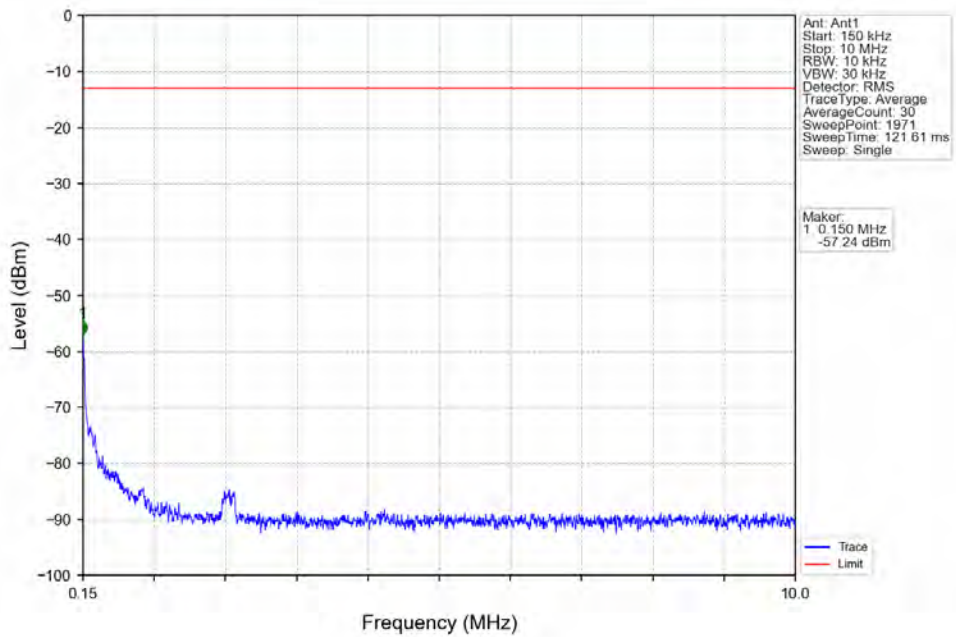
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



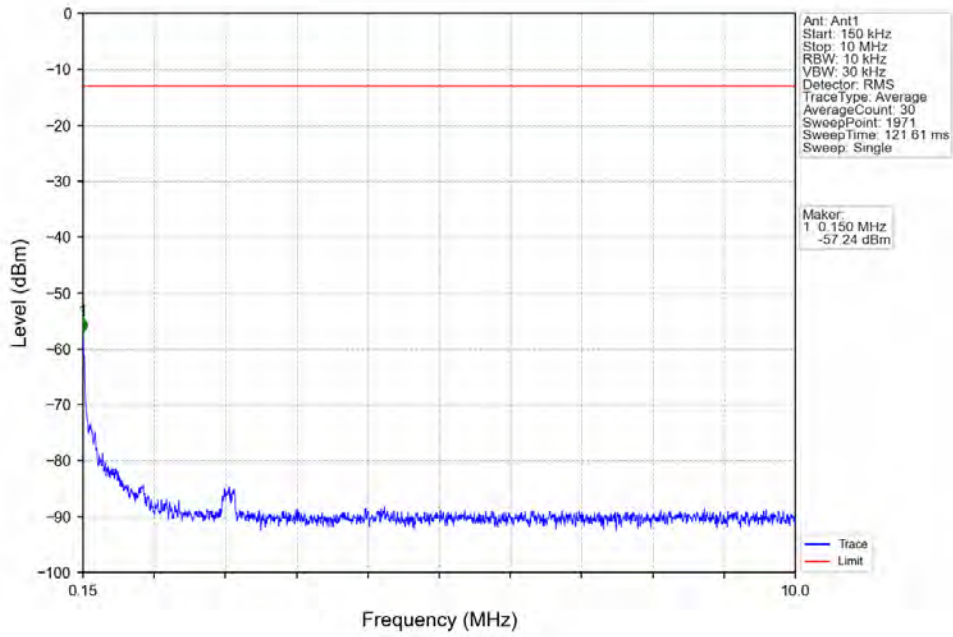
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



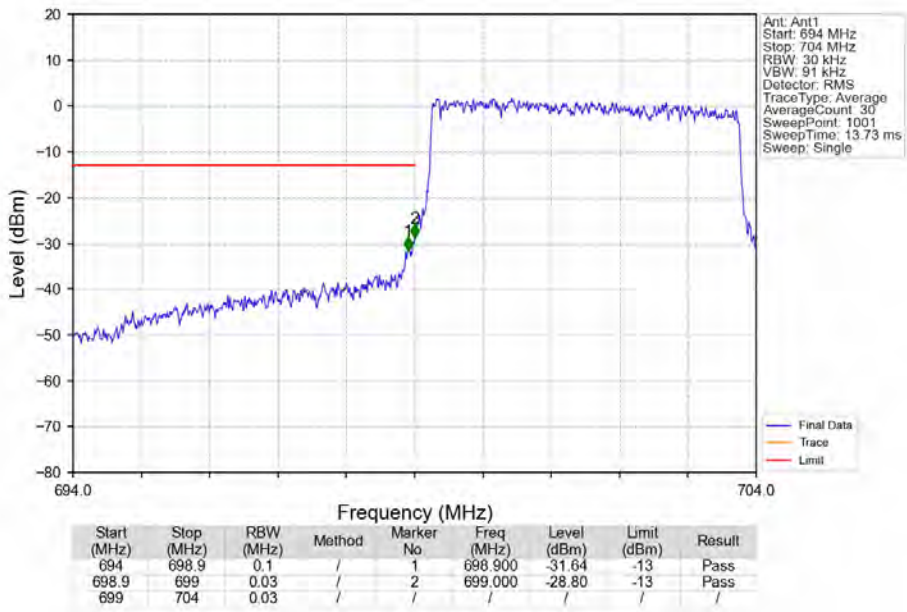
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



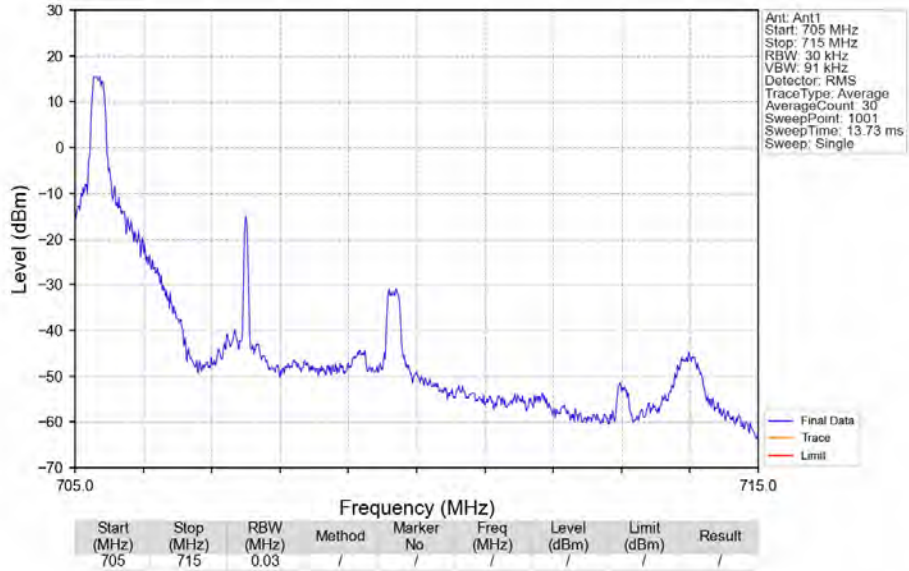
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



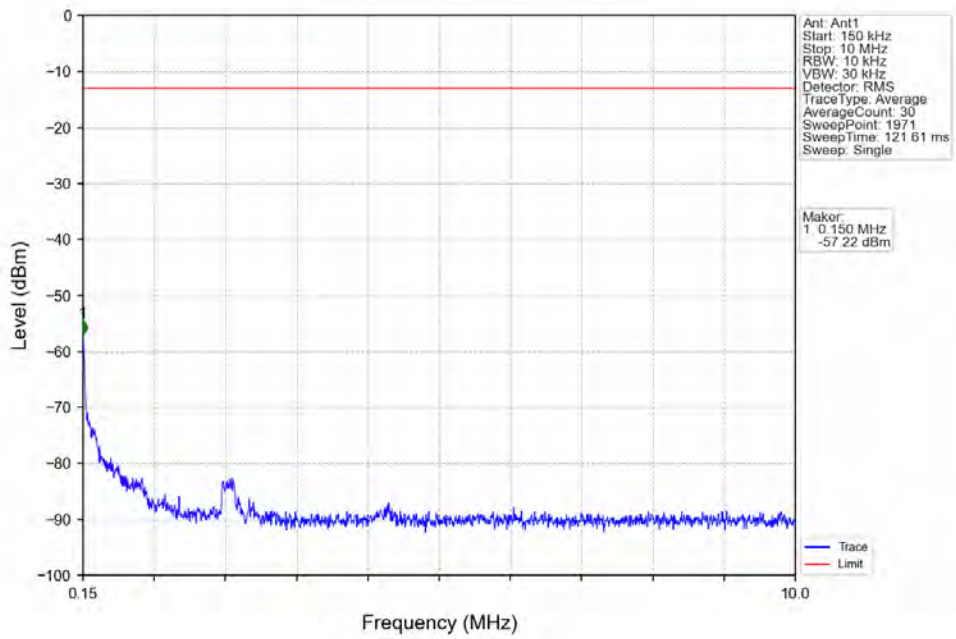
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



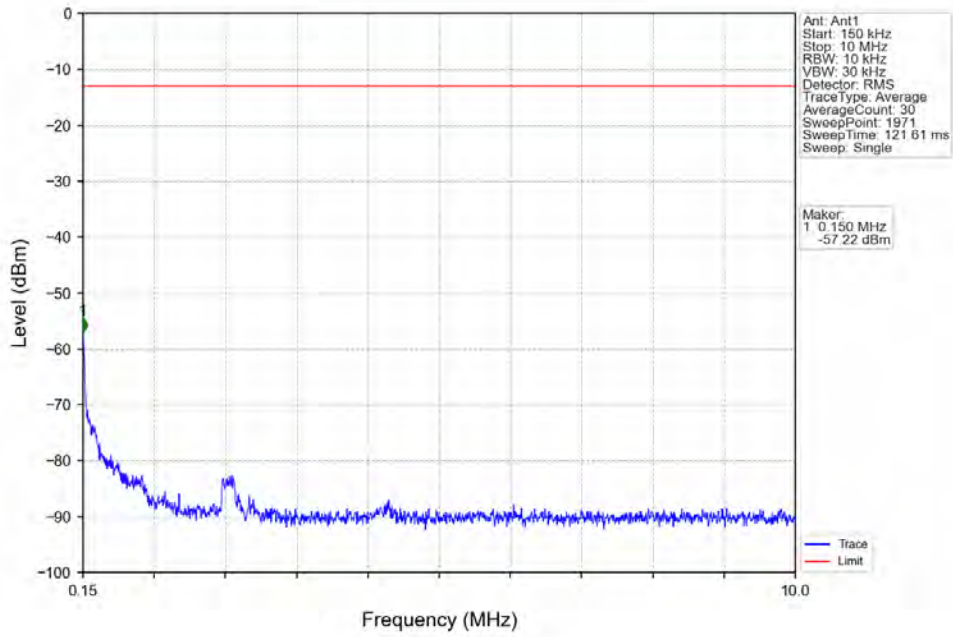
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



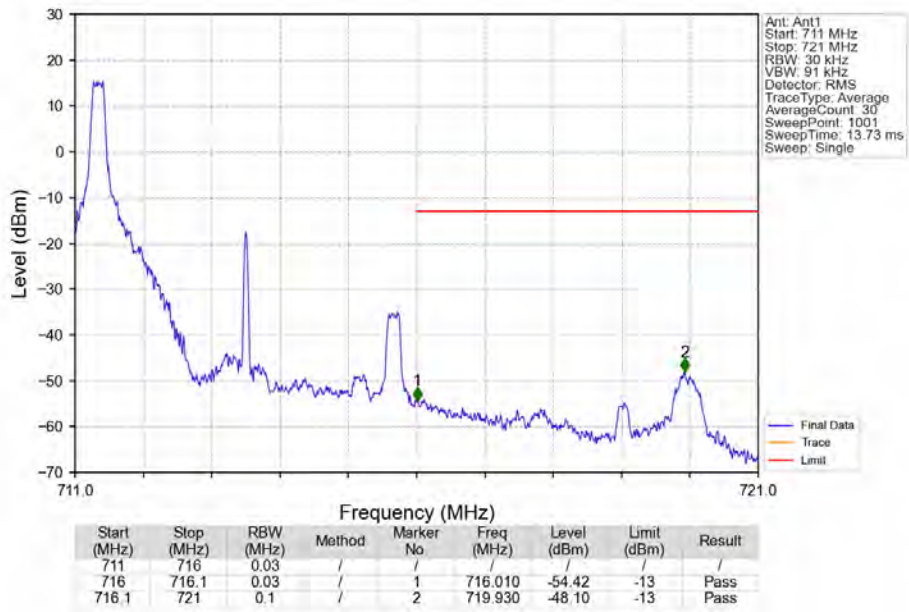
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



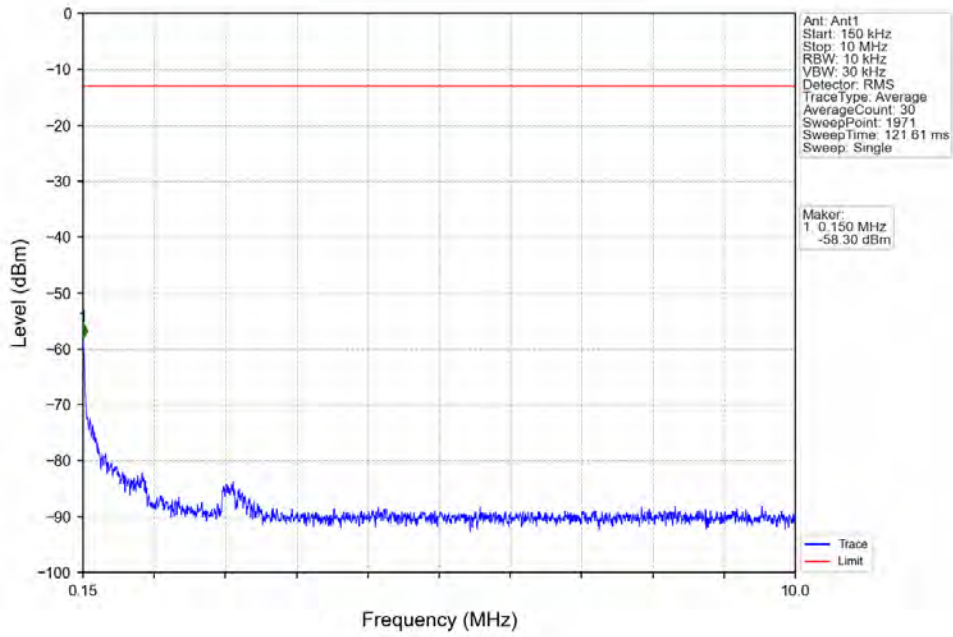
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



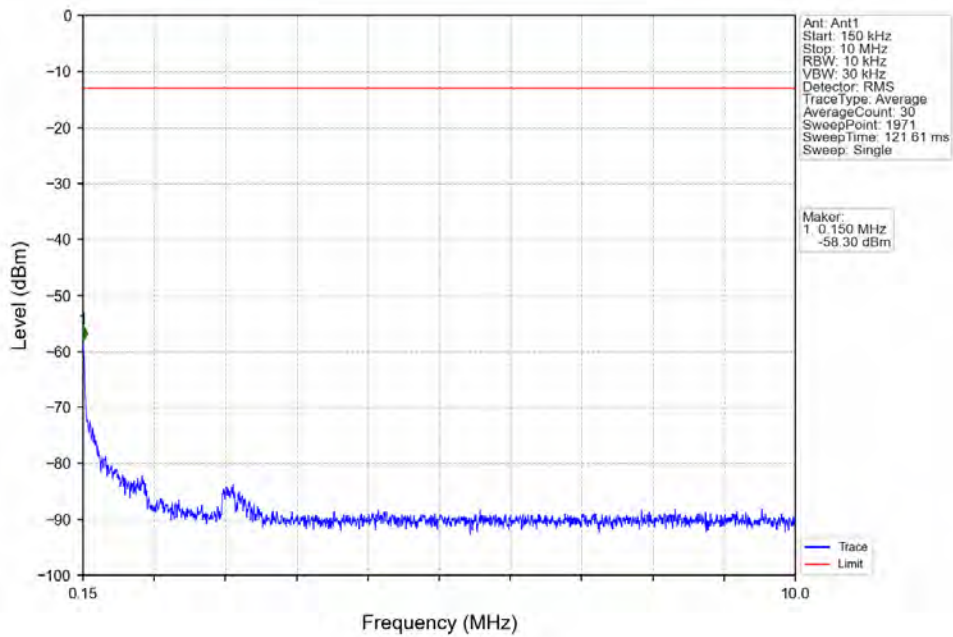
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



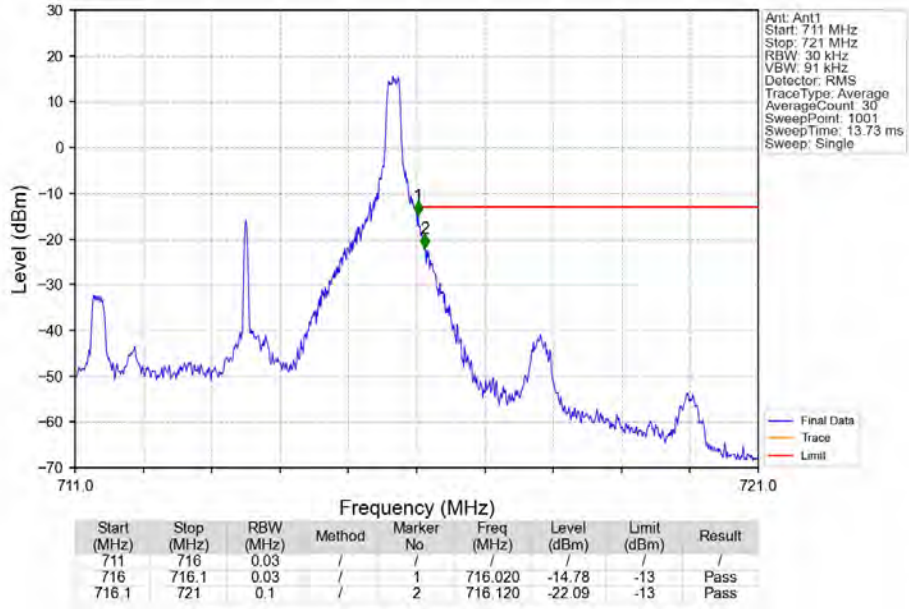
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



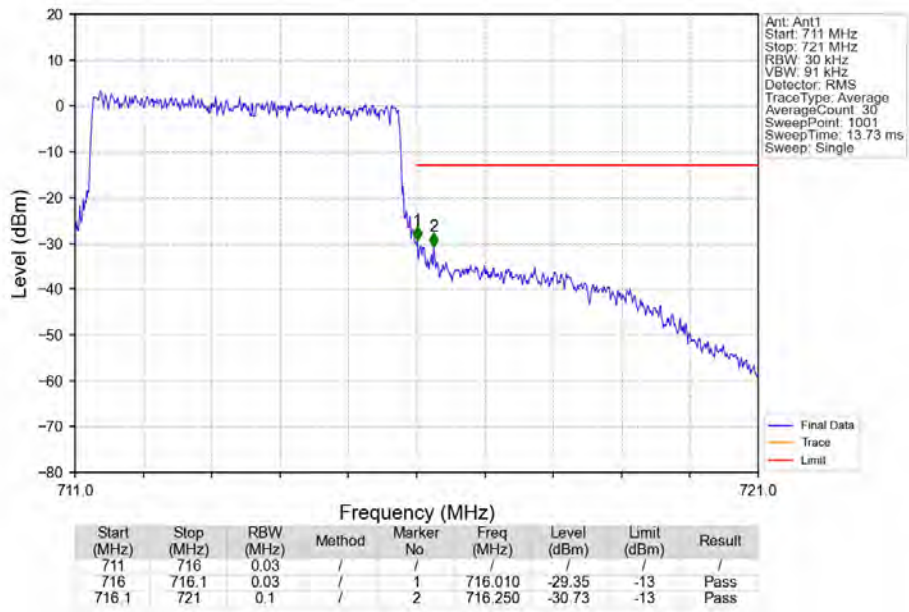
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

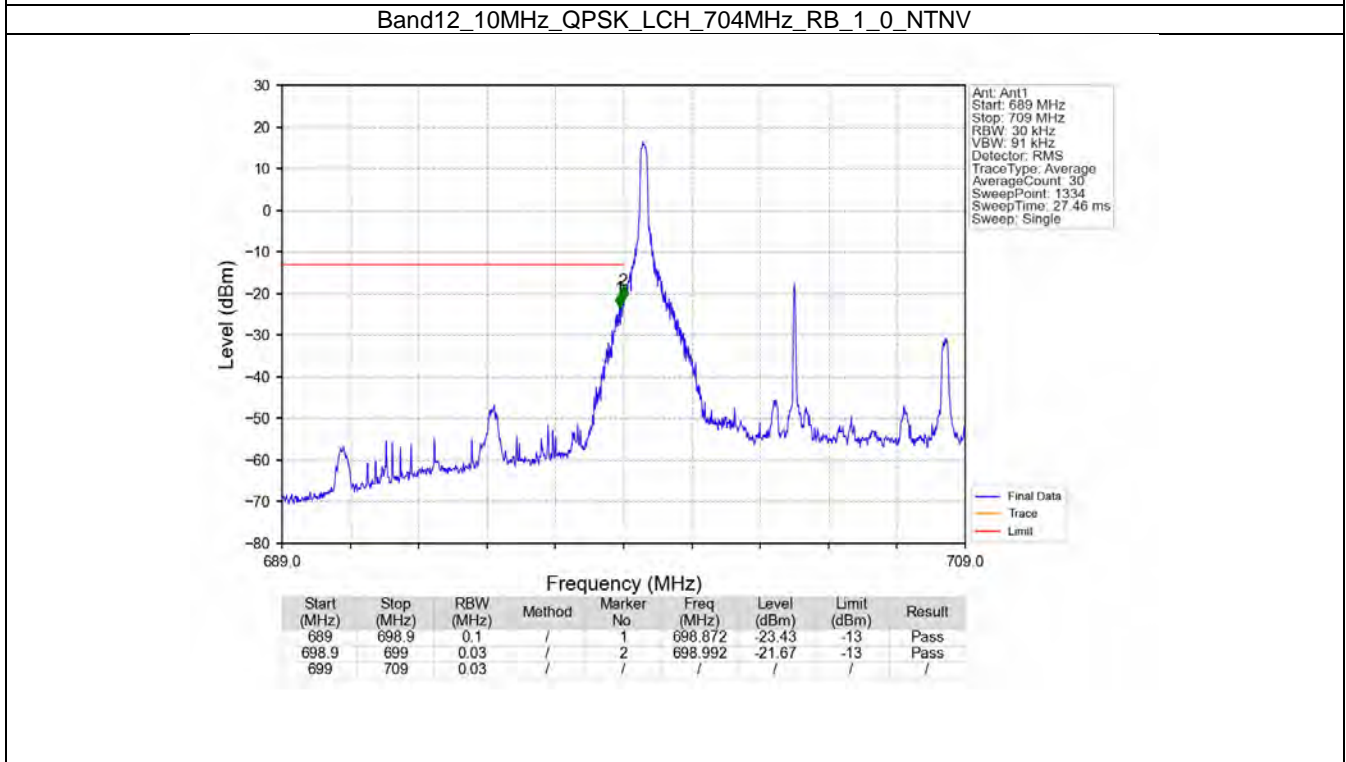
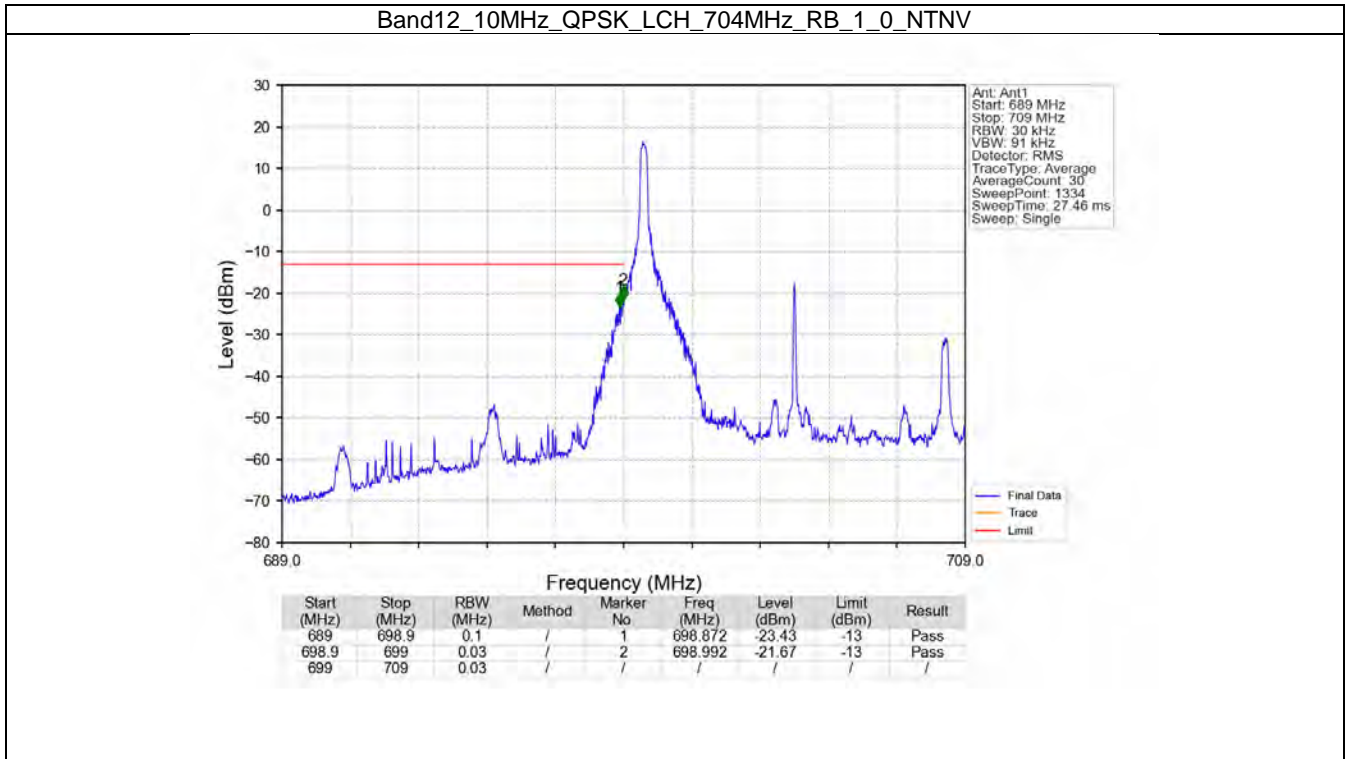


6.4 B12_10MHz

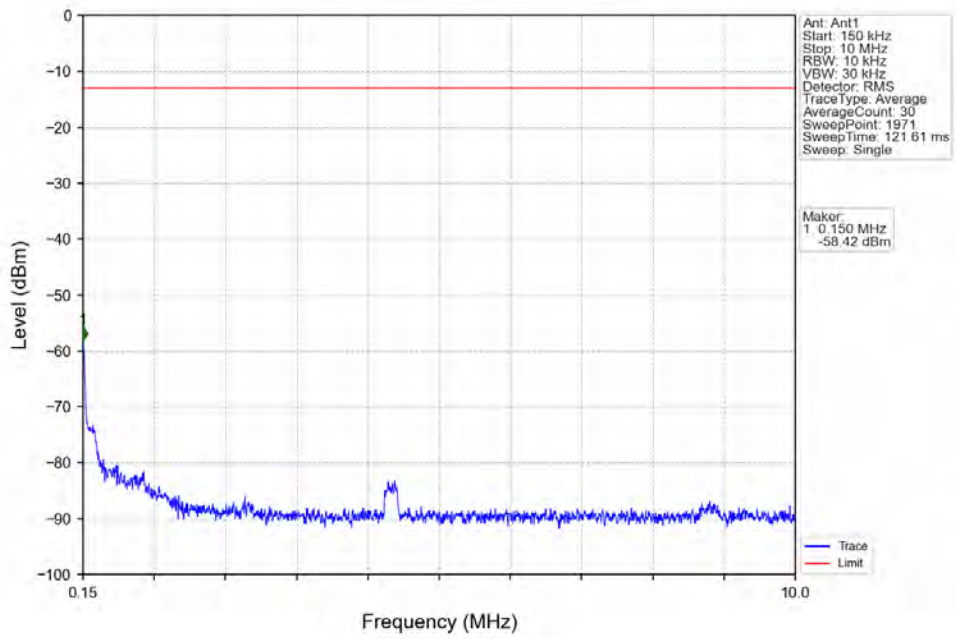
6.4.1 Test Result

| Band: 12 / Bandwidth: 10MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 704 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 711 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 704 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 711 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

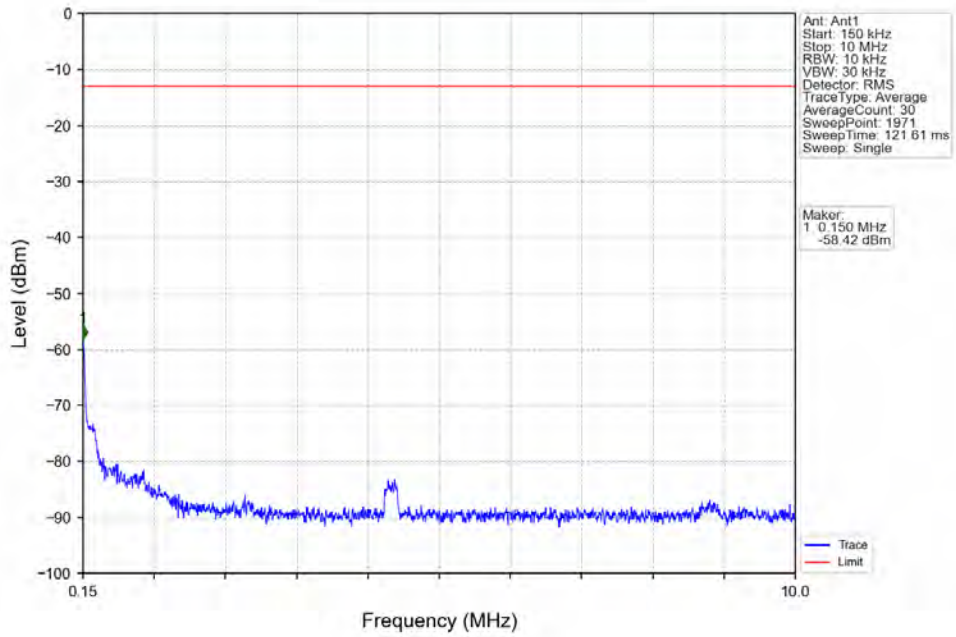
6.4.2 Test Graph



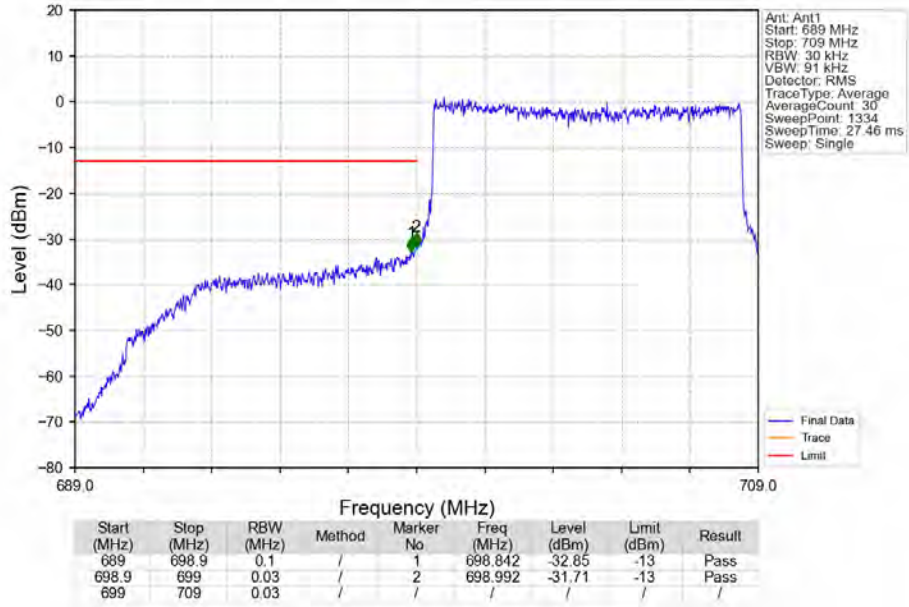
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



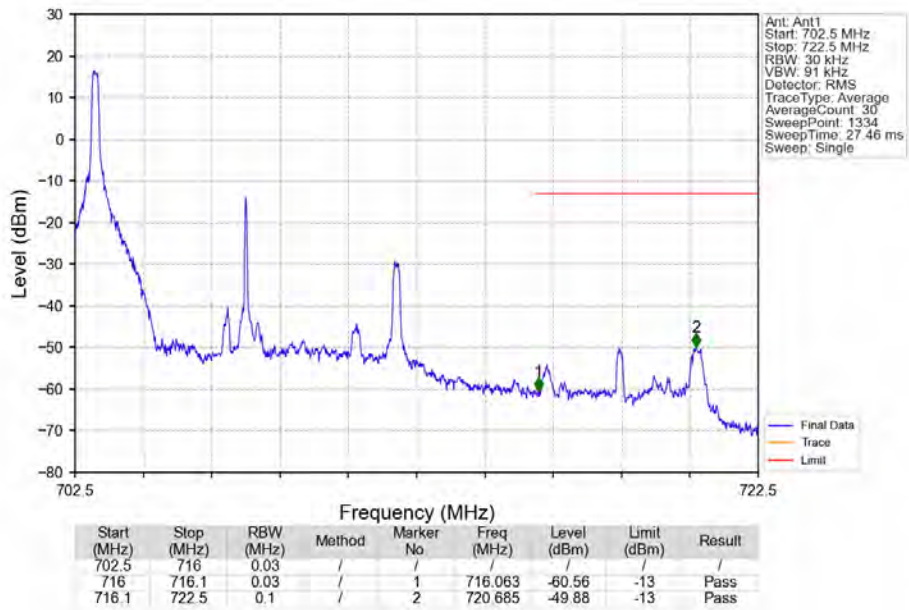
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



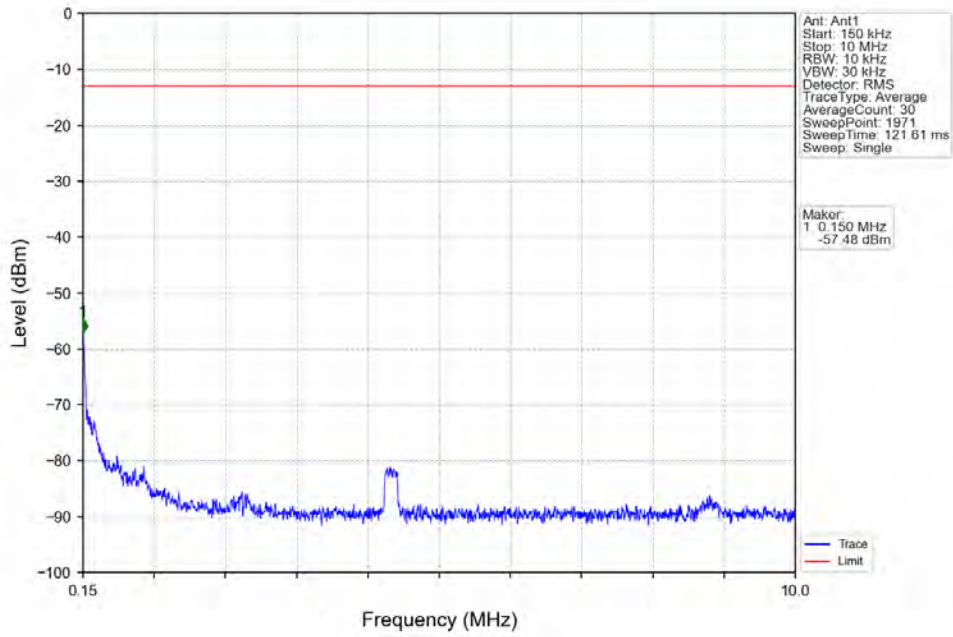
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



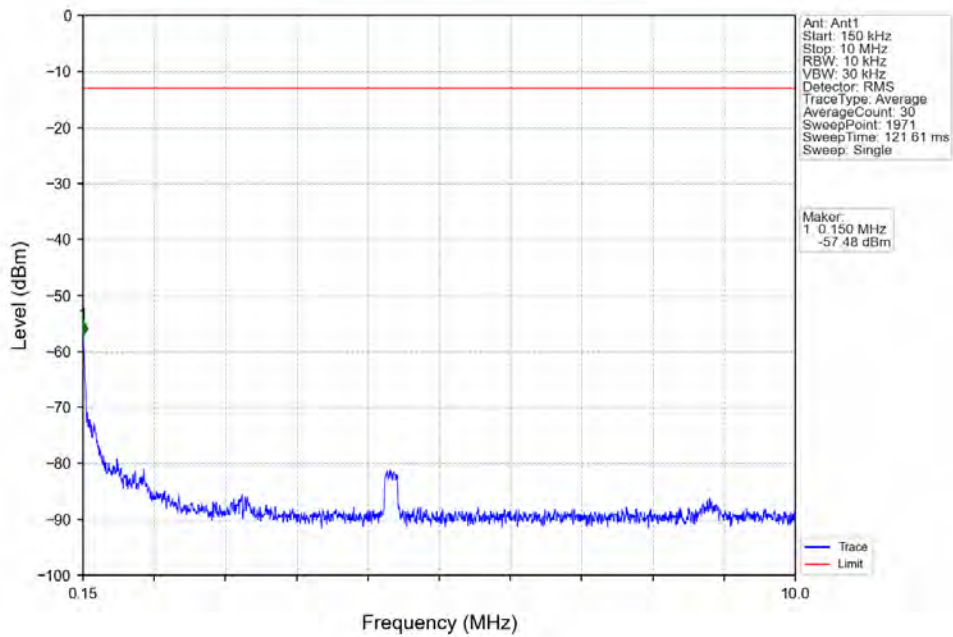
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



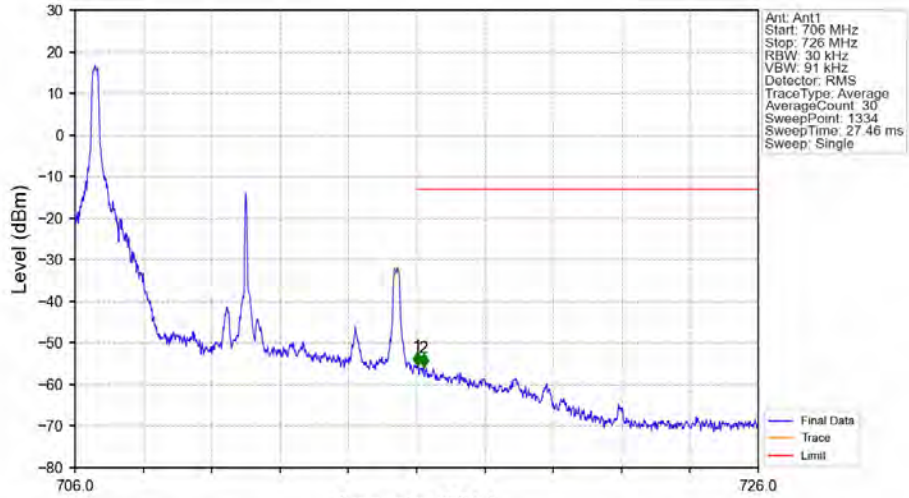
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

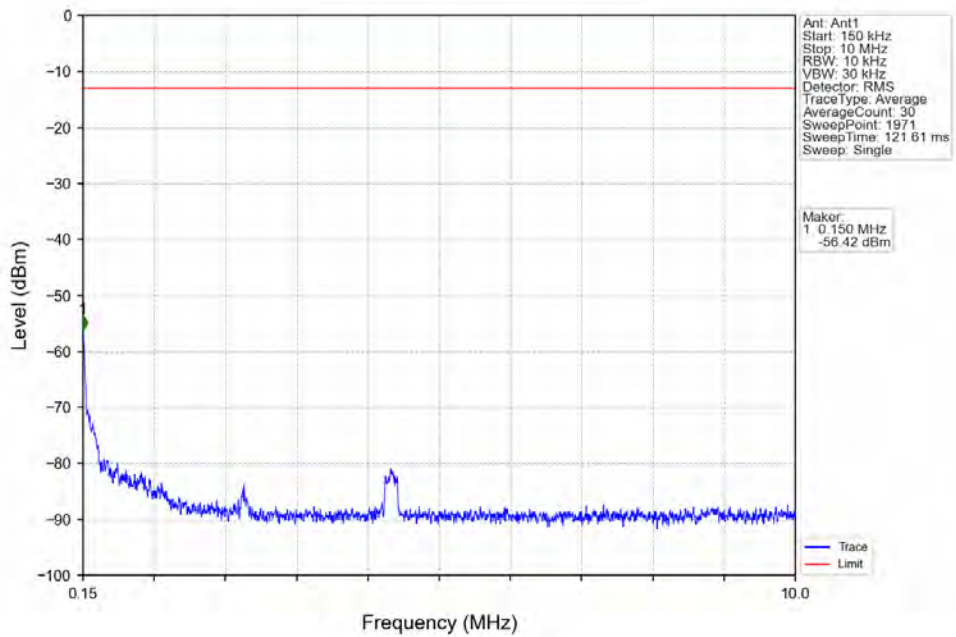


Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

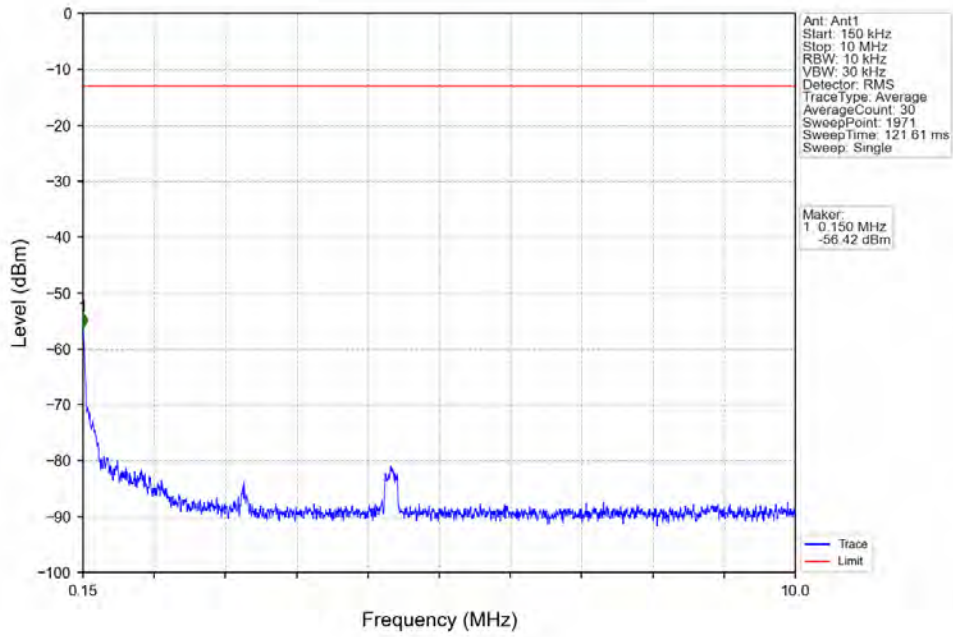


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 706 | 716 | 0.03 | / | 1 | 716.023 | -55.56 | -13 | Pass |
| 716 | 716.1 | 0.03 | / | 2 | 716.203 | -55.96 | -13 | Pass |

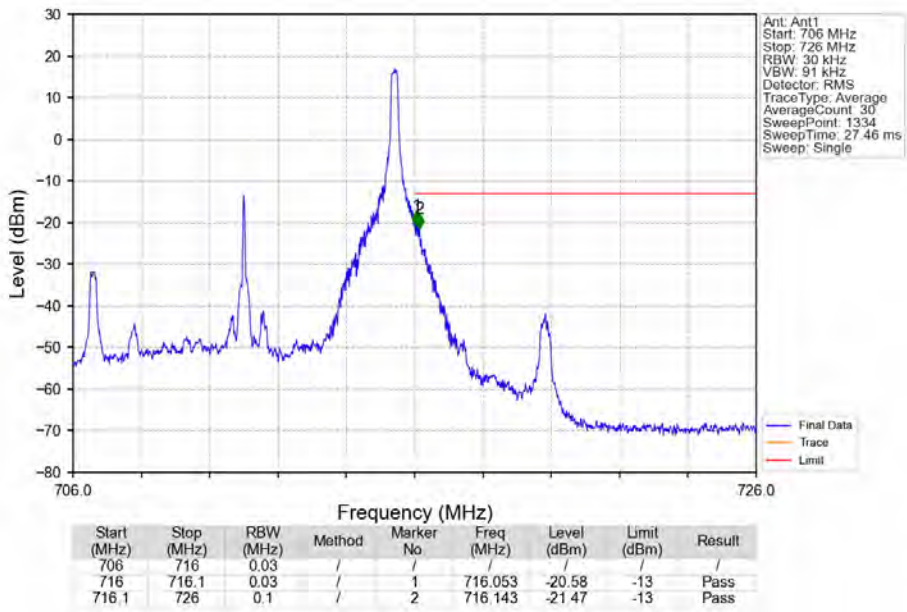
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



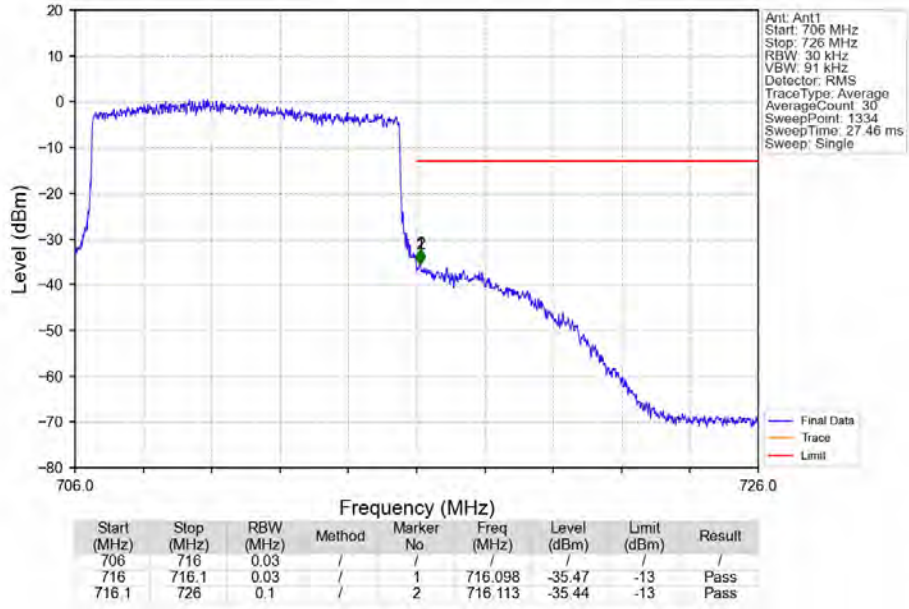
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



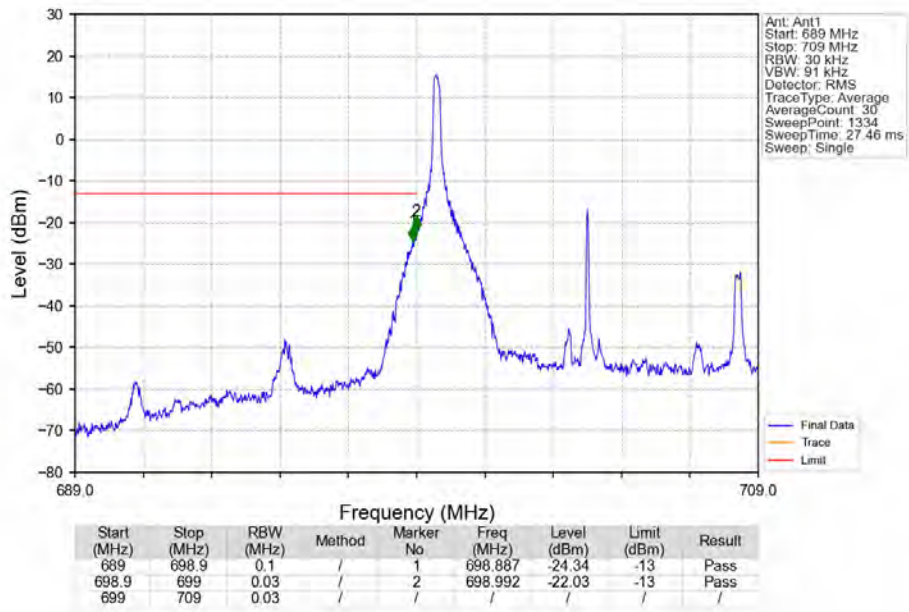
Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



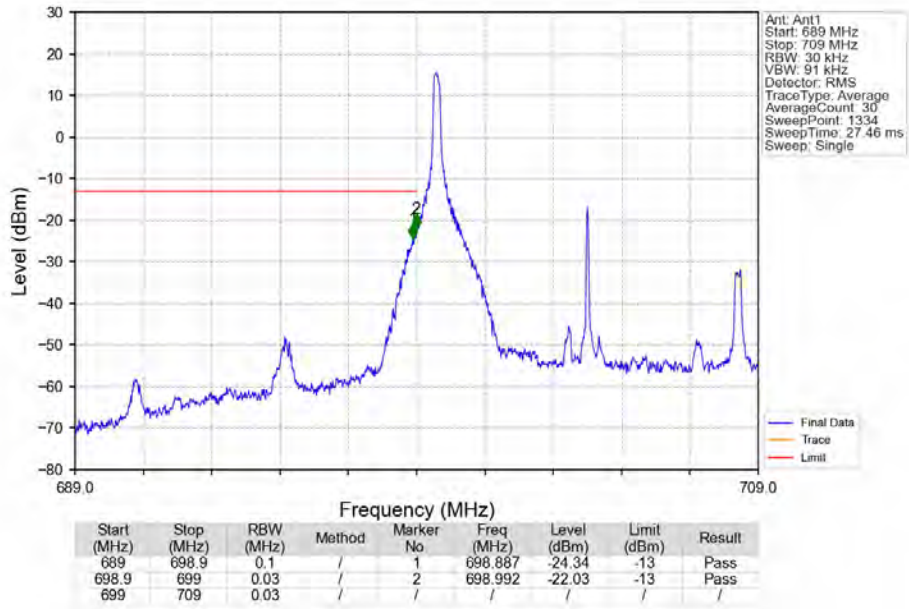
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



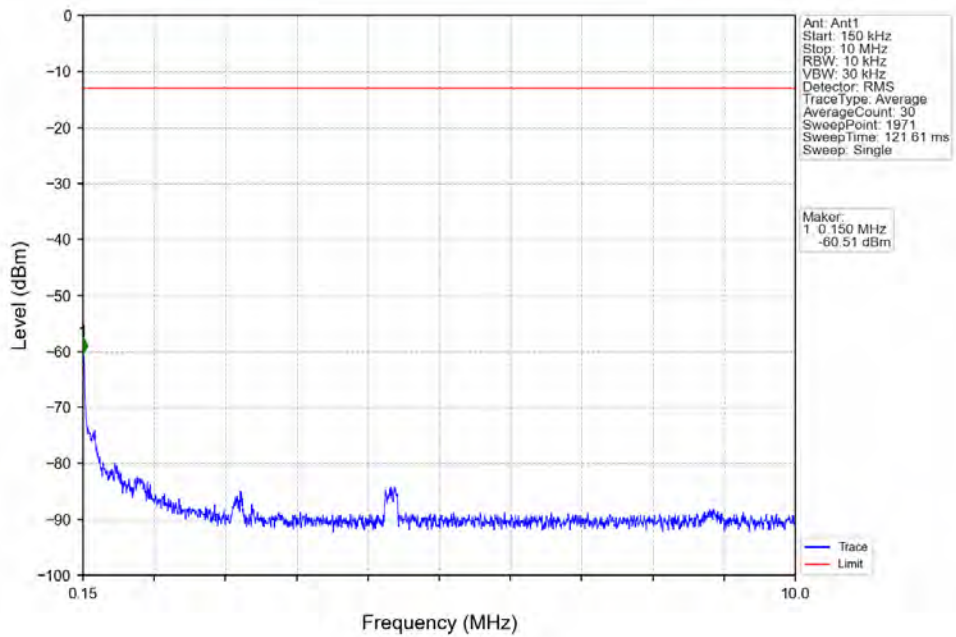
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



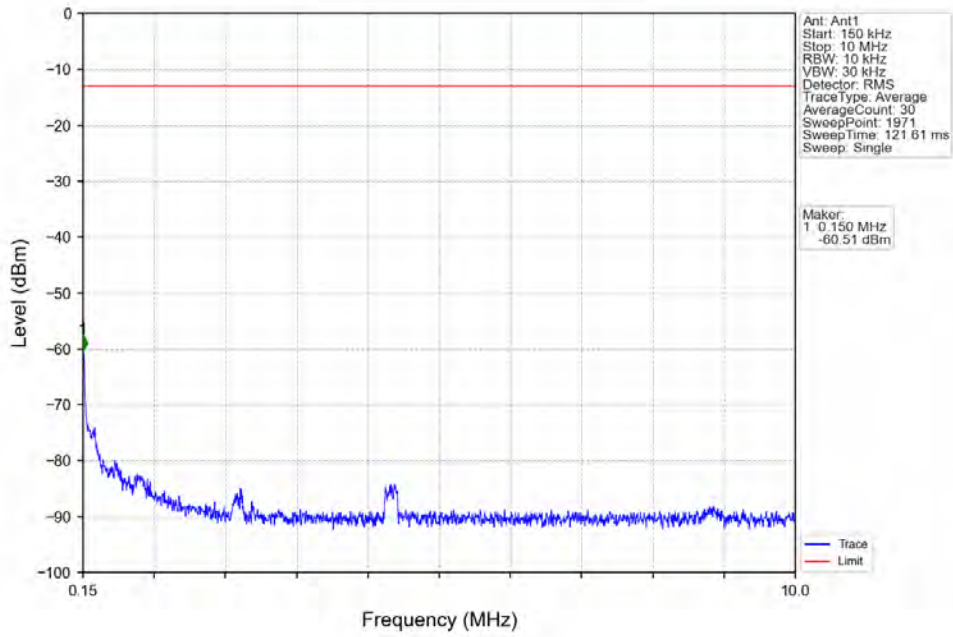
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



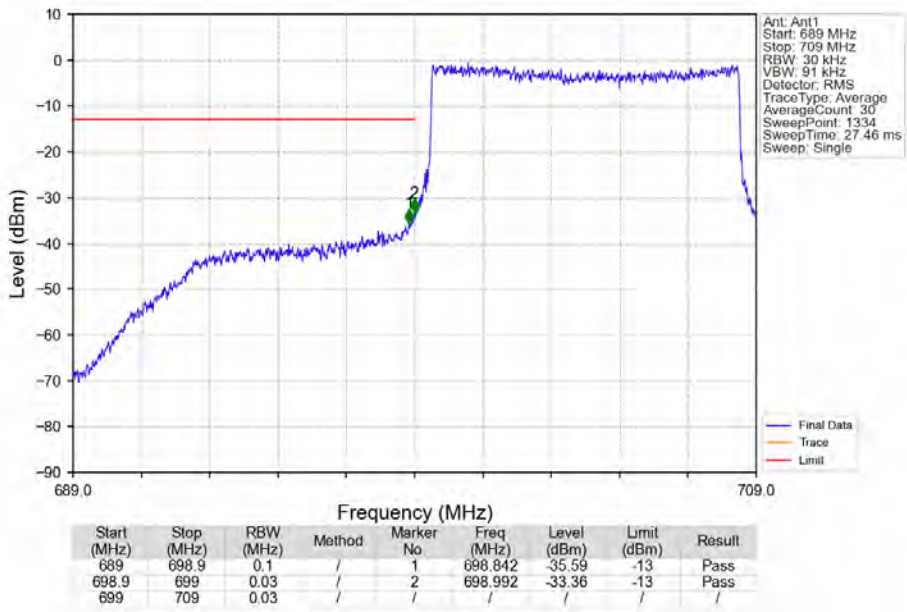
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



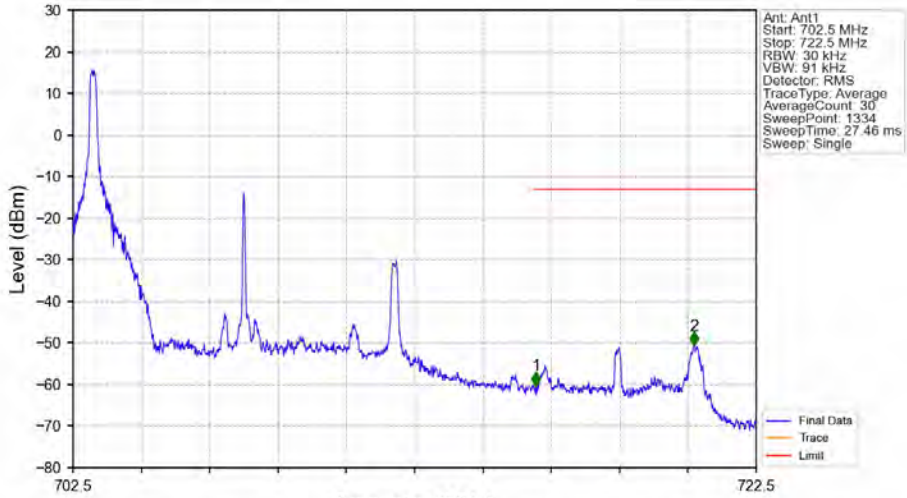
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

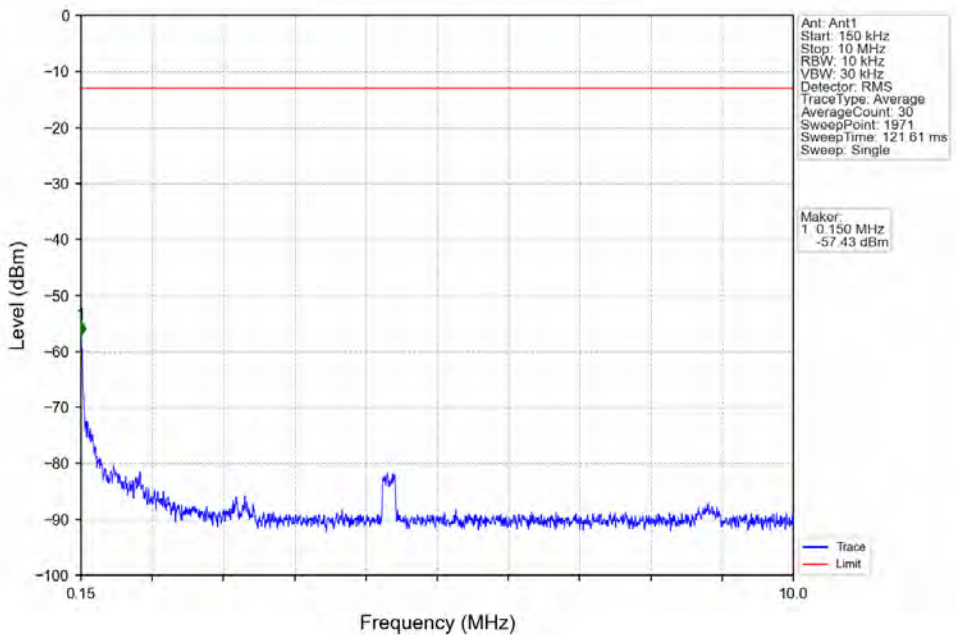


Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV

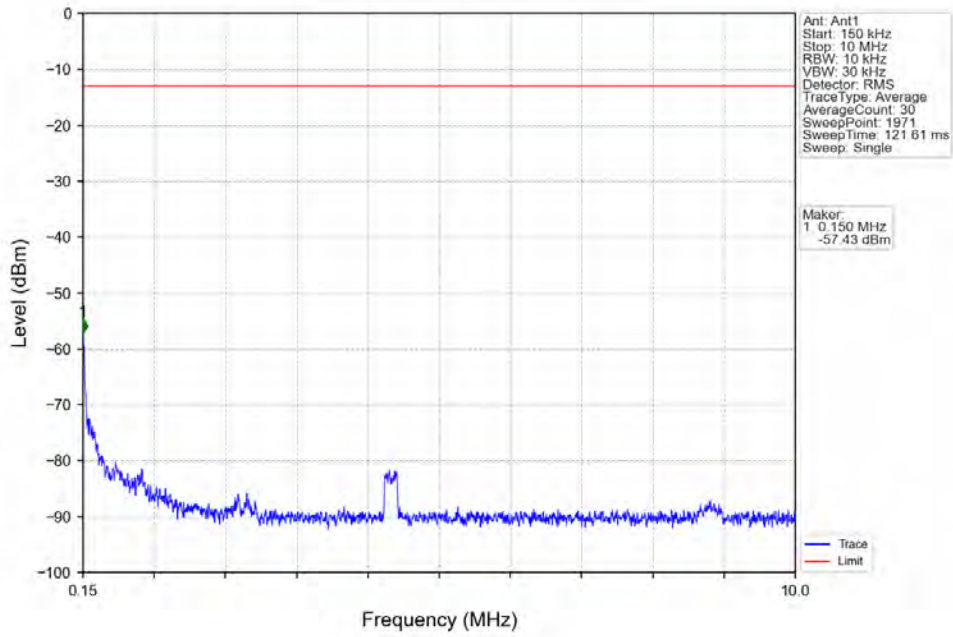


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 702.5 | 716 | 0.03 | / | 1 | 716.048 | -60.32 | -13 | Pass |
| 716.1 | 722.5 | 0.1 | / | 2 | 720.685 | -50.75 | -13 | Pass |

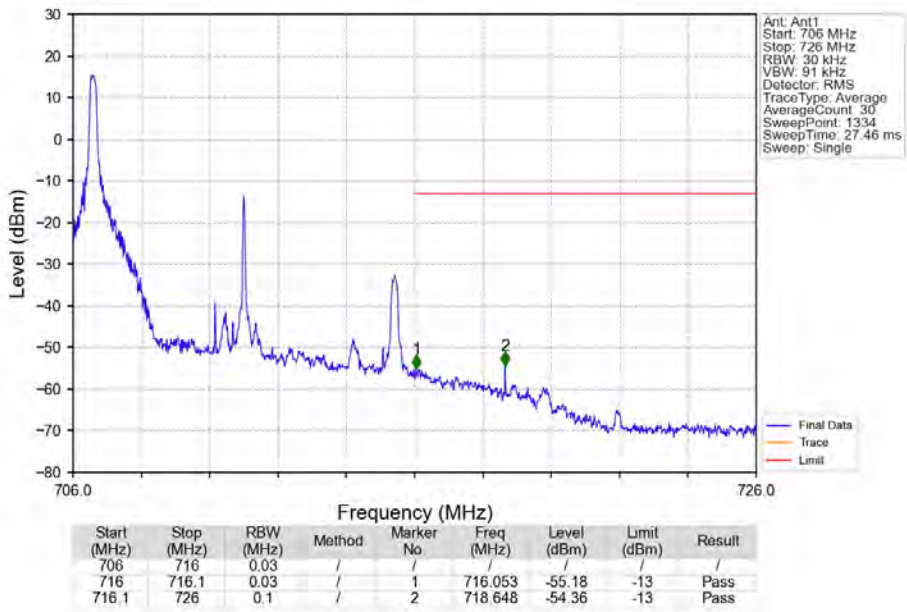
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



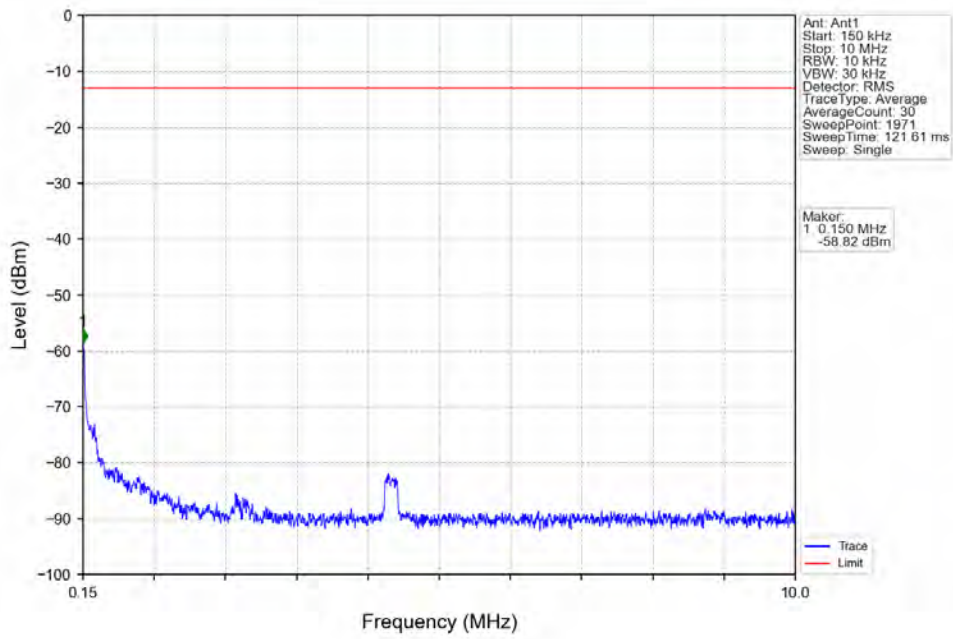
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



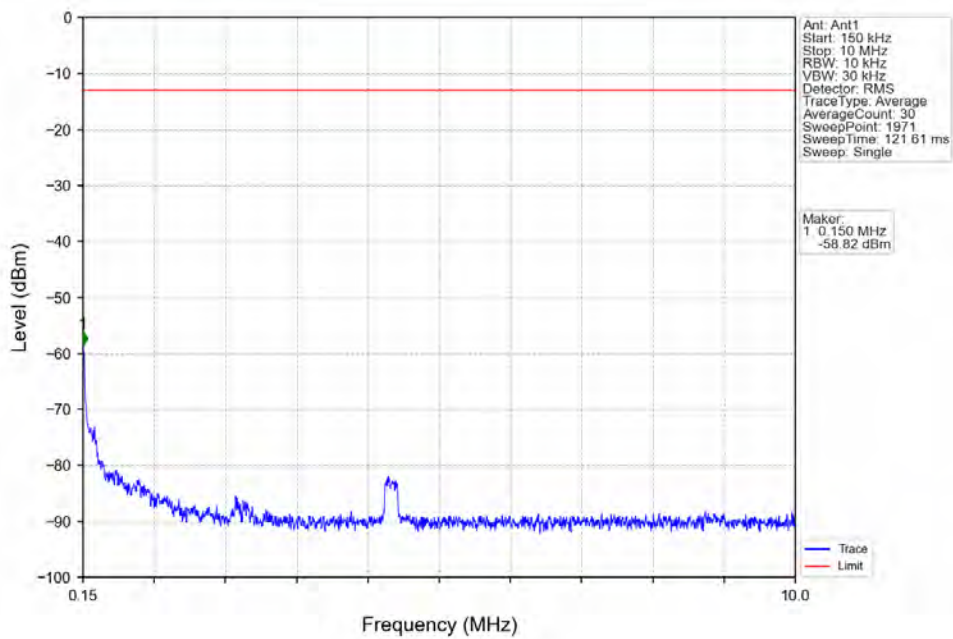
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



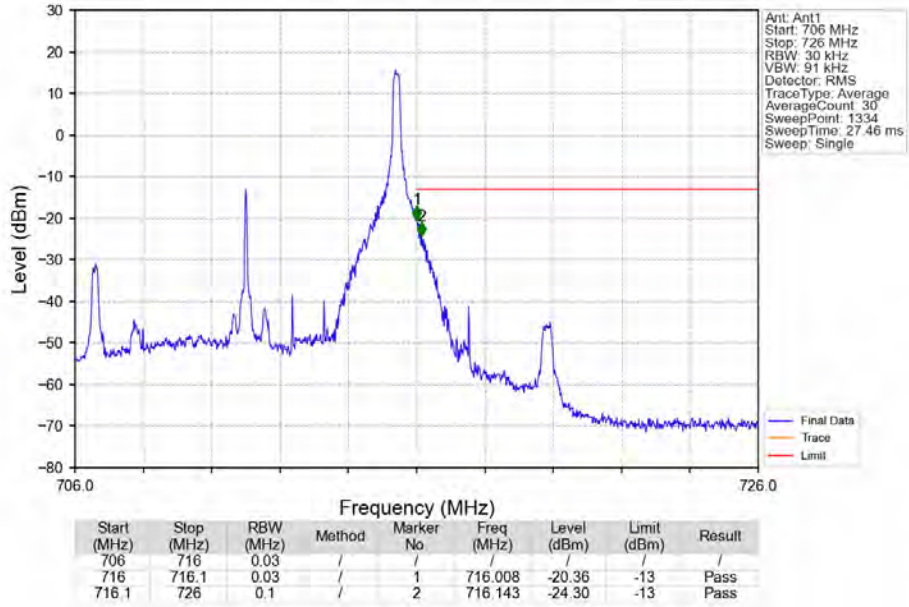
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



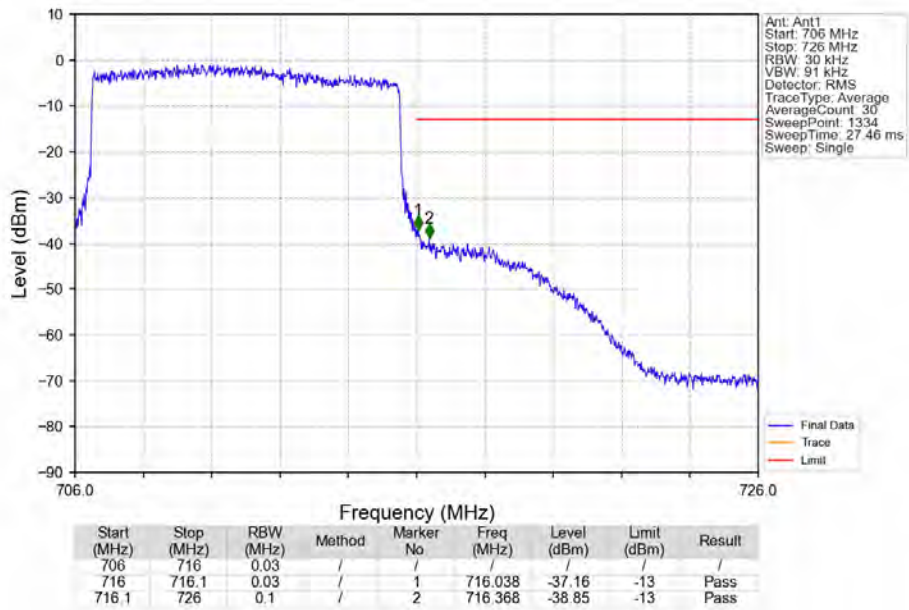
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_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) |
|------|-----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 12 | 1.4 | 699.7 | 715.3 | 0.2606 | 0.0141 | ppm | 1M12G7D | 27H | 24.16 |
| 12 | 1.4 | 699.7 | 715.3 | 0.2004 | 0.0150 | ppm | 1M11W7D | 27H | 23.02 |
| 12 | 3 | 700.5 | 714.5 | 0.2118 | 0.0148 | ppm | 2M73G7D | 27H | 23.26 |
| 12 | 3 | 700.5 | 714.5 | 0.1832 | 0.0169 | ppm | 2M73W7D | 27H | 22.63 |
| 12 | 5 | 701.5 | 713.5 | 0.2014 | 0.0120 | ppm | 4M59G7D | 27H | 23.04 |
| 12 | 5 | 701.5 | 713.5 | 0.1675 | 0.0184 | ppm | 4M58W7D | 27H | 22.24 |
| 12 | 10 | 704 | 711 | 0.2612 | 0.0135 | ppm | 9M15G7D | 27H | 24.17 |
| 12 | 10 | 704 | 711 | 0.2228 | 0.0146 | ppm | 9M13W7D | 27H | 23.48 |

7.2 Form731_ERP

7.2.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|-----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 12 | 1.4 | 699.7 | 715.3 | 0.0693 | 0.0141 | ppm | 1M12G7D | 27H | 18.41 |
| 12 | 1.4 | 699.7 | 715.3 | 0.0533 | 0.0150 | ppm | 1M11W7D | 27H | 17.27 |
| 12 | 3 | 700.5 | 714.5 | 0.0563 | 0.0148 | ppm | 2M73G7D | 27H | 17.51 |
| 12 | 3 | 700.5 | 714.5 | 0.0487 | 0.0169 | ppm | 2M73W7D | 27H | 16.88 |
| 12 | 5 | 701.5 | 713.5 | 0.0535 | 0.0120 | ppm | 4M59G7D | 27H | 17.29 |
| 12 | 5 | 701.5 | 713.5 | 0.0445 | 0.0184 | ppm | 4M58W7D | 27H | 16.49 |
| 12 | 10 | 704 | 711 | 0.0695 | 0.0135 | ppm | 9M15G7D | 27H | 18.42 |
| 12 | 10 | 704 | 711 | 0.0592 | 0.0146 | ppm | 9M13W7D | 27H | 17.73 |