# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B13_5MHz_ERP

| Band: 13 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 779.5 | 1 | 0 | 24.03 | -5.97 | 15.91 | <=34.77 | Pass |
| | | | 13 | 24.12 | -5.97 | 16.00 | <=34.77 | Pass |
| | | | 24 | 24.06 | -5.97 | 15.94 | <=34.77 | Pass |
| | | 12 | 0 | 22.97 | -5.97 | 14.85 | <=34.77 | Pass |
| | | | 6 | 23.08 | -5.97 | 14.96 | <=34.77 | Pass |
| | | | 13 | 23.05 | -5.97 | 14.93 | <=34.77 | Pass |
| | | 25 | 0 | 23.02 | -5.97 | 14.90 | <=34.77 | Pass |
| | 782 | 1 | 0 | 24.09 | -5.97 | 15.97 | <=34.77 | Pass |
| | | | 13 | 24.12 | -5.97 | 16.00 | <=34.77 | Pass |
| | | | 24 | 24.02 | -5.97 | 15.90 | <=34.77 | Pass |
| | | 12 | 0 | 22.99 | -5.97 | 14.87 | <=34.77 | Pass |
| | | | 6 | 23.00 | -5.97 | 14.88 | <=34.77 | Pass |
| | | | 13 | 23.06 | -5.97 | 14.94 | <=34.77 | Pass |
| | | 25 | 0 | 22.99 | -5.97 | 14.87 | <=34.77 | Pass |
| | 784.5 | 1 | 0 | 24.09 | -5.97 | 15.97 | <=34.77 | Pass |
| | | | 13 | 24.18 | -5.97 | 16.06 | <=34.77 | Pass |
| | | | 24 | 24.14 | -5.97 | 16.02 | <=34.77 | Pass |
| | | 12 | 0 | 23.00 | -5.97 | 14.88 | <=34.77 | Pass |
| | | | 6 | 23.05 | -5.97 | 14.93 | <=34.77 | Pass |
| | | | 13 | 23.09 | -5.97 | 14.97 | <=34.77 | Pass |
| | | 25 | 0 | 23.03 | -5.97 | 14.91 | <=34.77 | Pass |
| 16QAM | 779.5 | 1 | 0 | 23.25 | -5.97 | 15.13 | <=34.77 | Pass |
| | | | 13 | 23.30 | -5.97 | 15.18 | <=34.77 | Pass |
| | | | 24 | 23.21 | -5.97 | 15.09 | <=34.77 | Pass |
| | | 12 | 0 | 21.88 | -5.97 | 13.76 | <=34.77 | Pass |
| | | | 6 | 22.04 | -5.97 | 13.92 | <=34.77 | Pass |
| | | | 13 | 22.00 | -5.97 | 13.88 | <=34.77 | Pass |
| | | 25 | 0 | 22.06 | -5.97 | 13.94 | <=34.77 | Pass |
| | 782 | 1 | 0 | 23.16 | -5.97 | 15.04 | <=34.77 | Pass |
| | | | 13 | 23.31 | -5.97 | 15.19 | <=34.77 | Pass |
| | | | 24 | 23.19 | -5.97 | 15.07 | <=34.77 | Pass |
| | | 12 | 0 | 21.96 | -5.97 | 13.84 | <=34.77 | Pass |
| | | | 6 | 22.07 | -5.97 | 13.95 | <=34.77 | Pass |
| | | | 13 | 22.10 | -5.97 | 13.98 | <=34.77 | Pass |
| | | 25 | 0 | 22.02 | -5.97 | 13.90 | <=34.77 | Pass |
| | 784.5 | 1 | 0 | 23.22 | -5.97 | 15.10 | <=34.77 | Pass |
| | | | 13 | 23.30 | -5.97 | 15.18 | <=34.77 | Pass |
| | | | 24 | 23.23 | -5.97 | 15.11 | <=34.77 | Pass |
| | | 12 | 0 | 22.00 | -5.97 | 13.88 | <=34.77 | Pass |
| | | | 6 | 22.04 | -5.97 | 13.92 | <=34.77 | Pass |
| | | | 13 | 22.04 | -5.97 | 13.92 | <=34.77 | Pass |
| | | 25 | 0 | 22.05 | -5.97 | 13.93 | <=34.77 | Pass |
| 64QAM | 779.5 | 1 | 0 | 22.21 | -5.97 | 14.09 | <=34.77 | Pass |
| | | | 13 | 22.22 | -5.97 | 14.10 | <=34.77 | Pass |
| | | | 24 | 22.16 | -5.97 | 14.04 | <=34.77 | Pass |
| | | 12 | 0 | 20.99 | -5.97 | 12.87 | <=34.77 | Pass |
| | | | 6 | 21.07 | -5.97 | 12.95 | <=34.77 | Pass |
| | | | 13 | 21.07 | -5.97 | 12.95 | <=34.77 | Pass |
| | | 25 | 0 | 21.06 | -5.97 | 12.94 | <=34.77 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 782 | 1 | 0 | 22.26 | -5.97 | 14.14 | <=34.77 | Pass |
| | | | 13 | 22.28 | -5.97 | 14.16 | <=34.77 | Pass |
| | | | 24 | 22.25 | -5.97 | 14.13 | <=34.77 | Pass |
| | | 12 | 0 | 21.00 | -5.97 | 12.88 | <=34.77 | Pass |
| | | | 6 | 21.07 | -5.97 | 12.95 | <=34.77 | Pass |
| | | | 13 | 21.11 | -5.97 | 12.99 | <=34.77 | Pass |
| | | 25 | 0 | 21.00 | -5.97 | 12.88 | <=34.77 | Pass |
| | 784.5 | 1 | 0 | 22.13 | -5.97 | 14.01 | <=34.77 | Pass |
| | | | 13 | 22.19 | -5.97 | 14.07 | <=34.77 | Pass |
| | | | 24 | 22.15 | -5.97 | 14.03 | <=34.77 | Pass |
| | | 12 | 0 | 21.04 | -5.97 | 12.92 | <=34.77 | Pass |
| | | | 6 | 21.06 | -5.97 | 12.94 | <=34.77 | Pass |
| | | | 13 | 21.11 | -5.97 | 12.99 | <=34.77 | Pass |
| | | 25 | 0 | 21.05 | -5.97 | 12.93 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.1.2 B13_10MHz_ERP

| Band: 13 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 782 | 1 | 0 | 24.04 | -5.97 | 15.92 | <=34.77 | Pass |
| | | | 25 | 24.07 | -5.97 | 15.95 | <=34.77 | Pass |
| | | | 49 | 24.03 | -5.97 | 15.91 | <=34.77 | Pass |
| | | 25 | 0 | 23.01 | -5.97 | 14.89 | <=34.77 | Pass |
| | | | 13 | 23.02 | -5.97 | 14.90 | <=34.77 | Pass |
| | | | 25 | 23.05 | -5.97 | 14.93 | <=34.77 | Pass |
| | | 50 | 0 | 22.97 | -5.97 | 14.85 | <=34.77 | Pass |
| 16QAM | 782 | 1 | 0 | 23.19 | -5.97 | 15.07 | <=34.77 | Pass |
| | | | 25 | 23.26 | -5.97 | 15.14 | <=34.77 | Pass |
| | | | 49 | 23.23 | -5.97 | 15.11 | <=34.77 | Pass |
| | | 25 | 0 | 22.02 | -5.97 | 13.90 | <=34.77 | Pass |
| | | | 13 | 22.02 | -5.97 | 13.90 | <=34.77 | Pass |
| | | | 25 | 22.06 | -5.97 | 13.94 | <=34.77 | Pass |
| | | 50 | 0 | 21.98 | -5.97 | 13.86 | <=34.77 | Pass |
| 64QAM | 782 | 1 | 0 | 22.19 | -5.97 | 14.07 | <=34.77 | Pass |
| | | | 25 | 22.24 | -5.97 | 14.12 | <=34.77 | Pass |
| | | | 49 | 22.16 | -5.97 | 14.04 | <=34.77 | Pass |
| | | 25 | 0 | 21.01 | -5.97 | 12.89 | <=34.77 | Pass |
| | | | 13 | 21.01 | -5.97 | 12.89 | <=34.77 | Pass |
| | | | 25 | 21.08 | -5.97 | 12.96 | <=34.77 | Pass |
| | | 50 | 0 | 21.00 | -5.97 | 12.88 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

# 2. Frequency Stability

## 2.1 Test Result

### 2.1.1 B13_5MHz

| Band: 13 / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 779.5 | 25 | 0 | 20 | 3.6 | 0.261 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 2.303 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.509 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.768 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.661 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 0.778 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.352 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.344 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.698 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.515 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 2.052 | 0.0026 | -2.5 to 2.5 | Pass |
| | 782 | 25 | 0 | 20 | 3.6 | 2.701 | 0.0035 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 3.921 | 0.0050 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.883 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 3.041 | 0.0039 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 2.763 | 0.0035 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 3.231 | 0.0041 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.909 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 2.926 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 2.878 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 3.000 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 2.908 | 0.0037 | -2.5 to 2.5 | Pass |
| | 784.5 | 25 | 0 | 20 | 3.6 | 1.485 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 3.357 | 0.0043 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.955 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 3.105 | 0.0040 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 2.291 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 2.288 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.346 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.682 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.087 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.439 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.658 | 0.0008 | -2.5 to 2.5 | Pass |
| 16QAM | 779.5 | 25 | 0 | 20 | 3.6 | 1.678 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.440 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.855 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.217 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.635 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 1.119 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.786 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.643 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.976 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.313 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.346 | 0.0017 | -2.5 to 2.5 | Pass |
| | 782 | 25 | 0 | 20 | 3.6 | 2.989 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 1.002 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.037 | 0.0026 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.92 | 1.801 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 1.439 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 1.637 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.457 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.936 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.476 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.849 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.974 | 0.0012 | -2.5 to 2.5 | Pass |
| | 784.5 | 25 | 0 | 20 | 3.6 | 1.947 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.916 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.814 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.851 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 1.755 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 0.254 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -0.021 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.683 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.545 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.118 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.181 | -0.0002 | -2.5 to 2.5 | Pass |
| 64QAM | 779.5 | 25 | 0 | 20 | 3.6 | 1.445 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 1.806 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.580 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 1.395 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.689 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.062 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.142 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.126 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.427 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.107 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.400 | 0.0005 | -2.5 to 2.5 | Pass |
| | 782 | 25 | 0 | 20 | 3.6 | 1.455 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.219 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.172 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.215 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -0.920 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.553 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.112 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.233 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.793 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.205 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 2.017 | 0.0026 | -2.5 to 2.5 | Pass |
| | 784.5 | 25 | 0 | 20 | 3.6 | 0.040 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.179 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.585 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.331 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 1.733 | 0.0022 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 1.262 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -1.632 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.391 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.721 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.059 | 0.0013 | -2.5 to 2.5 | Pass |

## 2.1.2 B13_10MHz

| Band: 13 / Bandwidth: 10MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Modulation | Frequency | RB Allocation | Temp. | Voltage | Freq. Error | Freq. vs. Rated (ppm) | Verdict |

| | (MHz) | Size | Offset | (°C) | (VDC) | (Hz) | Result | Limit | |
|---|---|---|---|---|---|---|---|---|---|
| QPSK | 782 | 50 | 0 | 20 | 3.6 | 1.240 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 1.569 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.610 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.237 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.558 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.357 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.385 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.127 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -0.457 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.578 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.512 | 0.0007 | -2.5 to 2.5 | Pass |
| 16QAM | 782 | 50 | 0 | 20 | 3.6 | 0.963 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 2.288 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.045 | 0.0026 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.974 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -0.938 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 0.827 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.192 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.448 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 2.823 | 0.0036 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 2.710 | 0.0035 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 2.738 | 0.0035 | -2.5 to 2.5 | Pass |
| 64QAM | 782 | 50 | 0 | 20 | 3.6 | 0.929 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 2.502 | 0.0032 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.351 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 1.401 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.844 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 0.472 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.806 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.935 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.271 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -0.265 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.957 | 0.0012 | -2.5 to 2.5 | Pass |

# 3. 99% & 26dB Bandwidth

## 3.1 Test Result

### 3.1.1 Band13_OBW

| Band: 13 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 779.5 | 25 | 0 | 4.559 | / | Pass |
| | | 782 | 25 | 0 | 4.576 | / | Pass |
| | | 784.5 | 25 | 0 | 4.551 | / | Pass |
| | 16QAM | 779.5 | 25 | 0 | 4.586 | / | Pass |
| | | 782 | 25 | 0 | 4.577 | / | Pass |
| | | 784.5 | 25 | 0 | 4.581 | / | Pass |
| | 64QAM | 779.5 | 25 | 0 | 4.573 | / | Pass |
| | | 782 | 25 | 0 | 4.562 | / | Pass |
| | | 784.5 | 25 | 0 | 4.575 | / | Pass |
| 10 | QPSK | 782 | 50 | 0 | 9.059 | / | Pass |
| | 16QAM | 782 | 50 | 0 | 9.063 | / | Pass |
| | 64QAM | 782 | 50 | 0 | 9.063 | / | Pass |

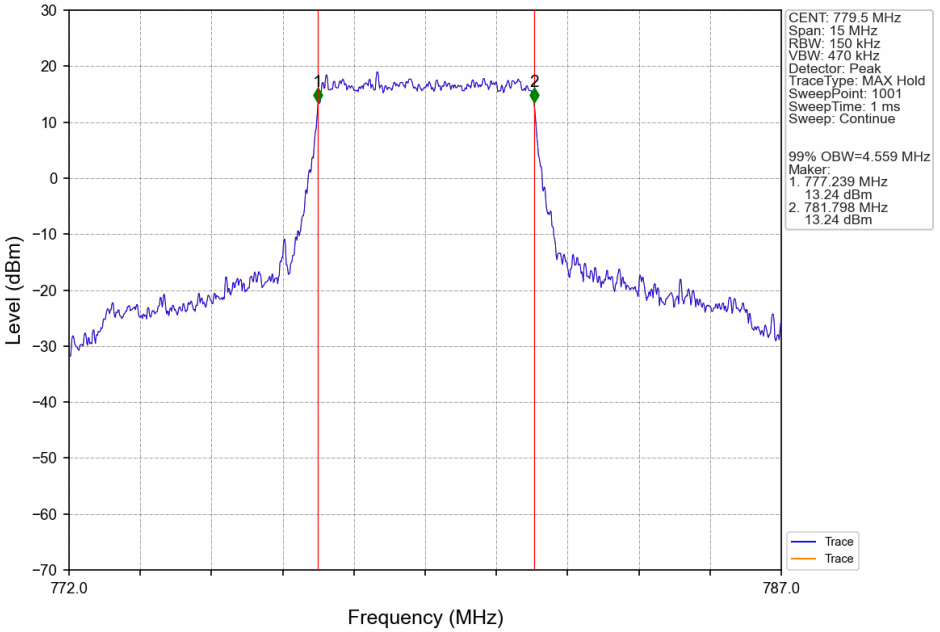
### 3.1.2 Band13_XDB

| Band: 13 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 779.5 | 25 | 0 | 5.252 | / | Pass |
| | | 782 | 25 | 0 | 5.247 | / | Pass |
| | | 784.5 | 25 | 0 | 5.170 | / | Pass |
| | 16QAM | 779.5 | 25 | 0 | 5.248 | / | Pass |
| | | 782 | 25 | 0 | 5.264 | / | Pass |
| | | 784.5 | 25 | 0 | 5.235 | / | Pass |
| | 64QAM | 779.5 | 25 | 0 | 5.272 | / | Pass |
| | | 782 | 25 | 0 | 5.194 | / | Pass |
| | | 784.5 | 25 | 0 | 5.261 | / | Pass |
| 10 | QPSK | 782 | 50 | 0 | 10.144 | / | Pass |
| | 16QAM | 782 | 50 | 0 | 10.155 | / | Pass |
| | 64QAM | 782 | 50 | 0 | 10.082 | / | Pass |

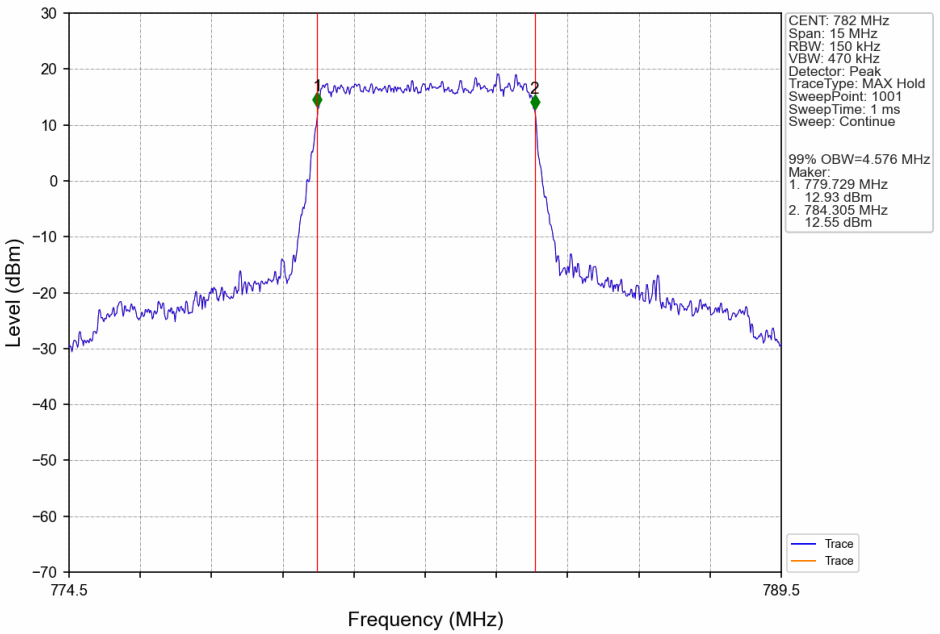
## 3.2 Test Graph

### 3.2.1 Band13_OBW

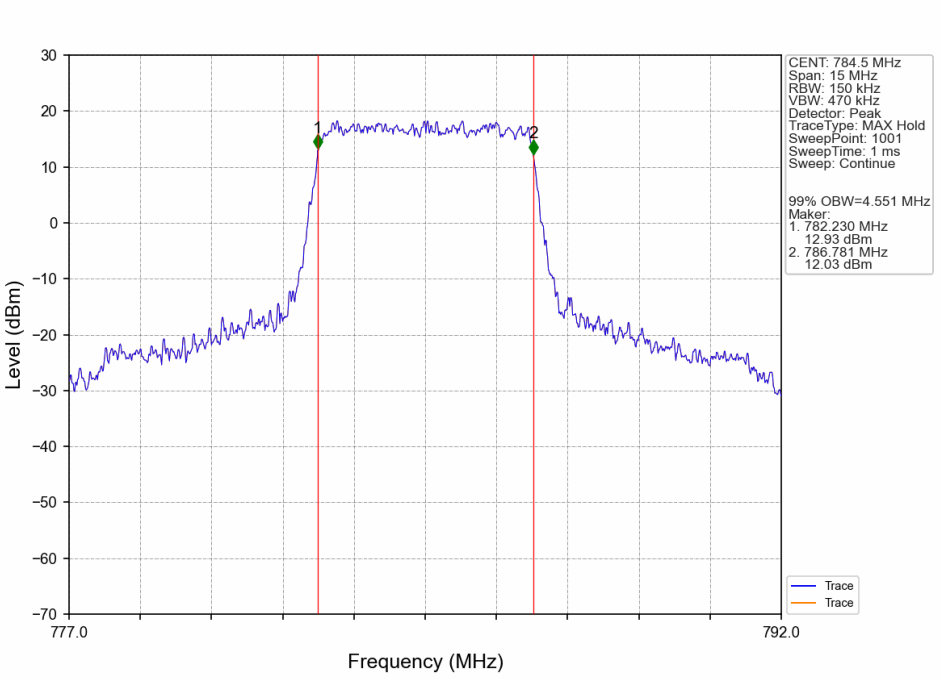
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



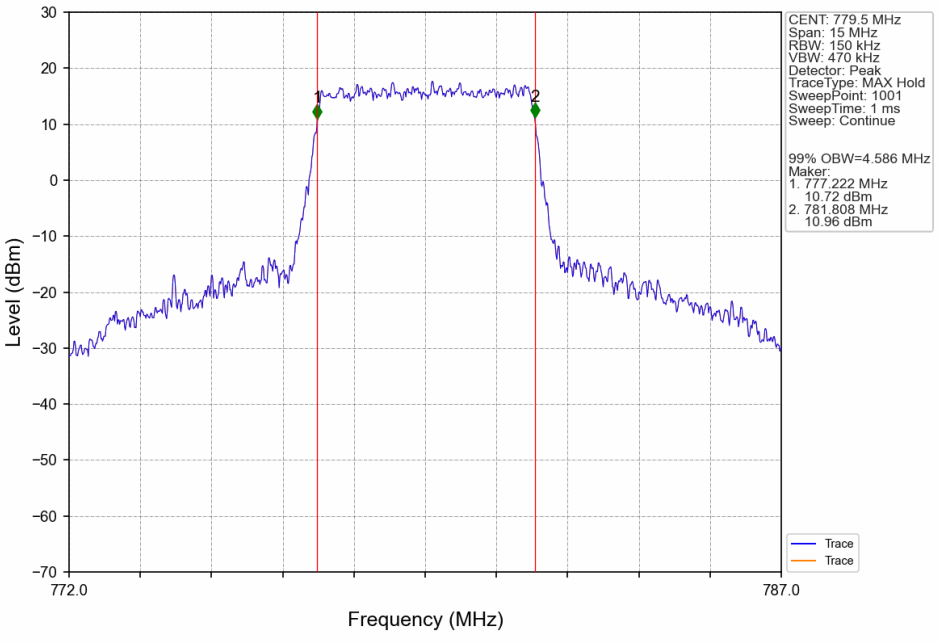

Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



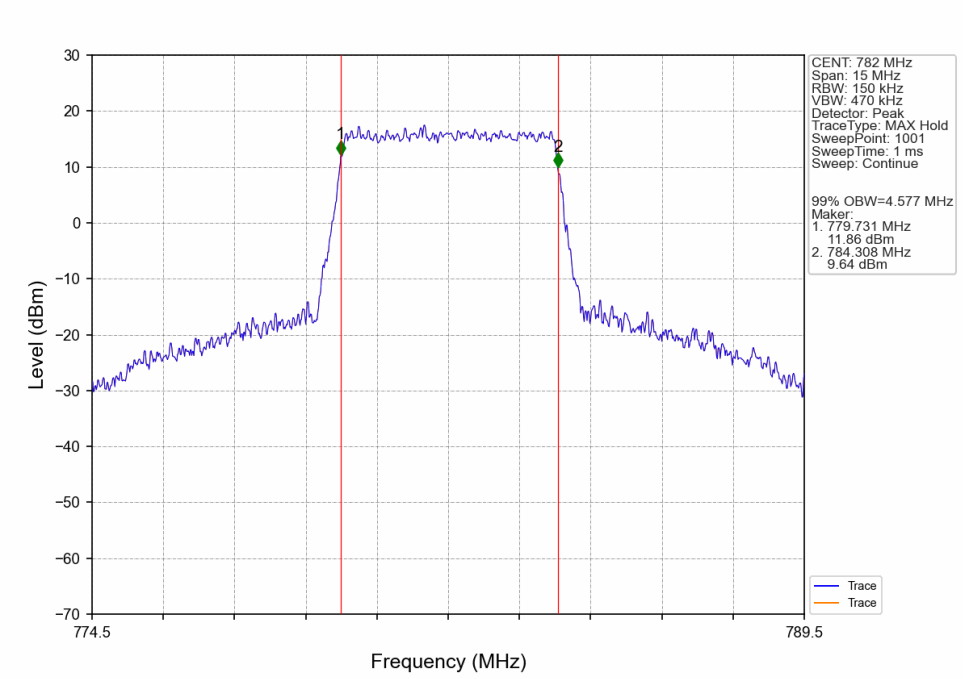
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



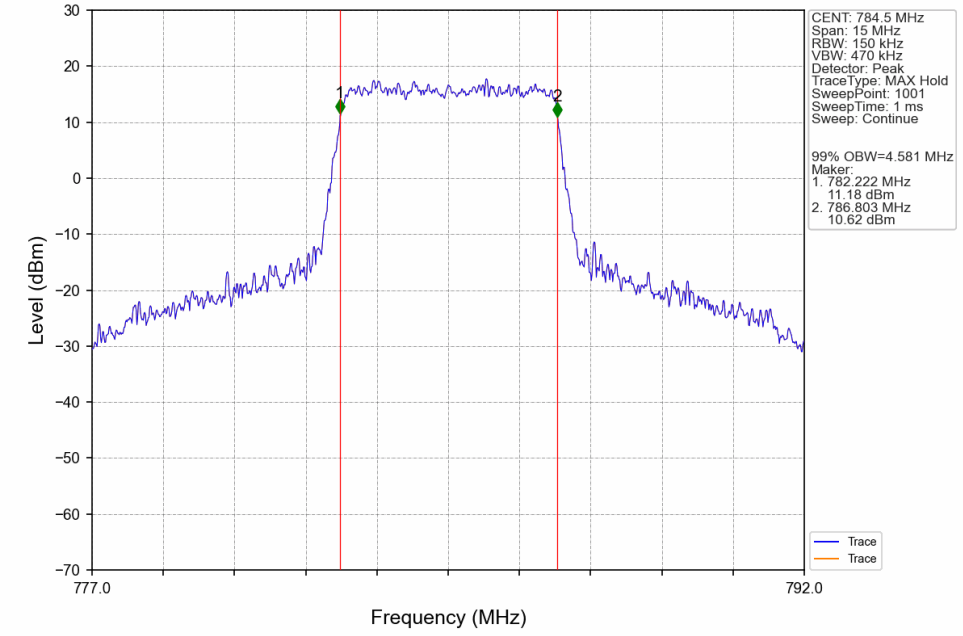

Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



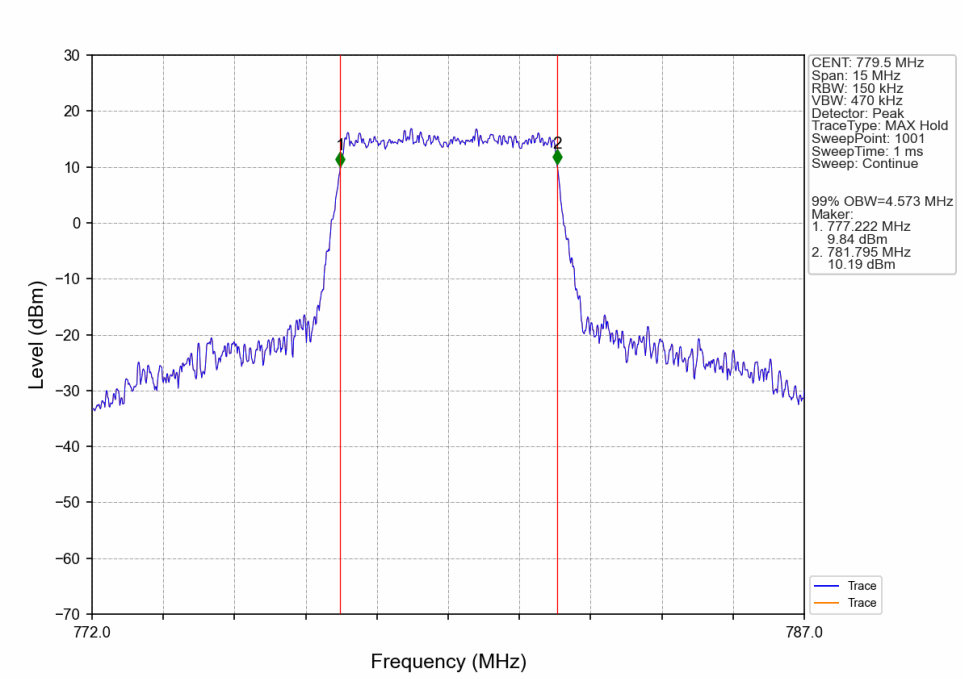
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



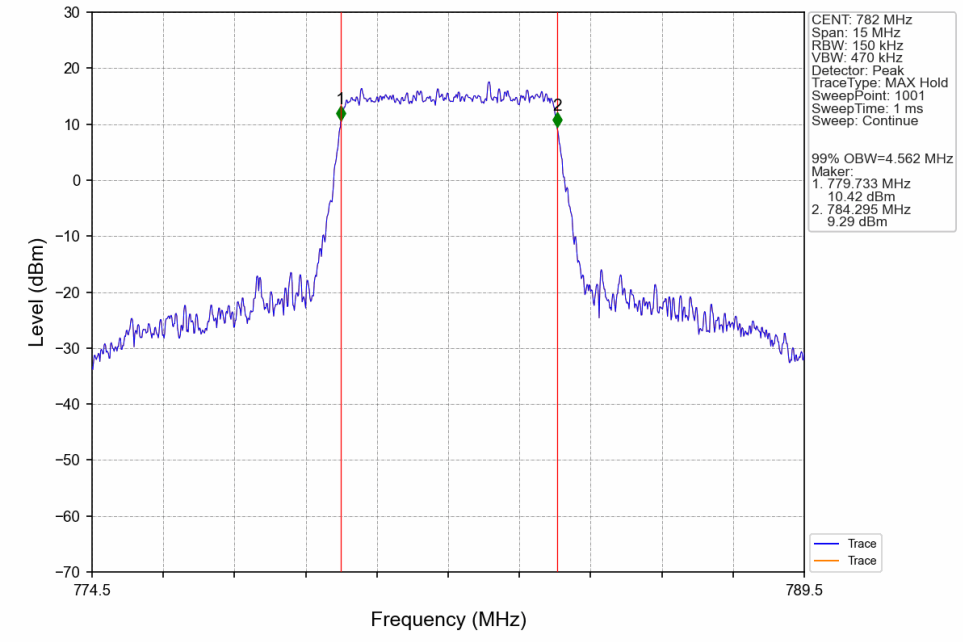

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



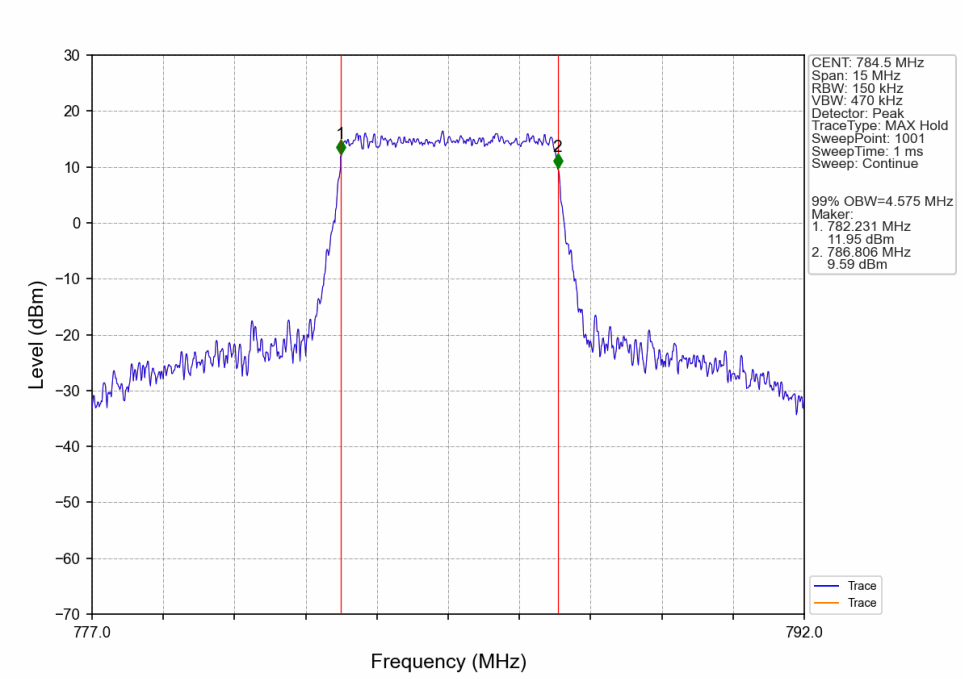
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



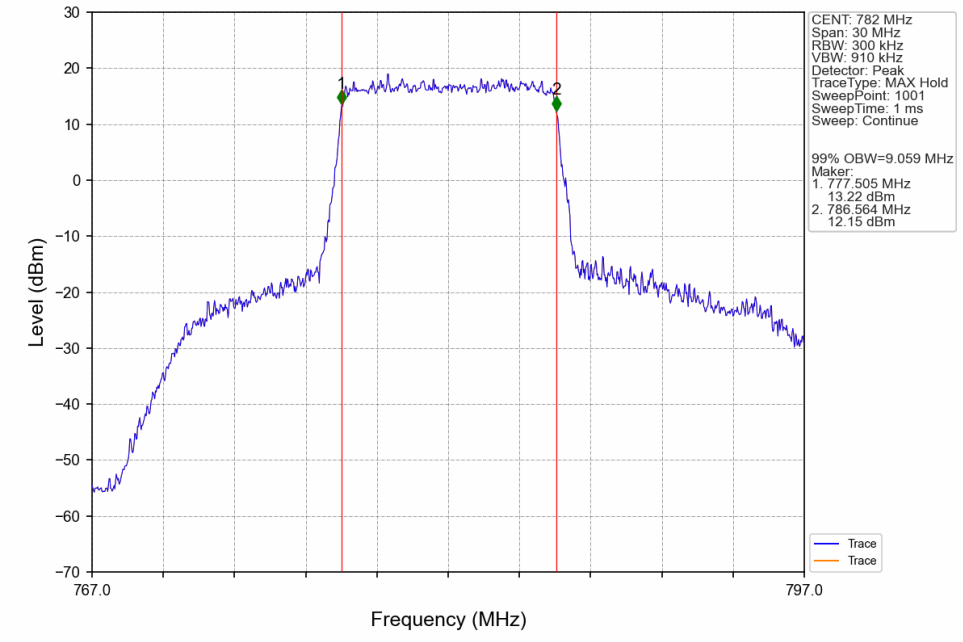

Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



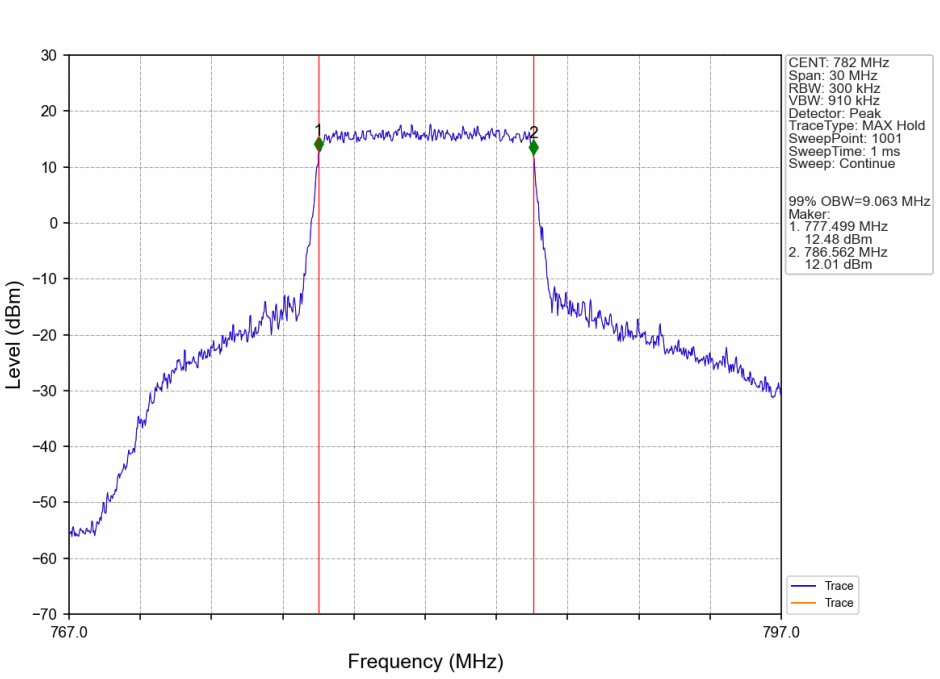
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



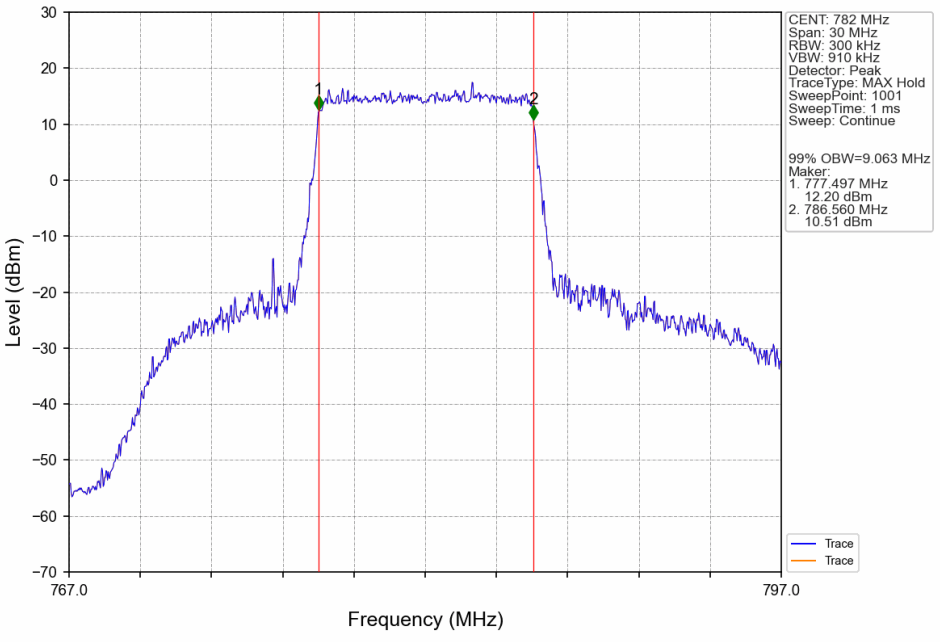

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

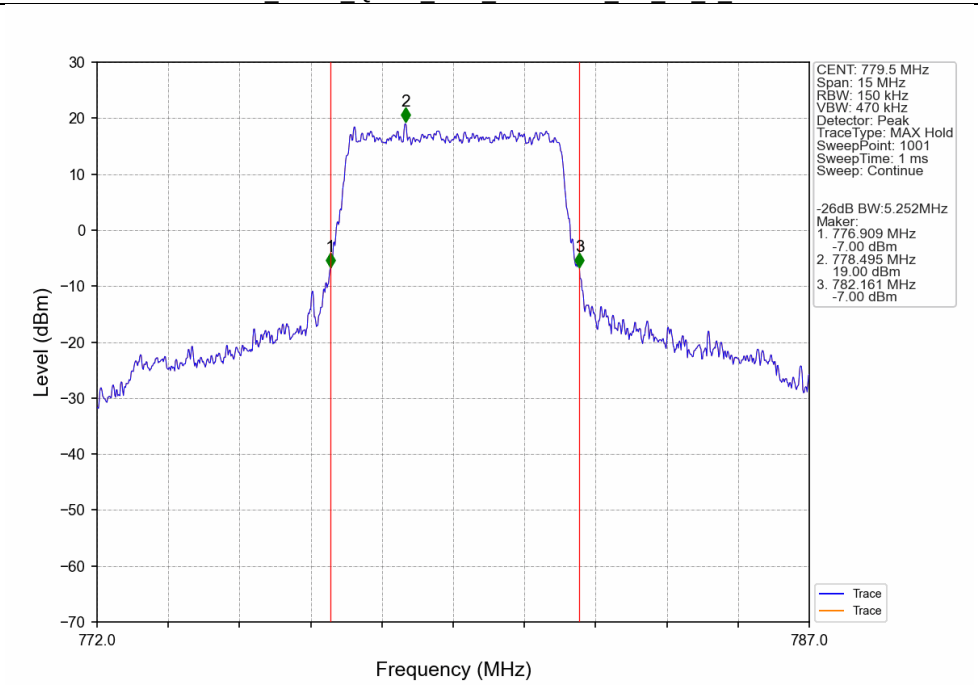



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV

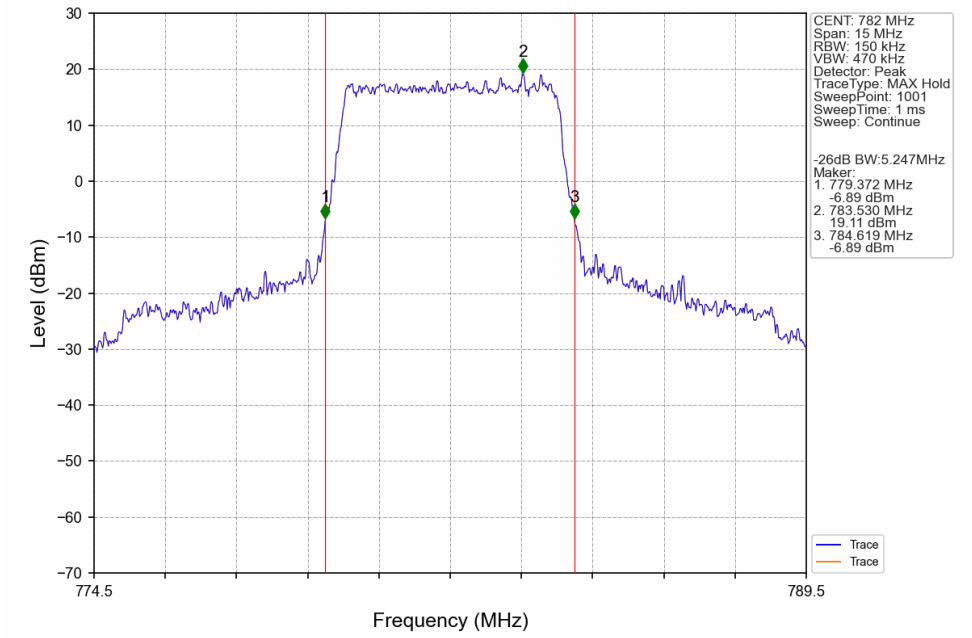


## 3.2.2 Band13_XDB

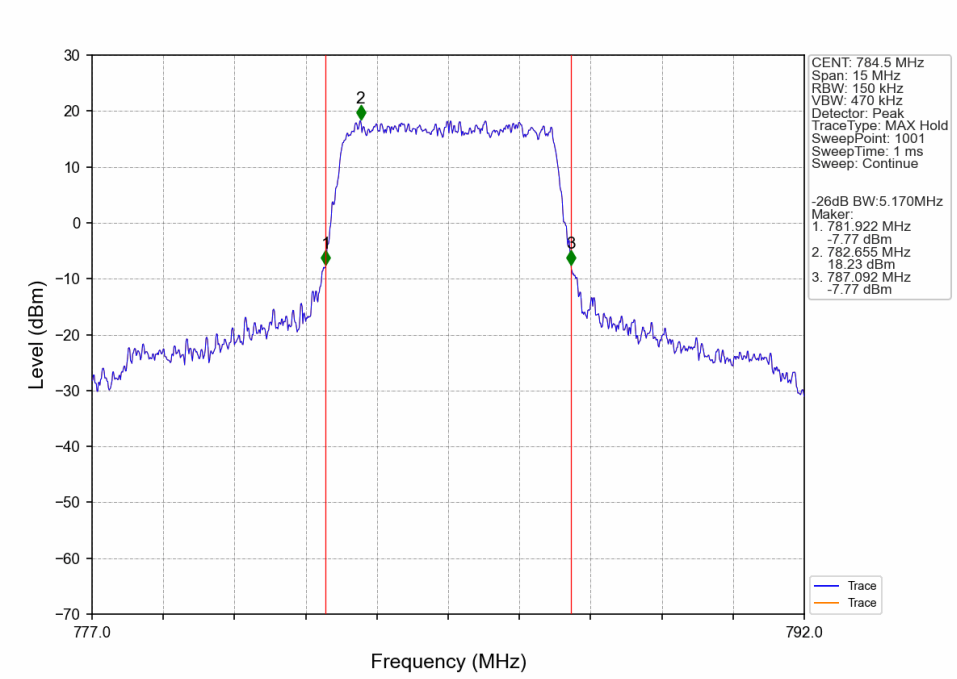
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



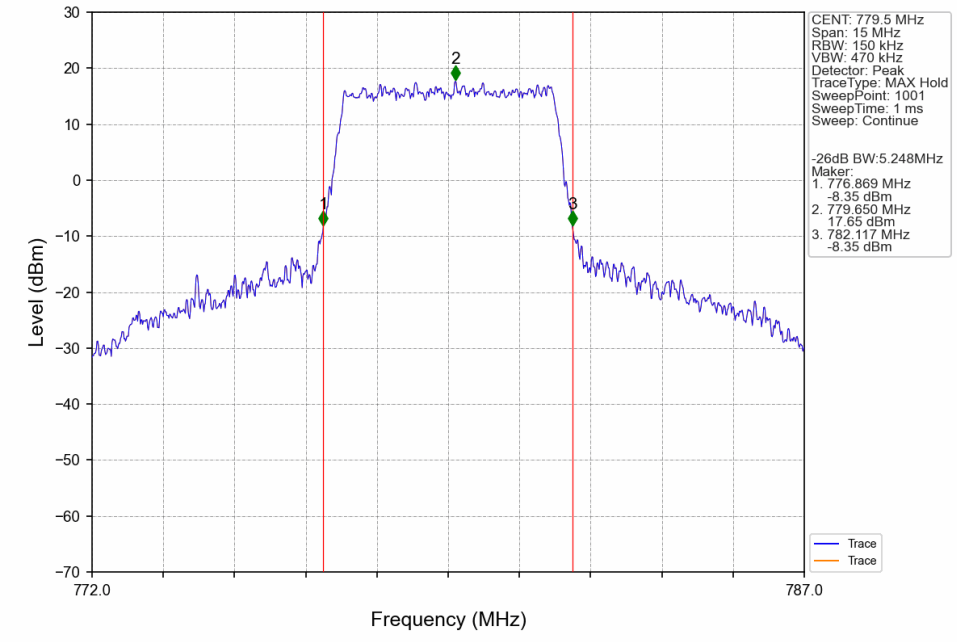

Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



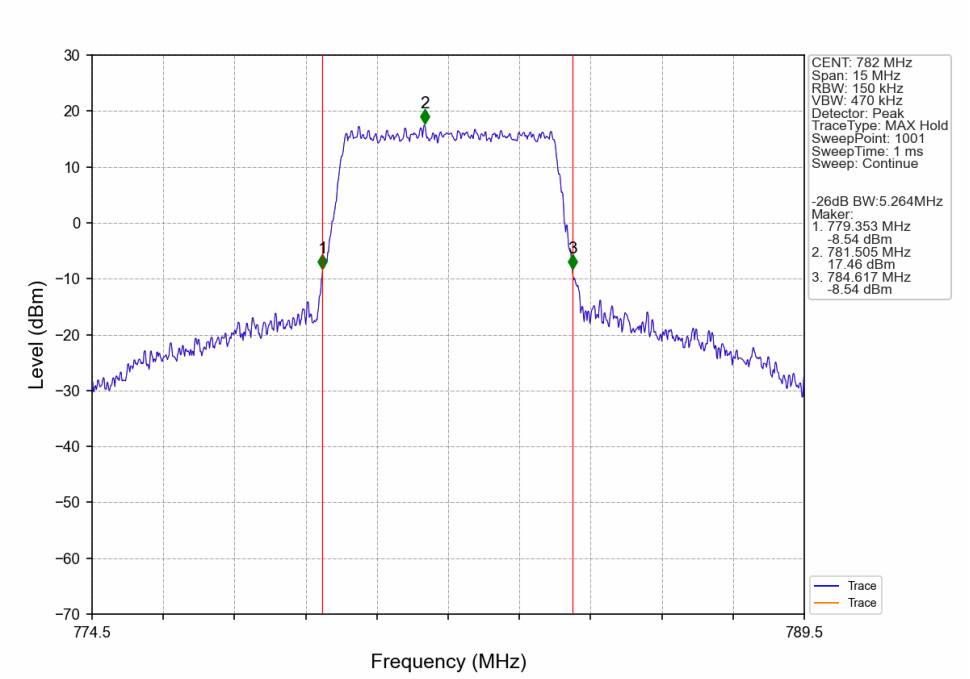
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



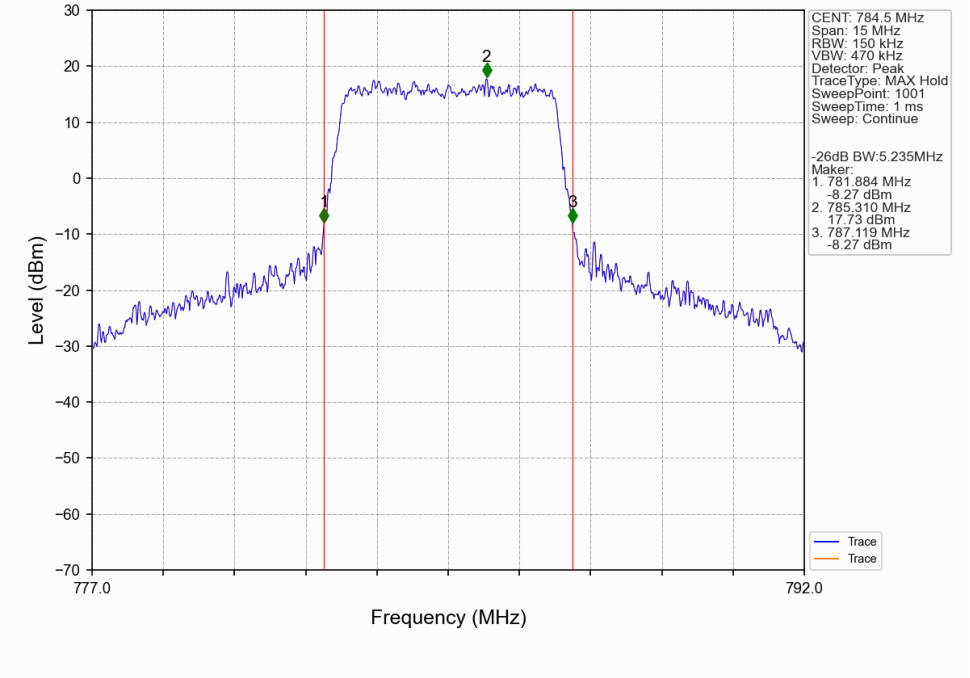

Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



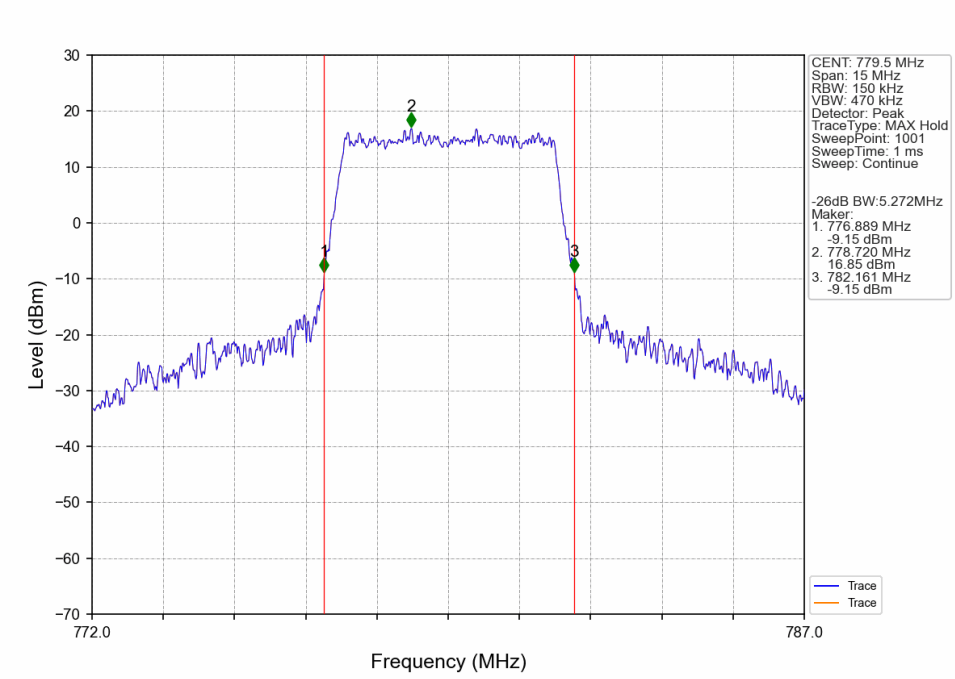
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



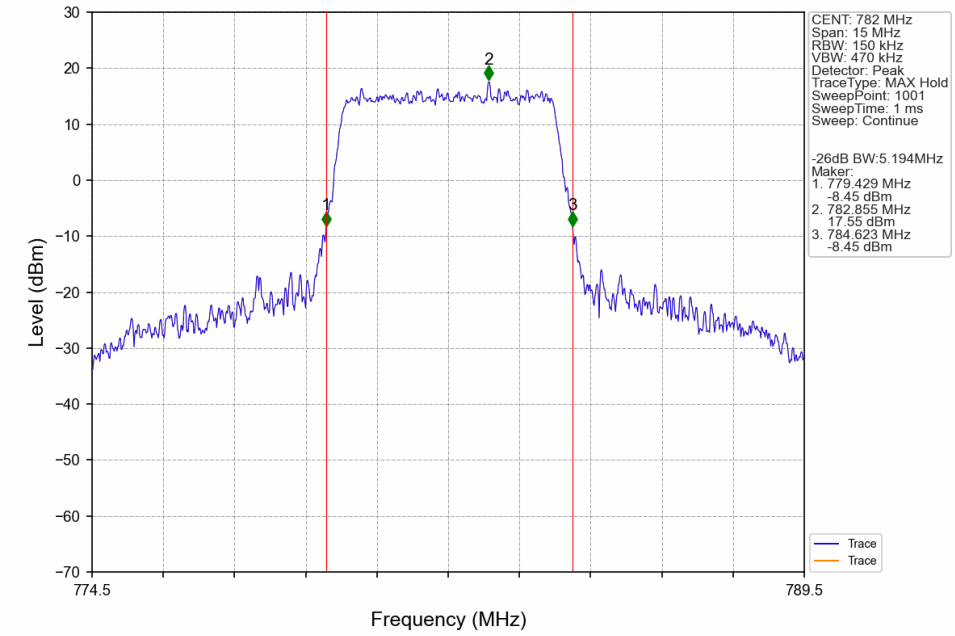

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



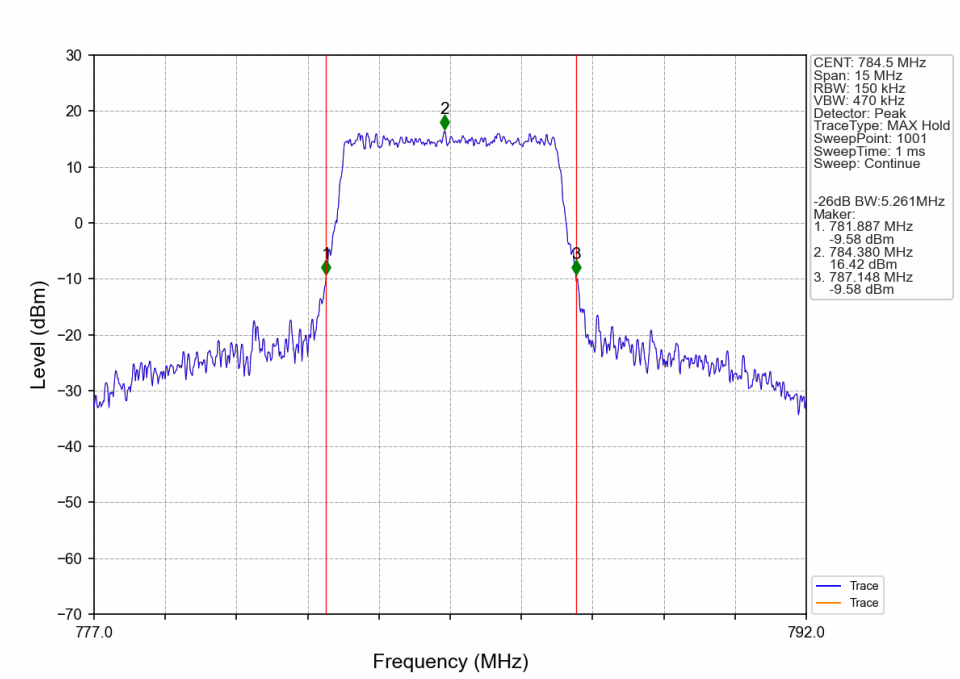
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



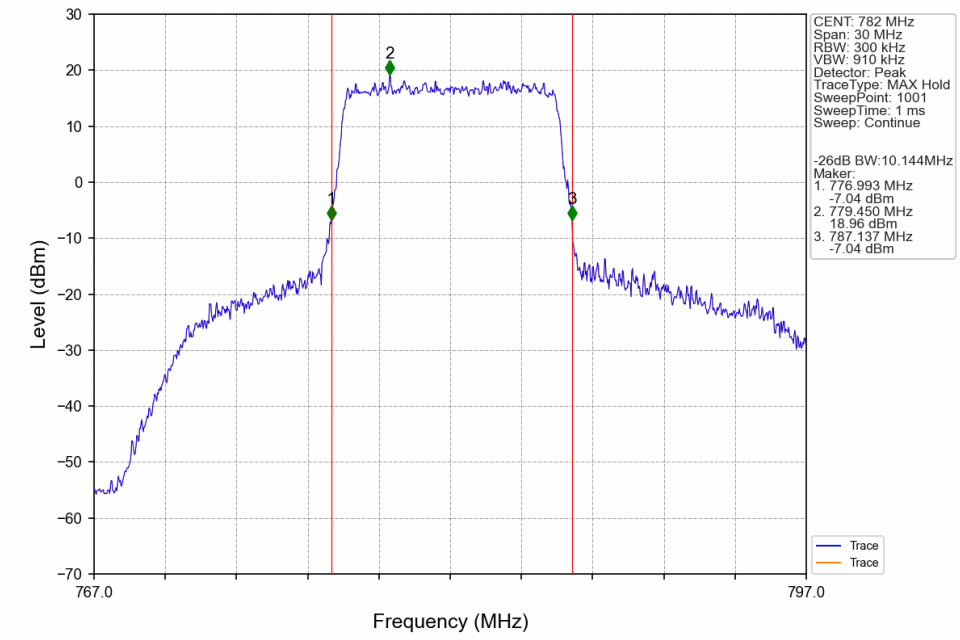

Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



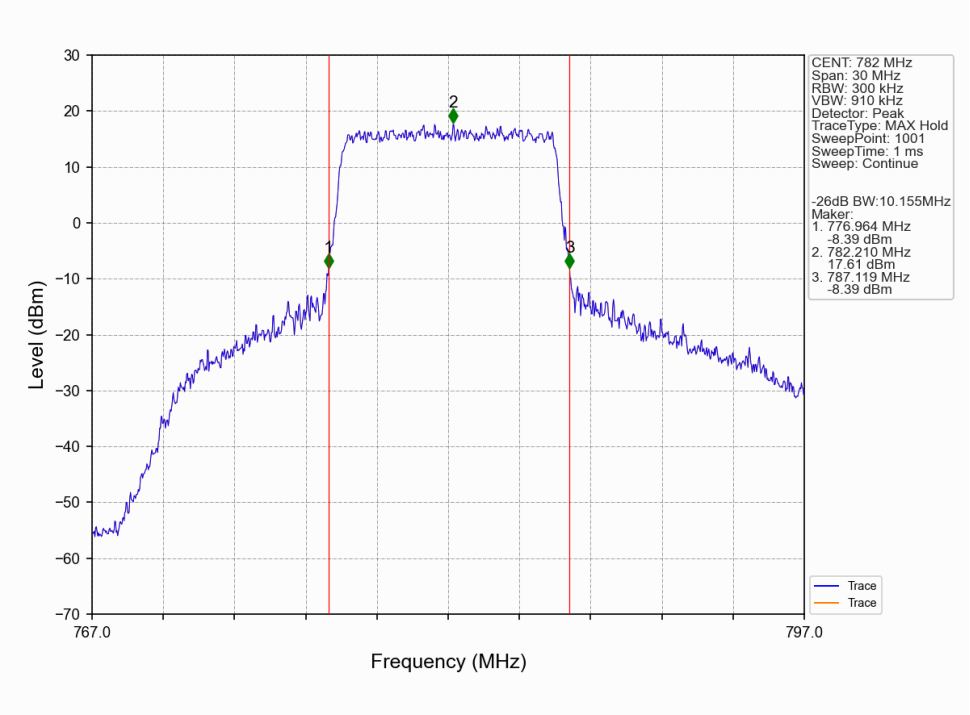
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



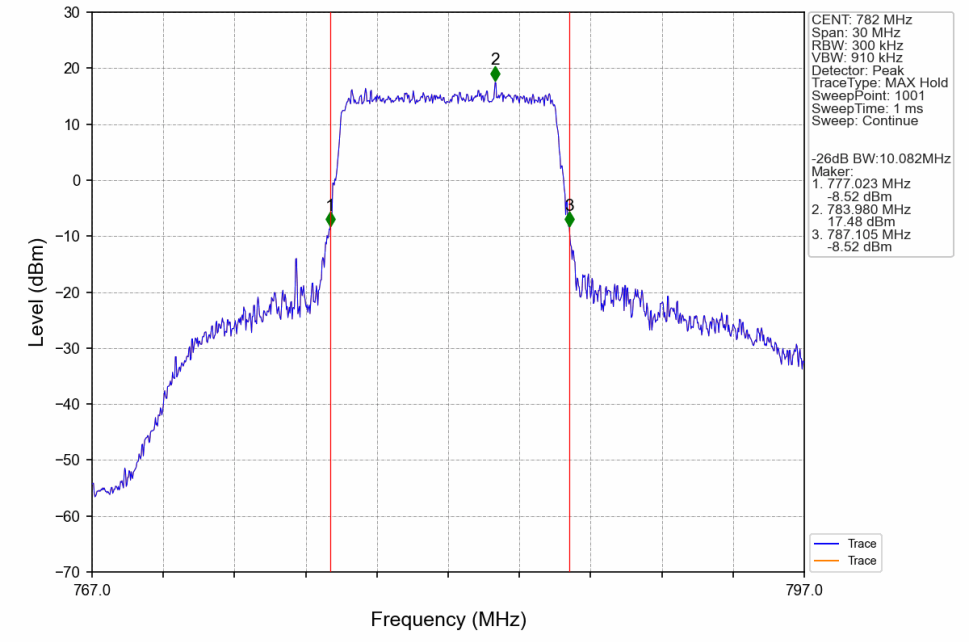

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV




Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



# 4. Peak-Average Ratio

## 4.1 Test Result

### 4.1.1 B13_5MHz

| Band: 13 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 779.5 | 25 | 0 | 5.18 | <=13 | Pass |
| | 782 | 25 | 0 | 5.16 | <=13 | Pass |
| | 784.5 | 25 | 0 | 5.22 | <=13 | Pass |
| 16QAM | 779.5 | 25 | 0 | 6.00 | <=13 | Pass |
| | 782 | 25 | 0 | 5.98 | <=13 | Pass |
| | 784.5 | 25 | 0 | 6.04 | <=13 | Pass |
| 64QAM | 779.5 | 25 | 0 | 6.42 | <=13 | Pass |
| | 782 | 25 | 0 | 6.39 | <=13 | Pass |
| | 784.5 | 25 | 0 | 6.44 | <=13 | Pass |

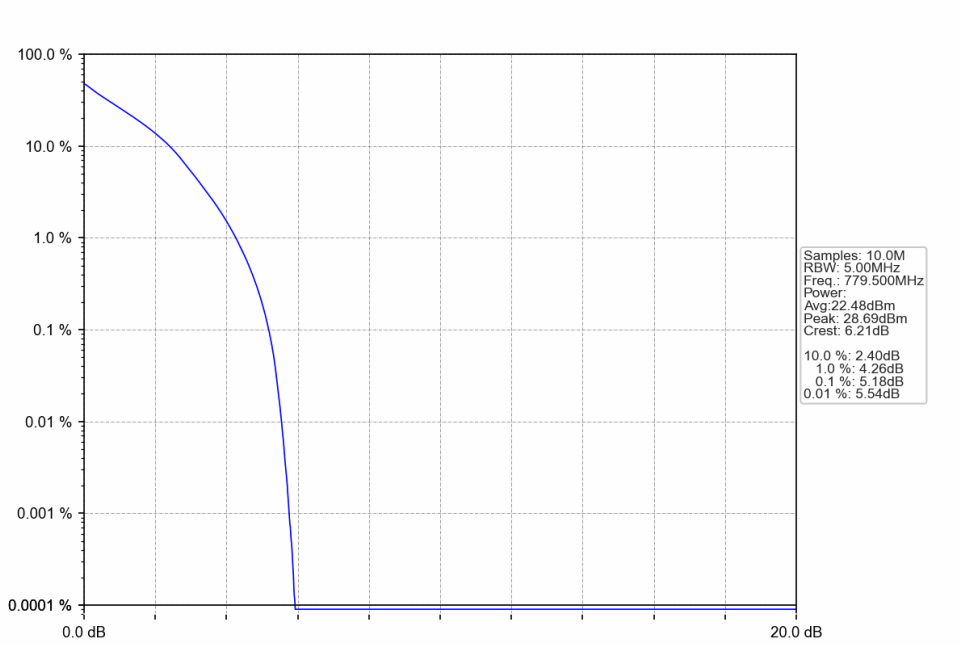
### 4.1.2 B13_10MHz

| Band: 13 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 782 | 50 | 0 | 5.18 | <=13 | Pass |
| 16QAM | 782 | 50 | 0 | 5.98 | <=13 | Pass |
| 64QAM | 782 | 50 | 0 | 6.39 | <=13 | Pass |

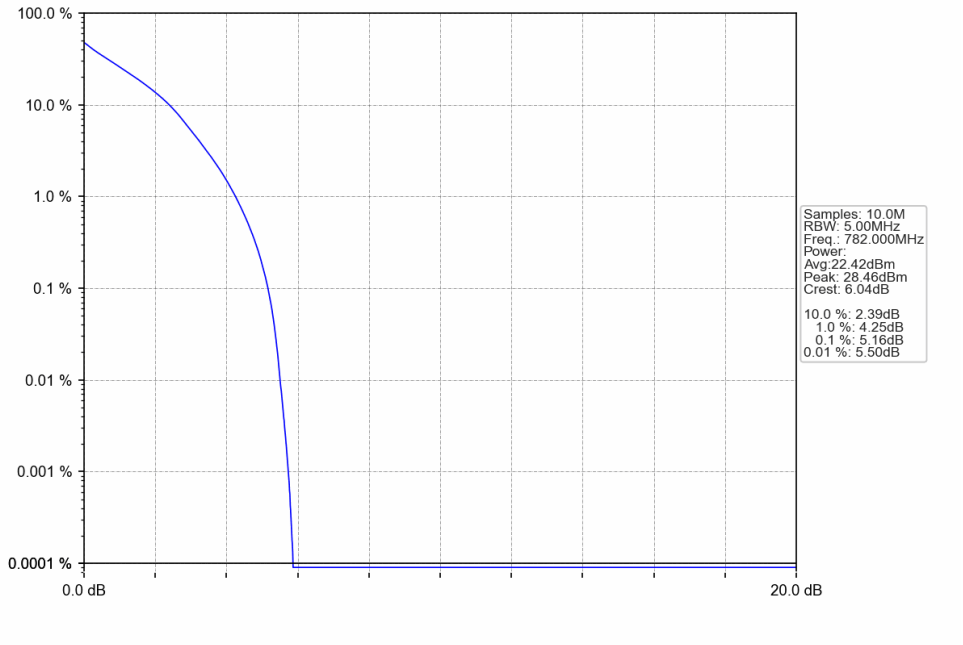
## 4.2 Test Graph

### 4.2.1 B13_5MHz

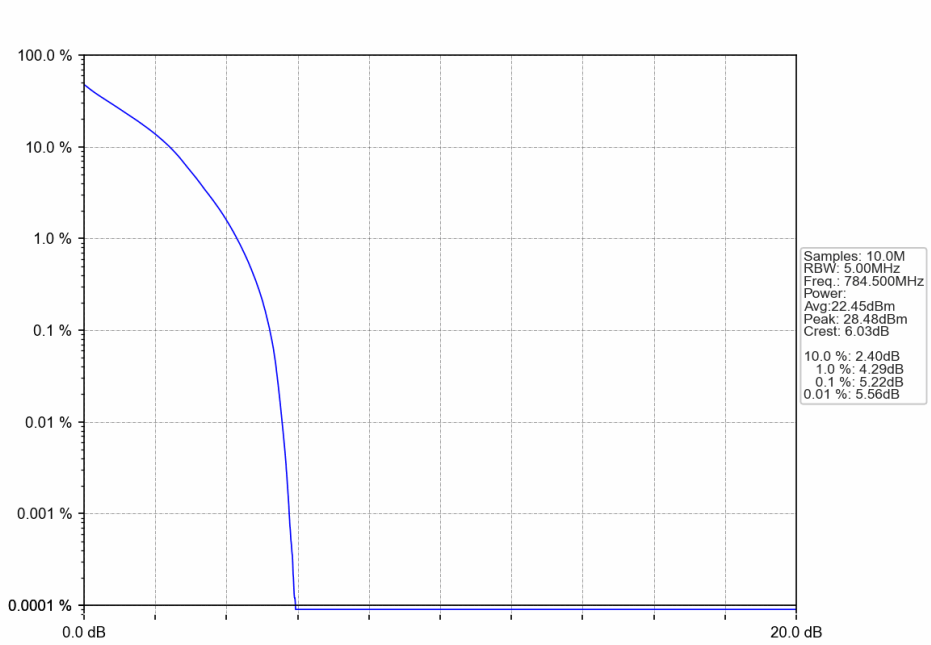
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



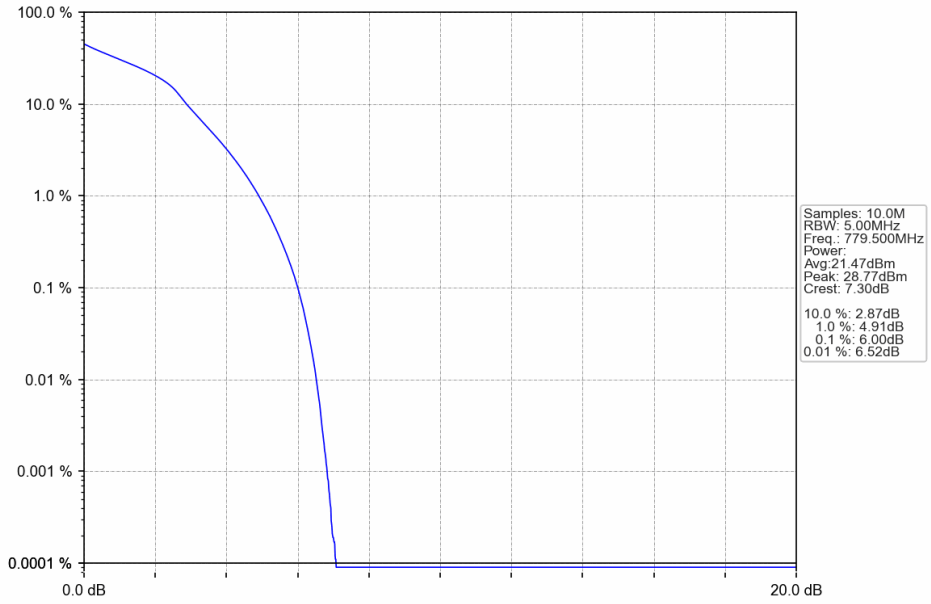

Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



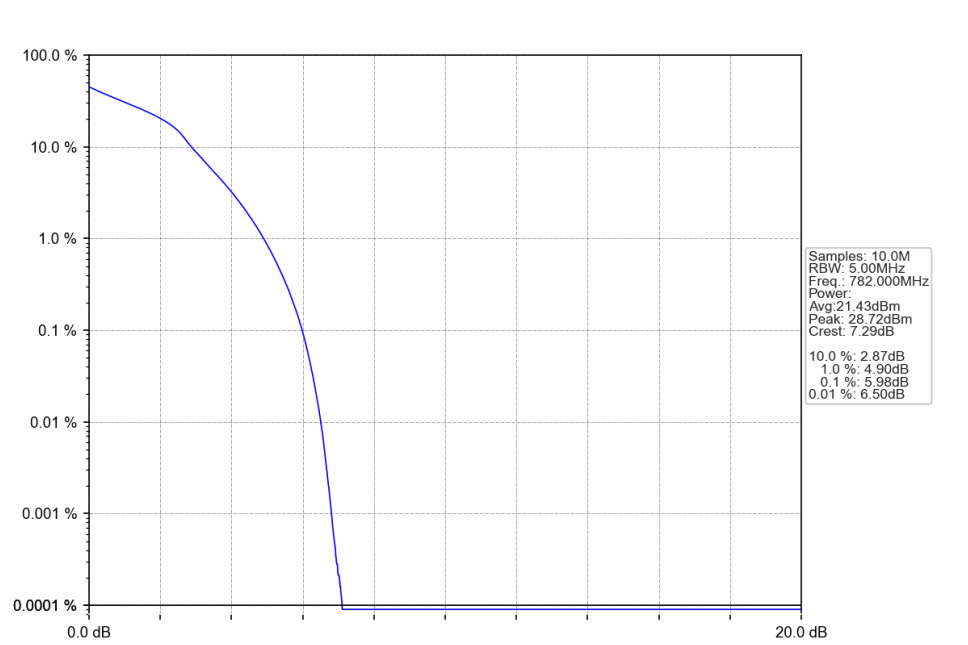
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



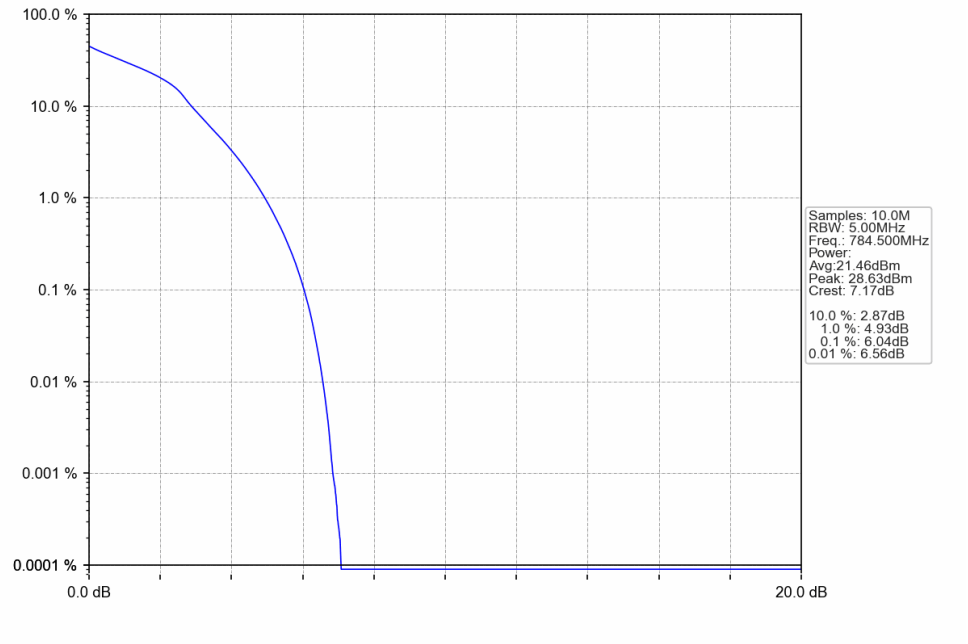

Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



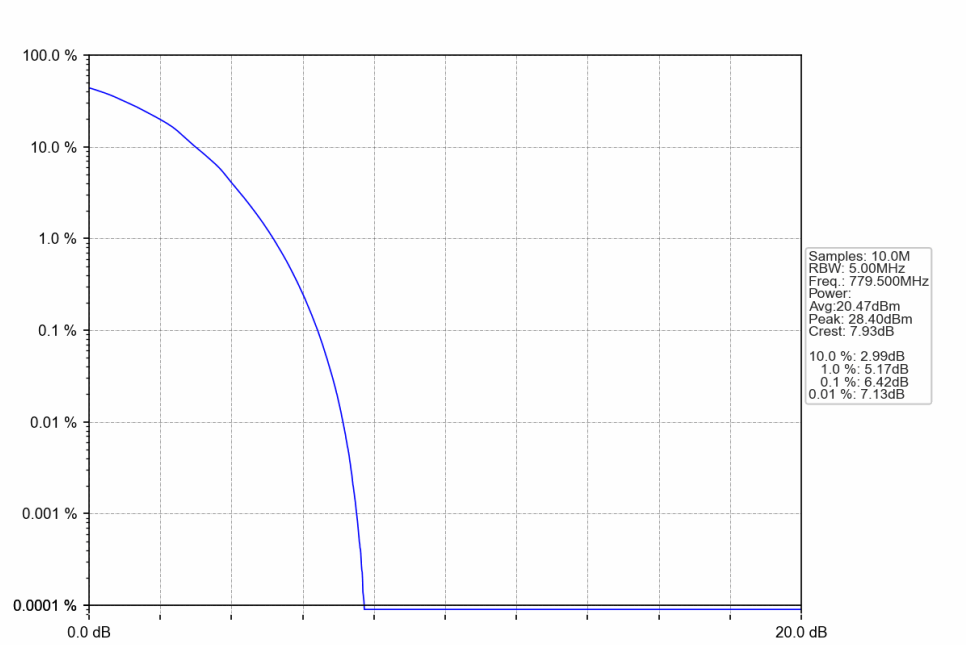
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



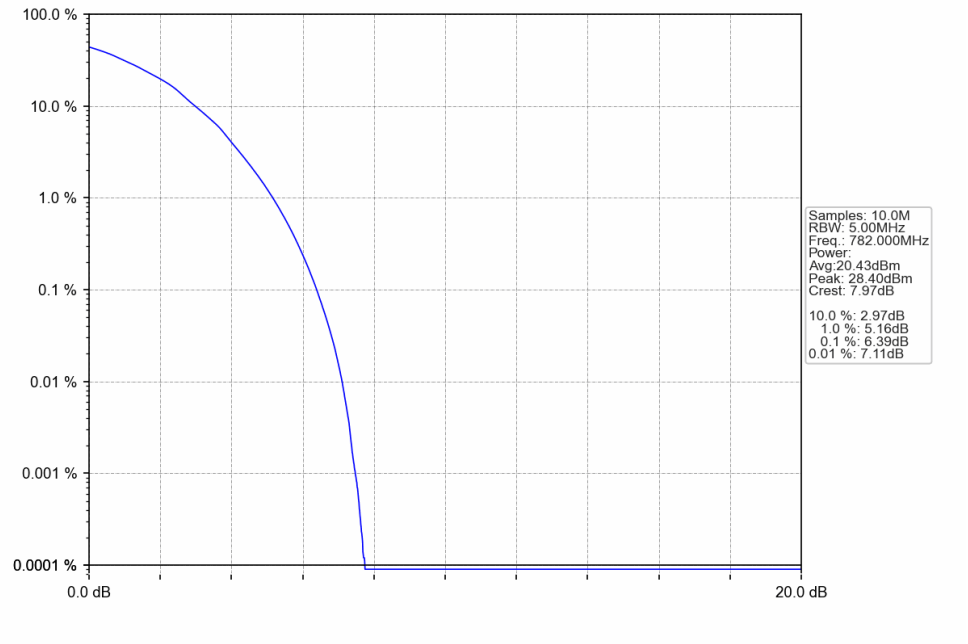

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



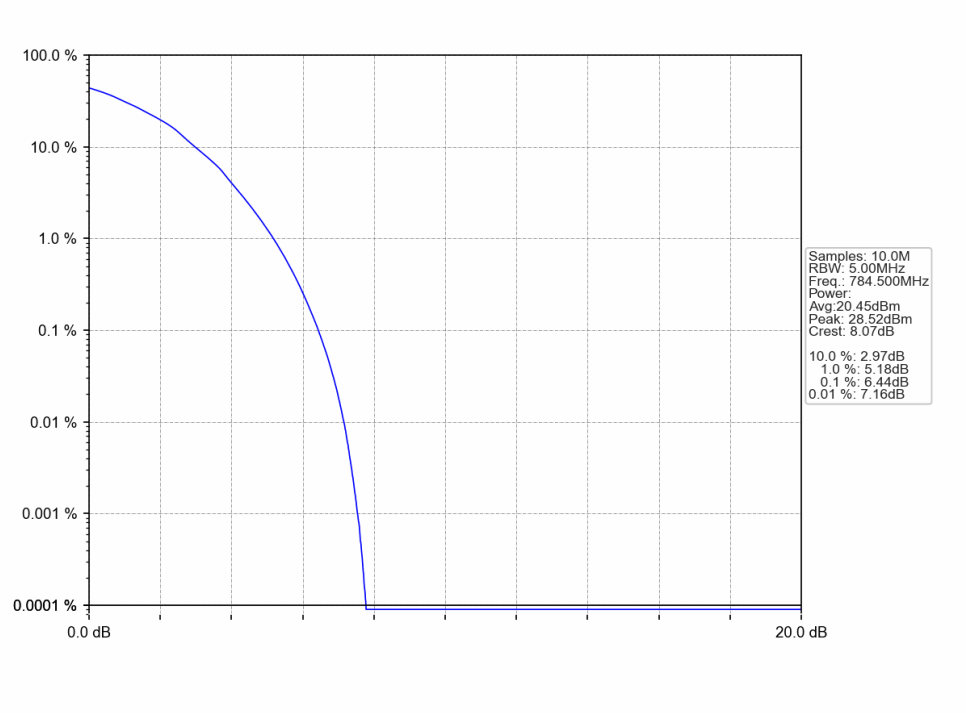
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV




Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV

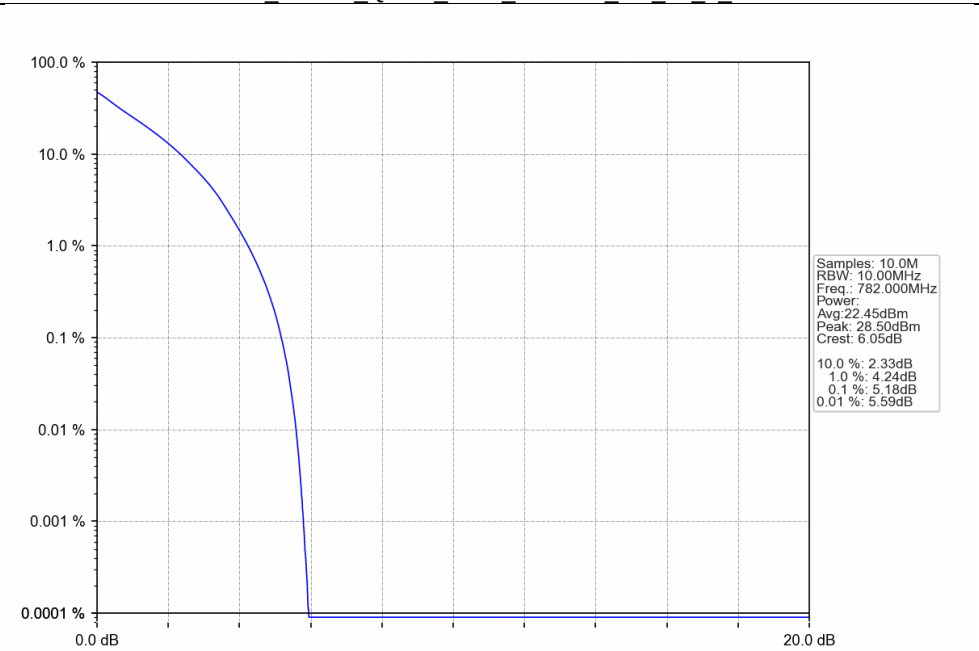


Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV

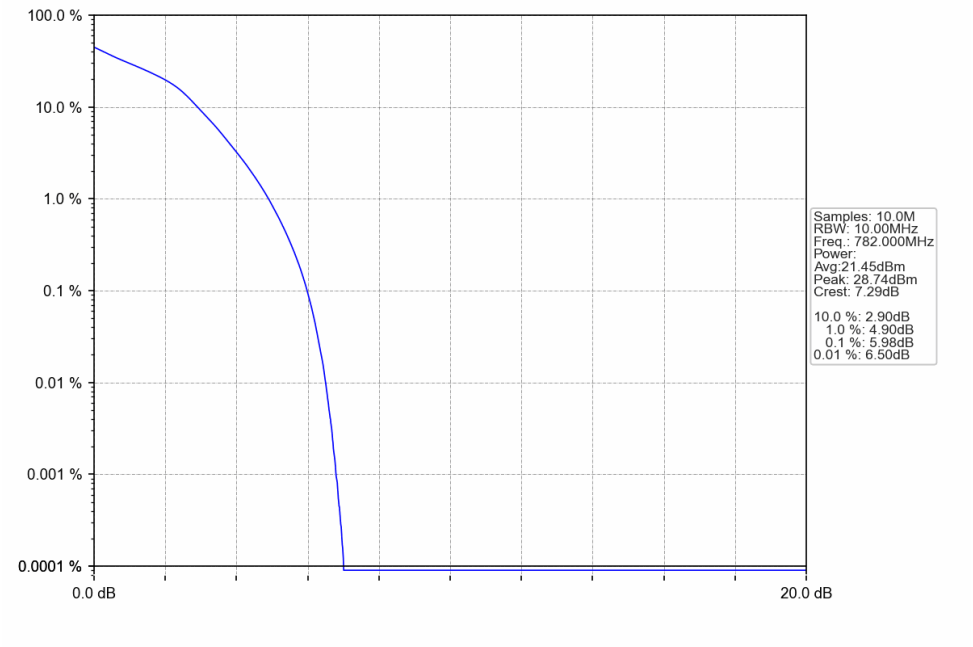


## 4.2.2 B13_10MHz

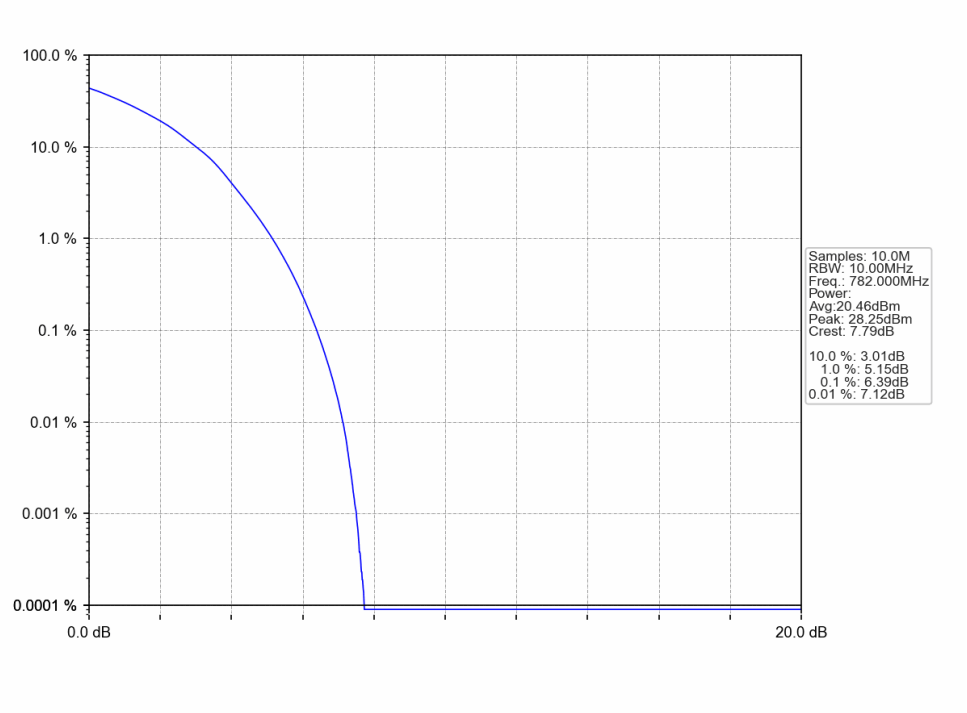
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV




Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



# 5. Spurious Emission

## 5.1 Test Result

### 5.1.1 B13_5MHz

| Band: 13 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 779.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 782 | 1 | 0 | Refer To Test Graph | | Pass |
| | 784.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 779.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 782 | 1 | 0 | Refer To Test Graph | | Pass |
| | 784.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 779.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 782 | 1 | 0 | Refer To Test Graph | | Pass |
| | 784.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

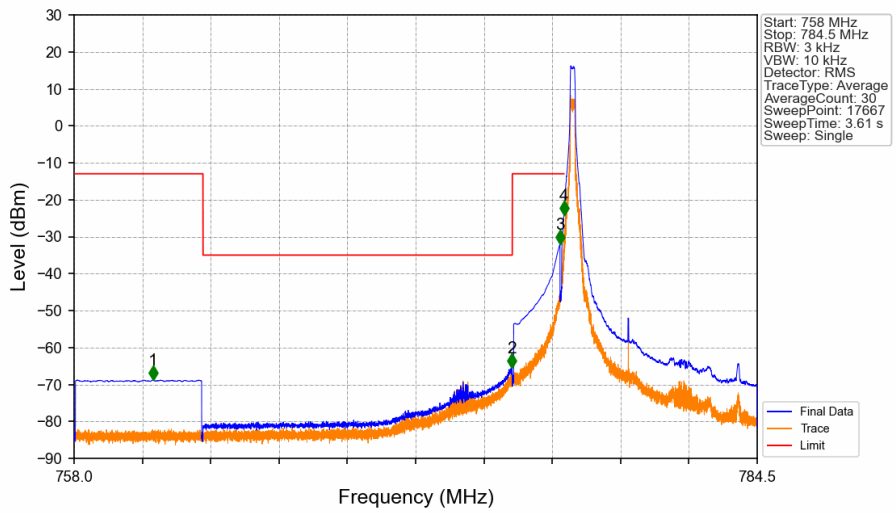
### 5.1.2 B13_10MHz

| Band: 13 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 782 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 782 | 1 | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 782 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 782 | 1 | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 782 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 782 | 1 | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

## 5.2 Test Graph

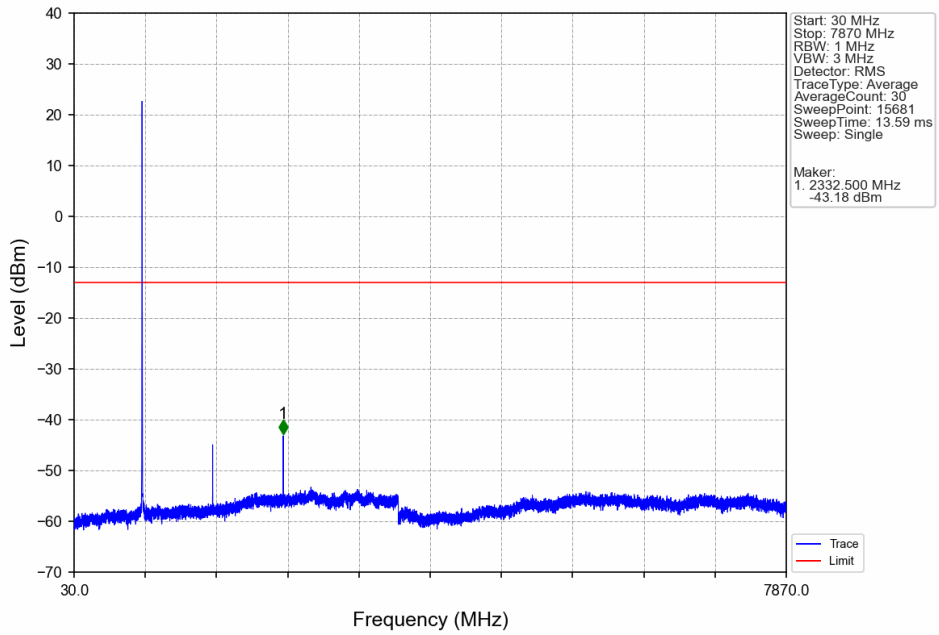
### 5.2.1 B13_5MHz

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

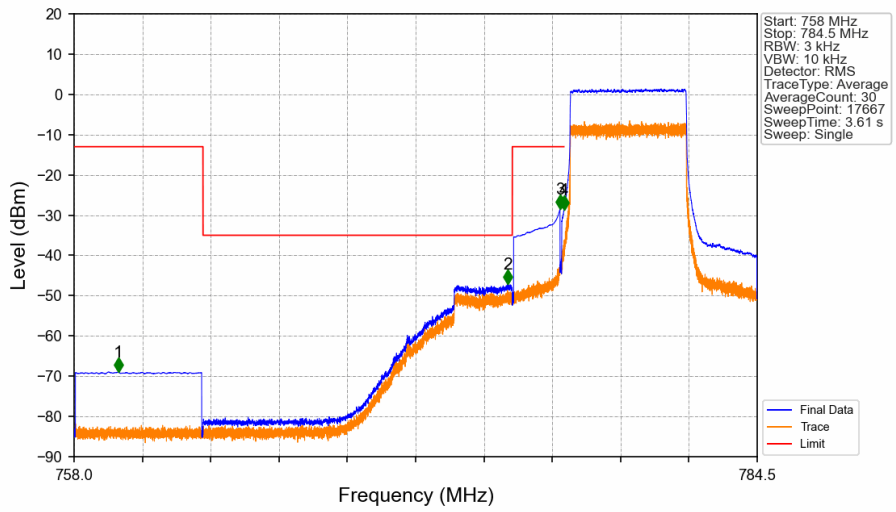



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 761.054 | -68.72 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.972 | -65.47 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -31.95 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -24.04 | -13 | Pass |
| 777 | 784.5 | 0.03 | CHP | / | / | / | / | / |

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

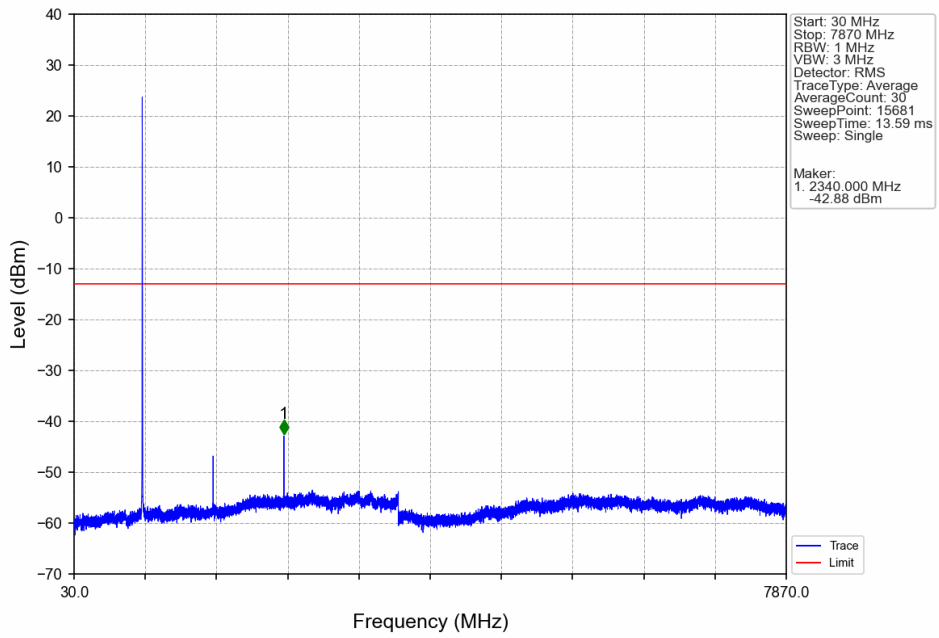


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

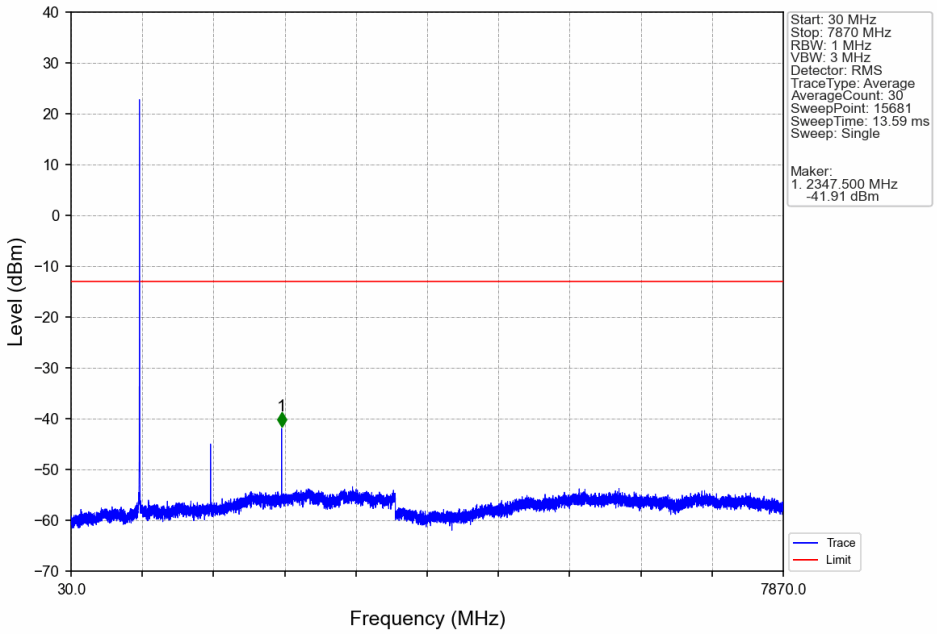



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 759.712 | -68.93 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.813 | -46.97 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -28.45 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -28.62 | -13 | Pass |
| 777 | 784.5 | 0.03 | CHP | / | / | / | / | / |

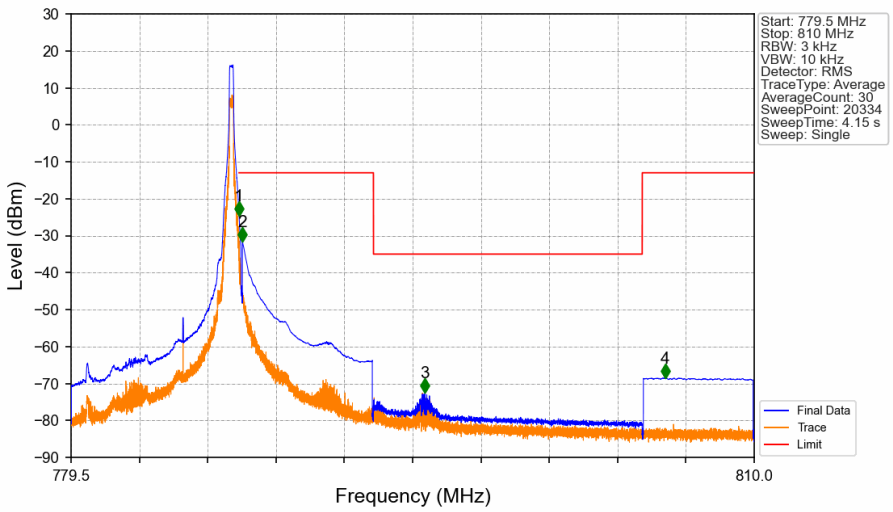
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

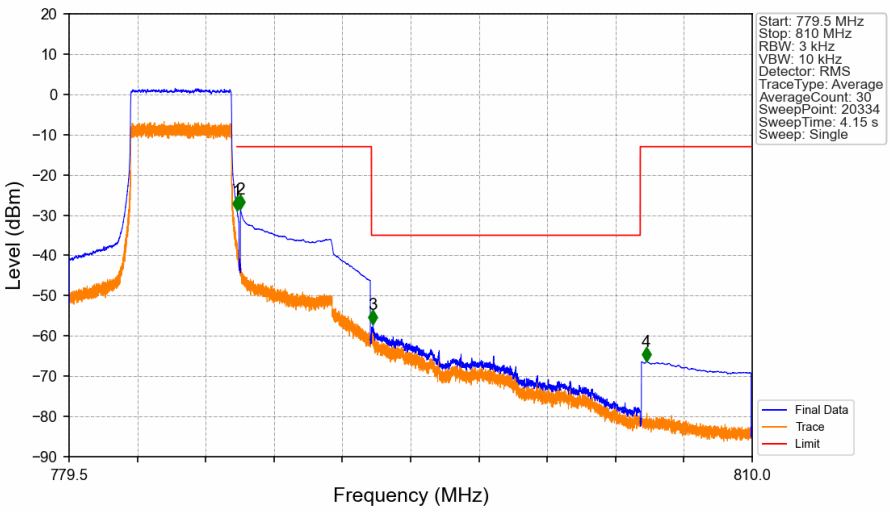



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



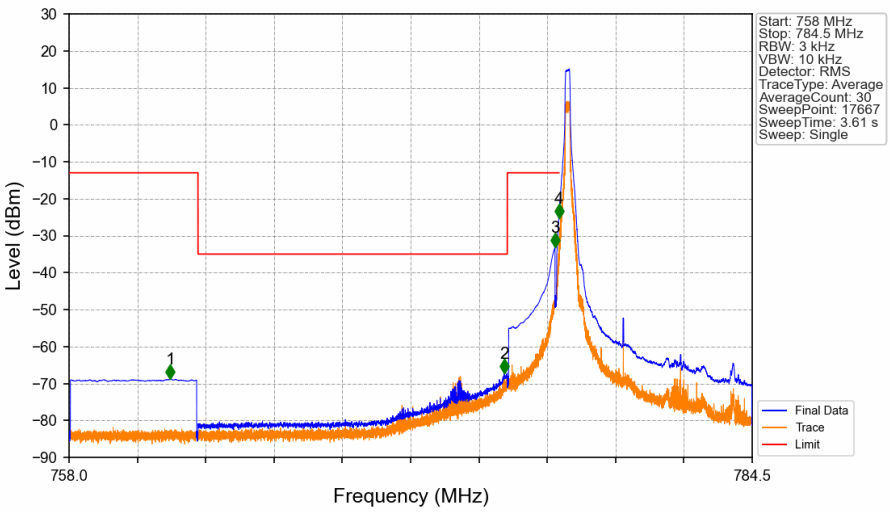

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 779.5 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 1 | 787.000 | -24.48 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -31.50 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 3 | 795.304 | -72.43 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 806.029 | -68.51 | -13 | Pass |

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



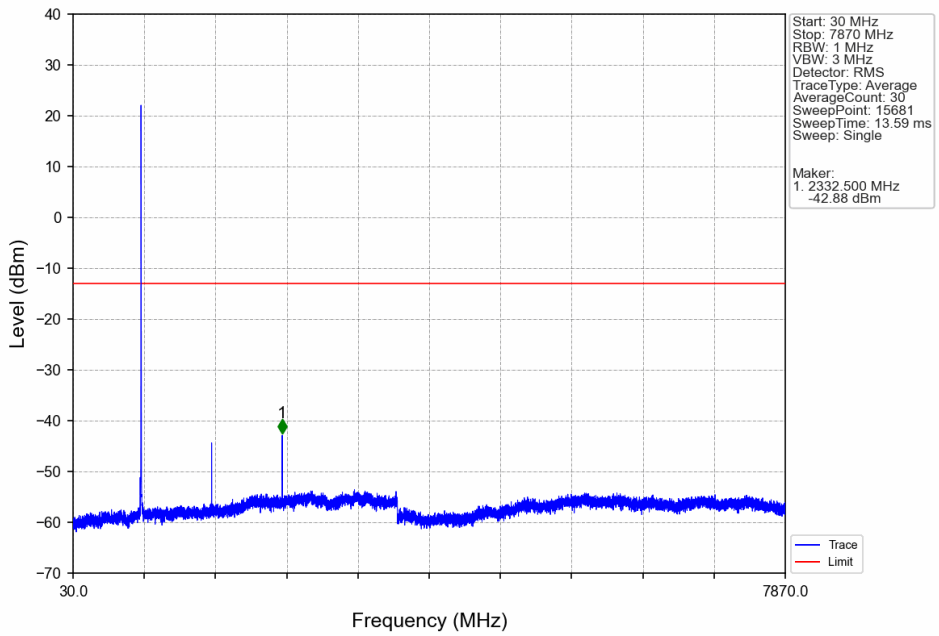

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 779.5 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 1 | 787.000 | -28.78 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -28.41 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 3 | 793.071 | -57.06 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 805.267 | -66.33 | -13 | Pass |

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

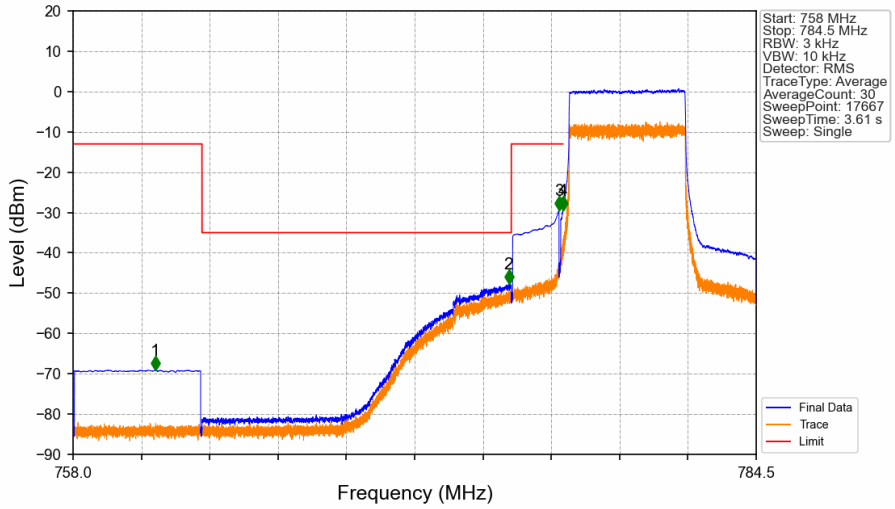



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 761.930 | -68.83 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.880 | -67.24 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -33.16 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -25.23 | -13 | Pass |
| 777 | 784.5 | 0.03 | CHP | / | / | / | / | / |

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

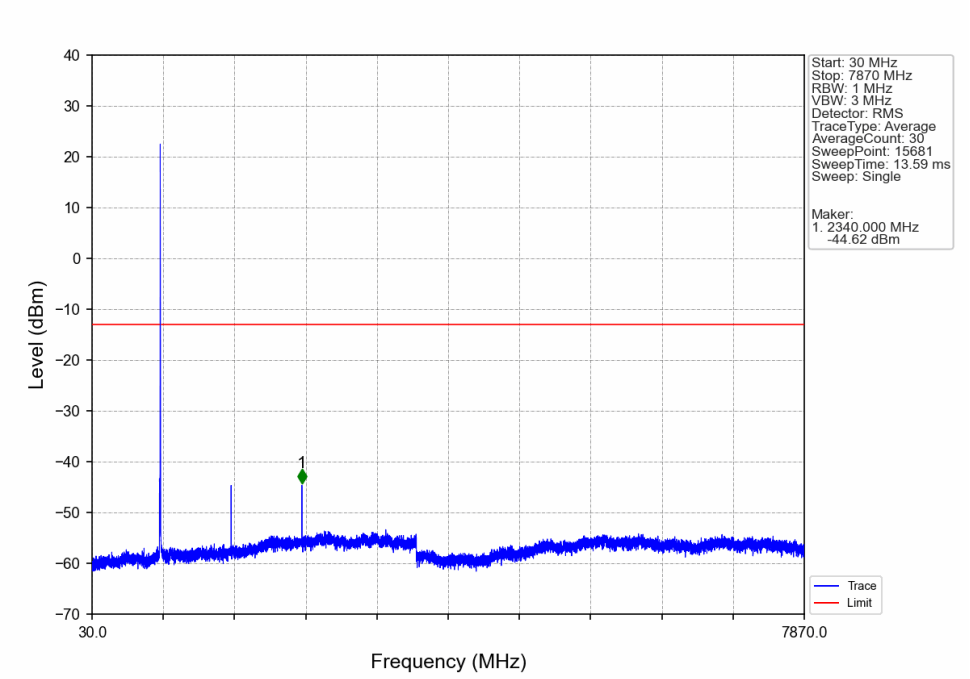



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

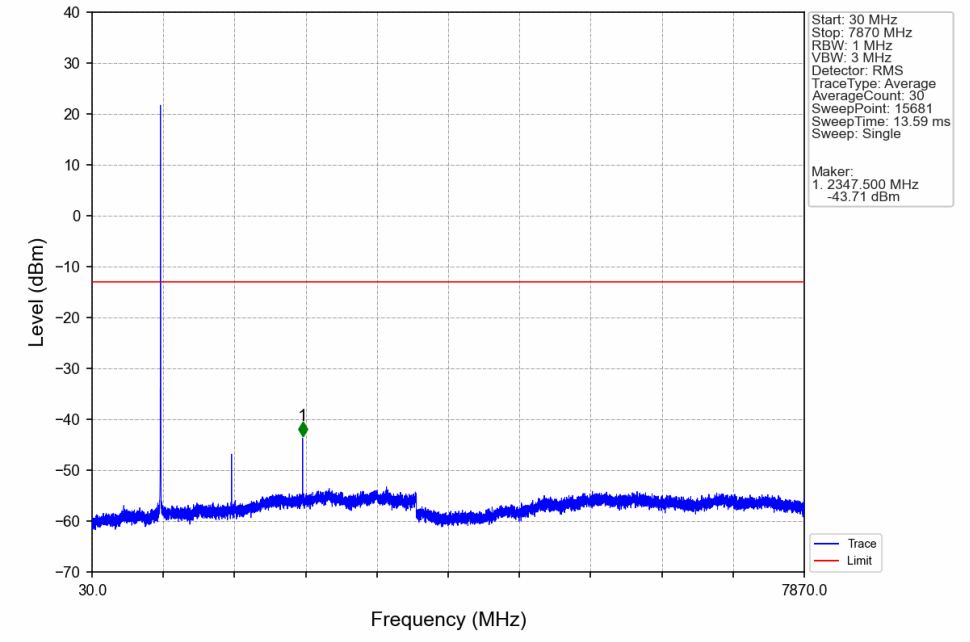



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 761.189 | -69.09 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.901 | -47.59 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -29.39 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -29.42 | -13 | Pass |
| 777 | 784.5 | 0.03 | CHP | / | / | / | / | / |

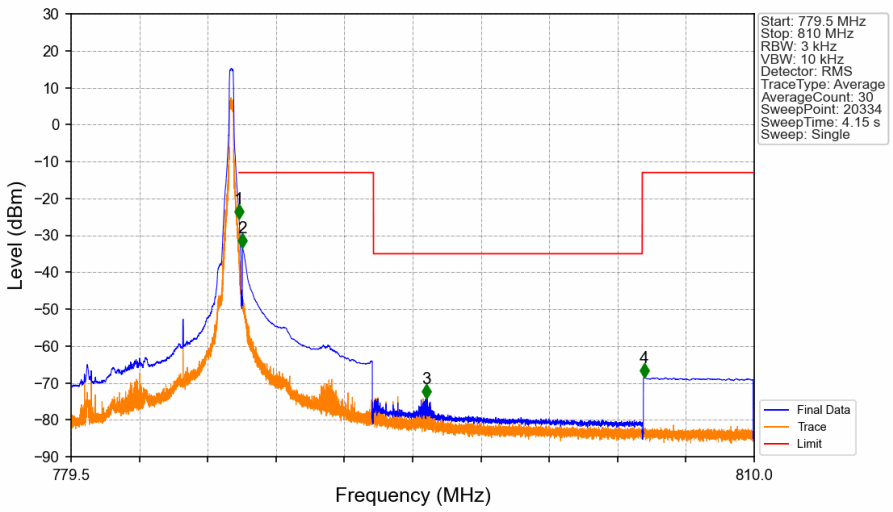
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV




Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV

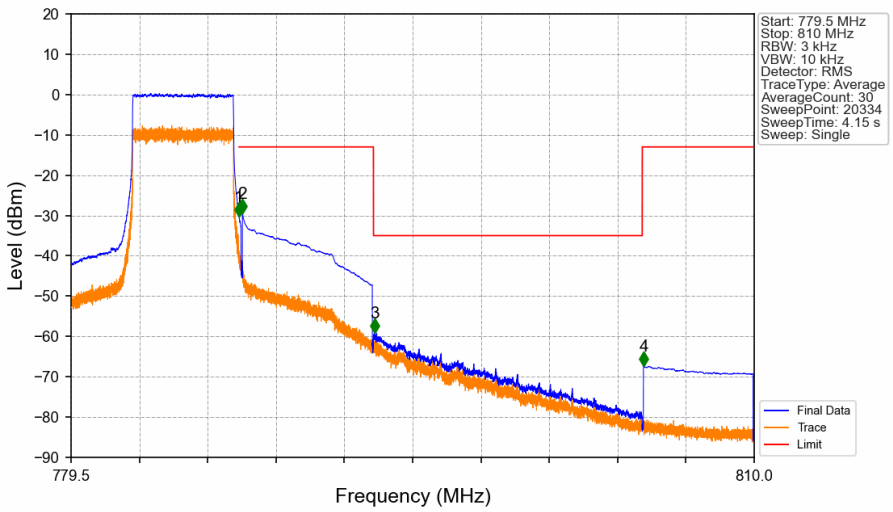


Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_24_NTNV



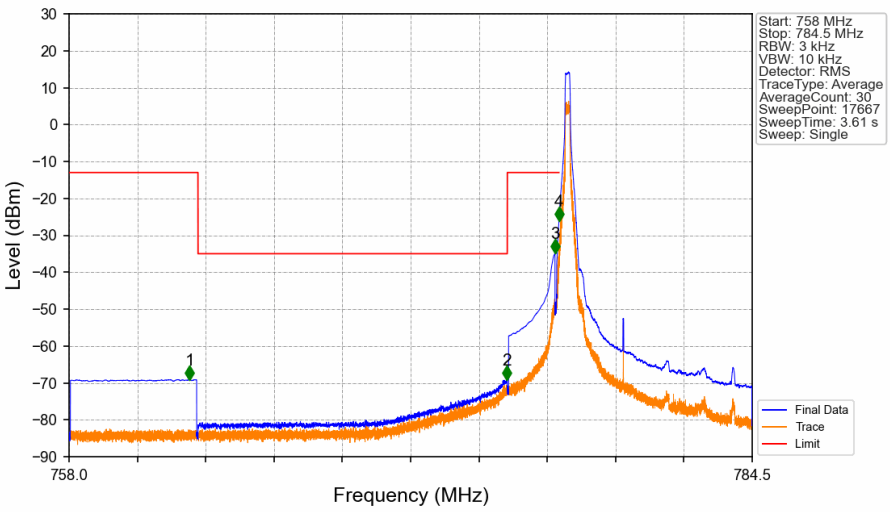

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 779.5 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 1 | 787.000 | -25.52 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -33.32 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 3 | 795.354 | -74.12 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 805.098 | -68.49 | -13 | Pass |

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



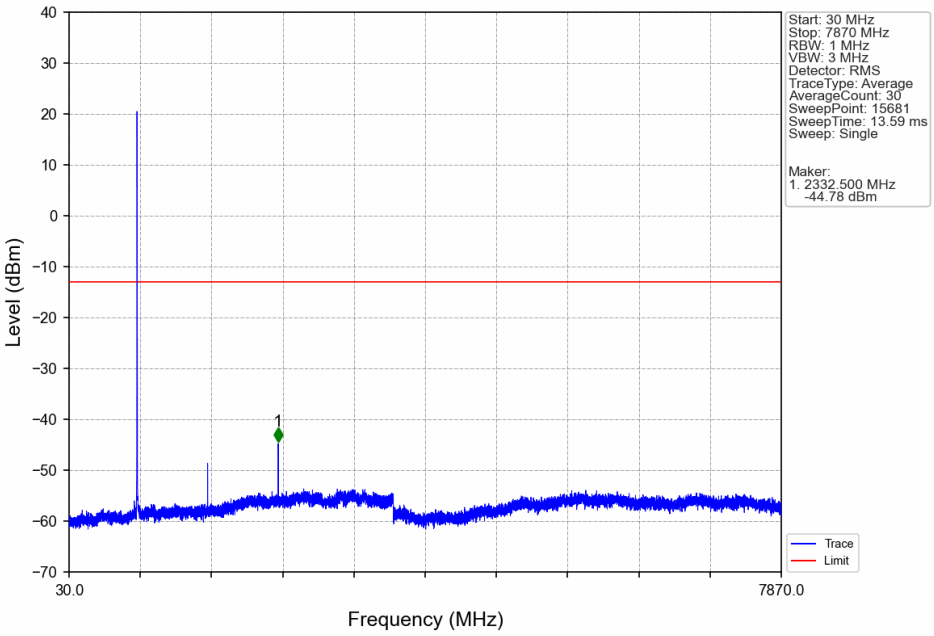

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 779.5 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 1 | 787.000 | -30.32 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -29.43 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 3 | 793.057 | -59.05 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 805.069 | -67.36 | -13 | Pass |

Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV

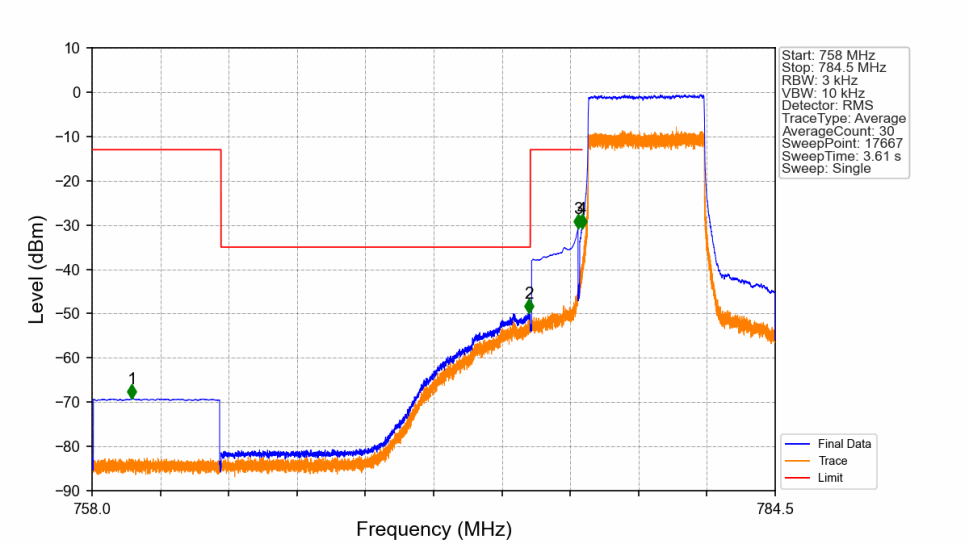



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 762.671 | -69.08 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.975 | -69.19 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -34.92 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -26.21 | -13 | Pass |
| 777 | 784.5 | 0.03 | CHP | / | / | / | / | / |

Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV

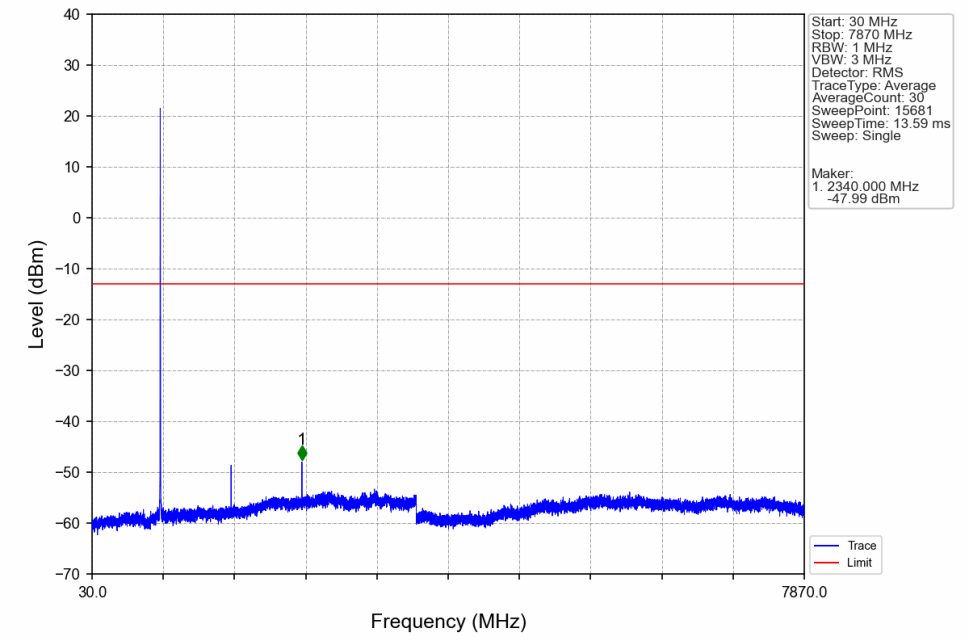


Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV

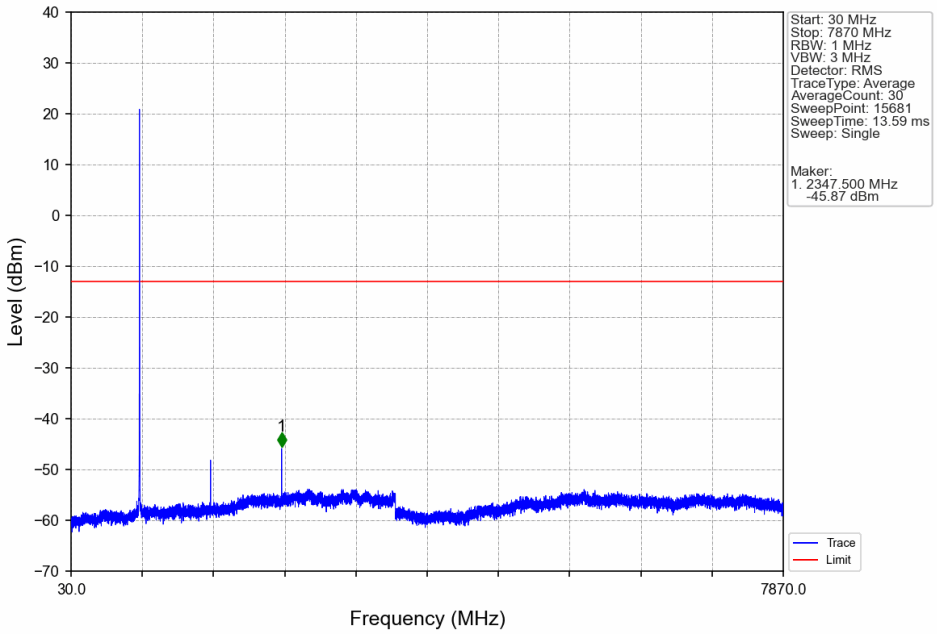



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 759.545 | -69.24 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.961 | -49.92 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -30.83 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -30.78 | -13 | Pass |
| 777 | 784.5 | 0.03 | CHP | / | / | / | / | / |

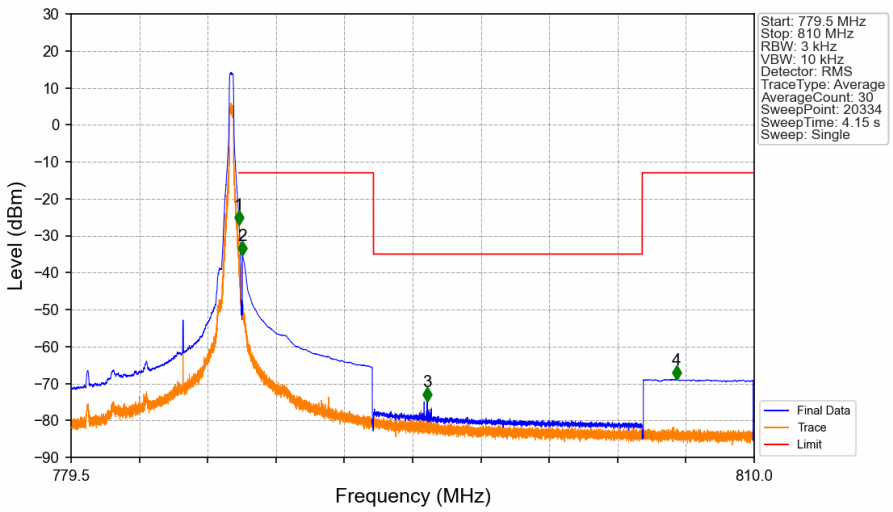
Band13_5MHz_64QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_0_NTNV

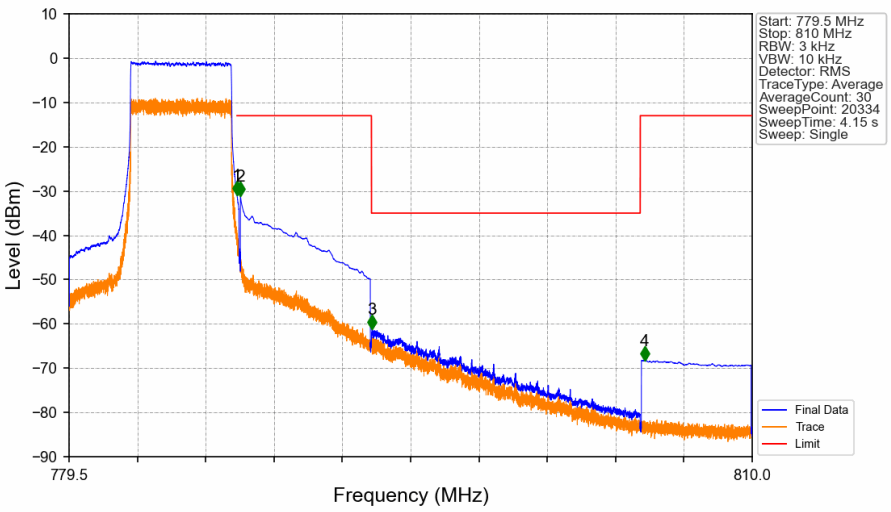



Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 779.5 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 1 | 787.000 | -26.91 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -35.34 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 3 | 795.397 | -74.96 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 806.541 | -68.88 | -13 | Pass |

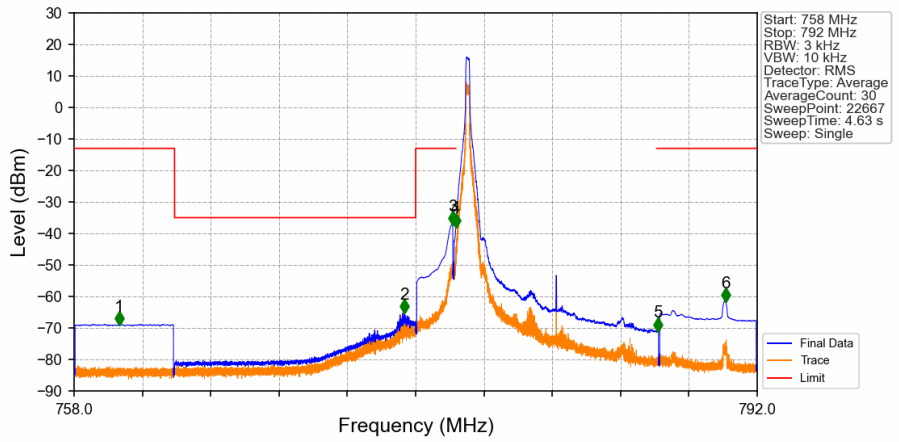
Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 779.5 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 1 | 787.000 | -30.88 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -31.10 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 3 | 793.027 | -61.12 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 805.197 | -68.22 | -13 | Pass |

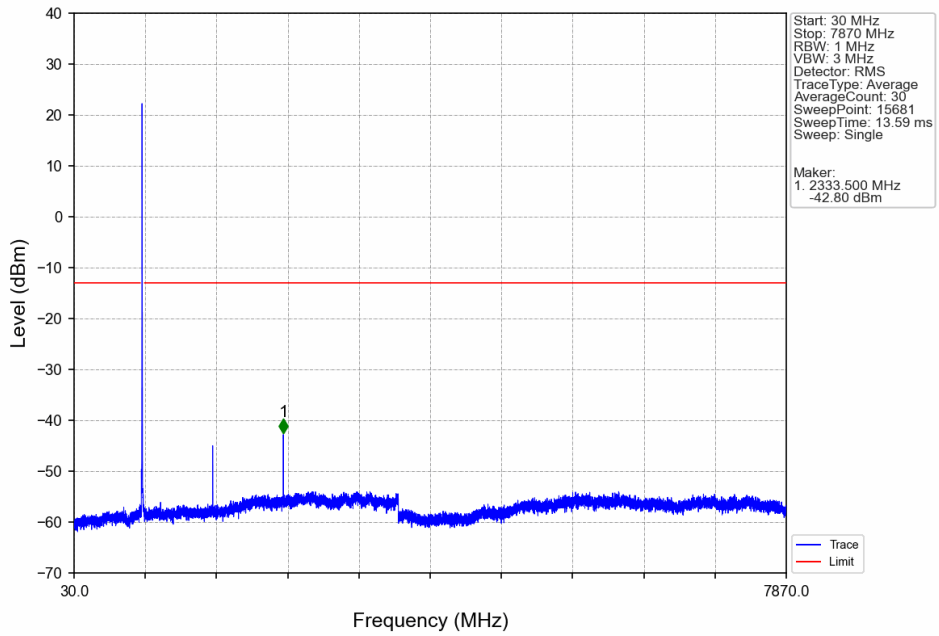
## 5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

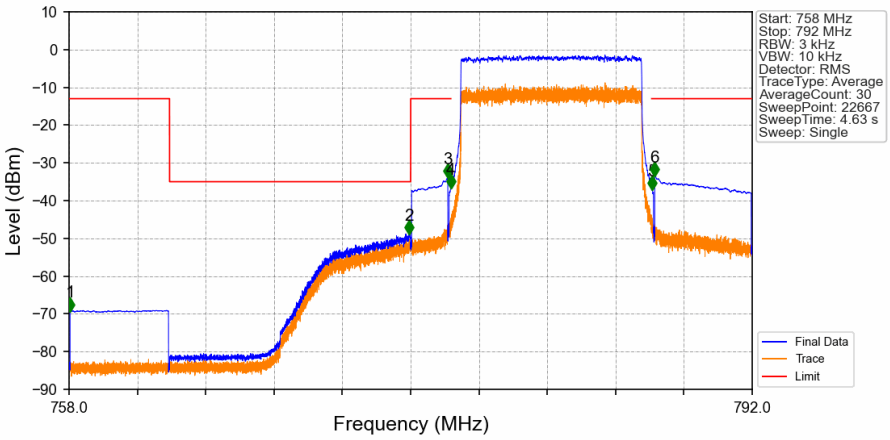



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 760.244 | -68.88 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.448 | -64.96 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.830 | -37.06 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -37.70 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 5 | 787.071 | -70.81 | -13 | Pass |
| 787.1 | 792 | 0.1 | CHP | 6 | 790.426 | -61.39 | -13 | Pass |

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

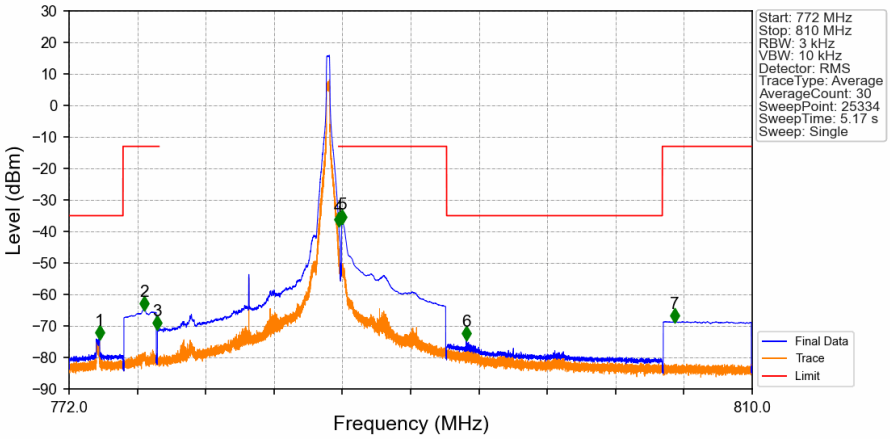


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



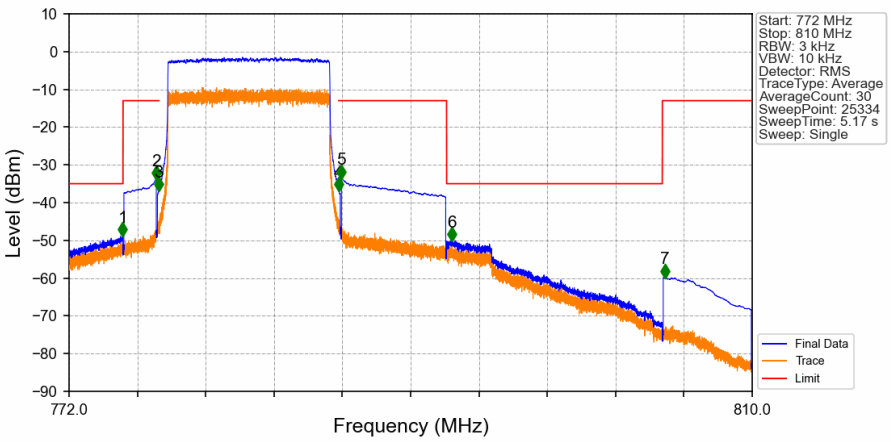

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 758.051 | -69.04 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.928 | -48.70 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -33.75 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 776.994 | -36.43 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 5 | 787.002 | -36.95 | -13 | Pass |
| 787.1 | 792 | 0.1 | CHP | 6 | 787.150 | -33.22 | -13 | Pass |

Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



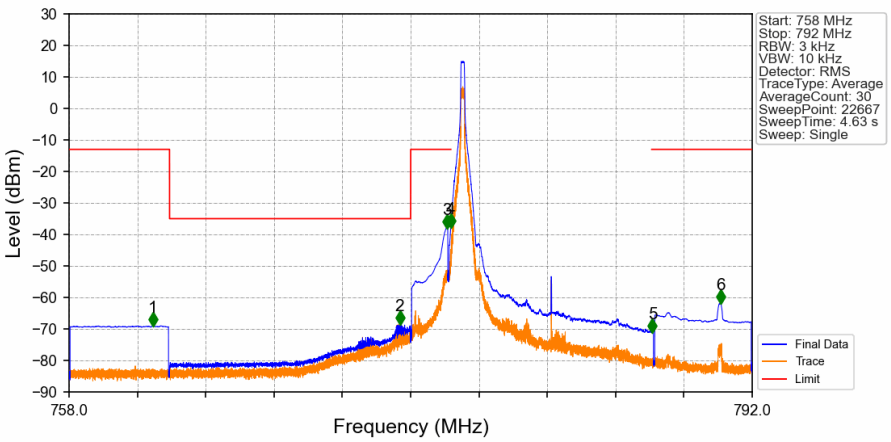

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 772 | 775 | 0.00625 | CHP | 1 | 773.694 | -73.93 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.194 | -64.68 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 3 | 776.916 | -71.00 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 4 | 787.000 | -37.93 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.173 | -37.20 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 6 | 794.094 | -74.29 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 805.680 | -68.56 | -13 | Pass |

Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



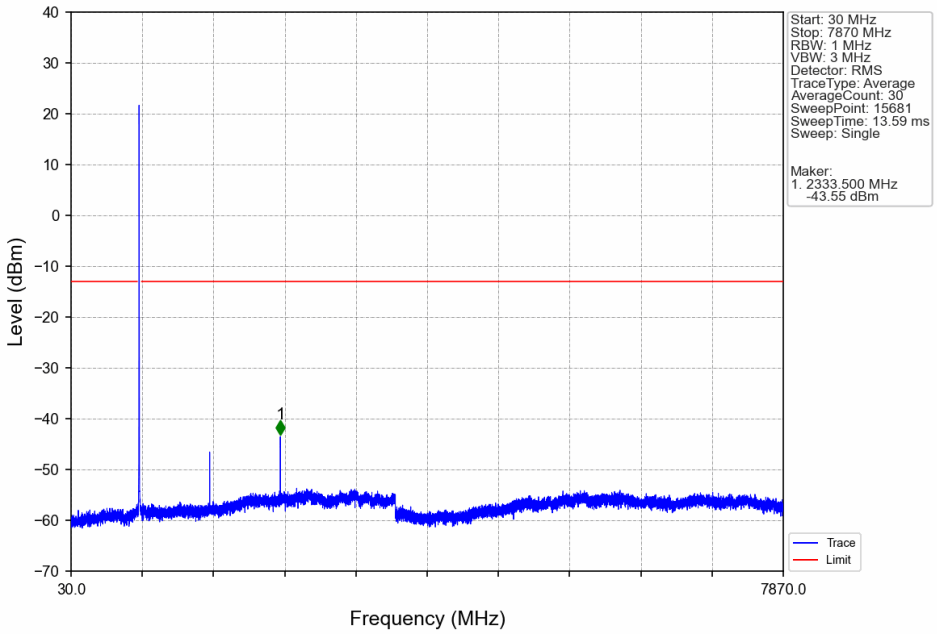

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 772 | 775 | 0.00625 | CHP | 1 | 774.987 | -48.59 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -33.64 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 3 | 776.980 | -36.72 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 4 | 787.002 | -36.63 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -33.36 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 6 | 793.272 | -49.99 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 805.149 | -59.65 | -13 | Pass |

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

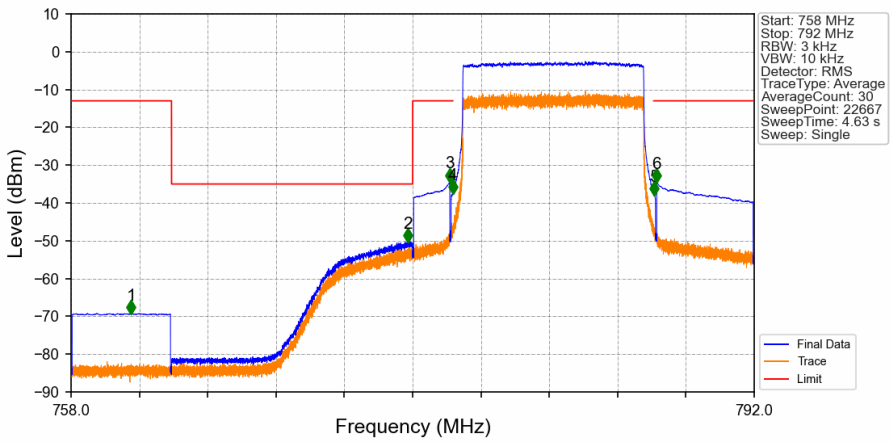



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 762.179 | -68.91 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.458 | -68.28 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.799 | -37.89 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -37.59 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 5 | 787.033 | -70.85 | -13 | Pass |
| 787.1 | 792 | 0.1 | CHP | 6 | 790.428 | -61.70 | -13 | Pass |

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

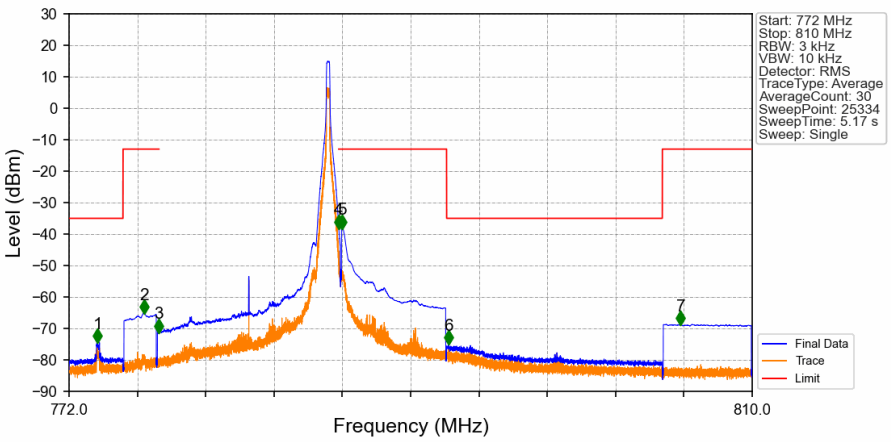



Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



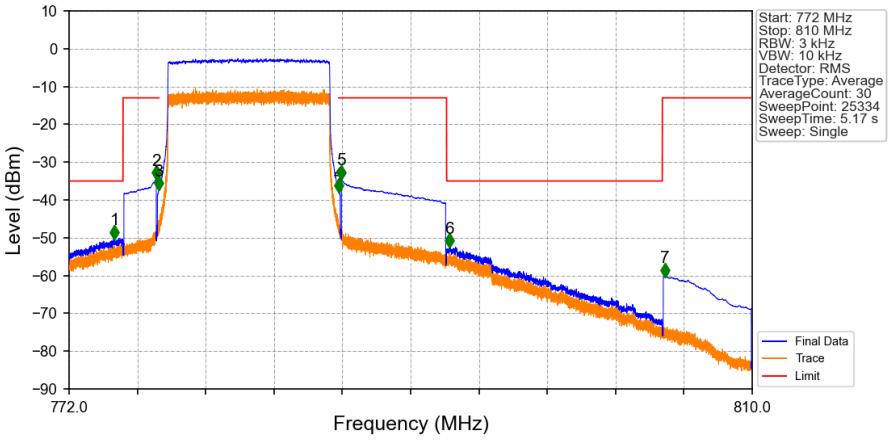

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 760.988 | -69.13 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.775 | -50.19 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -34.27 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 776.997 | -37.38 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 5 | 787.000 | -37.82 | -13 | Pass |
| 787.1 | 792 | 0.1 | CHP | 6 | 787.150 | -34.36 | -13 | Pass |

Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



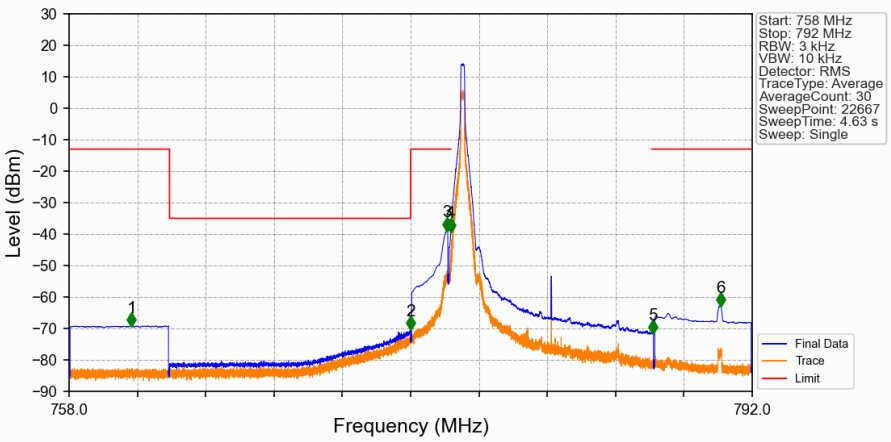

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 772 | 775 | 0.00625 | CHP | 1 | 773.584 | -74.24 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.187 | -65.08 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 3 | 776.986 | -71.01 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 4 | 787.000 | -37.95 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.182 | -37.99 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 6 | 793.107 | -74.76 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 806.023 | -68.69 | -13 | Pass |

Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



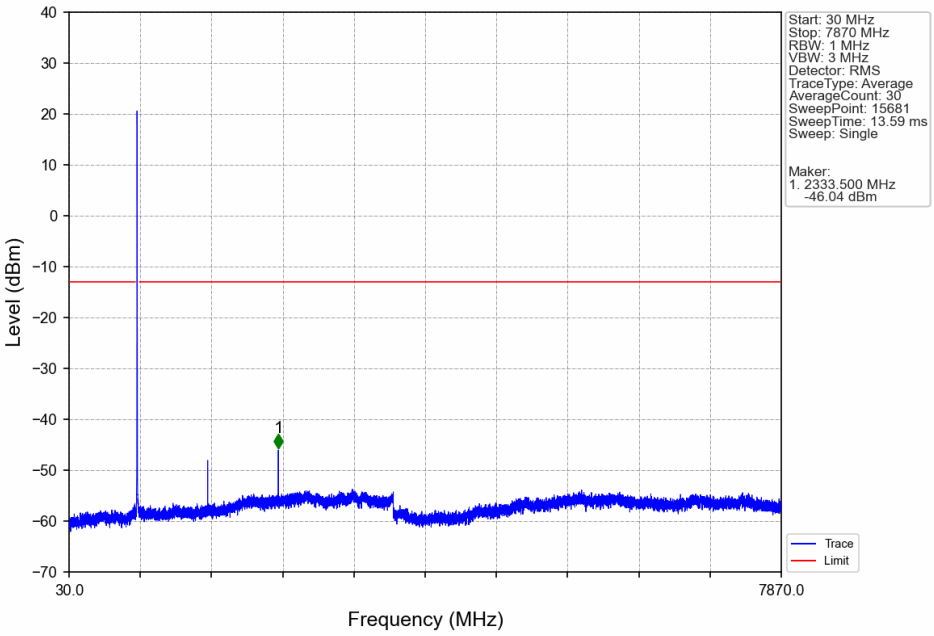

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 772 | 775 | 0.00625 | CHP | 1 | 774.522 | -50.06 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -34.32 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 3 | 776.992 | -37.07 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 4 | 787.000 | -37.72 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -34.21 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 6 | 793.150 | -52.35 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 805.150 | -60.09 | -13 | Pass |

Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV

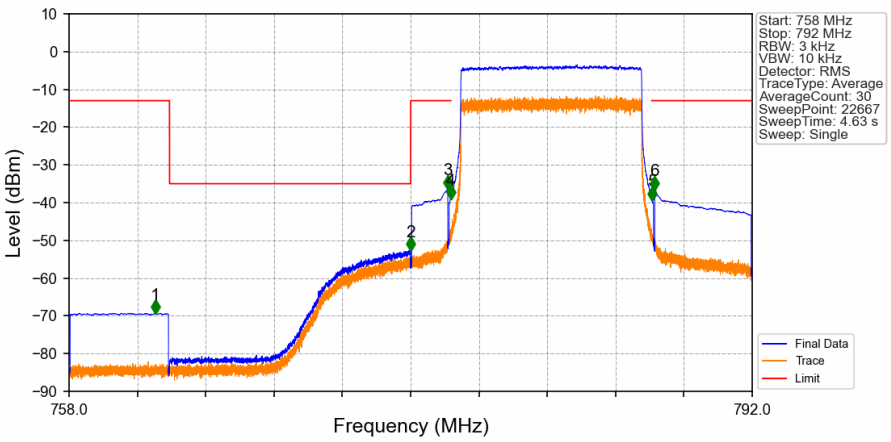



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 761.099 | -69.13 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.994 | -70.20 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.811 | -38.74 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 777.000 | -39.02 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 5 | 787.063 | -71.37 | -13 | Pass |
| 787.1 | 792 | 0.1 | CHP | 6 | 790.428 | -62.72 | -13 | Pass |

Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV

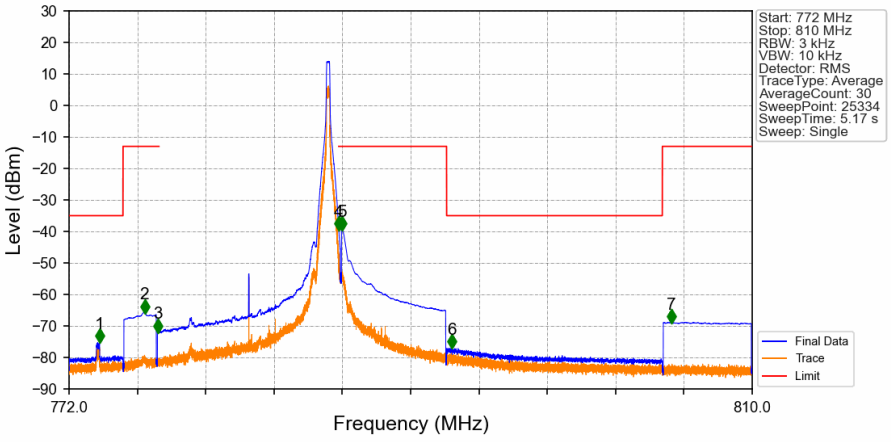


Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



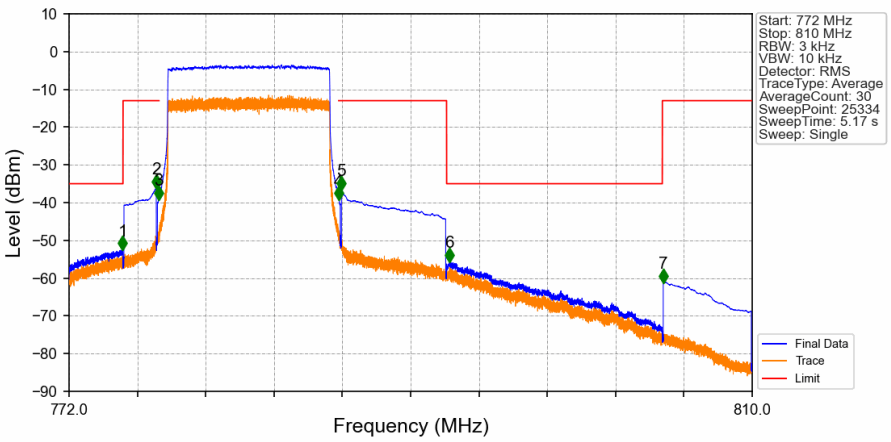

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 758 | 763 | 0.1 | CHP | 1 | 762.301 | -69.20 | -13 | Pass |
| 763 | 775 | 0.00625 | CHP | 2 | 774.988 | -52.56 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -36.19 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 4 | 776.995 | -38.78 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 5 | 787.000 | -39.16 | -13 | Pass |
| 787.1 | 792 | 0.1 | CHP | 6 | 787.150 | -36.37 | -13 | Pass |

Band13_10MHz_64QAM_HCH_782MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 772 | 775 | 0.00625 | CHP | 1 | 773.692 | -75.10 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.206 | -65.68 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 3 | 776.931 | -71.78 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 4 | 787.000 | -39.32 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.197 | -39.40 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 6 | 793.288 | -76.87 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 805.513 | -68.82 | -13 | Pass |

Band13_10MHz_64QAM_HCH_782MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 772 | 775 | 0.00625 | CHP | 1 | 774.970 | -52.34 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -35.94 | -13 | Pass |
| 776.9 | 777 | 0.03 | CHP | 3 | 776.998 | -38.92 | -13 | Pass |
| 777 | 787 | 0.03 | CHP | / | / | / | / | / |
| 787 | 787.1 | 0.03 | CHP | 4 | 787.000 | -38.98 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -36.35 | -13 | Pass |
| 793 | 805 | 0.00625 | CHP | 6 | 793.167 | -55.40 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 805.051 | -60.92 | -13 | Pass |

## 6. Field Strength of Spurious Radiation

| LTE Band 13 ANT0-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1555.0 | -68.85 | -13 | -55.85 | -71.99 | 2.6 | 5.74 | Horizontal | Pass |
| 2332.5 | -69.66 | -13 | -56.66 | -72.12 | 2.96 | 5.42 | Horizontal | Pass |
| 3110.0 | -67.34 | -13 | -54.34 | -71.34 | 3.2 | 7.2 | Horizontal | Pass |
| 1555.0 | -68.7 | -13 | -55.7 | -71.84 | 2.6 | 5.74 | Vertical | Pass |
| 2332.5 | -69.6 | -13 | -56.6 | -72.06 | 2.96 | 5.42 | Vertical | Pass |
| 3110.0 | -67.48 | -13 | -54.48 | -71.48 | 3.2 | 7.2 | Vertical | Pass |

| LTE Band 13 ANT0-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1554.5 | -71.11 | -13 | -58.11 | -74.25 | 2.6 | 5.74 | Horizontal | Pass |
| 2331.75 | -69.69 | -13 | -56.69 | -72.15 | 2.96 | 5.42 | Horizontal | Pass |
| 3109.0 | -67.75 | -13 | -54.75 | -71.74 | 3.2 | 7.19 | Horizontal | Pass |
| 1554.5 | -70.11 | -13 | -57.11 | -73.25 | 2.6 | 5.74 | Vertical | Pass |
| 2331.75 | -70.0 | -13 | -57.0 | -72.46 | 2.96 | 5.42 | Vertical | Pass |
| 3109.0 | -67.57 | -13 | -54.57 | -71.56 | 3.2 | 7.19 | Vertical | Pass |

| LTE Band 13 ANT0-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1559.5 | -69.5 | -40 | -29.5 | -72.63 | 2.6 | 5.73 | Horizontal | Pass |
| 2339.25 | -69.91 | -13 | -56.91 | -72.38 | 2.96 | 5.43 | Horizontal | Pass |
| 3119.0 | -67.35 | -13 | -54.35 | -71.36 | 3.21 | 7.22 | Horizontal | Pass |
| 1559.5 | -70.18 | -40 | -30.18 | -73.31 | 2.6 | 5.73 | Vertical | Pass |
| 2339.25 | -69.49 | -13 | -56.49 | -71.96 | 2.96 | 5.43 | Vertical | Pass |
| 3119.0 | -67.15 | -13 | -54.15 | -71.16 | 3.21 | 7.22 | Vertical | Pass |

| LTE Band 13 ANT0-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1564.5 | -70.92 | -40 | -30.92 | -74.04 | 2.6 | 5.72 | Horizontal | Pass |
| 2346.75 | -70.0 | -13 | -57.0 | -72.48 | 2.97 | 5.45 | Horizontal | Pass |
| 3129.0 | -67.95 | -13 | -54.95 | -71.98 | 3.21 | 7.24 | Horizontal | Pass |
| 1564.5 | -70.09 | -40 | -30.09 | -73.21 | 2.6 | 5.72 | Vertical | Pass |
| 2346.75 | -70.44 | -13 | -57.44 | -72.92 | 2.97 | 5.45 | Vertical | Pass |
| 3129.0 | -67.87 | -13 | -54.87 | -71.9 | 3.21 | 7.24 | Vertical | Pass |