# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B5_1.4MHz_ERP

### 1.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dbi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 824.7 | 1 | 0 | 23.98 | 0.12 | 21.95 | <=38.45 | Pass |
| | | | 2 | 24.10 | 0.12 | 22.07 | <=38.45 | Pass |
| | | | 5 | 24.07 | 0.12 | 22.04 | <=38.45 | Pass |
| | | 3 | 0 | 24.11 | 0.12 | 22.08 | <=38.45 | Pass |
| | | | 2 | 24.19 | 0.12 | 22.16 | <=38.45 | Pass |
| | | | 3 | 24.17 | 0.12 | 22.14 | <=38.45 | Pass |
| | | 6 | 0 | 23.08 | 0.12 | 21.05 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 24.06 | 0.12 | 22.03 | <=38.45 | Pass |
| | | | 2 | 24.04 | 0.12 | 22.01 | <=38.45 | Pass |
| | | | 5 | 23.99 | 0.12 | 21.96 | <=38.45 | Pass |
| | | 3 | 0 | 24.08 | 0.12 | 22.05 | <=38.45 | Pass |
| | | | 2 | 24.04 | 0.12 | 22.01 | <=38.45 | Pass |
| | | | 3 | 24.10 | 0.12 | 22.07 | <=38.45 | Pass |
| | | 6 | 0 | 23.05 | 0.12 | 21.02 | <=38.45 | Pass |
| | 848.3 | 1 | 0 | 23.88 | 0.12 | 21.85 | <=38.45 | Pass |
| | | | 2 | 23.85 | 0.12 | 21.82 | <=38.45 | Pass |
| | | | 5 | 23.90 | 0.12 | 21.87 | <=38.45 | Pass |
| | | 3 | 0 | 24.04 | 0.12 | 22.01 | <=38.45 | Pass |
| | | | 2 | 24.10 | 0.12 | 22.07 | <=38.45 | Pass |
| | | | 3 | 24.02 | 0.12 | 21.99 | <=38.45 | Pass |
| | | 6 | 0 | 23.01 | 0.12 | 20.98 | <=38.45 | Pass |
| 16QAM | 824.7 | 1 | 0 | 23.15 | 0.12 | 21.12 | <=38.45 | Pass |
| | | | 2 | 23.16 | 0.12 | 21.13 | <=38.45 | Pass |
| | | | 5 | 23.23 | 0.12 | 21.20 | <=38.45 | Pass |
| | | 3 | 0 | 23.02 | 0.12 | 20.99 | <=38.45 | Pass |
| | | | 2 | 22.98 | 0.12 | 20.95 | <=38.45 | Pass |
| | | | 3 | 23.13 | 0.12 | 21.10 | <=38.45 | Pass |
| | | 6 | 0 | 22.08 | 0.12 | 20.05 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 23.18 | 0.12 | 21.15 | <=38.45 | Pass |
| | | | 2 | 23.20 | 0.12 | 21.17 | <=38.45 | Pass |
| | | | 5 | 23.20 | 0.12 | 21.17 | <=38.45 | Pass |
| | | 3 | 0 | 23.03 | 0.12 | 21.00 | <=38.45 | Pass |
| | | | 2 | 22.96 | 0.12 | 20.93 | <=38.45 | Pass |
| | | | 3 | 22.92 | 0.12 | 20.89 | <=38.45 | Pass |
| | | 6 | 0 | 22.09 | 0.12 | 20.06 | <=38.45 | Pass |
| | 848.3 | 1 | 0 | 23.05 | 0.12 | 21.02 | <=38.45 | Pass |
| | | | 2 | 23.07 | 0.12 | 21.04 | <=38.45 | Pass |
| | | | 5 | 23.14 | 0.12 | 21.11 | <=38.45 | Pass |
| | | 3 | 0 | 22.97 | 0.12 | 20.94 | <=38.45 | Pass |
| | | | 2 | 22.97 | 0.12 | 20.94 | <=38.45 | Pass |
| | | | 3 | 22.99 | 0.12 | 20.96 | <=38.45 | Pass |
| | | 6 | 0 | 21.97 | 0.12 | 19.94 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.2 B5_3MHz_ERP

### 1.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dbi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 825.5 | 1 | 0 | 24.05 | 0.12 | 22.02 | <=38.45 | Pass |
| | | | 7 | 24.06 | 0.12 | 22.03 | <=38.45 | Pass |
| | | | 14 | 24.04 | 0.12 | 22.01 | <=38.45 | Pass |
| | | 8 | 0 | 23.07 | 0.12 | 21.04 | <=38.45 | Pass |
| | | | 4 | 23.09 | 0.12 | 21.06 | <=38.45 | Pass |
| | | | 7 | 23.08 | 0.12 | 21.05 | <=38.45 | Pass |
| | | 15 | 0 | 23.09 | 0.12 | 21.06 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 24.07 | 0.12 | 22.04 | <=38.45 | Pass |
| | | | 7 | 24.03 | 0.12 | 22.00 | <=38.45 | Pass |
| | | | 14 | 23.99 | 0.12 | 21.96 | <=38.45 | Pass |
| | | 8 | 0 | 23.10 | 0.12 | 21.07 | <=38.45 | Pass |
| | | | 4 | 23.08 | 0.12 | 21.05 | <=38.45 | Pass |
| | | | 7 | 23.08 | 0.12 | 21.05 | <=38.45 | Pass |
| | | 15 | 0 | 23.09 | 0.12 | 21.06 | <=38.45 | Pass |
| | 847.5 | 1 | 0 | 23.85 | 0.12 | 21.82 | <=38.45 | Pass |
| | | | 7 | 23.92 | 0.12 | 21.89 | <=38.45 | Pass |
| | | | 14 | 23.93 | 0.12 | 21.90 | <=38.45 | Pass |
| | | 8 | 0 | 22.96 | 0.12 | 20.93 | <=38.45 | Pass |
| | | | 4 | 22.97 | 0.12 | 20.94 | <=38.45 | Pass |
| | | | 7 | 22.92 | 0.12 | 20.89 | <=38.45 | Pass |
| | | 15 | 0 | 23.01 | 0.12 | 20.98 | <=38.45 | Pass |
| 16QAM | 825.5 | 1 | 0 | 23.22 | 0.12 | 21.19 | <=38.45 | Pass |
| | | | 7 | 23.27 | 0.12 | 21.24 | <=38.45 | Pass |
| | | | 14 | 23.22 | 0.12 | 21.19 | <=38.45 | Pass |
| | | 8 | 0 | 22.14 | 0.12 | 20.11 | <=38.45 | Pass |
| | | | 4 | 22.14 | 0.12 | 20.11 | <=38.45 | Pass |
| | | | 7 | 22.14 | 0.12 | 20.11 | <=38.45 | Pass |
| | | 15 | 0 | 22.15 | 0.12 | 20.12 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 23.27 | 0.12 | 21.24 | <=38.45 | Pass |
| | | | 7 | 23.26 | 0.12 | 21.23 | <=38.45 | Pass |
| | | | 14 | 23.12 | 0.12 | 21.09 | <=38.45 | Pass |
| | | 8 | 0 | 22.24 | 0.12 | 20.21 | <=38.45 | Pass |
| | | | 4 | 22.23 | 0.12 | 20.20 | <=38.45 | Pass |
| | | | 7 | 22.22 | 0.12 | 20.19 | <=38.45 | Pass |
| | | 15 | 0 | 22.13 | 0.12 | 20.10 | <=38.45 | Pass |
| | 847.5 | 1 | 0 | 23.15 | 0.12 | 21.12 | <=38.45 | Pass |
| | | | 7 | 23.13 | 0.12 | 21.10 | <=38.45 | Pass |
| | | | 14 | 23.11 | 0.12 | 21.08 | <=38.45 | Pass |
| | | 8 | 0 | 22.04 | 0.12 | 20.01 | <=38.45 | Pass |
| | | | 4 | 21.99 | 0.12 | 19.96 | <=38.45 | Pass |
| | | | 7 | 22.07 | 0.12 | 20.04 | <=38.45 | Pass |
| | | 15 | 0 | 22.02 | 0.12 | 19.99 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.3 B5_5MHz_ERP

### 1.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dbi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 826.5 | 1 | 0 | 24.11 | 0.12 | 22.08 | <=38.45 | Pass |
| | | | 13 | 24.14 | 0.12 | 22.11 | <=38.45 | Pass |
| | | | 24 | 24.23 | 0.12 | 22.20 | <=38.45 | Pass |
| | | 12 | 0 | 23.14 | 0.12 | 21.11 | <=38.45 | Pass |
| | | | 6 | 23.13 | 0.12 | 21.10 | <=38.45 | Pass |
| | | | 13 | 23.15 | 0.12 | 21.12 | <=38.45 | Pass |
| | | 25 | 0 | 23.17 | 0.12 | 21.14 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 24.10 | 0.12 | 22.07 | <=38.45 | Pass |
| | | | 13 | 23.97 | 0.12 | 21.94 | <=38.45 | Pass |
| | | | 24 | 24.07 | 0.12 | 22.04 | <=38.45 | Pass |
| | | 12 | 0 | 23.18 | 0.12 | 21.15 | <=38.45 | Pass |
| | | | 6 | 23.13 | 0.12 | 21.10 | <=38.45 | Pass |
| | | | 13 | 23.05 | 0.12 | 21.02 | <=38.45 | Pass |
| | | 25 | 0 | 23.08 | 0.12 | 21.05 | <=38.45 | Pass |
| | 846.5 | 1 | 0 | 24.03 | 0.12 | 22.00 | <=38.45 | Pass |
| | | | 13 | 24.01 | 0.12 | 21.98 | <=38.45 | Pass |
| | | | 24 | 24.06 | 0.12 | 22.03 | <=38.45 | Pass |
| | | 12 | 0 | 23.07 | 0.12 | 21.04 | <=38.45 | Pass |
| | | | 6 | 23.02 | 0.12 | 20.99 | <=38.45 | Pass |
| | | | 13 | 22.96 | 0.12 | 20.93 | <=38.45 | Pass |
| | | 25 | 0 | 23.02 | 0.12 | 20.99 | <=38.45 | Pass |
| 16QAM | 826.5 | 1 | 0 | 23.51 | 0.12 | 21.48 | <=38.45 | Pass |
| | | | 13 | 23.43 | 0.12 | 21.40 | <=38.45 | Pass |
| | | | 24 | 23.50 | 0.12 | 21.47 | <=38.45 | Pass |
| | | 12 | 0 | 22.15 | 0.12 | 20.12 | <=38.45 | Pass |
| | | | 6 | 22.07 | 0.12 | 20.04 | <=38.45 | Pass |
| | | | 13 | 22.09 | 0.12 | 20.06 | <=38.45 | Pass |
| | | 25 | 0 | 22.20 | 0.12 | 20.17 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 23.33 | 0.12 | 21.30 | <=38.45 | Pass |
| | | | 13 | 23.22 | 0.12 | 21.19 | <=38.45 | Pass |
| | | | 24 | 23.22 | 0.12 | 21.19 | <=38.45 | Pass |
| | | 12 | 0 | 22.14 | 0.12 | 20.11 | <=38.45 | Pass |
| | | | 6 | 22.08 | 0.12 | 20.05 | <=38.45 | Pass |
| | | | 13 | 22.00 | 0.12 | 19.97 | <=38.45 | Pass |
| | | 25 | 0 | 22.12 | 0.12 | 20.09 | <=38.45 | Pass |
| | 846.5 | 1 | 0 | 23.36 | 0.12 | 21.33 | <=38.45 | Pass |
| | | | 13 | 23.29 | 0.12 | 21.26 | <=38.45 | Pass |
| | | | 24 | 23.36 | 0.12 | 21.33 | <=38.45 | Pass |
| | | 12 | 0 | 22.06 | 0.12 | 20.03 | <=38.45 | Pass |
| | | | 6 | 21.98 | 0.12 | 19.95 | <=38.45 | Pass |
| | | | 13 | 21.87 | 0.12 | 19.84 | <=38.45 | Pass |
| | | 25 | 0 | 22.06 | 0.12 | 20.03 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.4 B5_10MHz_ERP

### 1.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dbi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 829 | 1 | 0 | 24.05 | 0.12 | 22.02 | <=38.45 | Pass |
| | | | 25 | 24.10 | 0.12 | 22.07 | <=38.45 | Pass |
| | | | 49 | 24.02 | 0.12 | 21.99 | <=38.45 | Pass |
| | | 25 | 0 | 23.15 | 0.12 | 21.12 | <=38.45 | Pass |
| | | | 13 | 23.17 | 0.12 | 21.14 | <=38.45 | Pass |
| | | | 25 | 23.18 | 0.12 | 21.15 | <=38.45 | Pass |
| | | 50 | 0 | 23.19 | 0.12 | 21.16 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 24.22 | 0.12 | 22.19 | <=38.45 | Pass |
| | | | 25 | 24.17 | 0.12 | 22.14 | <=38.45 | Pass |
| | | | 49 | 24.14 | 0.12 | 22.11 | <=38.45 | Pass |
| | | 25 | 0 | 23.10 | 0.12 | 21.07 | <=38.45 | Pass |
| | | | 13 | 23.07 | 0.12 | 21.04 | <=38.45 | Pass |
| | | | 25 | 23.01 | 0.12 | 20.98 | <=38.45 | Pass |
| | | 50 | 0 | 23.07 | 0.12 | 21.04 | <=38.45 | Pass |
| | 844 | 1 | 0 | 23.98 | 0.12 | 21.95 | <=38.45 | Pass |
| | | | 25 | 23.91 | 0.12 | 21.88 | <=38.45 | Pass |
| | | | 49 | 23.98 | 0.12 | 21.95 | <=38.45 | Pass |
| | | 25 | 0 | 23.08 | 0.12 | 21.05 | <=38.45 | Pass |
| | | | 13 | 23.07 | 0.12 | 21.04 | <=38.45 | Pass |
| | | | 25 | 22.98 | 0.12 | 20.95 | <=38.45 | Pass |
| | | 50 | 0 | 23.05 | 0.12 | 21.02 | <=38.45 | Pass |
| 16QAM | 829 | 1 | 0 | 23.27 | 0.12 | 21.24 | <=38.45 | Pass |
| | | | 25 | 23.27 | 0.12 | 21.24 | <=38.45 | Pass |
| | | | 49 | 23.28 | 0.12 | 21.25 | <=38.45 | Pass |
| | | 25 | 0 | 22.15 | 0.12 | 20.12 | <=38.45 | Pass |
| | | | 13 | 22.16 | 0.12 | 20.13 | <=38.45 | Pass |
| | | | 25 | 22.20 | 0.12 | 20.17 | <=38.45 | Pass |
| | | 50 | 0 | 22.15 | 0.12 | 20.12 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 23.32 | 0.12 | 21.29 | <=38.45 | Pass |
| | | | 25 | 23.25 | 0.12 | 21.22 | <=38.45 | Pass |
| | | | 49 | 23.17 | 0.12 | 21.14 | <=38.45 | Pass |
| | | 25 | 0 | 22.17 | 0.12 | 20.14 | <=38.45 | Pass |
| | | | 13 | 22.13 | 0.12 | 20.10 | <=38.45 | Pass |
| | | | 25 | 22.09 | 0.12 | 20.06 | <=38.45 | Pass |
| | | 50 | 0 | 22.08 | 0.12 | 20.05 | <=38.45 | Pass |
| | 844 | 1 | 0 | 23.16 | 0.12 | 21.13 | <=38.45 | Pass |
| | | | 25 | 23.19 | 0.12 | 21.16 | <=38.45 | Pass |
| | | | 49 | 23.24 | 0.12 | 21.21 | <=38.45 | Pass |
| | | 25 | 0 | 22.12 | 0.12 | 20.09 | <=38.45 | Pass |
| | | | 13 | 22.08 | 0.12 | 20.05 | <=38.45 | Pass |
| | | | 25 | 21.97 | 0.12 | 19.94 | <=38.45 | Pass |
| | | 50 | 0 | 22.00 | 0.12 | 19.97 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

# 2. Frequency Stability

## 2.1 B5_1.4MHz

### 2.1.1 Test Result

| Band: 5 / 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 | 824.7 | 6 | 0 | 20 | 3.27 | 0.544 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.947 | 0.0036 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 3.433 | 0.0042 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.386 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.760 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 3.533 | 0.0043 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.475 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.715 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 3.104 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 3.204 | 0.0039 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | 836.5 | 6 | 0 | 20 | 3.27 | -1.016 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.860 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.887 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.988 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.532 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 2.546 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.931 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -4.678 | -0.0056 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.629 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.688 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.003 | 0.0024 | -2.5 to 2.5 | Pass |
| | 848.3 | 6 | 0 | 20 | 3.27 | 2.890 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.131 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.146 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 3.104 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.290 | 0.0039 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.960 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.418 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 3.834 | 0.0045 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 2.689 | 0.0032 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.832 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.215 | -0.0003 | -2.5 to 2.5 | Pass |
| 16QAM | 824.7 | 6 | 0 | 20 | 3.27 | 1.116 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.931 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.273 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -11.573 | -0.0140 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 4.020 | 0.0049 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 4.163 | 0.0050 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.518 | 0.0031 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.230 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 2.918 | 0.0035 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.715 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.189 | 0.0027 | -2.5 to 2.5 | Pass |
| | 836.5 | 6 | 0 | 20 | 3.27 | 0.386 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.973 | 0.0012 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4.43 | 1.745 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 2.031 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.346 | 0.0028 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.544 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.173 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.588 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.074 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.588 | 0.0019 | -2.5 to 2.5 | Pass |
| | 848.3 | 6 | 0 | 20 | 3.27 | 0.086 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.531 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.173 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.259 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.544 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.445 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -9.985 | -0.0118 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.429 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.947 | -0.0035 | -2.5 to 2.5 | Pass |

## 2.2 B5_3MHz

### 2.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 825.5 | 15 | 0 | 20 | 3.27 | -2.961 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.719 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 9.398 | 0.0114 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.362 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.448 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.458 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.458 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.531 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.515 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.532 | -0.0031 | -2.5 to 2.5 | Pass |
| | 836.5 | 15 | 0 | 20 | 3.27 | -0.458 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.645 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.646 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.559 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.831 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.174 | 0.0026 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.601 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.501 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.060 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.874 | -0.0022 | -2.5 to 2.5 | Pass |
| | 847.5 | 15 | 0 | 20 | 3.27 | 0.186 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.257 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.847 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.847 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.85 | -0.558 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.072 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.730 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.018 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.489 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.101 | -0.0013 | -2.5 to 2.5 | Pass |
| 16QAM | 825.5 | 15 | 0 | 20 | 3.27 | -1.159 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.443 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.731 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.373 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.129 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.804 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.574 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.143 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.300 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.073 | 0.0013 | -2.5 to 2.5 | Pass |
| | 836.5 | 15 | 0 | 20 | 3.27 | 0.901 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.303 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.858 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.615 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.332 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.204 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.518 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.475 | -0.0030 | -2.5 to 2.5 | Pass |
| | 847.5 | 15 | 0 | 20 | 3.27 | 1.688 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.017 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.159 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.858 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 3.362 | 0.0040 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.443 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.658 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.217 | 0.0026 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.302 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.774 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.315 | 0.0004 | -2.5 to 2.5 | Pass |

## 2.3 B5_5MHz

### 2.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 826.5 | 25 | 0 | 20 | 3.27 | -1.888 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.257 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.616 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.516 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.202 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.215 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.958 | -0.0012 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 30 | 3.85 | 2.832 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.159 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.801 | -0.0010 | -2.5 to 2.5 | Pass |
| | 836.5 | 25 | 0 | 20 | 3.27 | -0.687 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.601 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.173 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.744 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.401 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.386 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.189 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.230 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.130 | -0.0014 | -2.5 to 2.5 | Pass |
| | 846.5 | 25 | 0 | 20 | 3.27 | 0.830 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.031 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.216 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.431 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.232 | 0.0026 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.229 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.230 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.472 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.157 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.615 | 0.0007 | -2.5 to 2.5 | Pass |
| 16QAM | 826.5 | 25 | 0 | 20 | 3.27 | -0.215 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.076 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.901 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.229 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -3.719 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.016 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.559 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.801 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.502 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.030 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.973 | 0.0012 | -2.5 to 2.5 | Pass |
| | 836.5 | 25 | 0 | 20 | 3.27 | -0.587 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.300 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.473 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.186 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.518 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.300 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.990 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.332 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.802 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.130 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -3.333 | -0.0040 | -2.5 to 2.5 | Pass |
| | 846.5 | 25 | 0 | 20 | 3.27 | 1.030 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.715 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.559 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.372 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.587 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.173 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.646 | 0.0031 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.060 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.645 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.257 | -0.0003 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 | 3.85 | 0.815 | 0.0010 | -2.5 to 2.5 | Pass |

## 2.4 B5_10MHz

### 2.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 829 | 50 | 0 | 20 | 3.27 | -0.930 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.718 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.888 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.429 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.644 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.004 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.117 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -3.734 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.232 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.787 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.559 | -0.0019 | -2.5 to 2.5 | Pass |
| | 836.5 | 50 | 0 | 20 | 3.27 | -3.419 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.529 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.601 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.403 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.875 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.589 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.615 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.403 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.043 | 0.0001 | -2.5 to 2.5 | Pass |
| | 844 | 50 | 0 | 20 | 3.27 | -1.917 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.229 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.545 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.731 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.031 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.516 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.588 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.629 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.701 | -0.0008 | -2.5 to 2.5 | Pass |
| 16QAM | 829 | 50 | 0 | 20 | 3.27 | -2.089 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.004 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.073 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.416 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.516 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.472 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.057 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.615 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.901 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.602 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.402 | -0.0017 | -2.5 to 2.5 | Pass |
| | 836.5 | 50 | 0 | 20 | 3.27 | -1.416 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.545 | -0.0018 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4.43 | 0.329 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.619 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.429 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.958 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -5.608 | -0.0067 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.533 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.874 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -3.734 | -0.0045 | -2.5 to 2.5 | Pass |
| | 844 | 50 | 0 | 20 | 3.27 | -0.272 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.501 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.558 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.844 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.558 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.890 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.730 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.858 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.601 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |

# 3. Modulation Characteristics

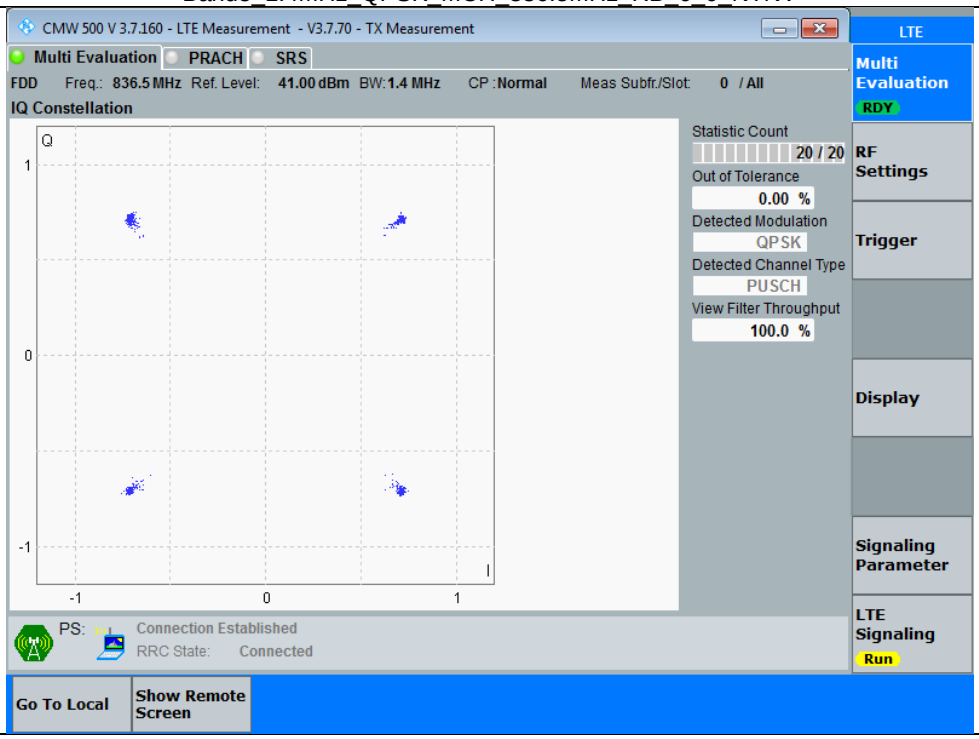
## 3.1 B5_1.4MHz

### 3.1.1 Test Result

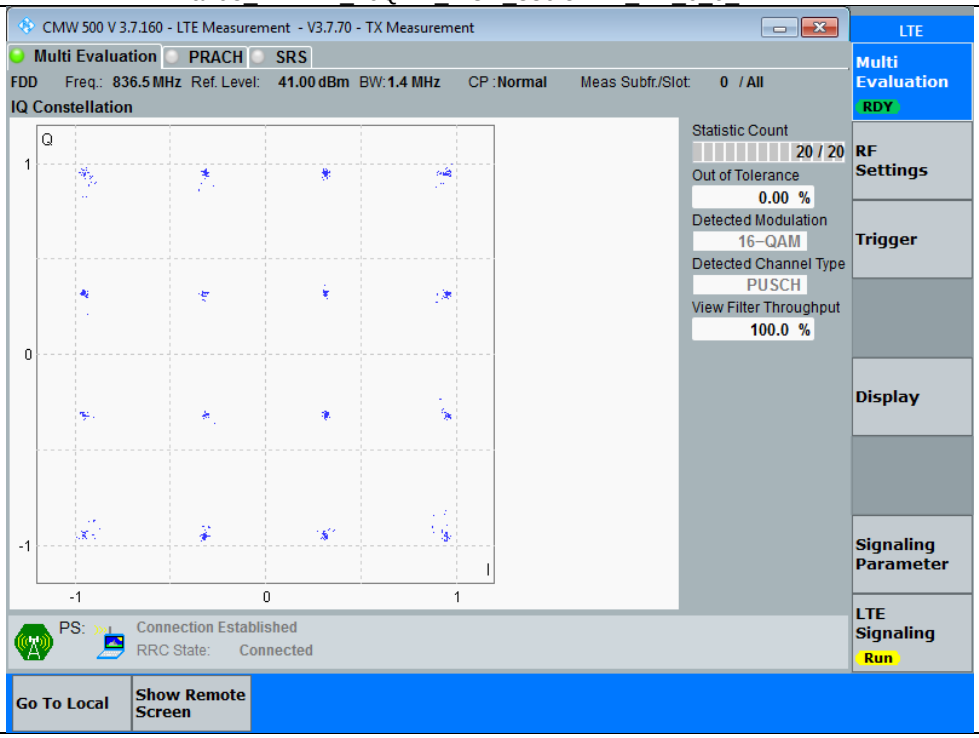
| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 6 | 0 | Refer To Test Graph | | Pass |

## 3.1.2 Test Graph

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV




Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



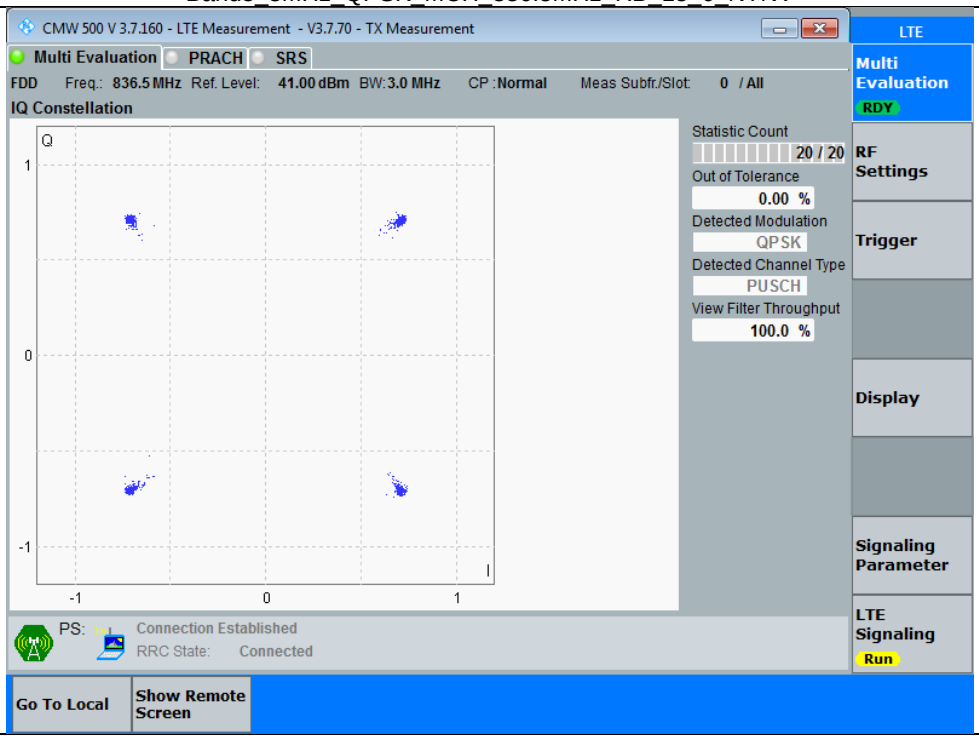
## 3.2 B5_3MHz

### 3.2.1 Test Result

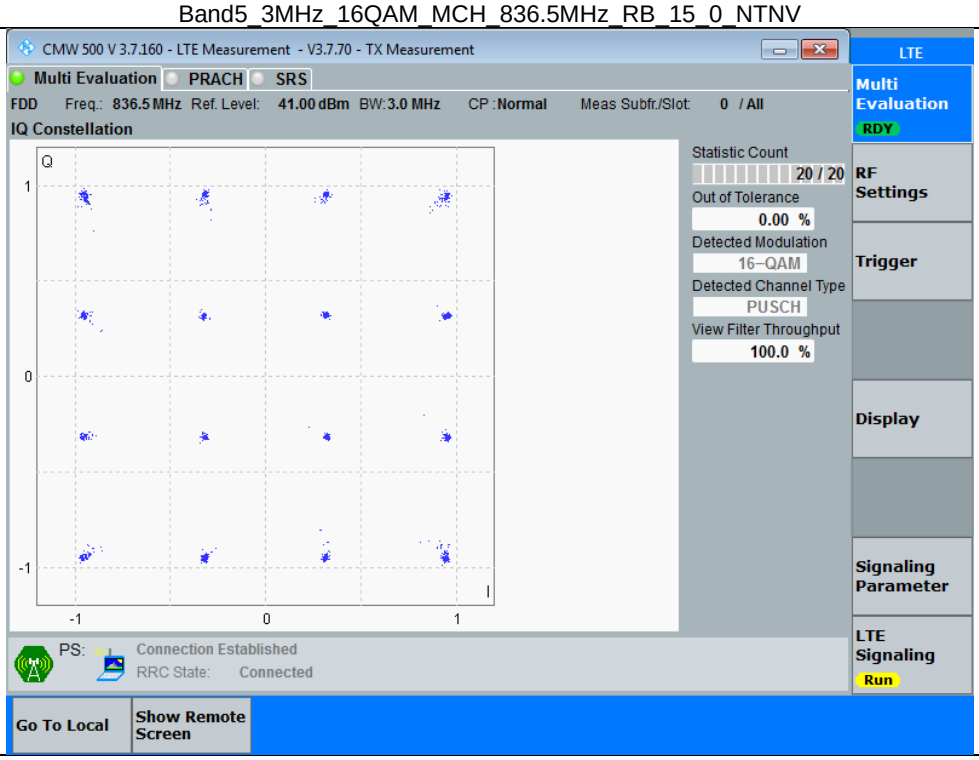
| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 15 | 0 | Refer To Test Graph | | Pass |

### 3.2.2 Test Graph

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV




Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



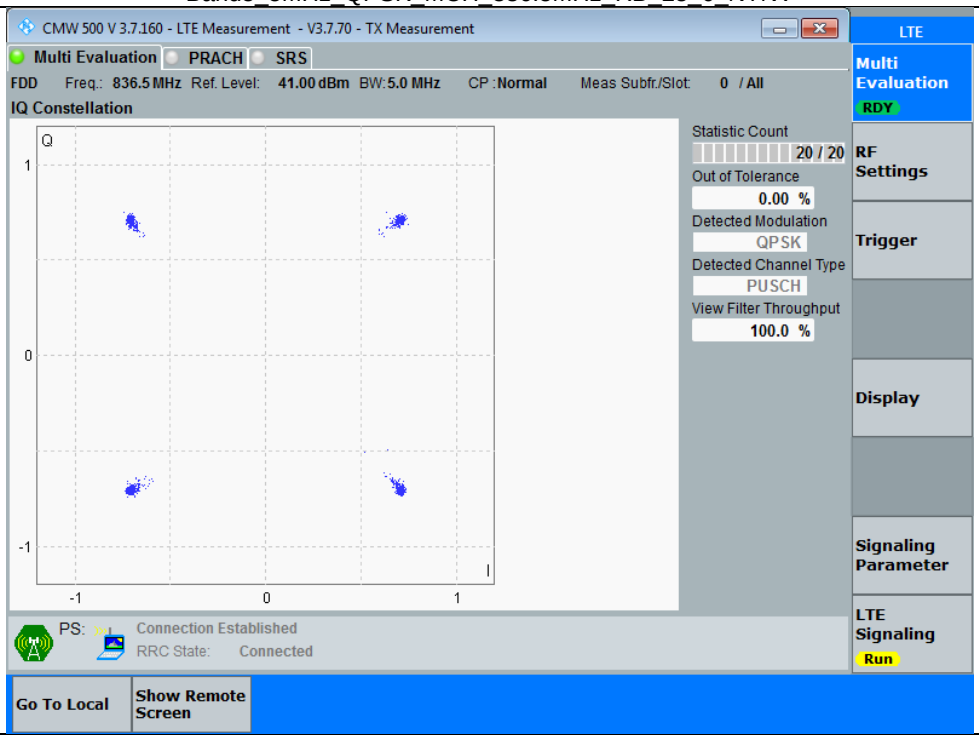
## 3.3 B5_5MHz

### 3.3.1 Test Result

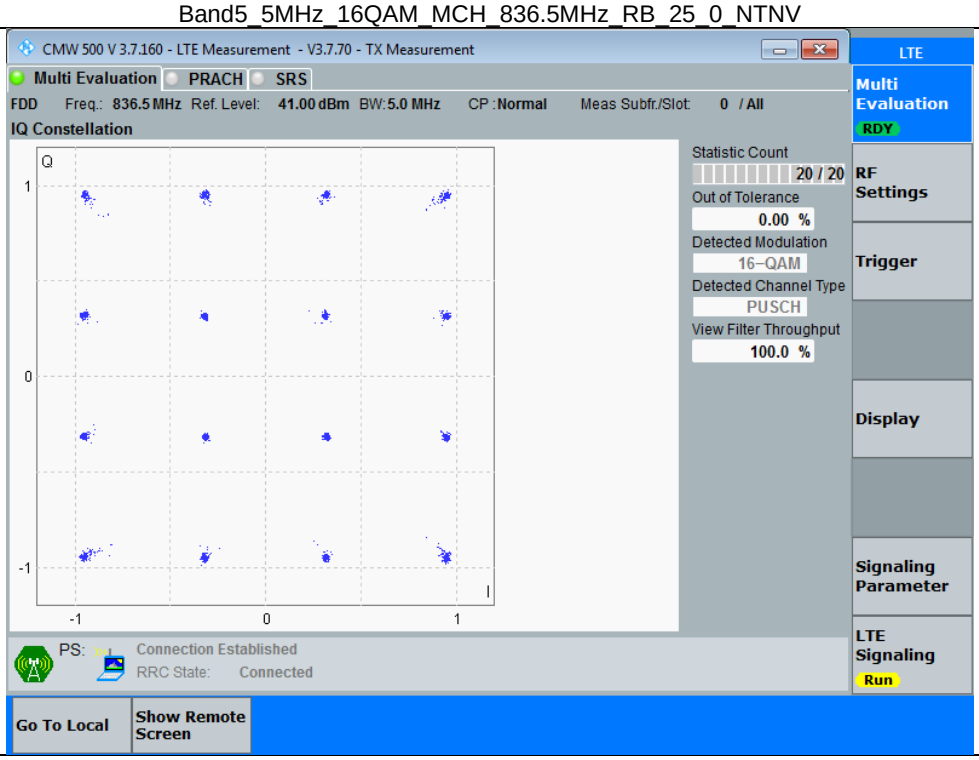
| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 25 | 0 | Refer To Test Graph | | Pass |

### 3.3.2 Test Graph

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV




Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



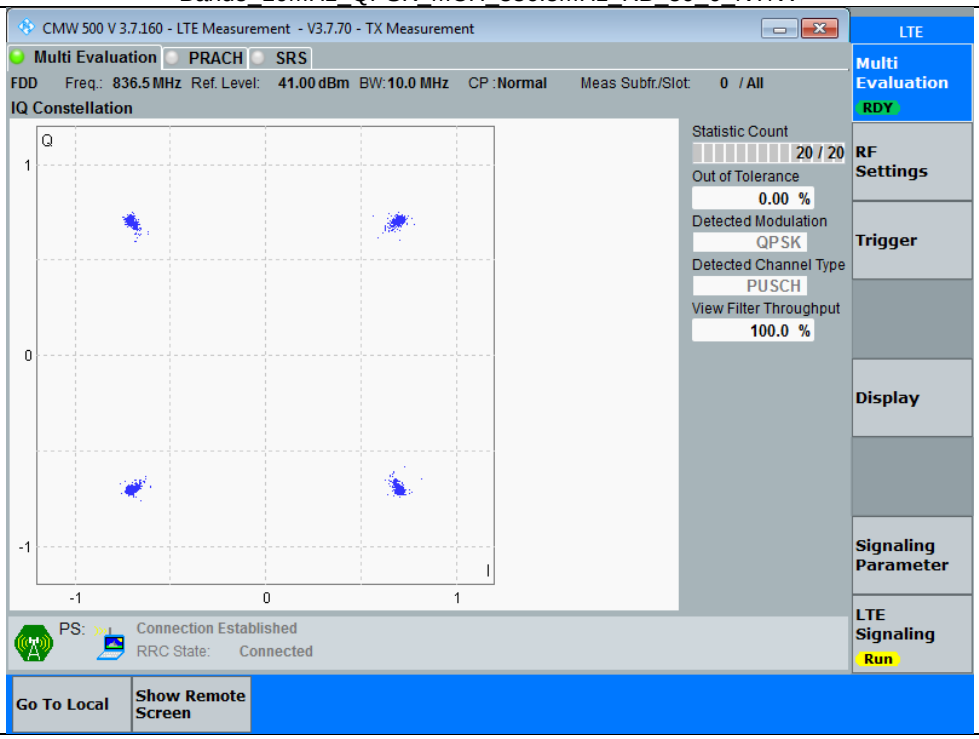
## 3.4 B5_10MHz

### 3.4.1 Test Result

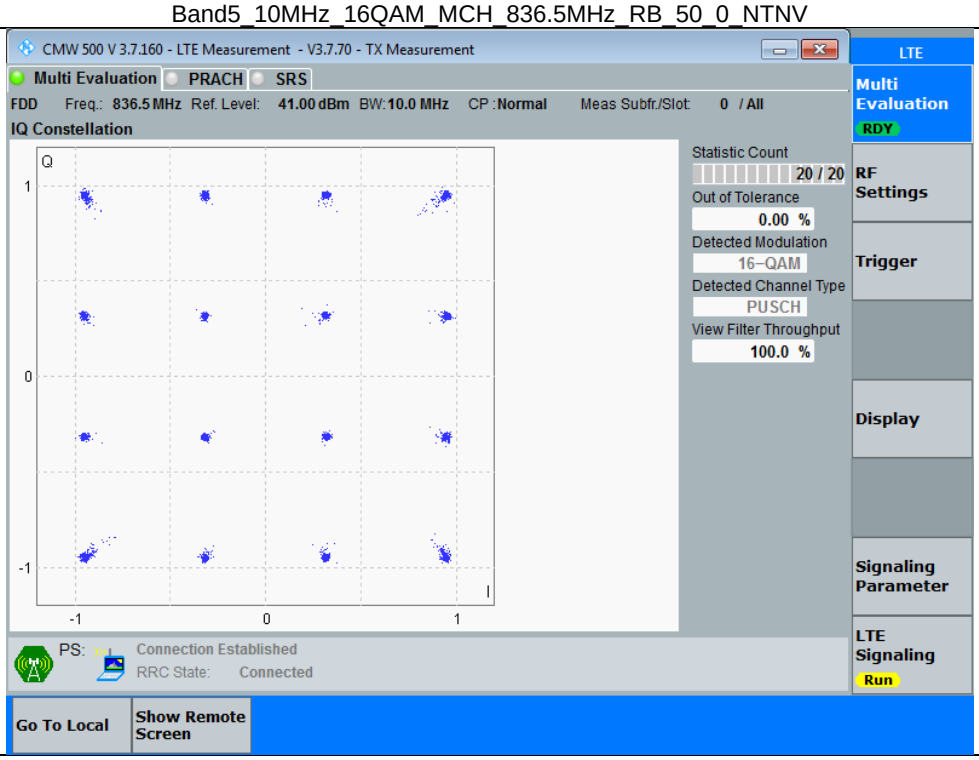
| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 50 | 0 | Refer To Test Graph | | Pass |

## 3.4.2 Test Graph

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



# 4. 99% & 26dB Bandwidth

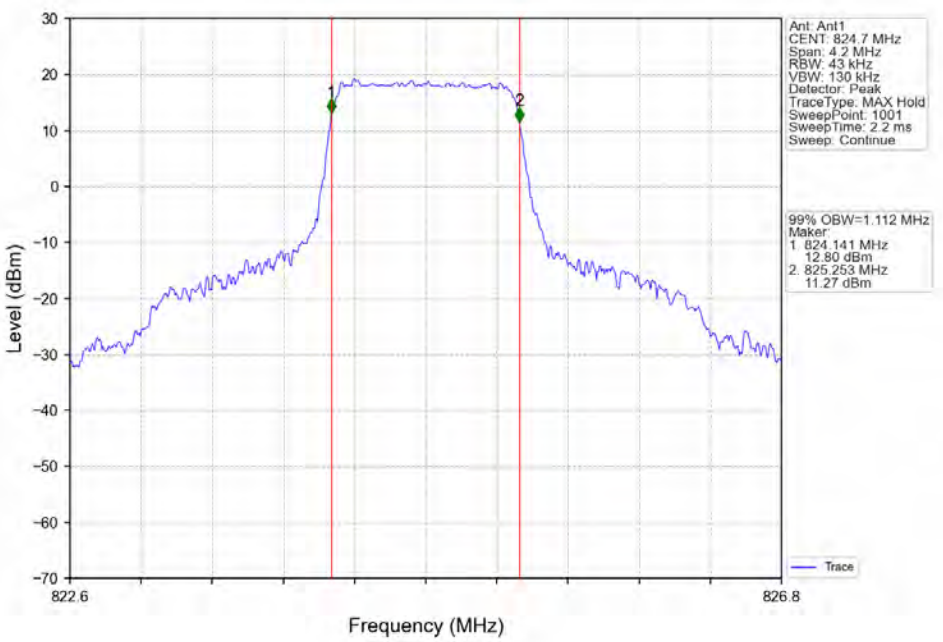
## 4.1 Band5_OBW

### 4.1.1 Test Result

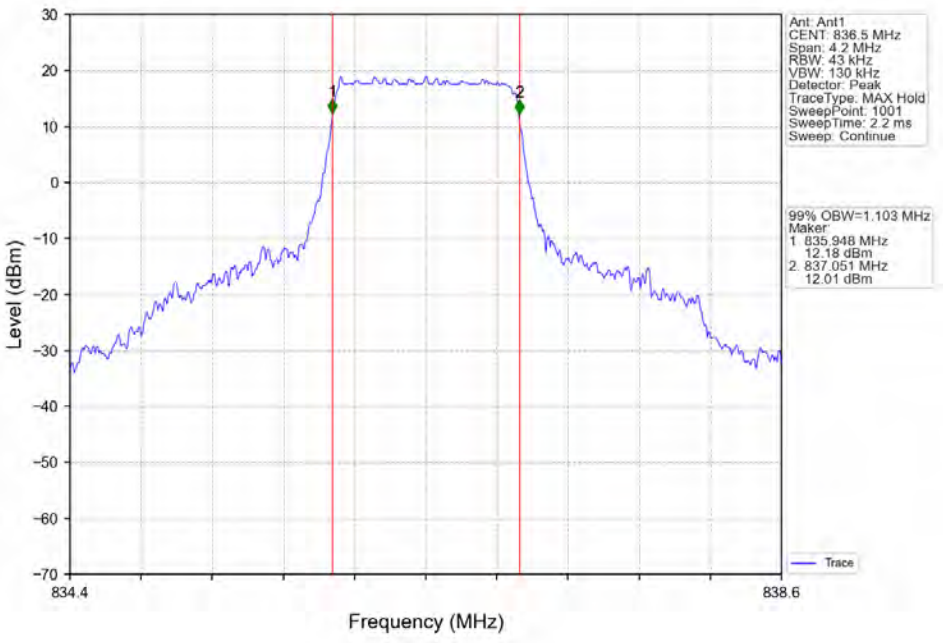
| Band: 5 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.112 | Pass |
| | | 836.5 | 6 | 0 | 1.103 | Pass |
| | | 848.3 | 6 | 0 | 1.122 | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.117 | Pass |
| | | 836.5 | 6 | 0 | 1.107 | Pass |
| | | 848.3 | 6 | 0 | 1.106 | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 2.742 | Pass |
| | | 836.5 | 15 | 0 | 2.742 | Pass |
| | | 847.5 | 15 | 0 | 2.732 | Pass |
| | 16QAM | 825.5 | 15 | 0 | 2.727 | Pass |
| | | 836.5 | 15 | 0 | 2.731 | Pass |
| | | 847.5 | 15 | 0 | 2.727 | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 4.554 | Pass |
| | | 836.5 | 25 | 0 | 4.548 | Pass |
| | | 846.5 | 25 | 0 | 4.535 | Pass |
| | 16QAM | 826.5 | 25 | 0 | 4.543 | Pass |
| | | 836.5 | 25 | 0 | 4.568 | Pass |
| | | 846.5 | 25 | 0 | 4.550 | Pass |
| 10 | QPSK | 829 | 50 | 0 | 9.085 | Pass |
| | | 836.5 | 50 | 0 | 9.046 | Pass |
| | | 844 | 50 | 0 | 9.065 | Pass |
| | 16QAM | 829 | 50 | 0 | 9.060 | Pass |
| | | 836.5 | 50 | 0 | 9.049 | Pass |
| | | 844 | 50 | 0 | 9.032 | Pass |

## 4.1.2 Test Graph

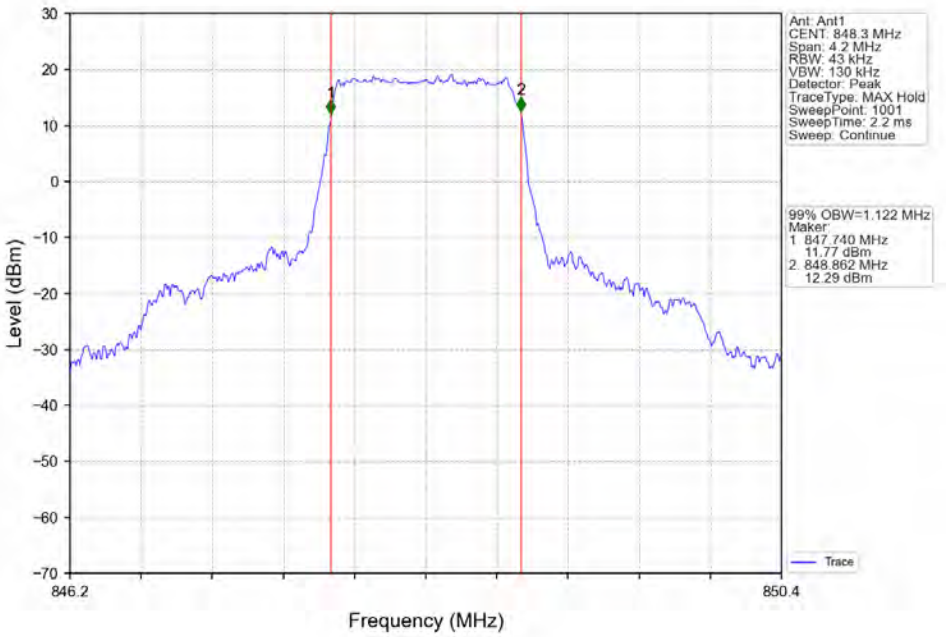
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



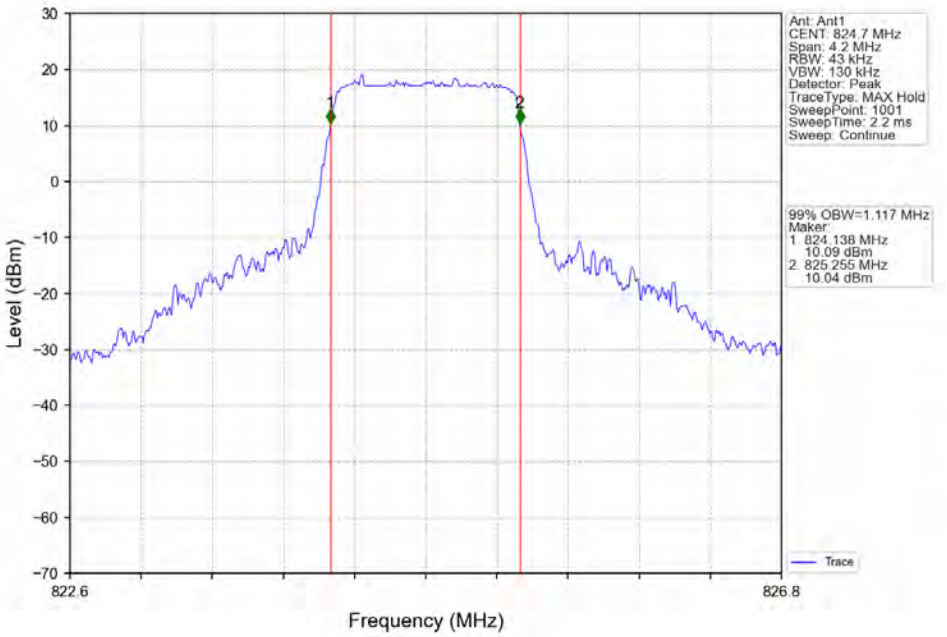

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



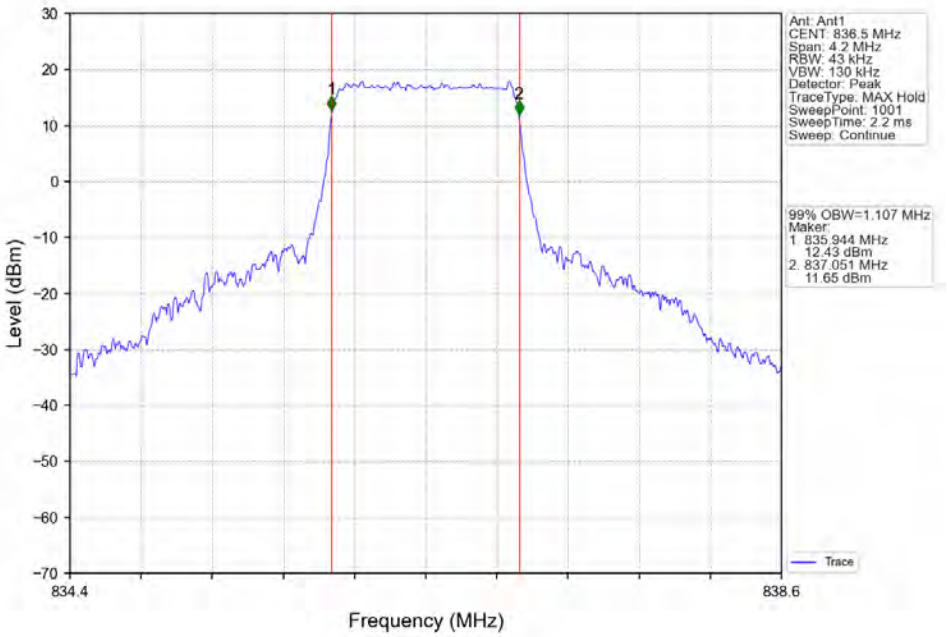
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



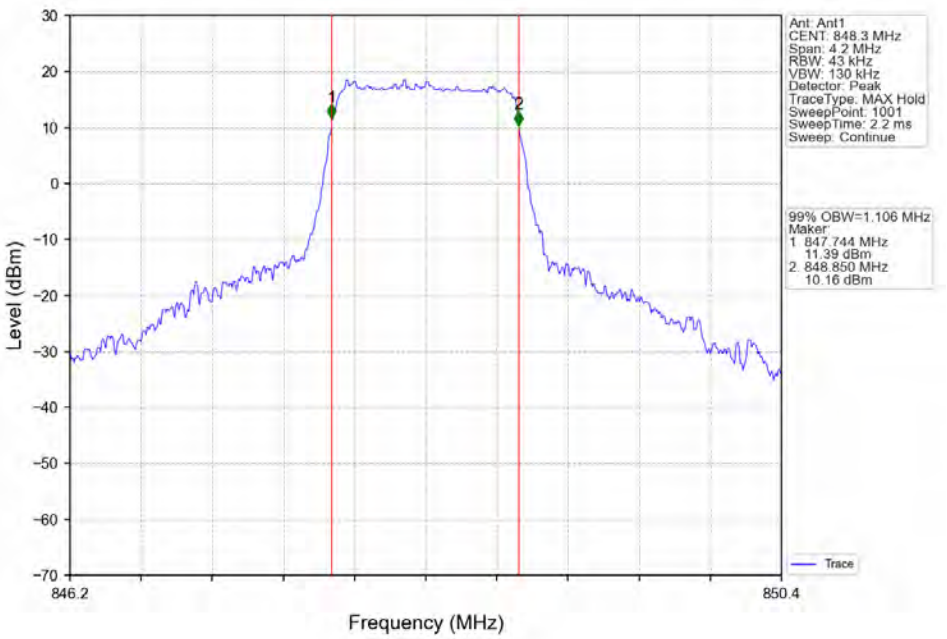

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



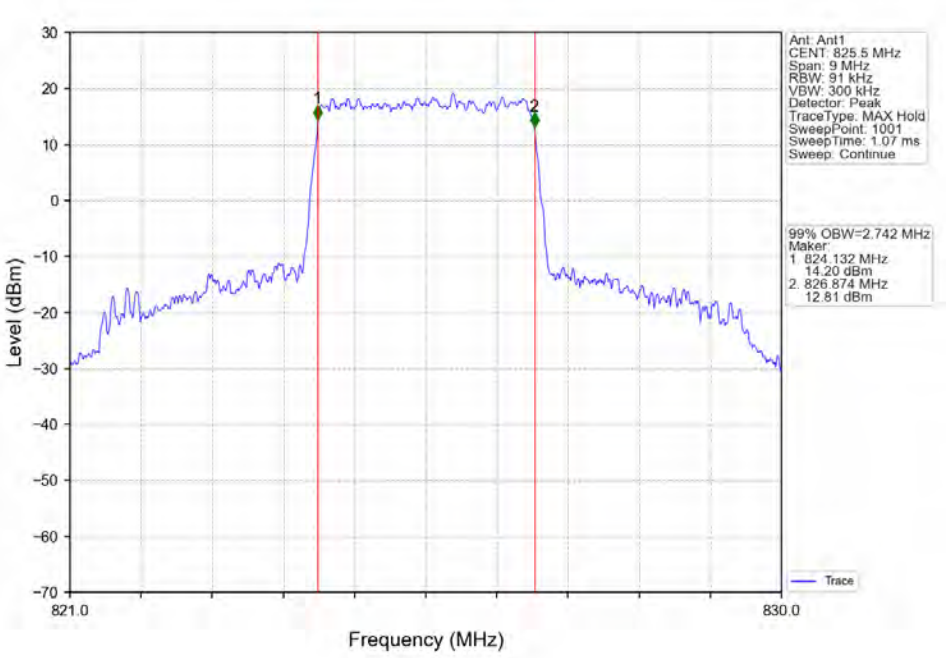
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



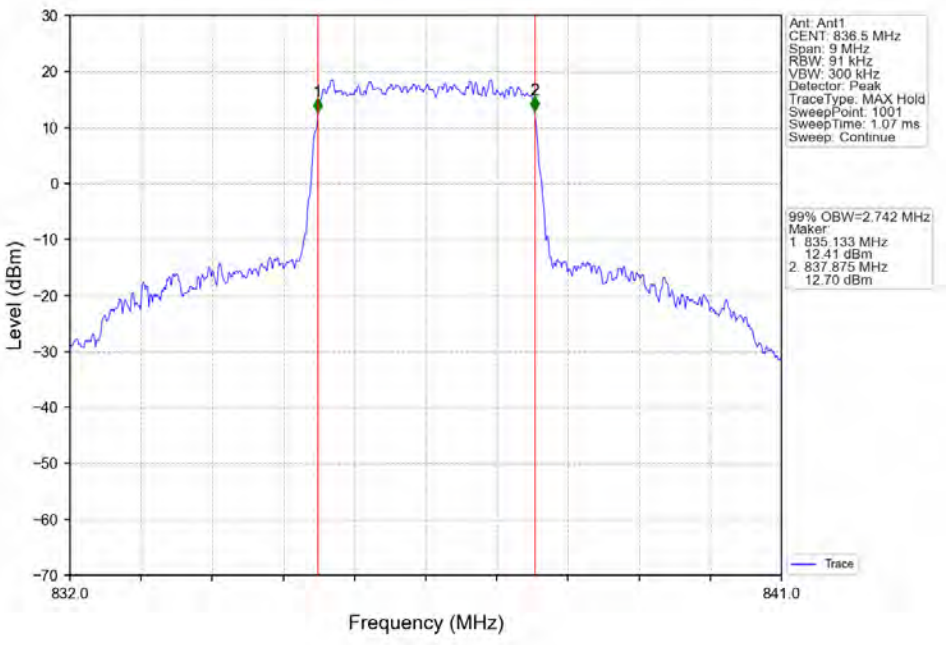

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



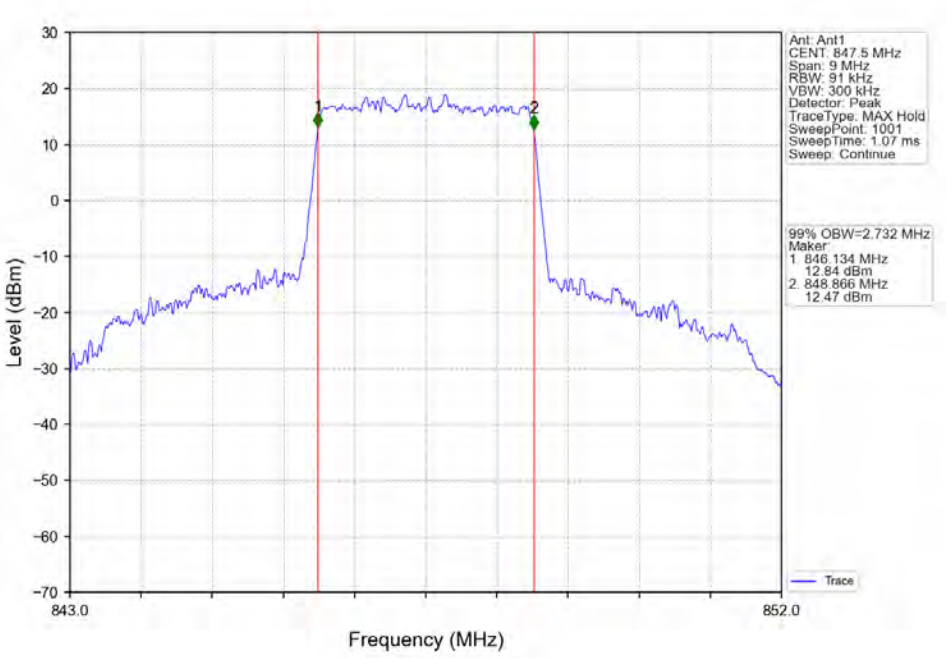
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



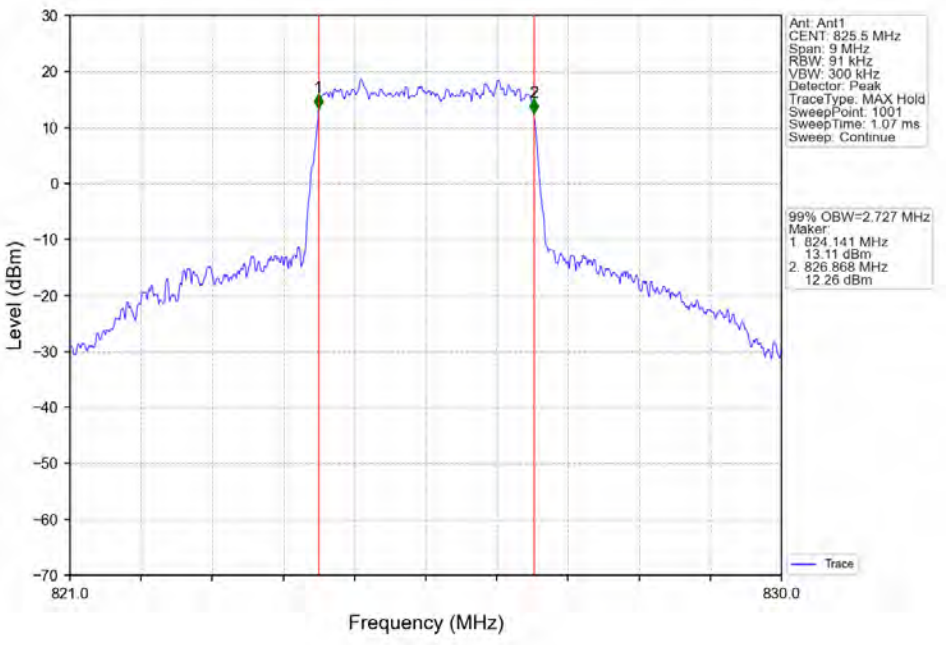

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



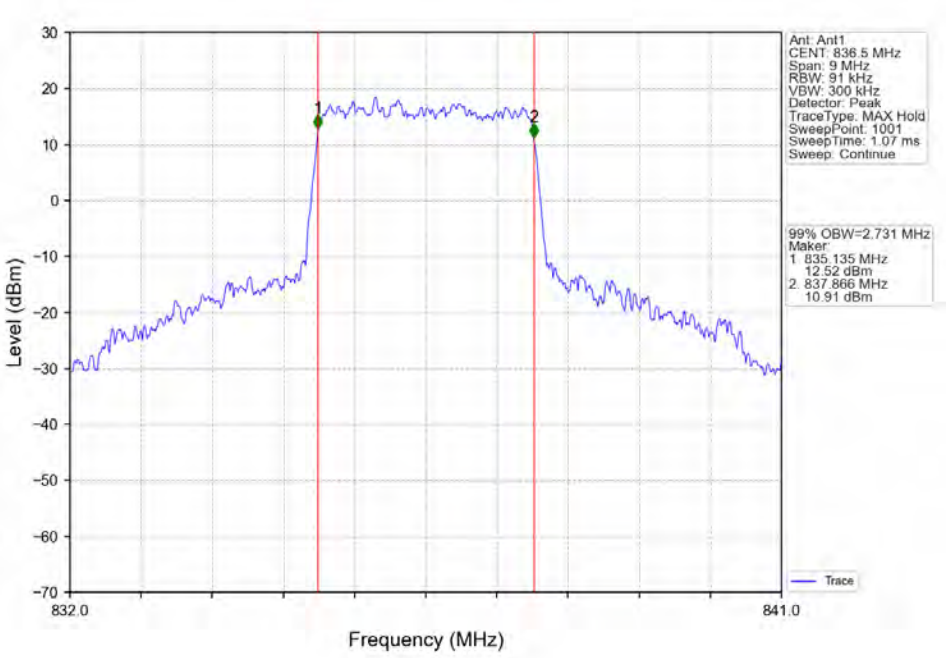
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



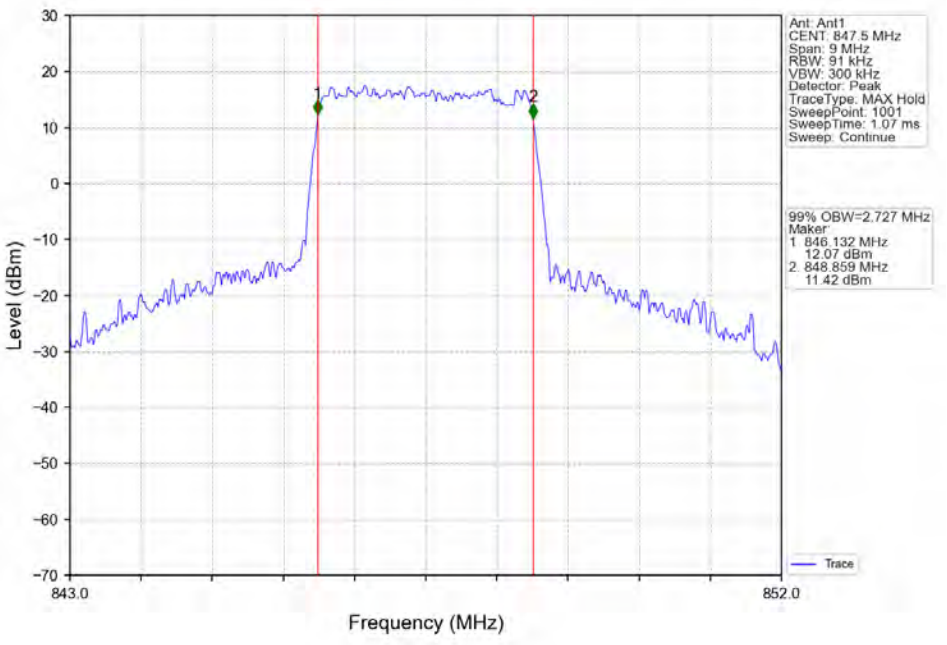

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



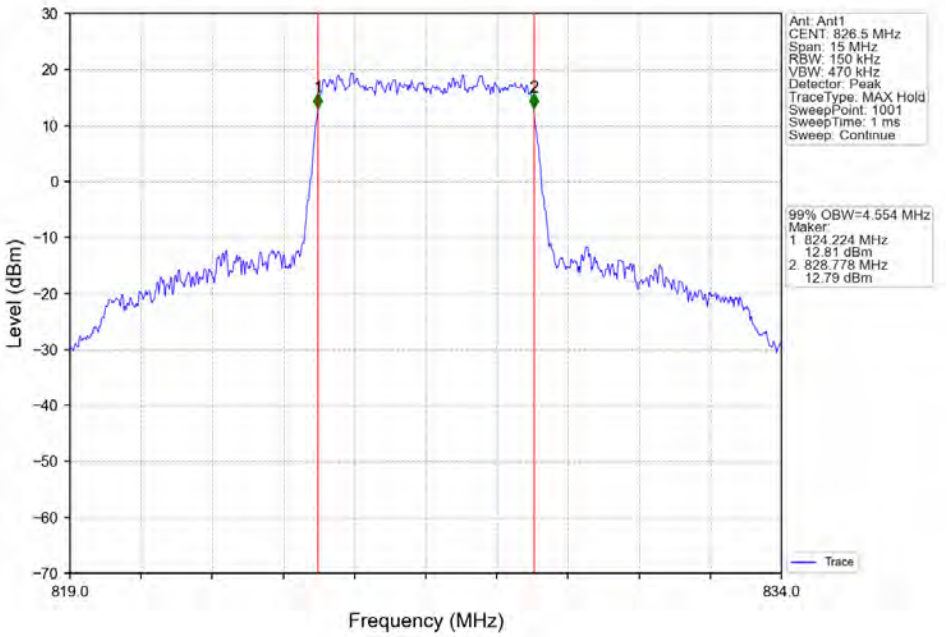
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



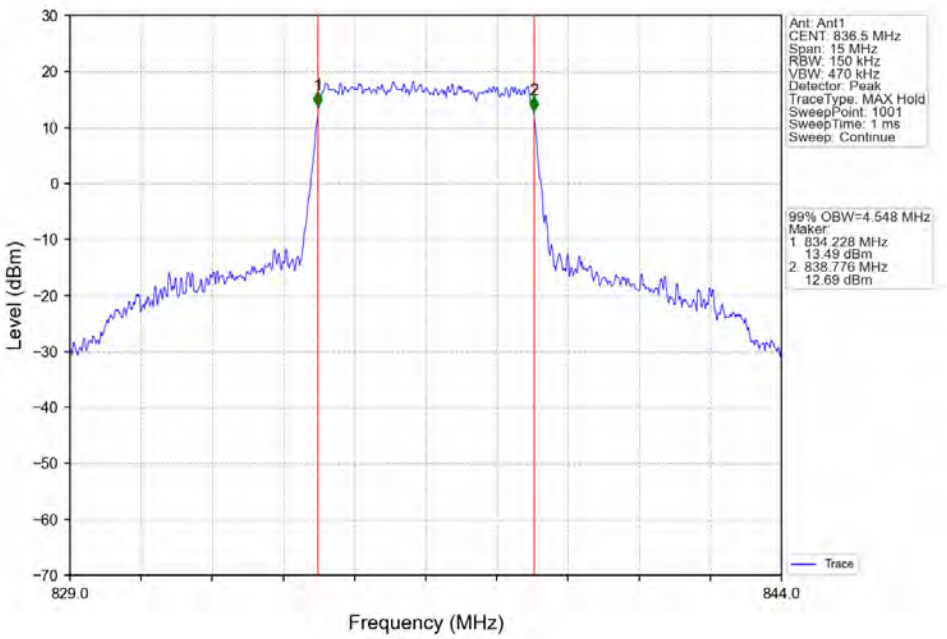

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



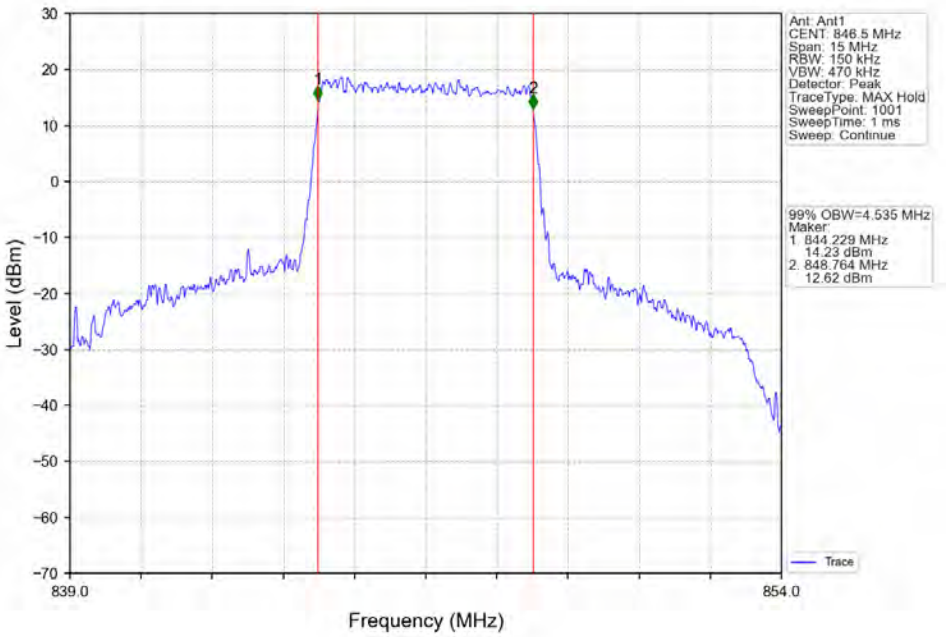
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



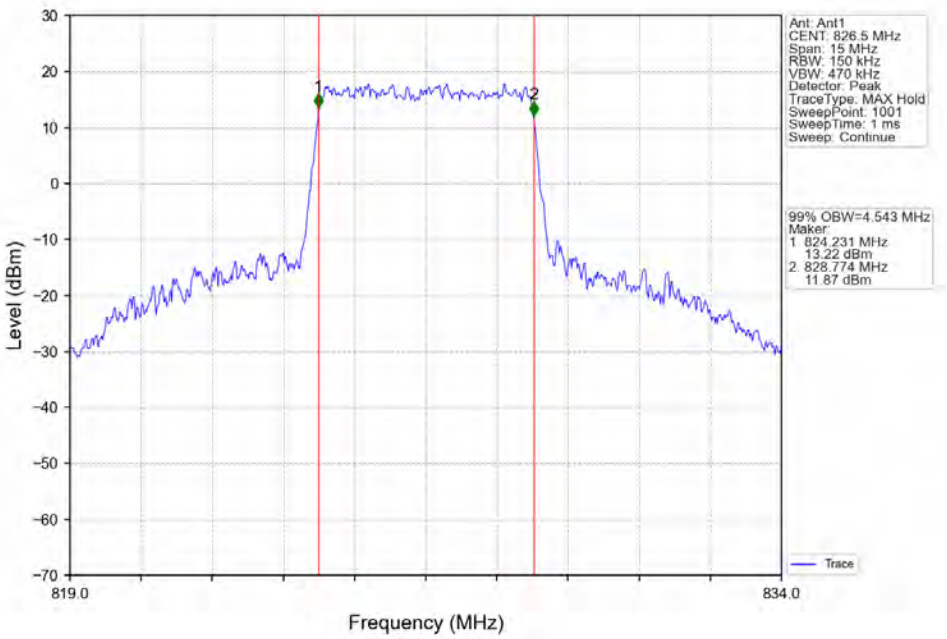

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



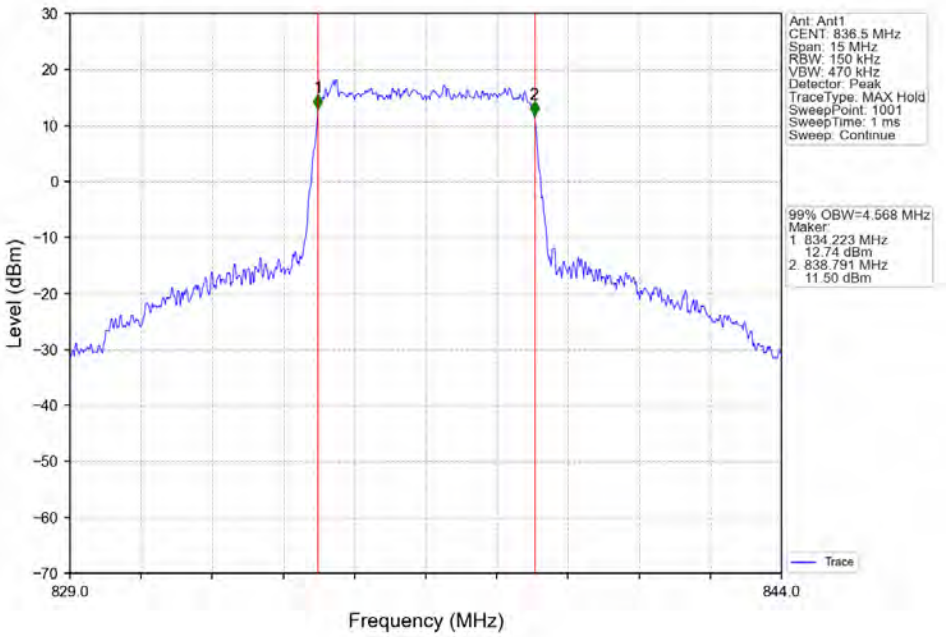
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



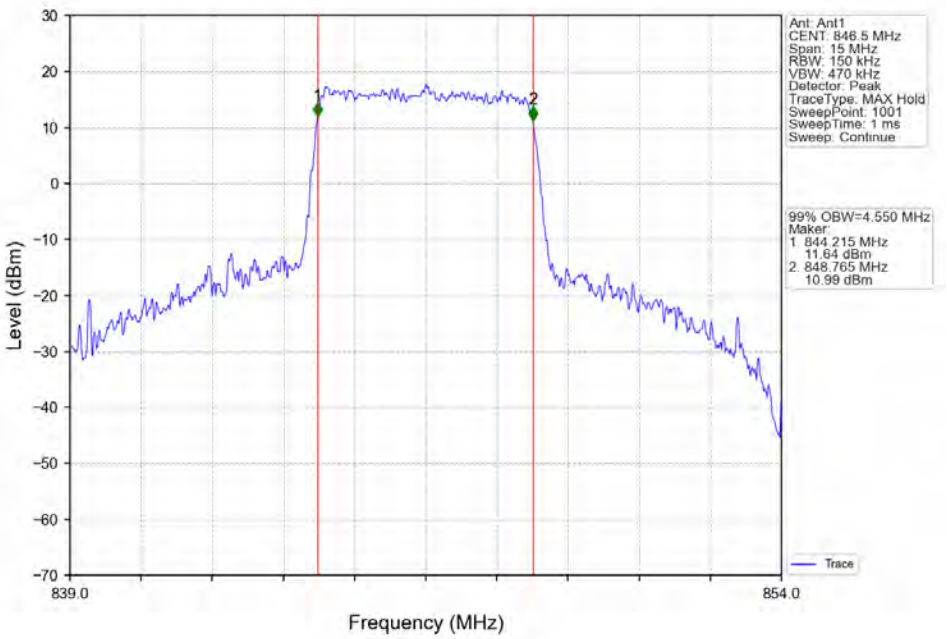

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



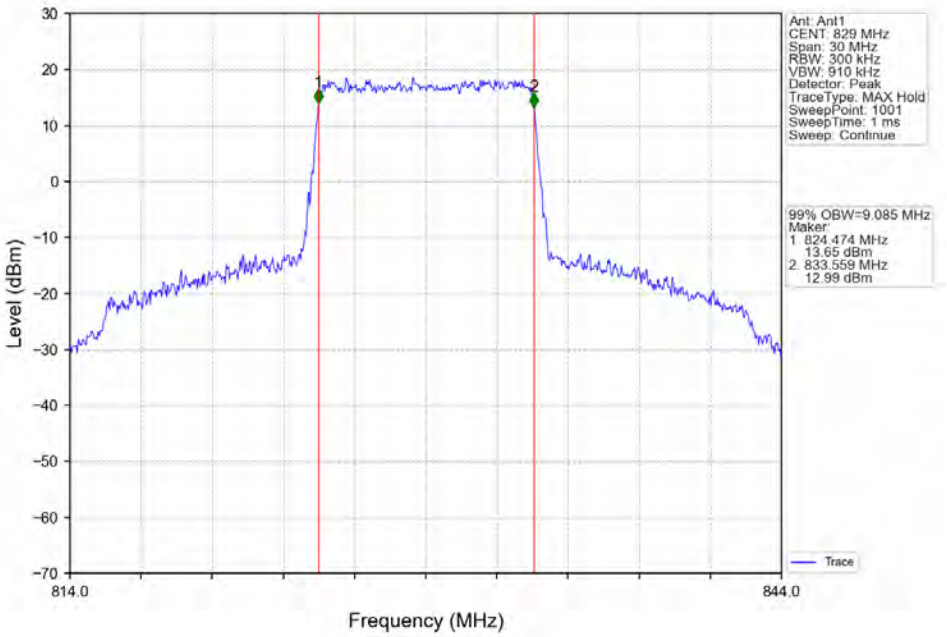
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



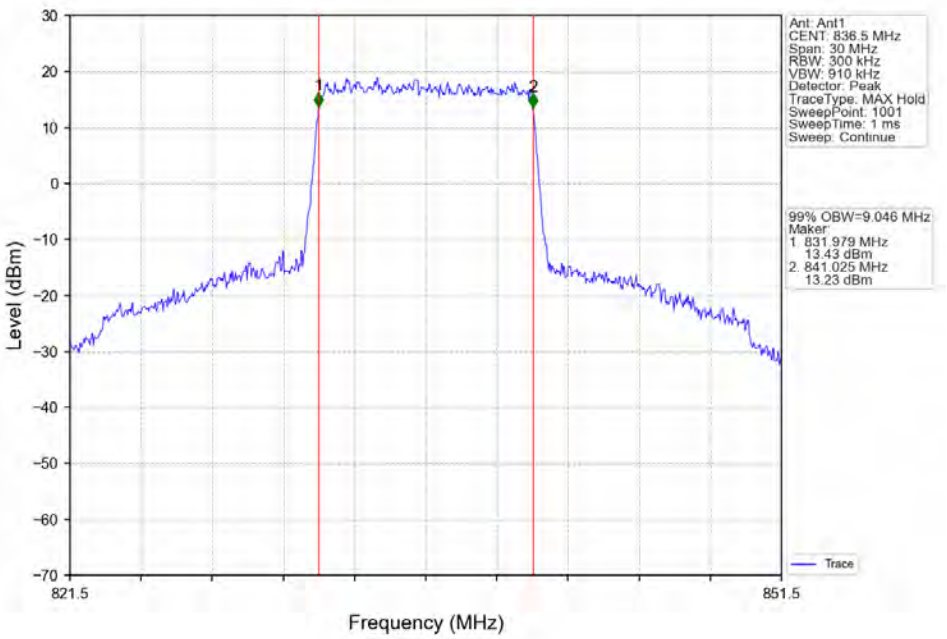

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



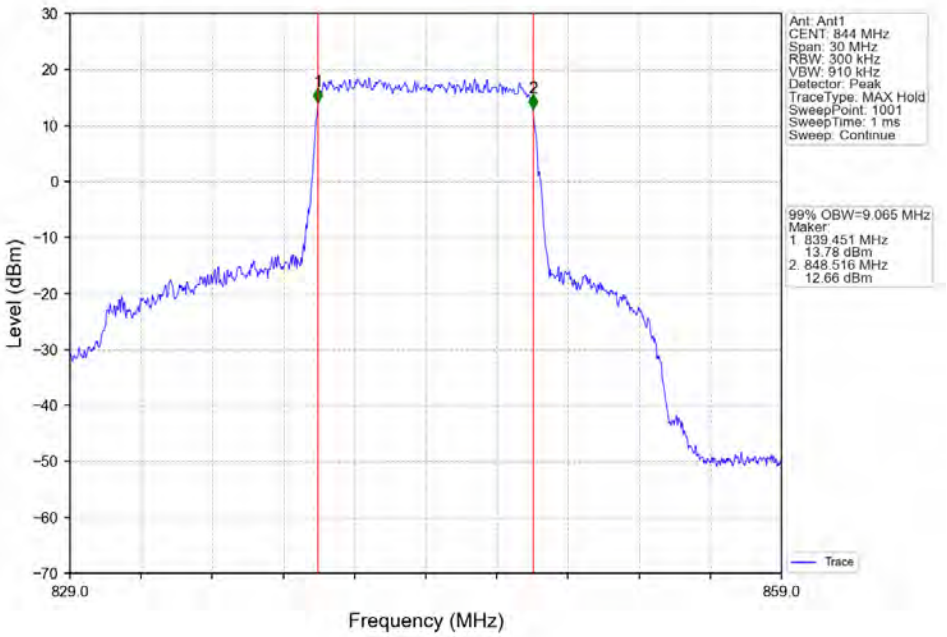
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



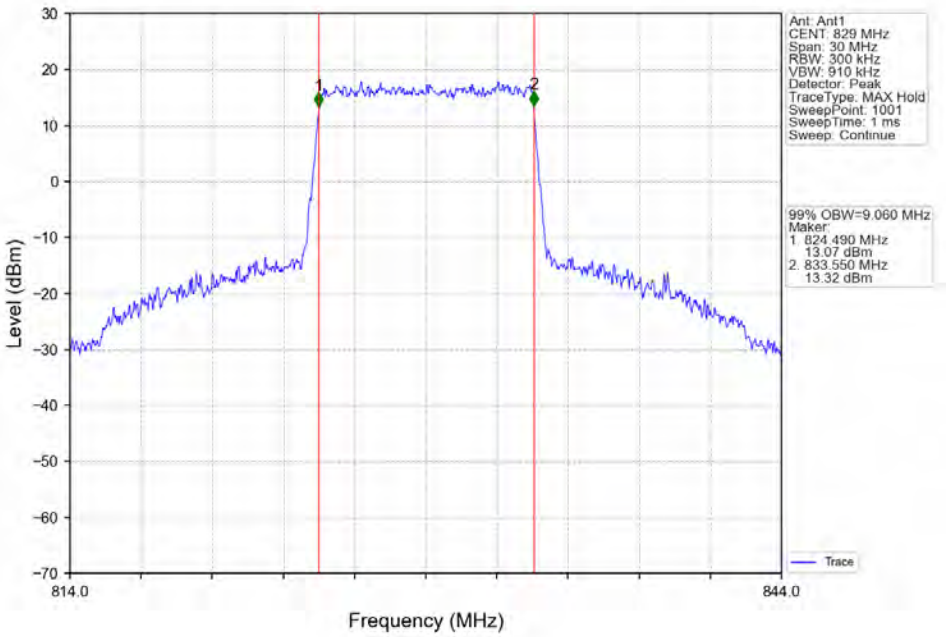

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



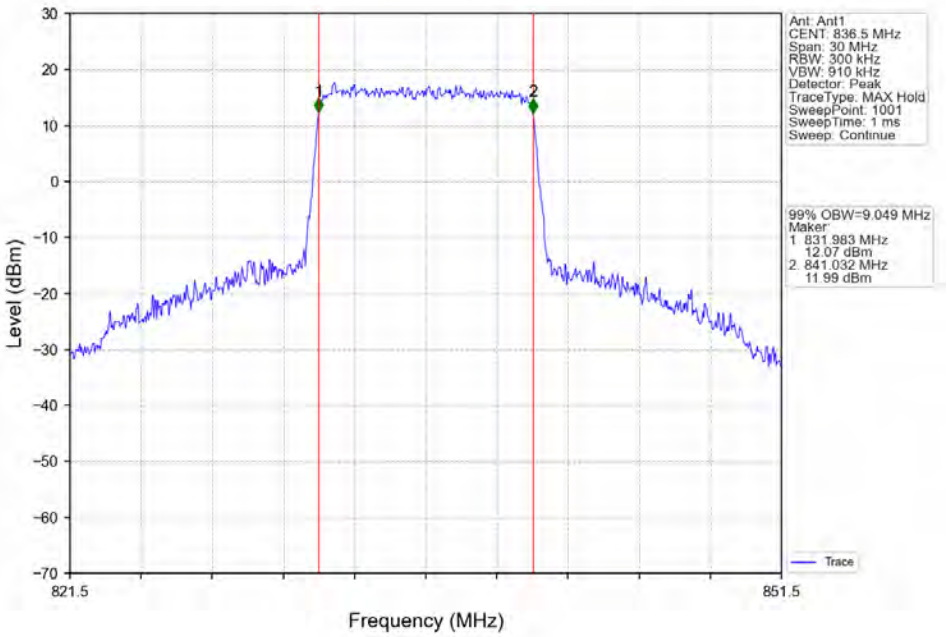
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



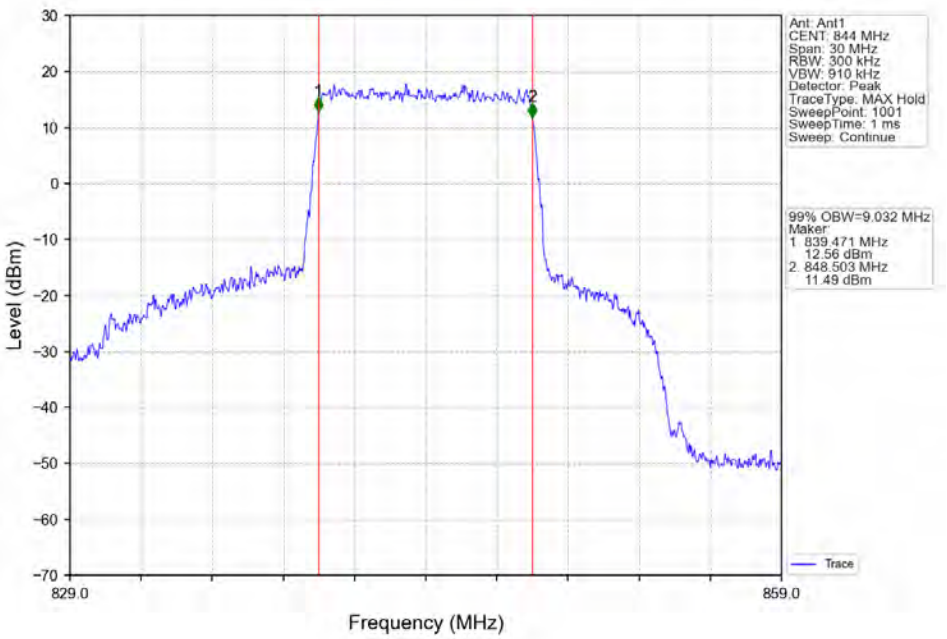

Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



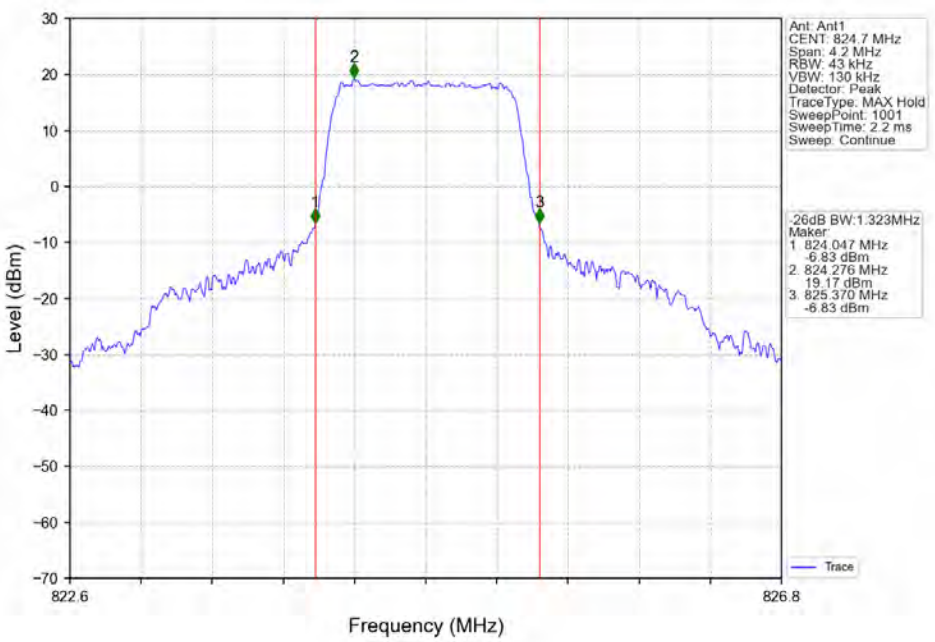
## 4.2 Band5_XDB

### 4.2.1 Test Result

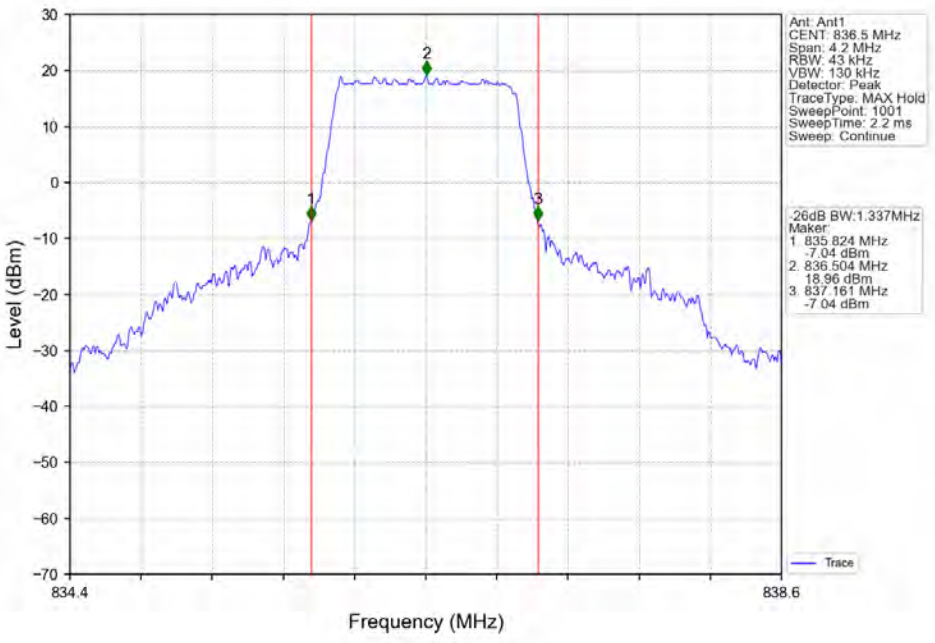
| Band: 5 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.323 | Pass |
| | | 836.5 | 6 | 0 | 1.337 | Pass |
| | | 848.3 | 6 | 0 | 1.315 | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.308 | Pass |
| | | 836.5 | 6 | 0 | 1.315 | Pass |
| | | 848.3 | 6 | 0 | 1.319 | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 3.014 | Pass |
| | | 836.5 | 15 | 0 | 3.015 | Pass |
| | | 847.5 | 15 | 0 | 3.015 | Pass |
| | 16QAM | 825.5 | 15 | 0 | 3.006 | Pass |
| | | 836.5 | 15 | 0 | 3.003 | Pass |
| | | 847.5 | 15 | 0 | 3.028 | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 5.066 | Pass |
| | | 836.5 | 25 | 0 | 5.100 | Pass |
| | | 846.5 | 25 | 0 | 5.043 | Pass |
| | 16QAM | 826.5 | 25 | 0 | 5.055 | Pass |
| | | 836.5 | 25 | 0 | 5.023 | Pass |
| | | 846.5 | 25 | 0 | 5.038 | Pass |
| 10 | QPSK | 829 | 50 | 0 | 10.102 | Pass |
| | | 836.5 | 50 | 0 | 9.922 | Pass |
| | | 844 | 50 | 0 | 9.967 | Pass |
| | 16QAM | 829 | 50 | 0 | 9.961 | Pass |
| | | 836.5 | 50 | 0 | 9.981 | Pass |
| | | 844 | 50 | 0 | 9.973 | Pass |

## 4.2.2 Test Graph

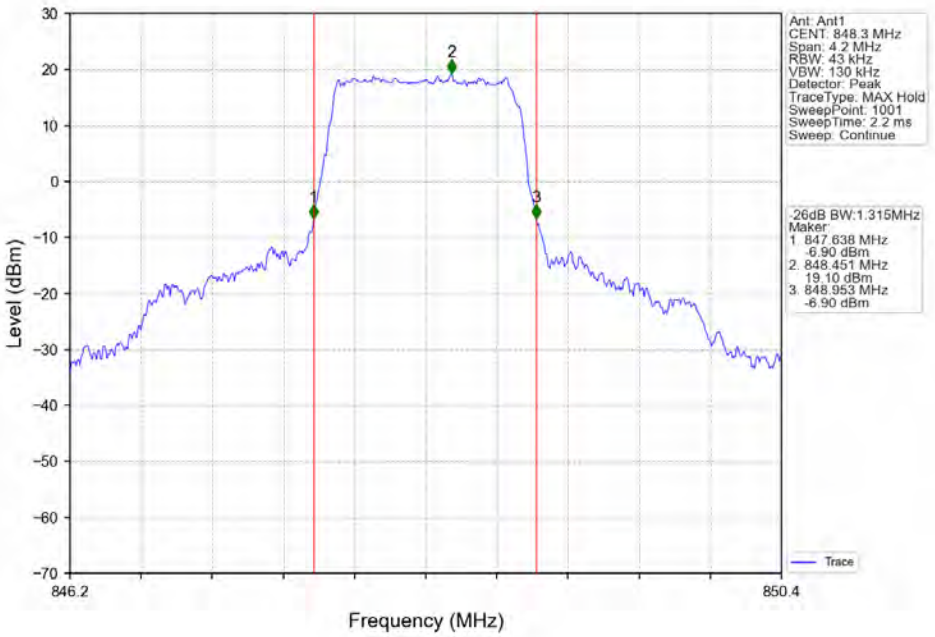
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



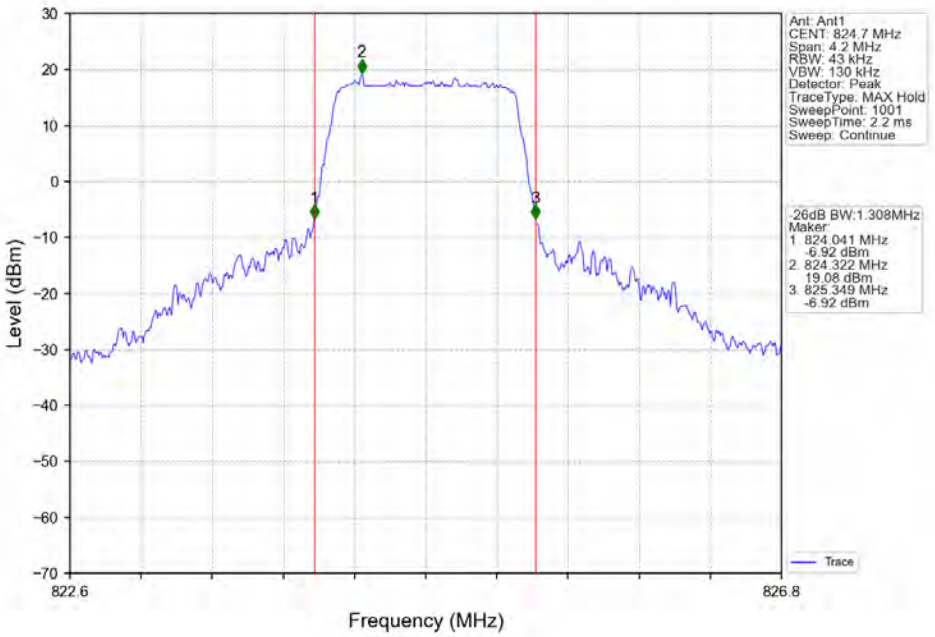

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



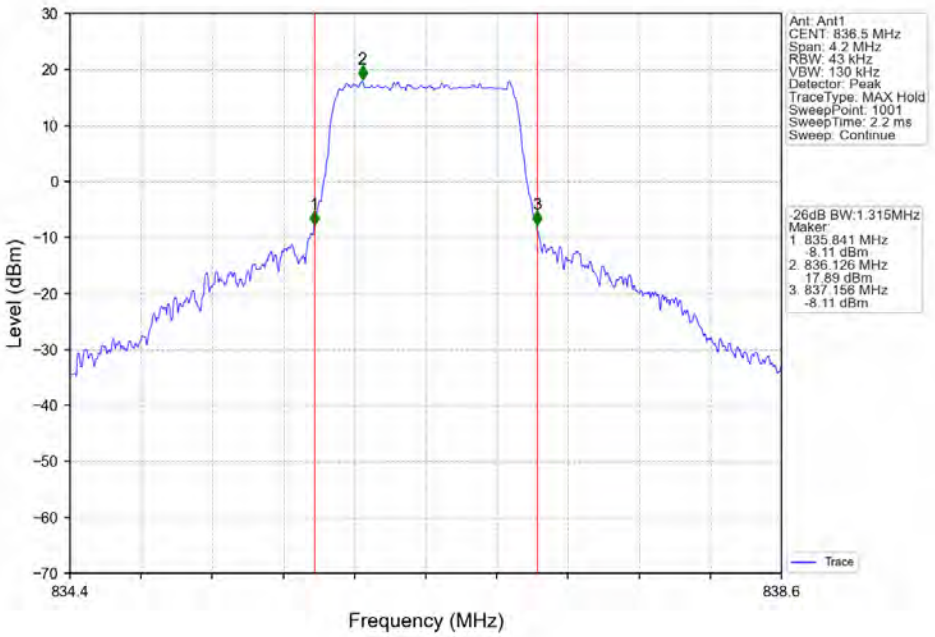
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



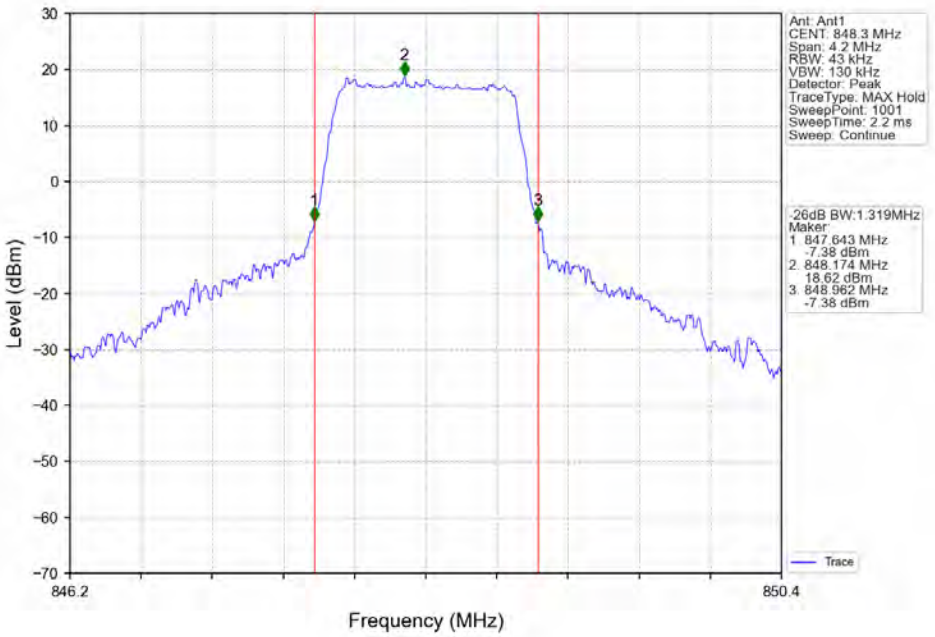

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



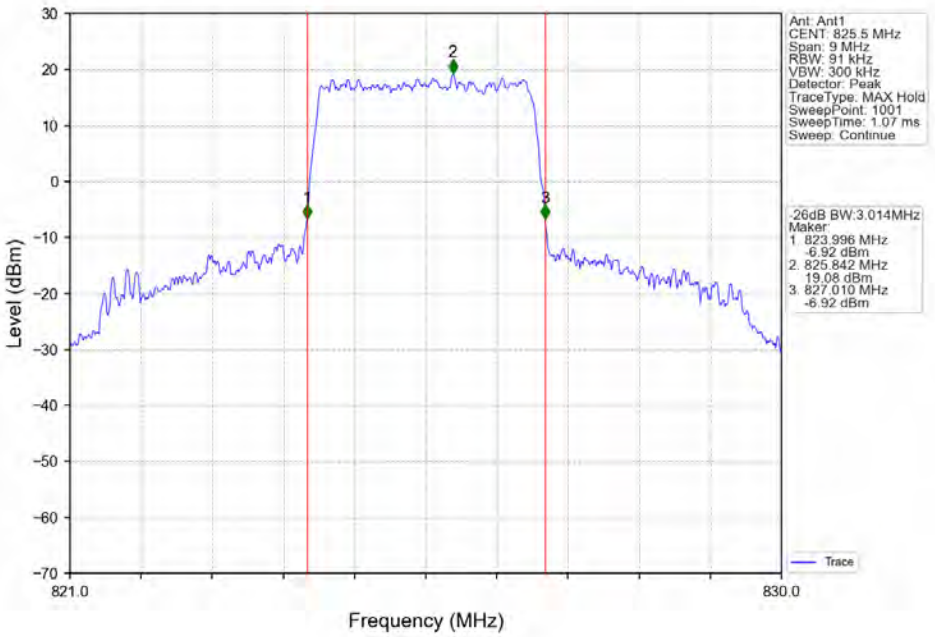
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



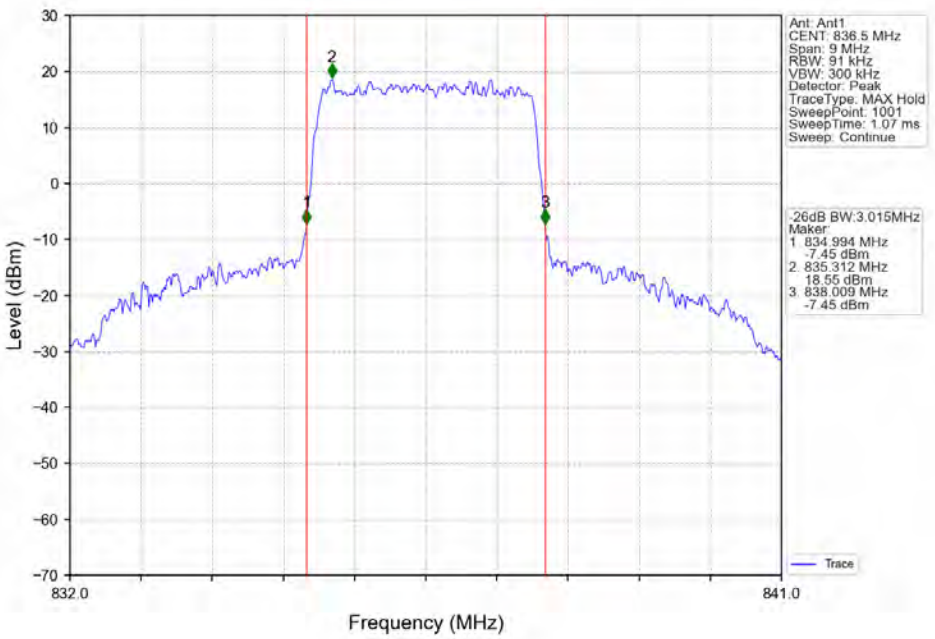

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



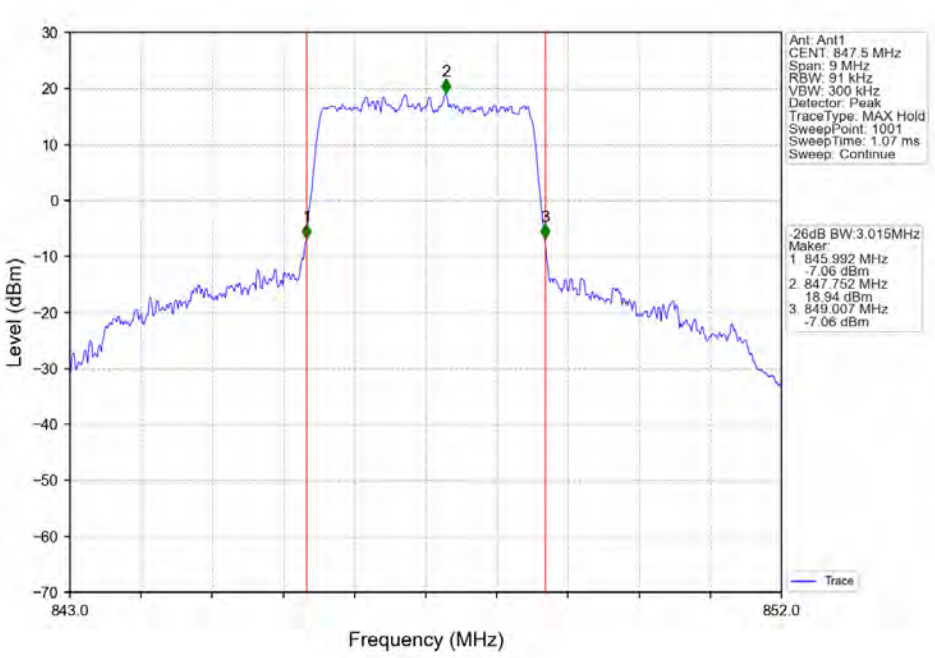
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



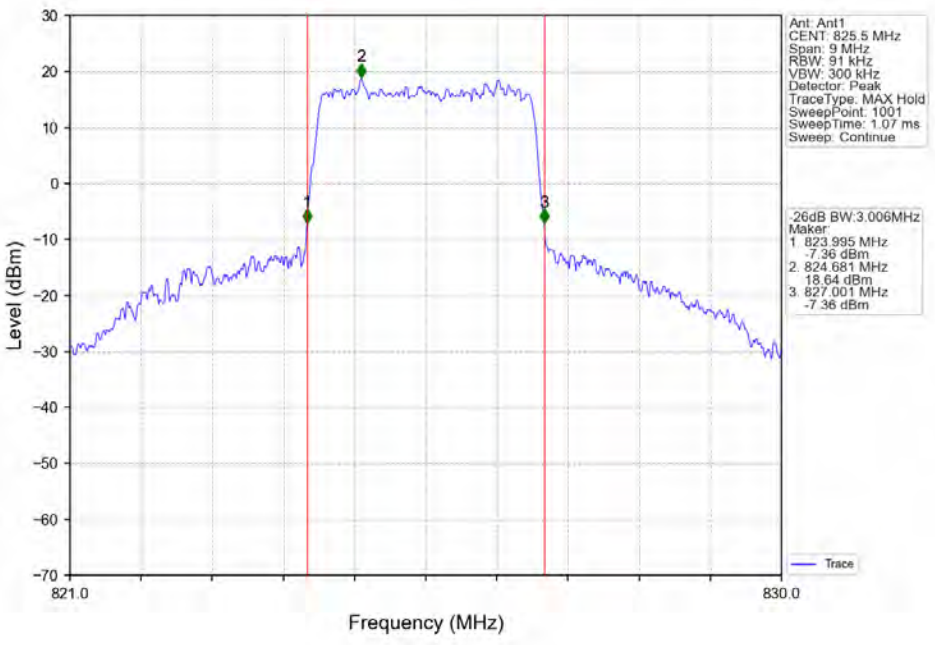

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



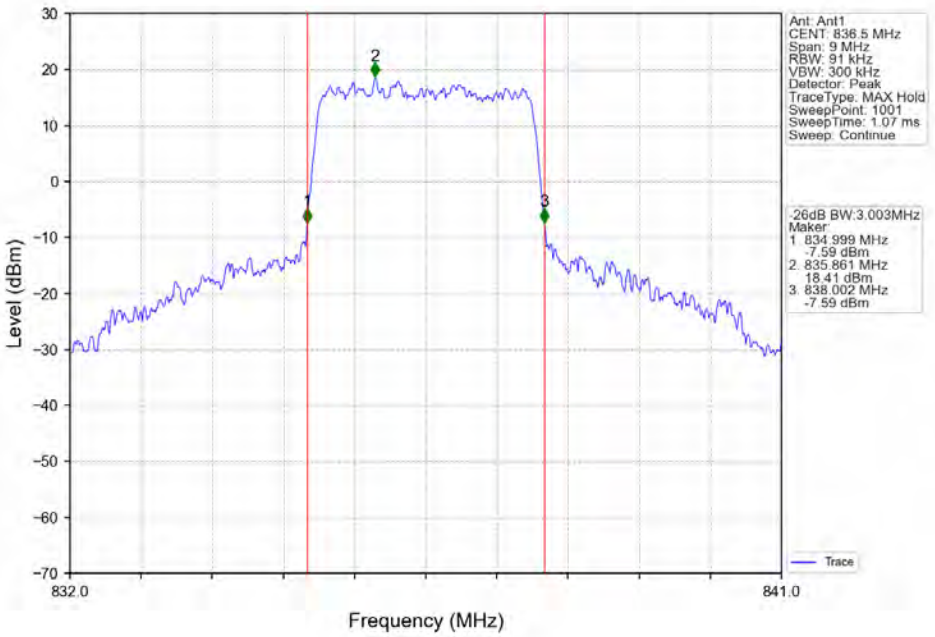
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



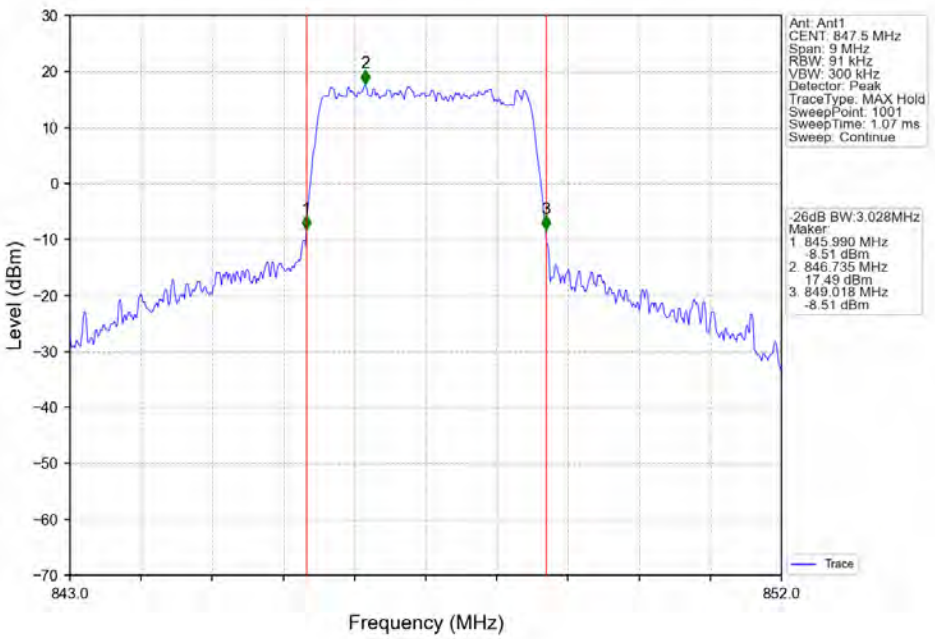

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



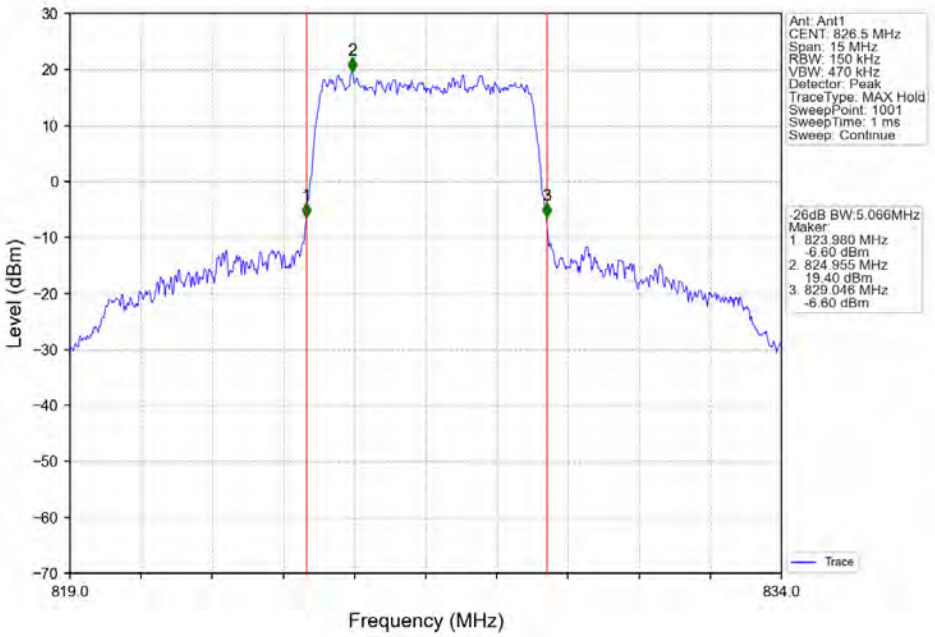
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



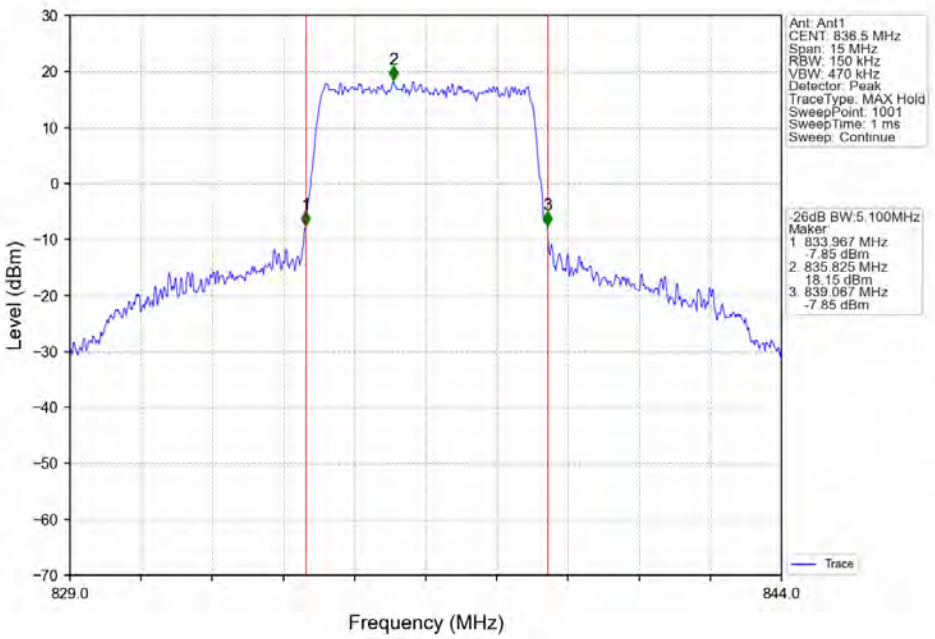

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



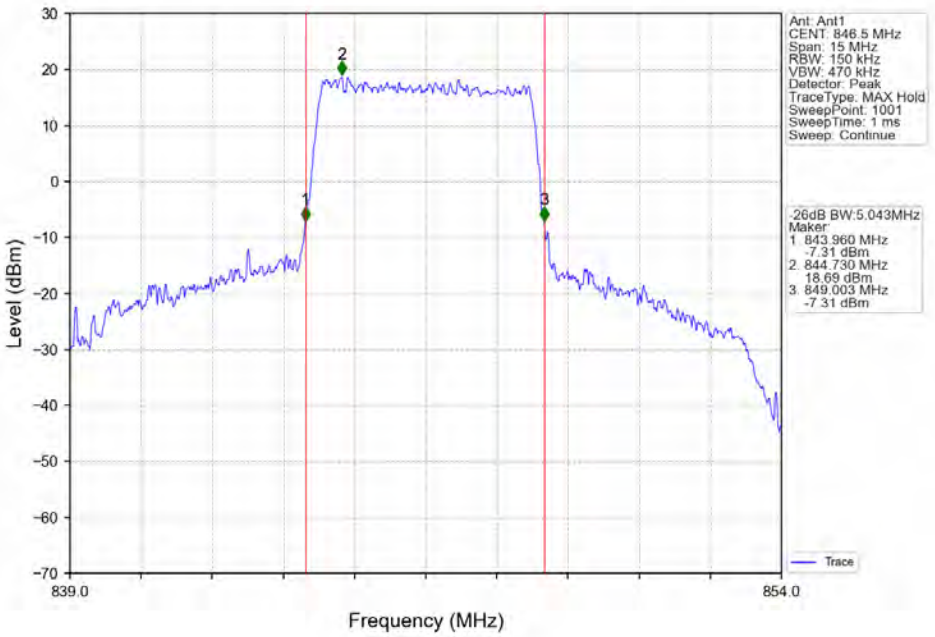
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



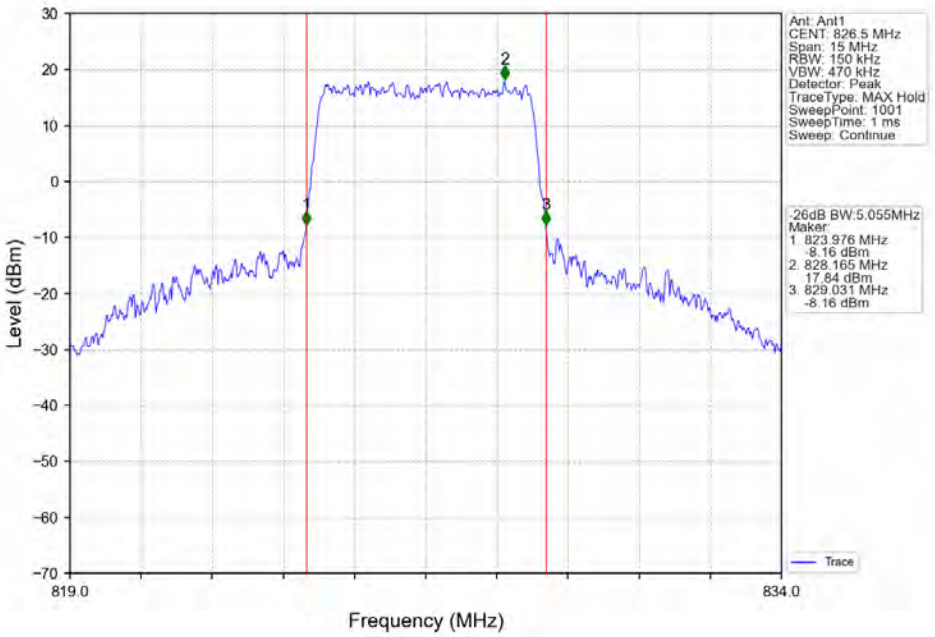

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



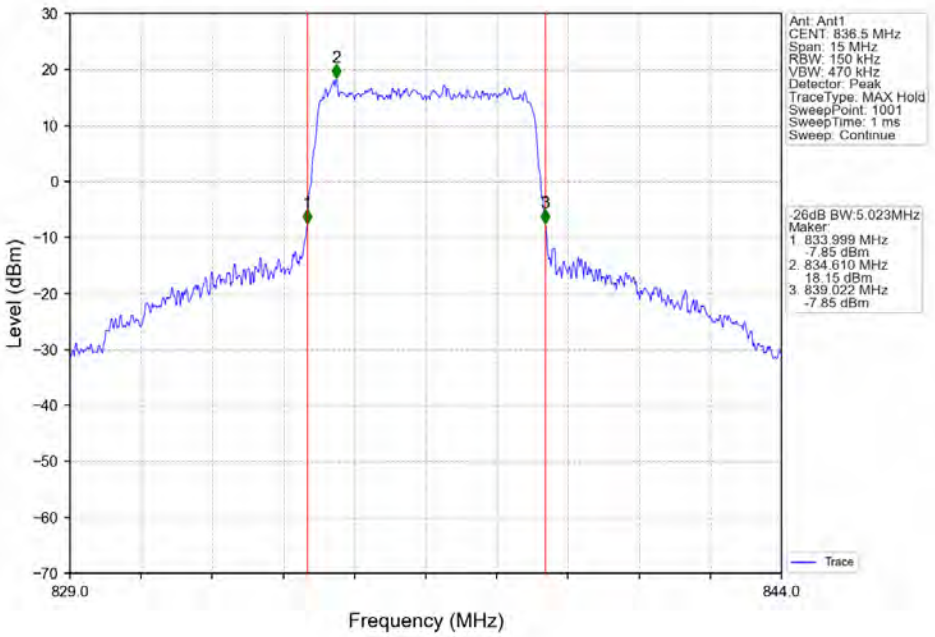
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



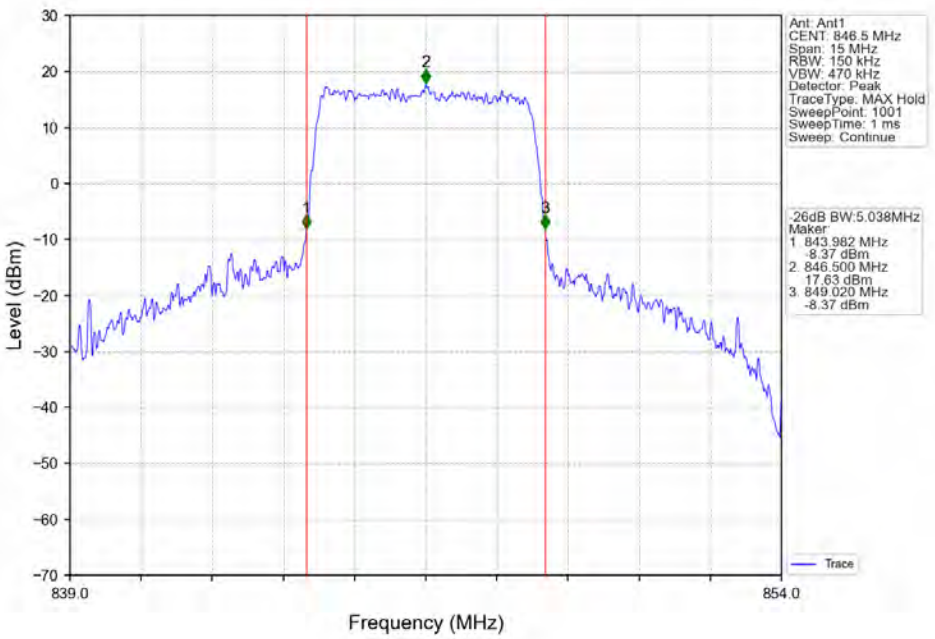

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



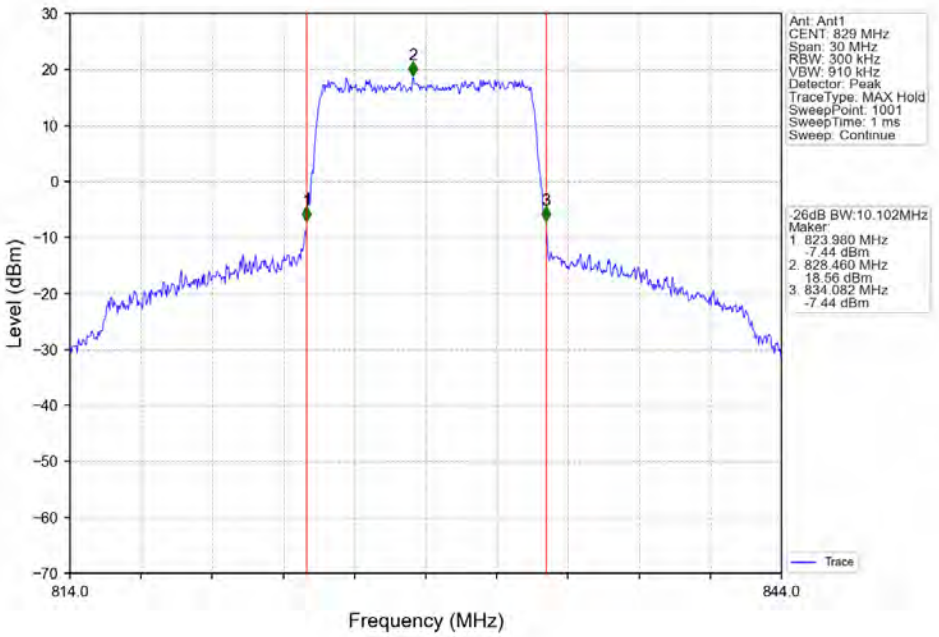
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



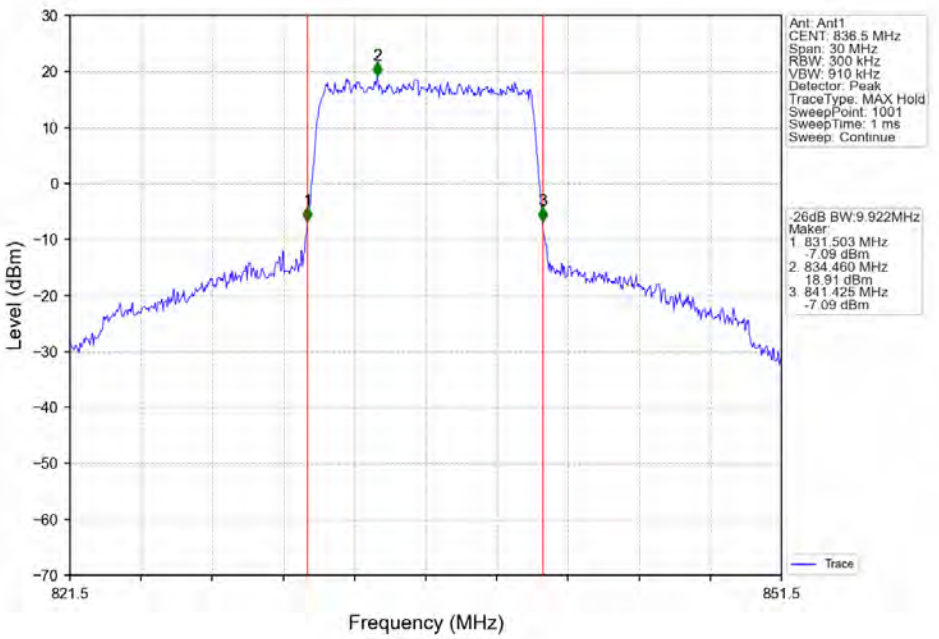

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



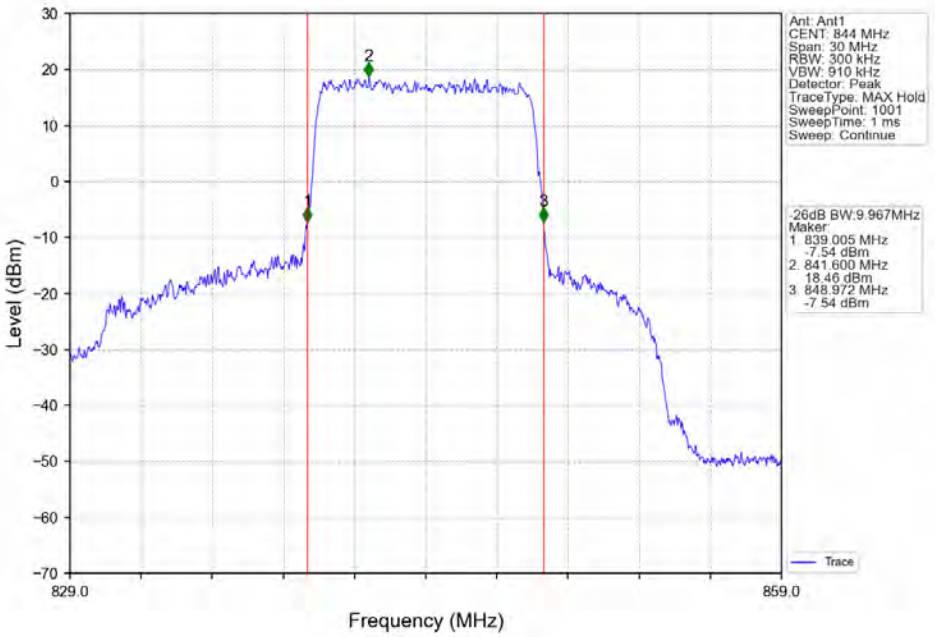
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



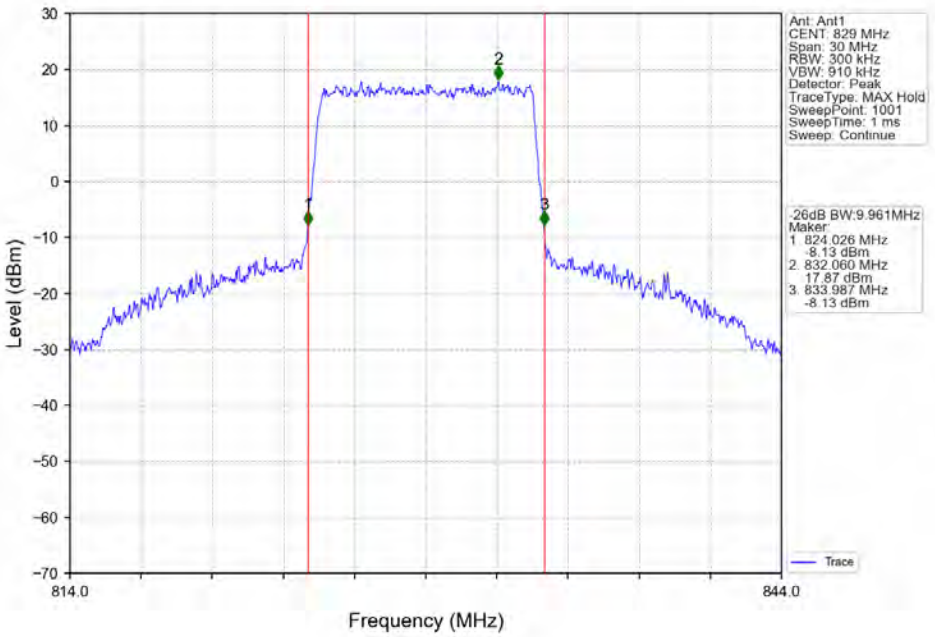

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



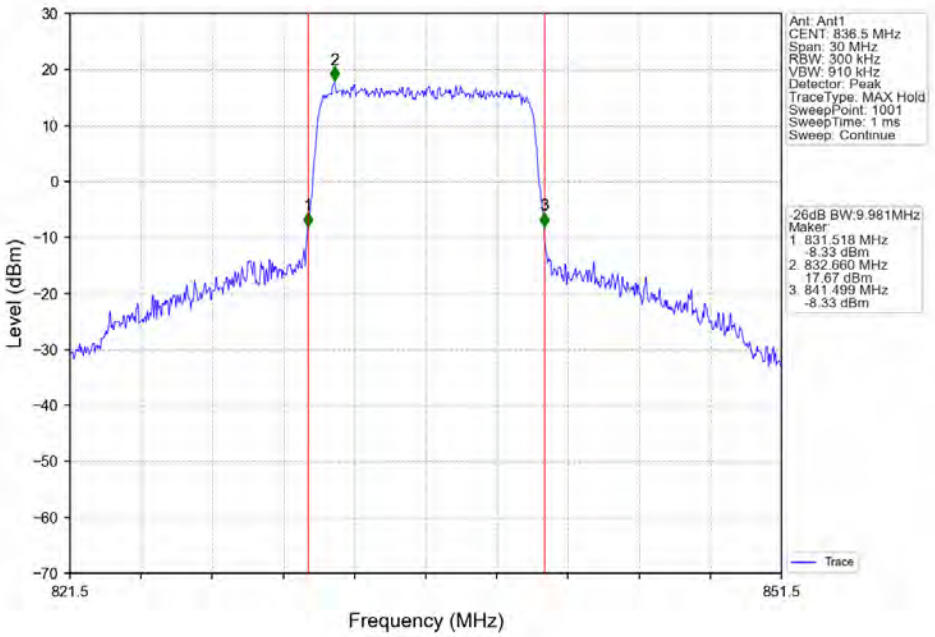
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



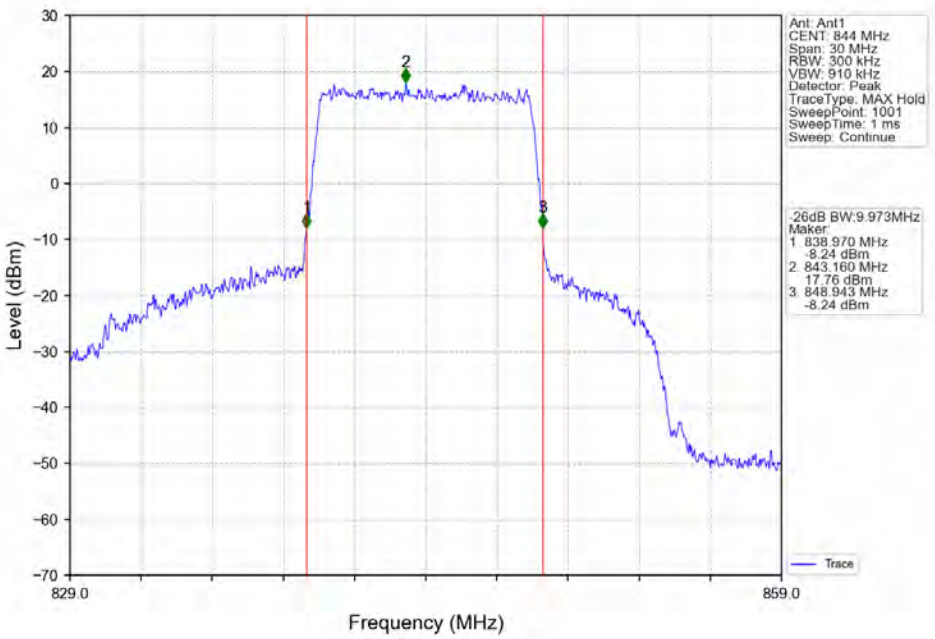

Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



# 5. Peak-Average Ratio

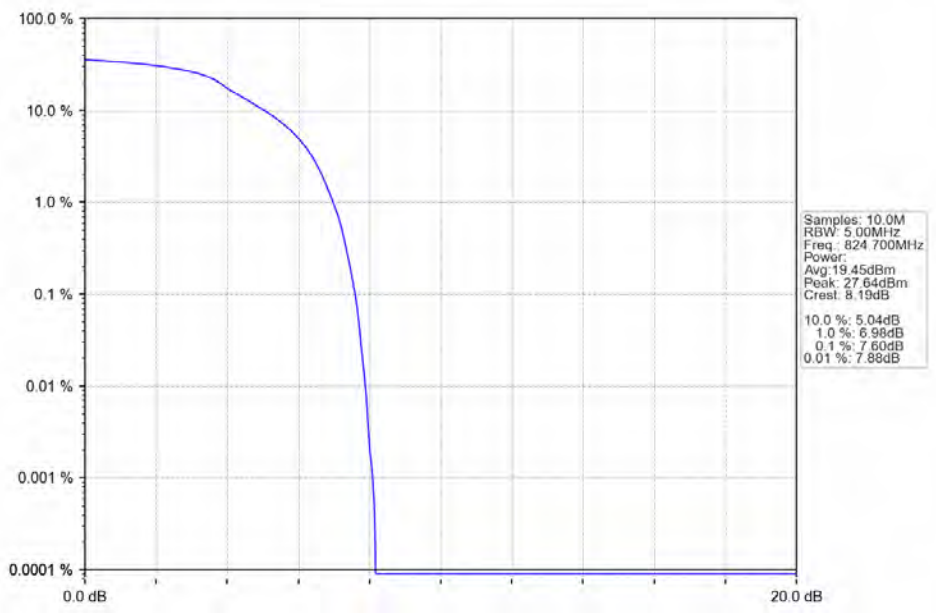
## 5.1 B5_1.4MHz

### 5.1.1 Test Result

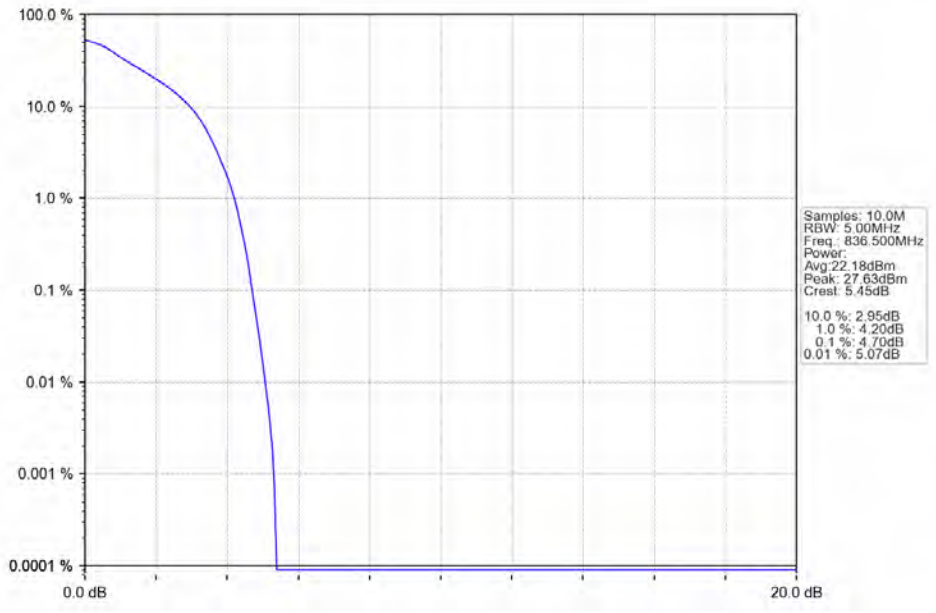
| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 824.7 | 6 | 0 | 7.60 | <=13 | Pass |
| | 836.5 | 6 | 0 | 4.70 | <=13 | Pass |
| | 848.3 | 6 | 0 | 6.53 | <=13 | Pass |
| 16QAM | 824.7 | 6 | 0 | 8.89 | <=13 | Pass |
| | 836.5 | 6 | 0 | 8.40 | <=13 | Pass |
| | 848.3 | 6 | 0 | 7.82 | <=13 | Pass |

## 5.1.2 Test Graph

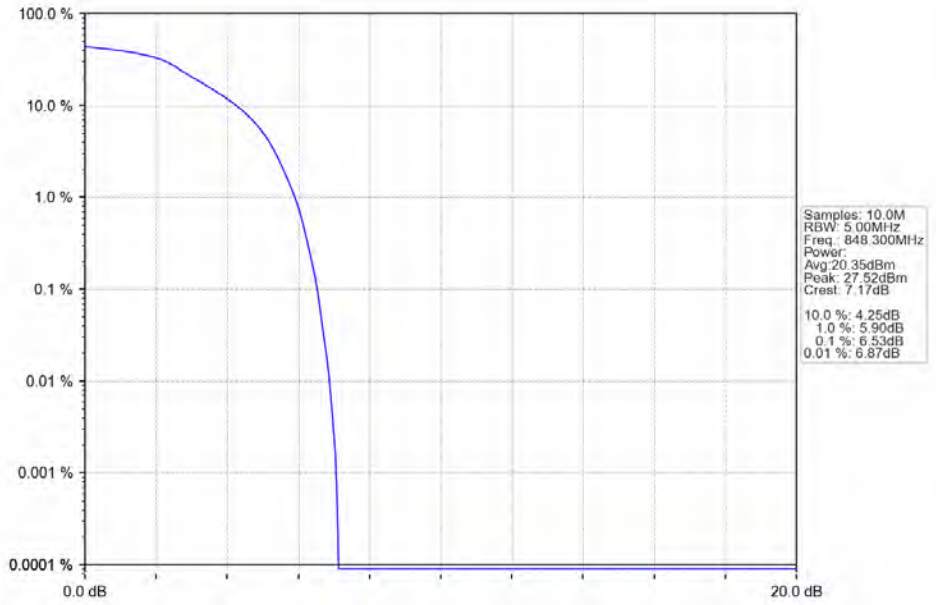
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



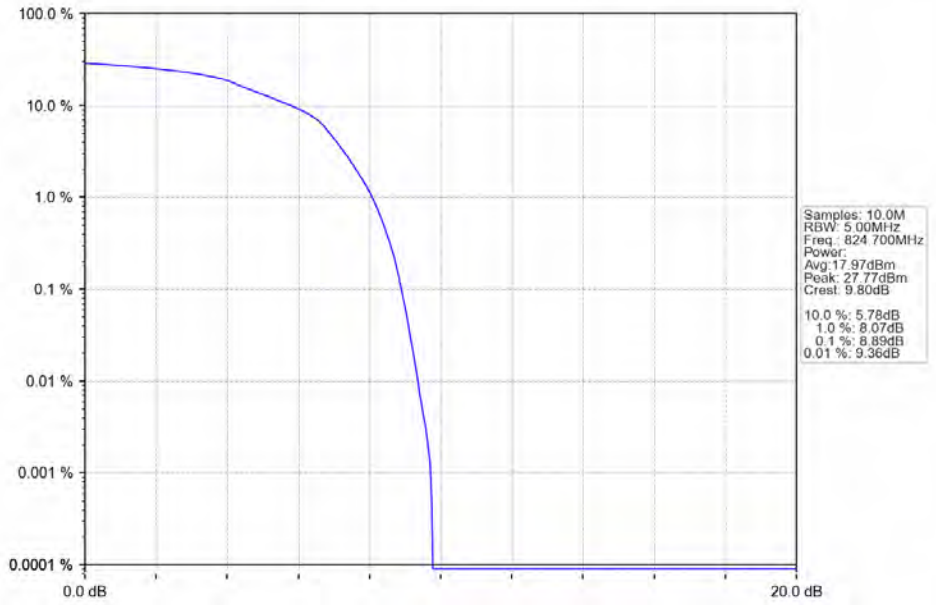

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



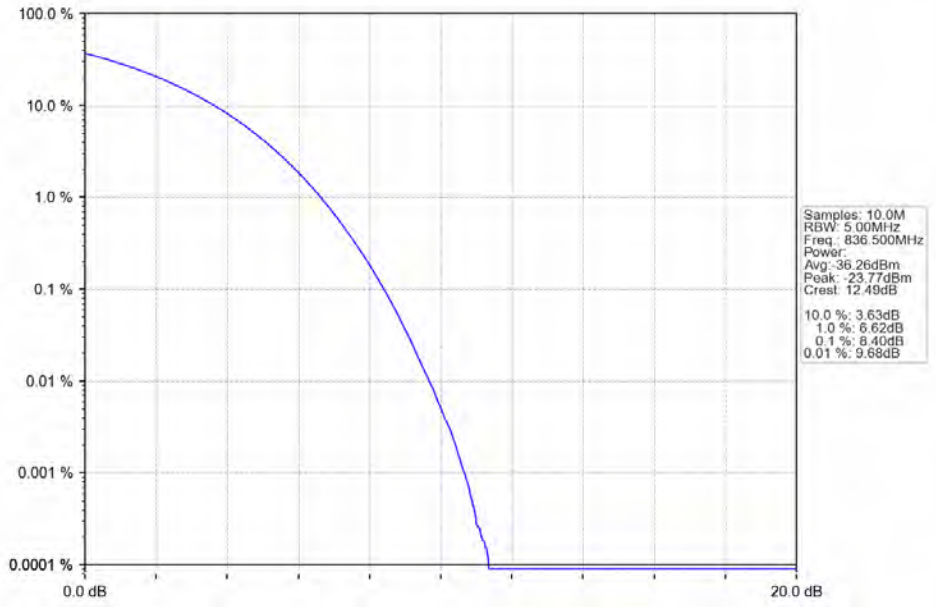
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



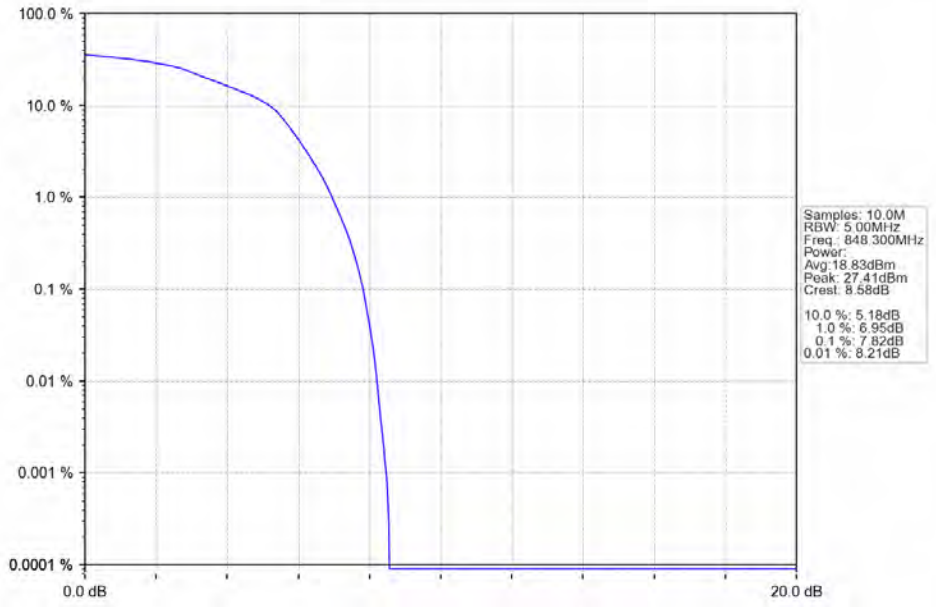

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV




Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



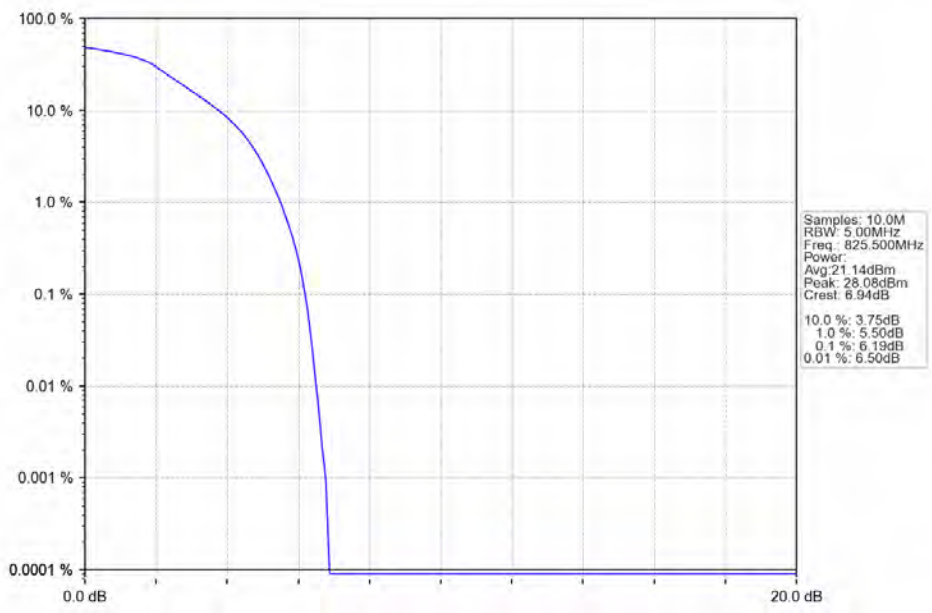
## 5.2 B5_3MHz

### 5.2.1 Test Result

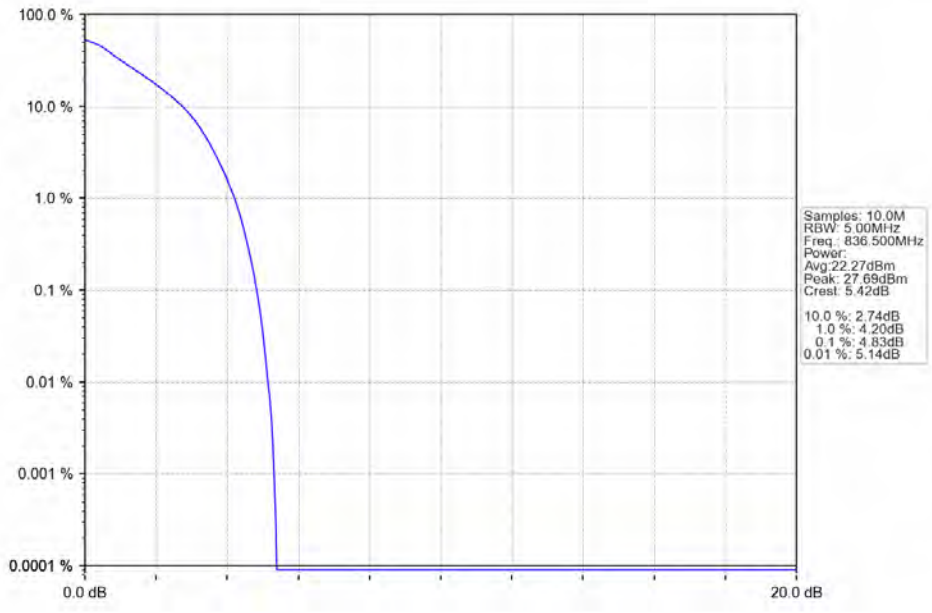
| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 825.5 | 15 | 0 | 6.19 | <=13 | Pass |
| | 836.5 | 15 | 0 | 4.83 | <=13 | Pass |
| | 847.5 | 15 | 0 | 4.43 | <=13 | Pass |
| 16QAM | 825.5 | 15 | 0 | 8.26 | <=13 | Pass |
| | 836.5 | 15 | 0 | 8.39 | <=13 | Pass |
| | 847.5 | 15 | 0 | 5.22 | <=13 | Pass |

## 5.2.2 Test Graph

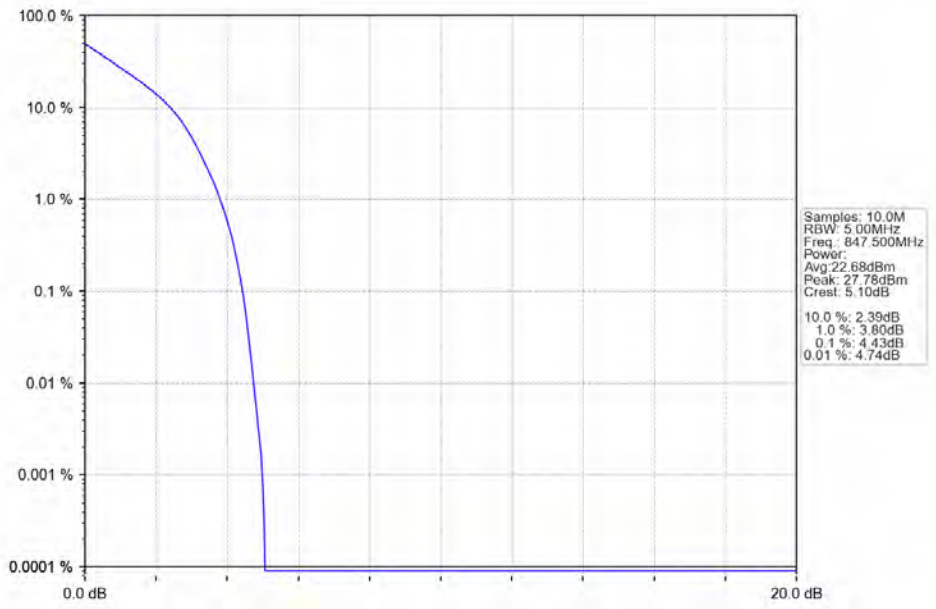
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



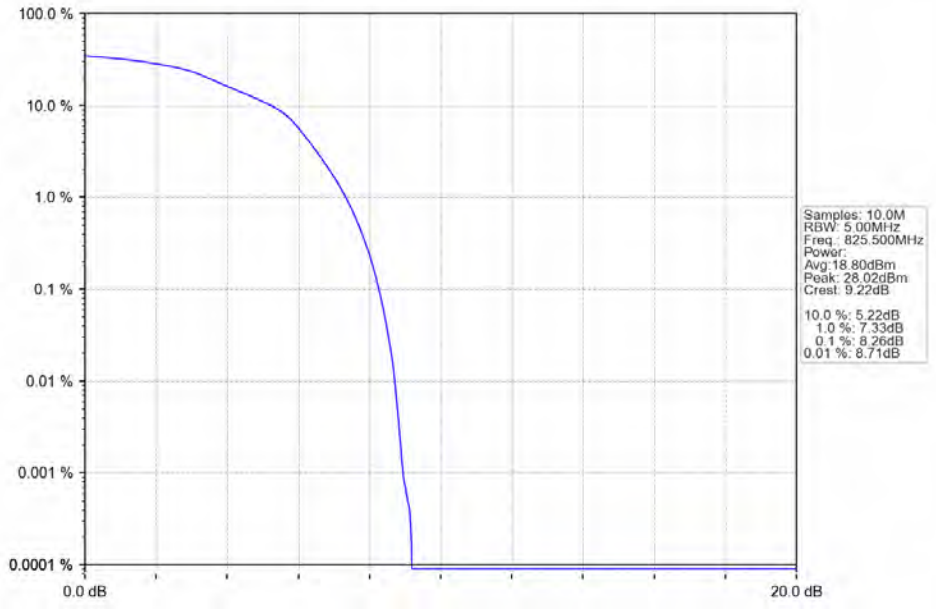

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



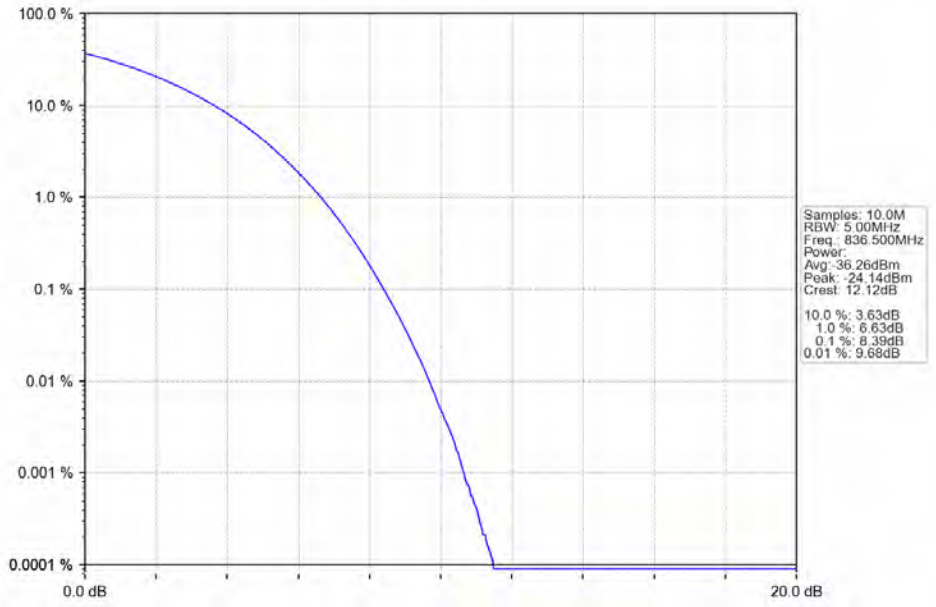
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



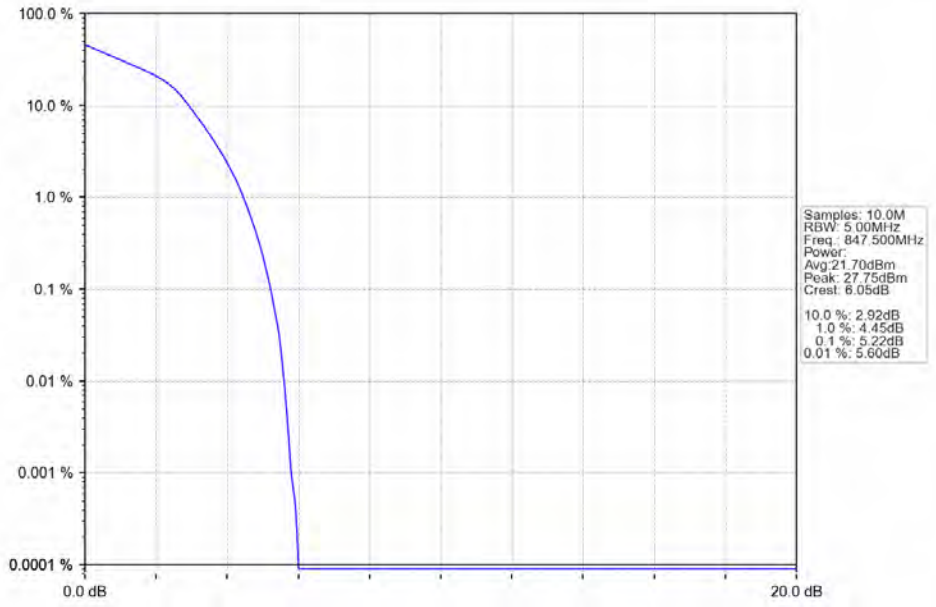

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV




Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



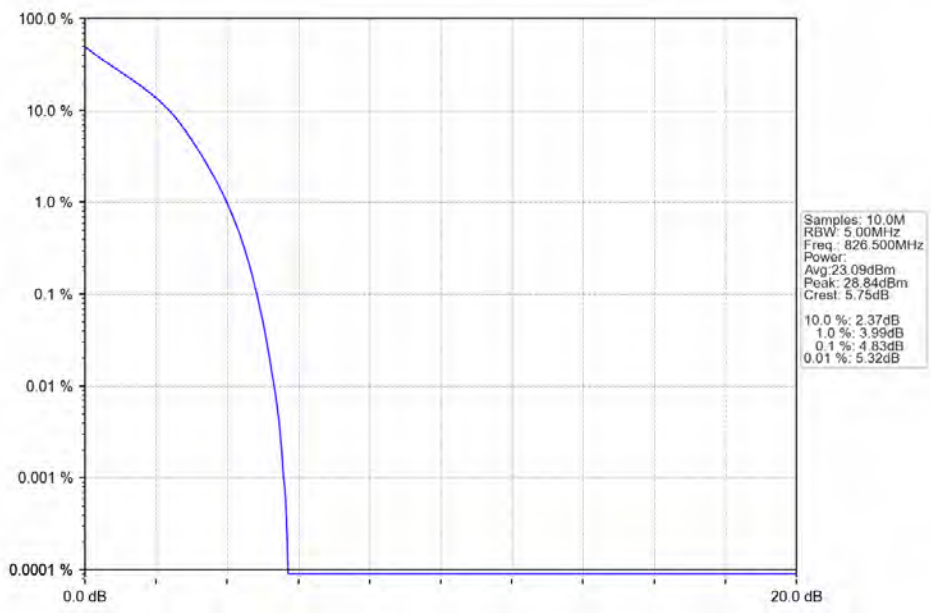
## 5.3 B5_5MHz

### 5.3.1 Test Result

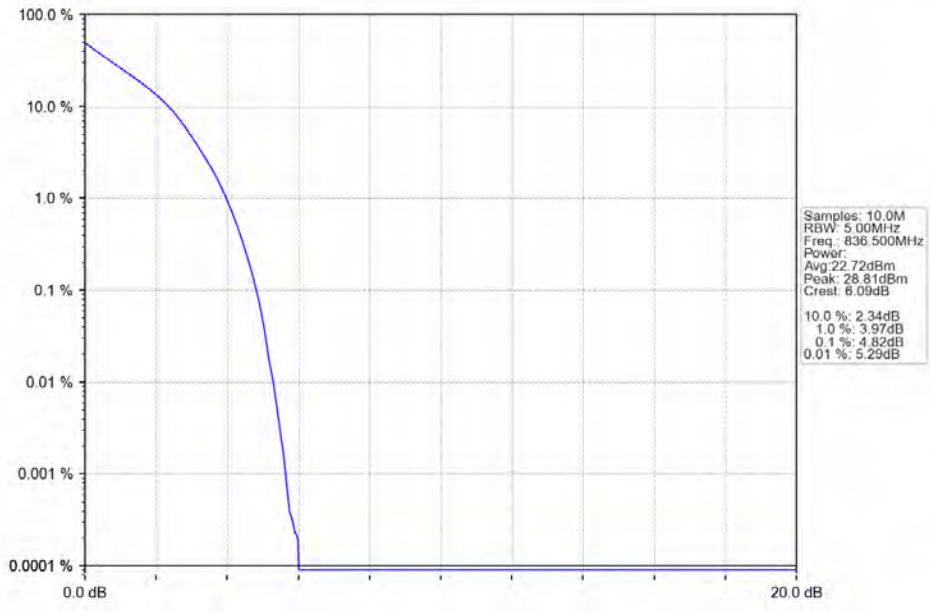
| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 826.5 | 25 | 0 | 4.83 | <=13 | Pass |
| | 836.5 | 25 | 0 | 4.82 | <=13 | Pass |
| | 846.5 | 25 | 0 | 4.80 | <=13 | Pass |
| 16QAM | 826.5 | 25 | 0 | 5.51 | <=13 | Pass |
| | 836.5 | 25 | 0 | 5.52 | <=13 | Pass |
| | 846.5 | 25 | 0 | 5.53 | <=13 | Pass |

## 5.3.2 Test Graph

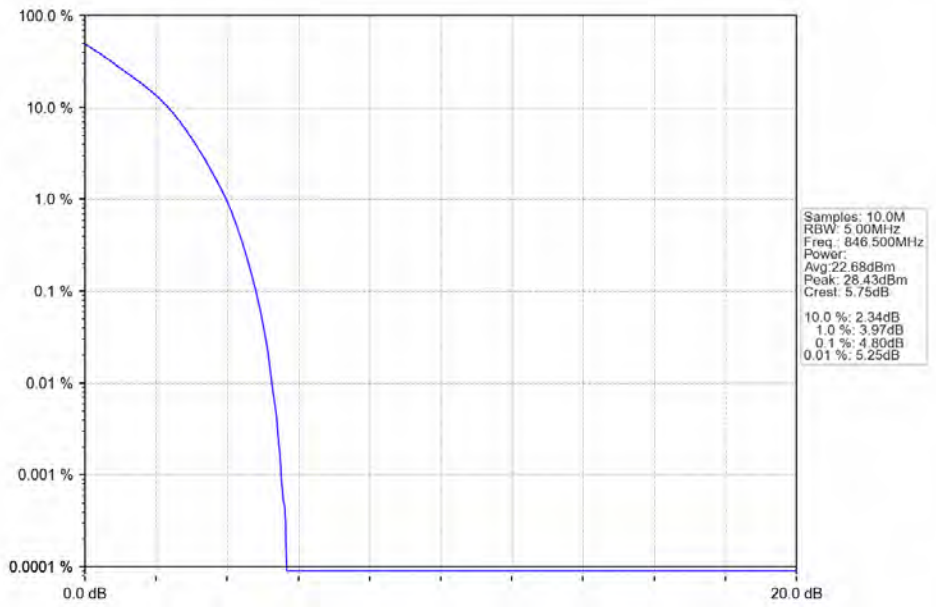
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



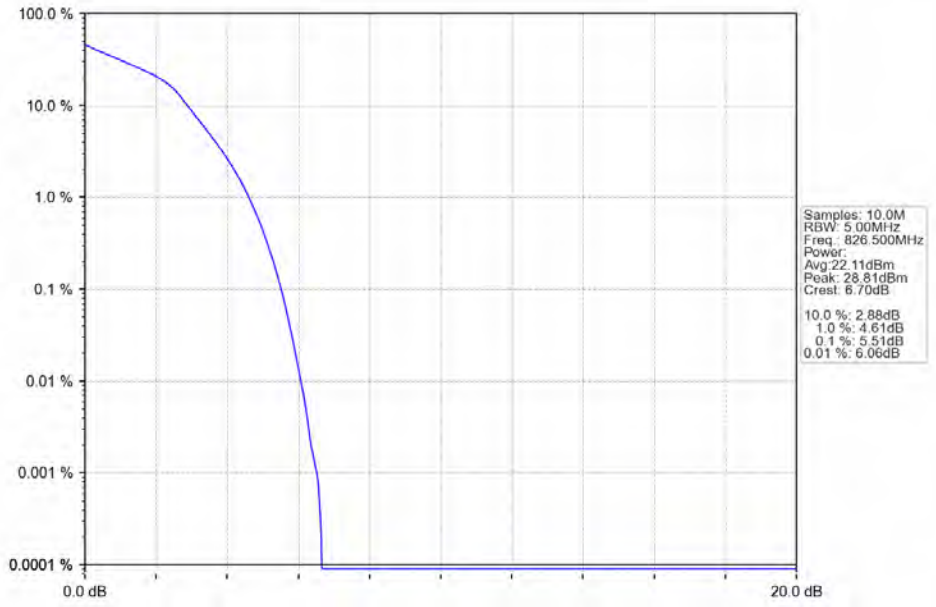

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



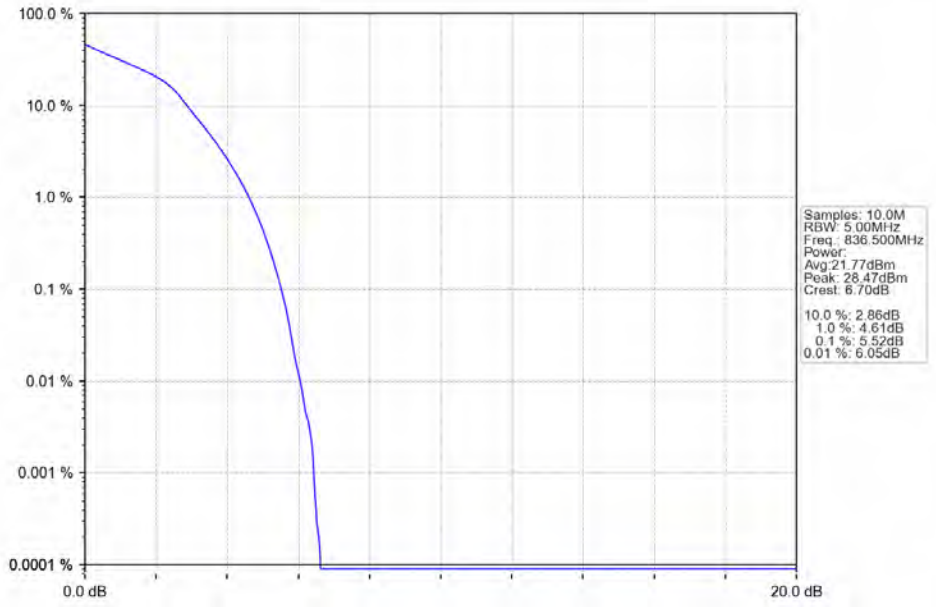
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



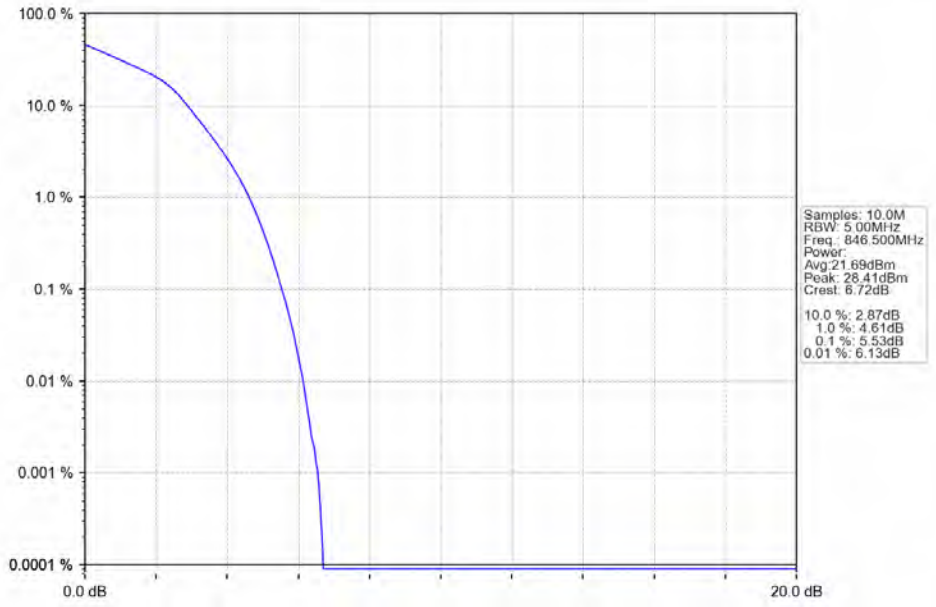

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV




Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



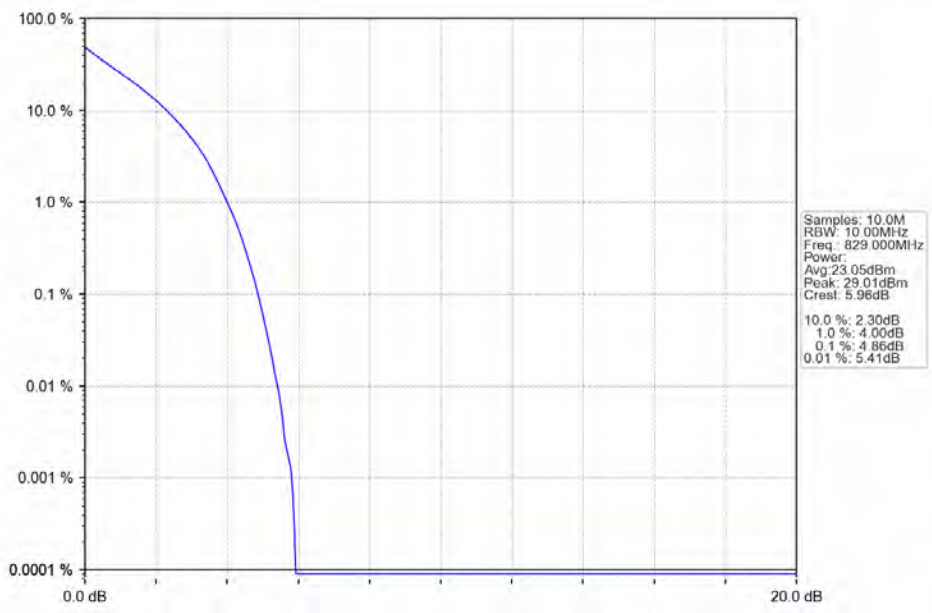
## 5.4 B5_10MHz

### 5.4.1 Test Result

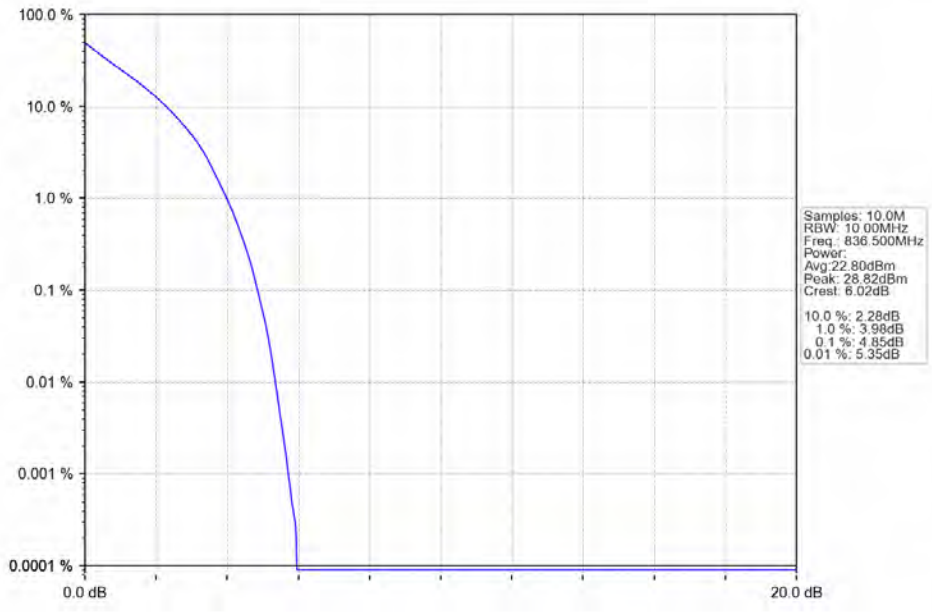
| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 829 | 50 | 0 | 4.86 | <=13 | Pass |
| | 836.5 | 50 | 0 | 4.85 | <=13 | Pass |
| | 844 | 50 | 0 | 4.88 | <=13 | Pass |
| 16QAM | 829 | 50 | 0 | 5.62 | <=13 | Pass |
| | 836.5 | 50 | 0 | 5.62 | <=13 | Pass |
| | 844 | 50 | 0 | 5.68 | <=13 | Pass |

## 5.4.2 Test Graph

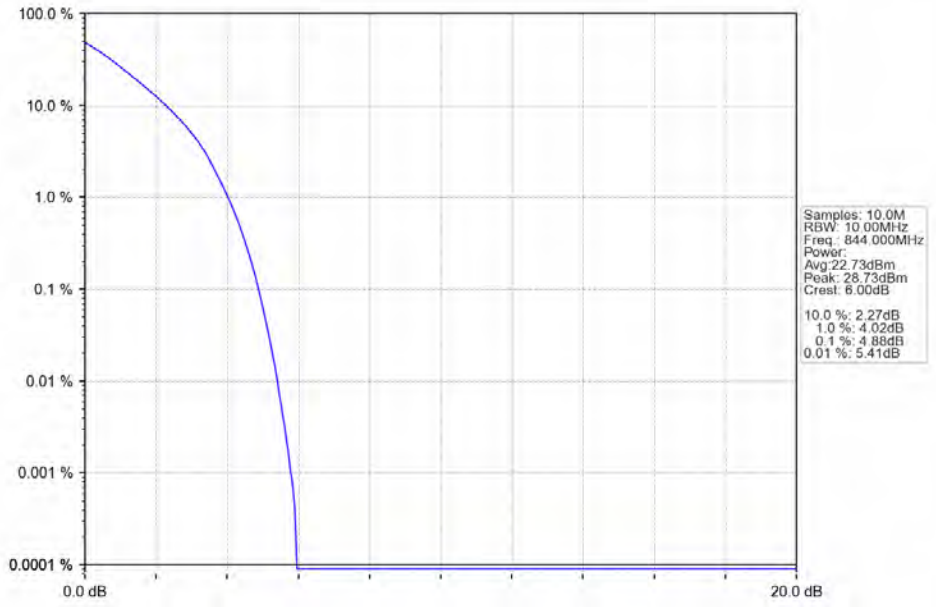
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



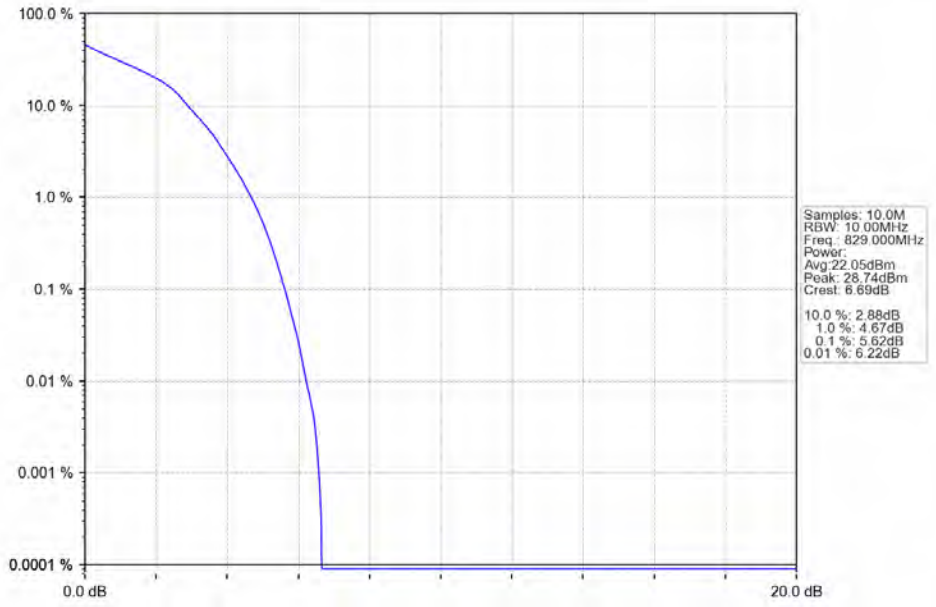

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



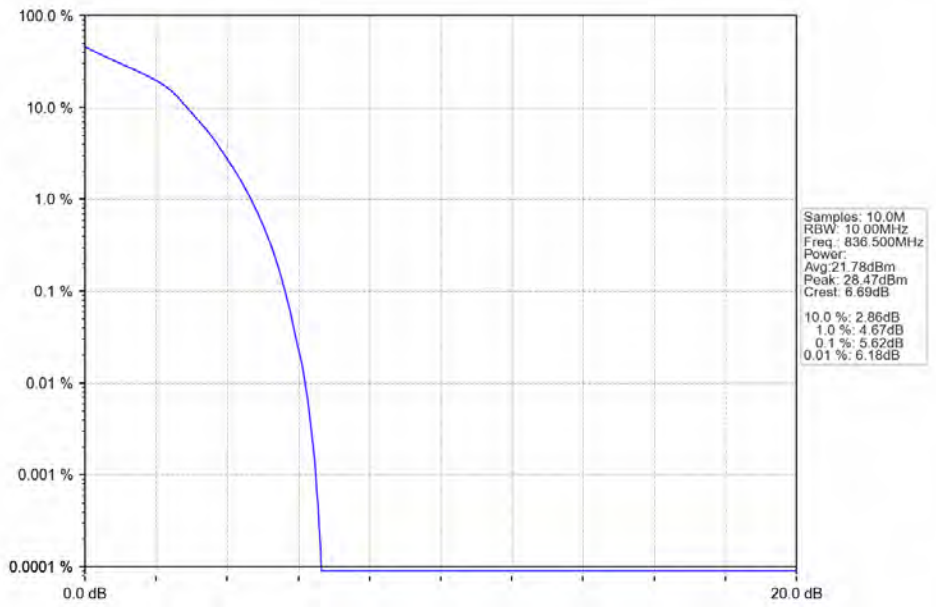
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



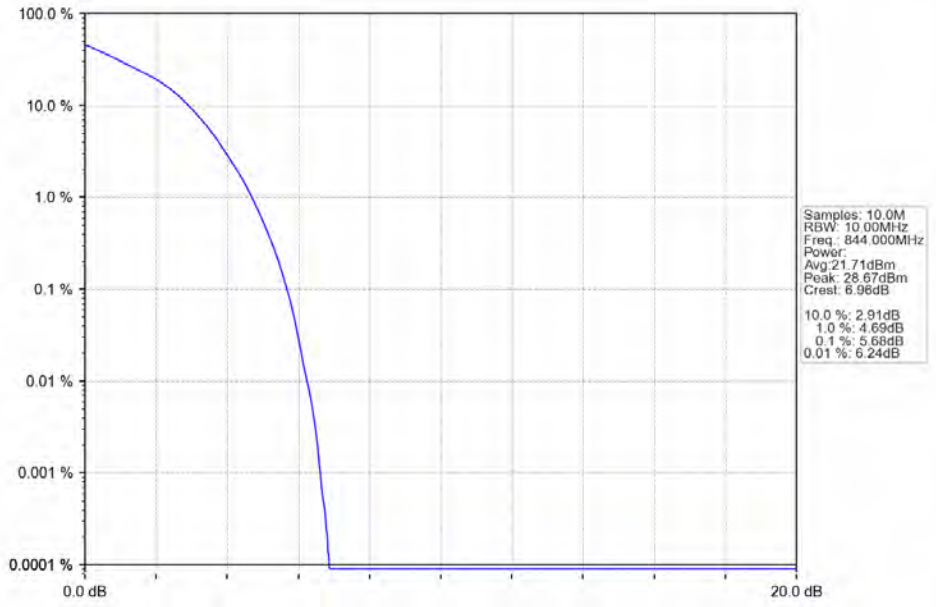

Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



# 6. Spurious Emission

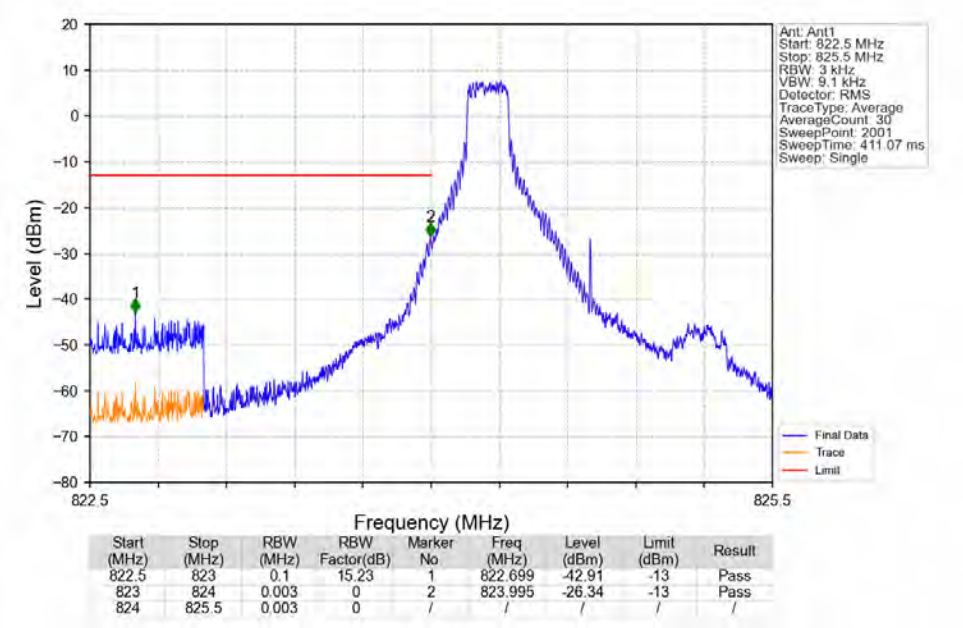
## 6.1 B5_1.4MHz

### 6.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 824.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 848.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 824.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 848.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

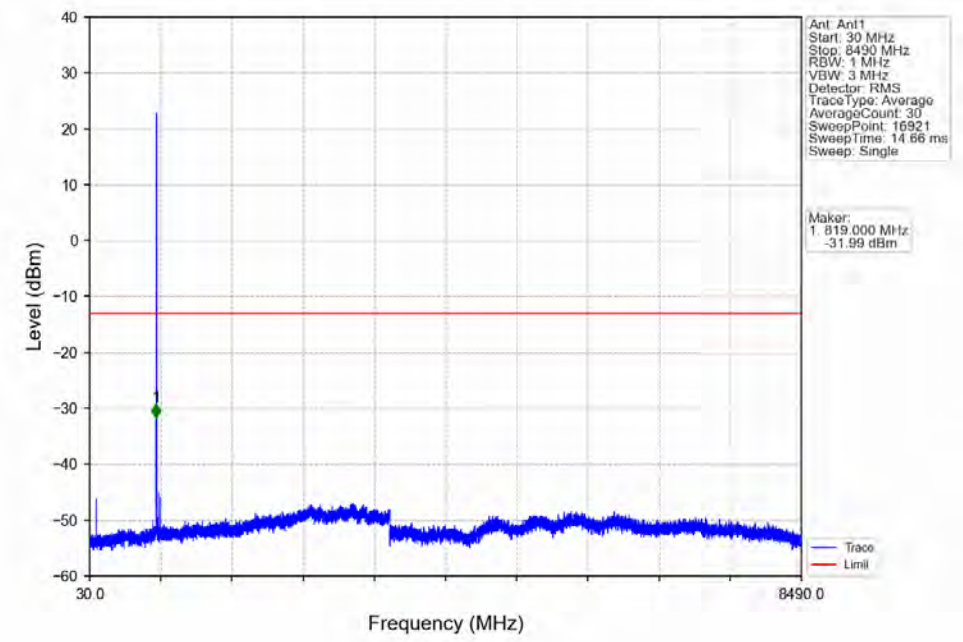
## 6.1.2 Test Graph

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

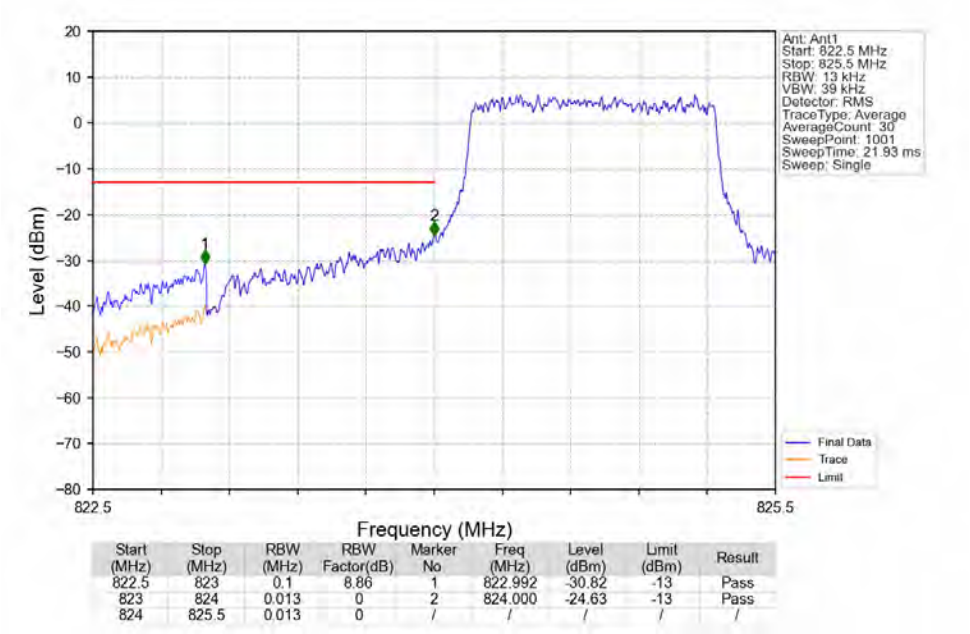



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | 15.23 | 1 | 822.699 | -42.91 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 823.995 | -26.34 | -13 | Pass |
| 824 | 825.5 | 0.003 | 0 | / | / | / | / | / |

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

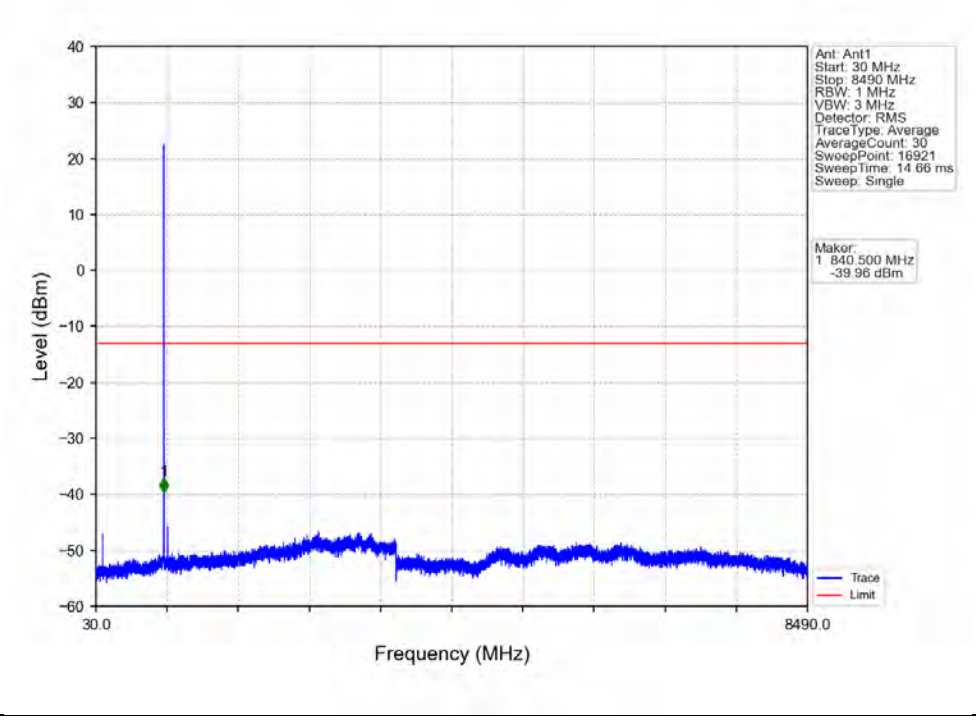


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

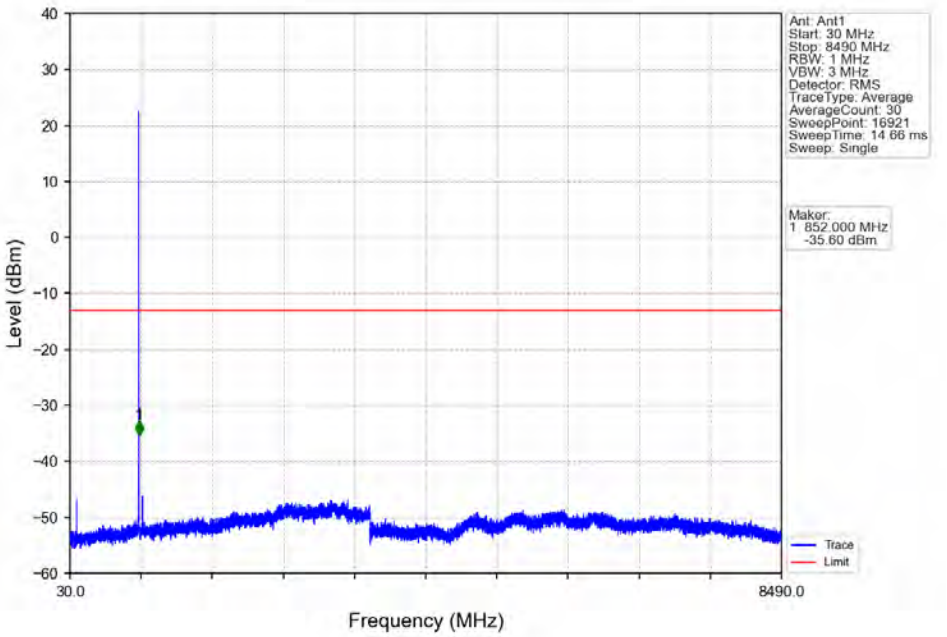



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | 8.86 | 1 | 822.992 | -30.82 | -13 | Pass |
| 823 | 824 | 0.013 | 0 | 2 | 824.000 | -24.63 | -13 | Pass |
| 824 | 825.5 | 0.013 | 0 | / | / | / | / | / |

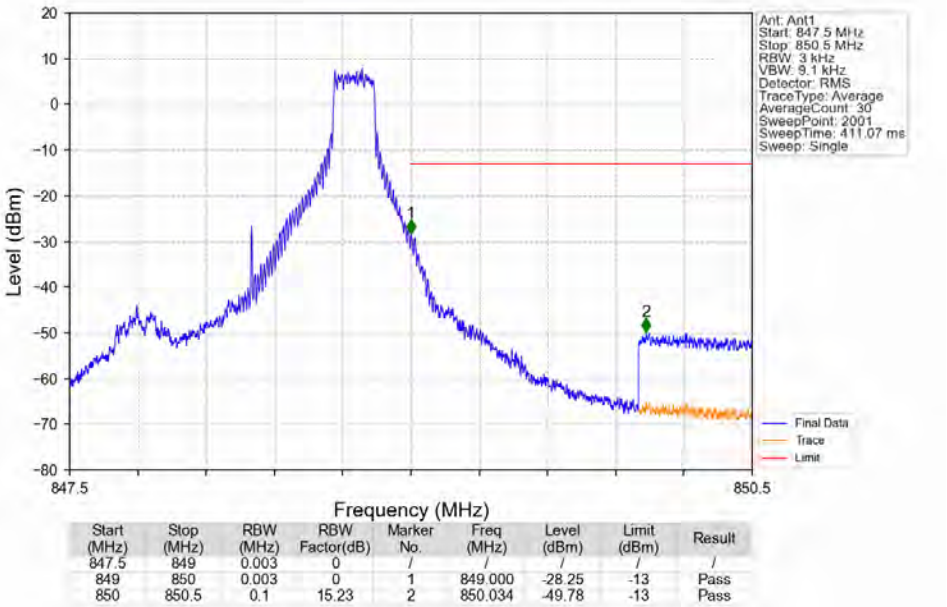
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV

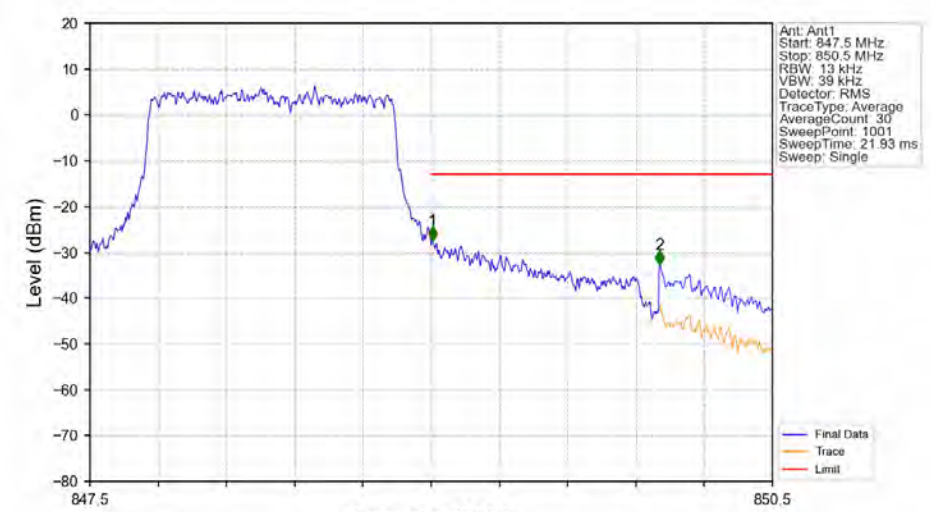



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



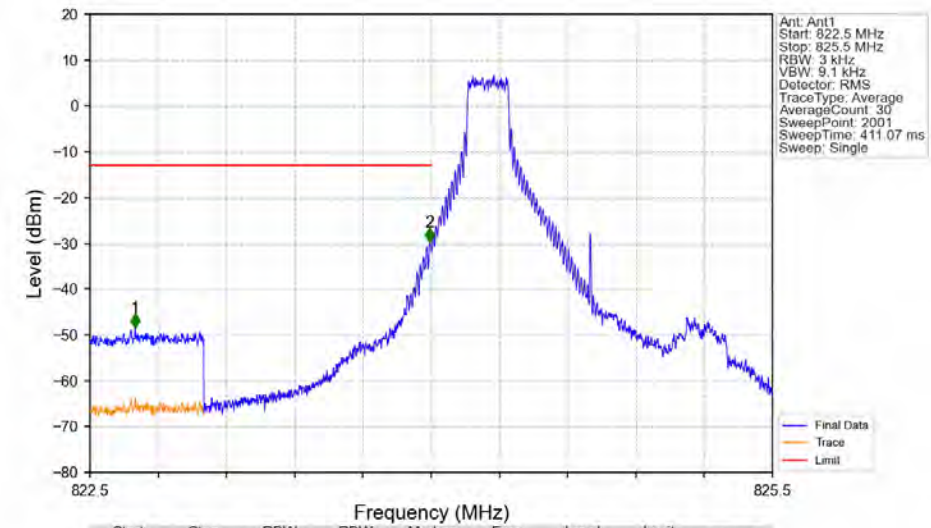

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.000 | -28.25 | -13 | Pass |
| 850 | 850.5 | 0.1 | 15.23 | 2 | 850.034 | -49.78 | -13 | Pass |

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



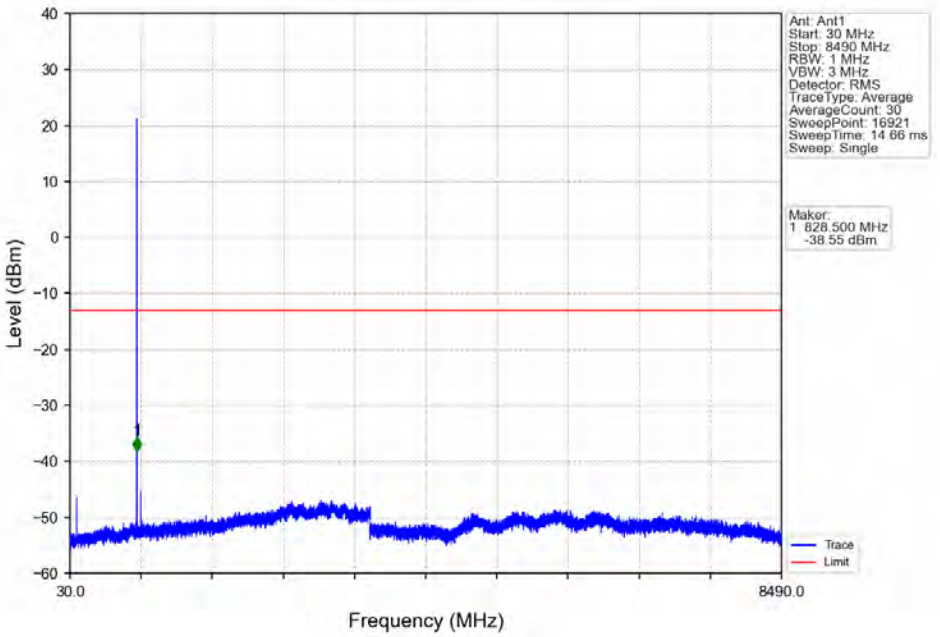

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.013 | 0 | / | / | / | / | / |
| 849 | 850 | 0.013 | 0 | 1 | 849.006 | -27.39 | -13 | Pass |
| 850 | 850.5 | 0.1 | 8.86 | 2 | 850.005 | -32.71 | -13 | Pass |

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

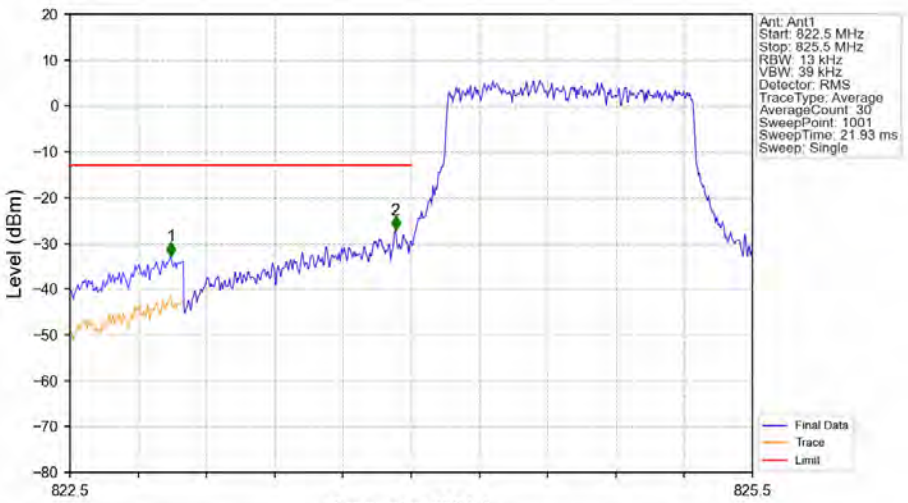



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | 15.23 | 1 | 822.698 | -48.49 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 823.994 | -29.73 | -13 | Pass |
| 824 | 825.5 | 0.003 | 0 | / | / | / | / | / |

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

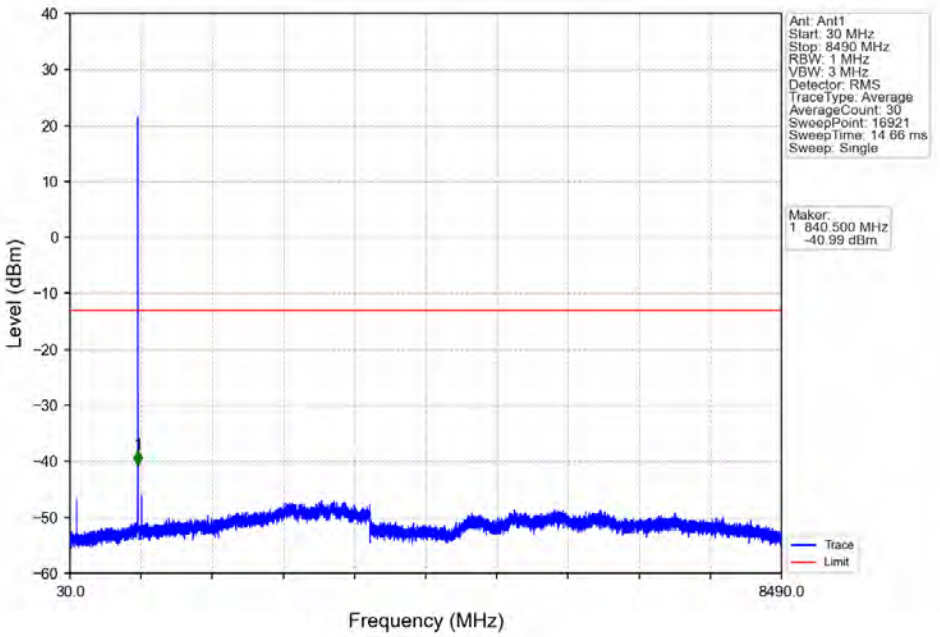



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

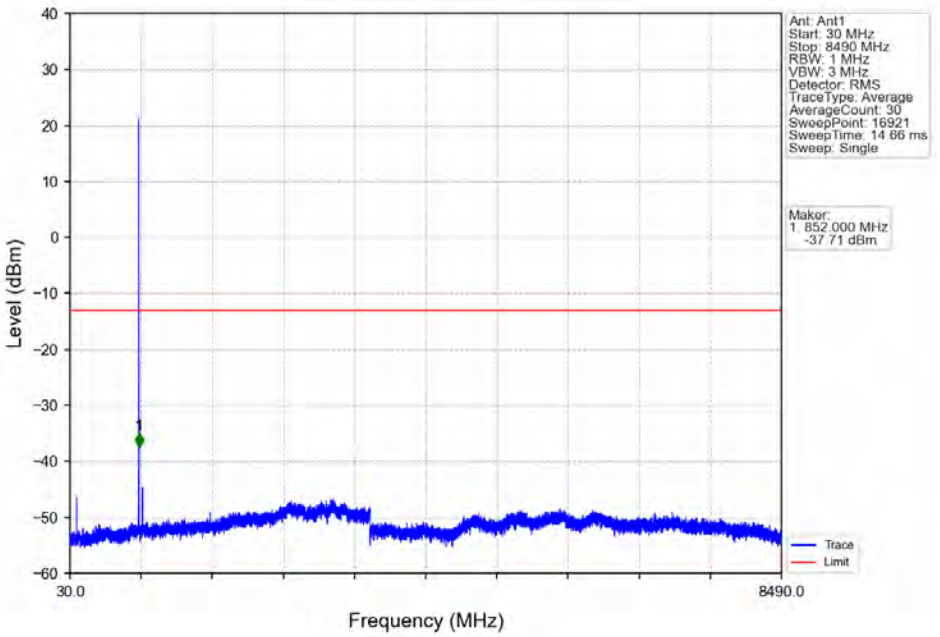



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 822.5 | 823 | 0.1 | 8.86 | 1 | 822.944 | -32.84 | -13 | Pass |
| 823 | 824 | 0.013 | 0 | 2 | 823.931 | -27.13 | -13 | Pass |
| 824 | 825.5 | 0.013 | 0 | / | / | / | / | / |

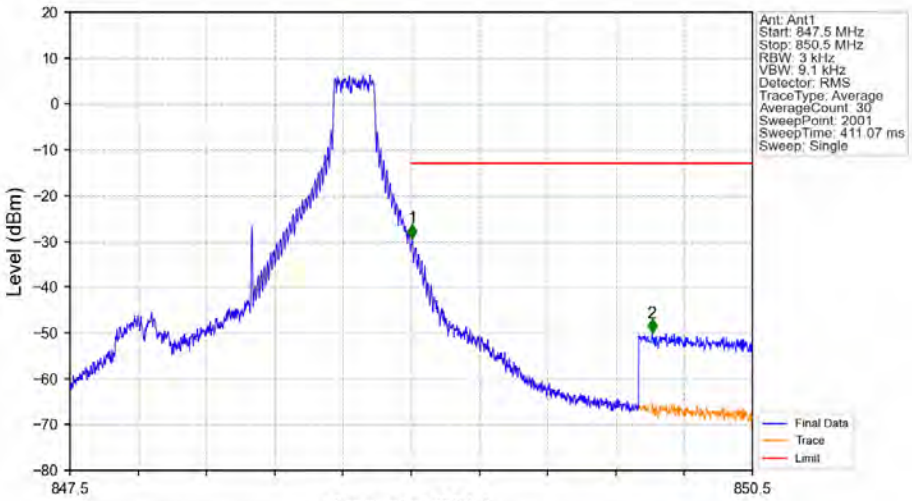
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

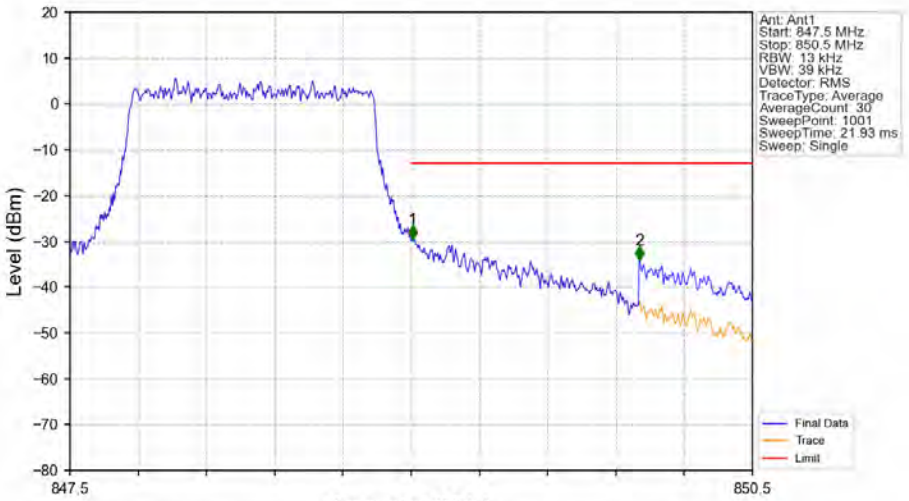


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.005 | -29.30 | -13 | Pass |
| 850 | 850.5 | 0.1 | 15.23 | 2 | 850.059 | -49.97 | -13 | Pass |

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 847.5 | 849 | 0.013 | 0 | / | / | / | / | / |
| 849 | 850 | 0.013 | 0 | 1 | 849.006 | -29.59 | -13 | Pass |
| 850 | 850.5 | 0.1 | 8.86 | 2 | 850.005 | -34.20 | -13 | Pass |

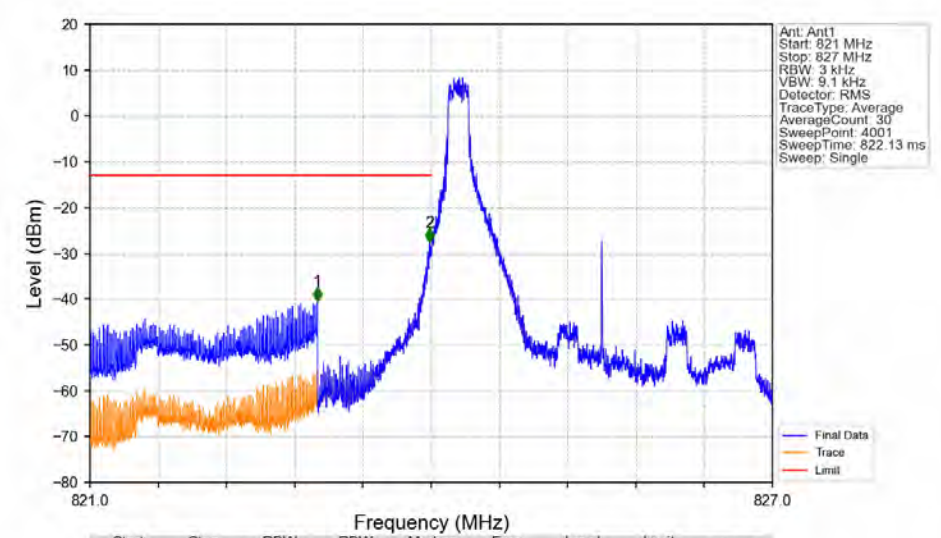
## 6.2 B5_3MHz

### 6.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 825.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 847.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 825.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 847.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

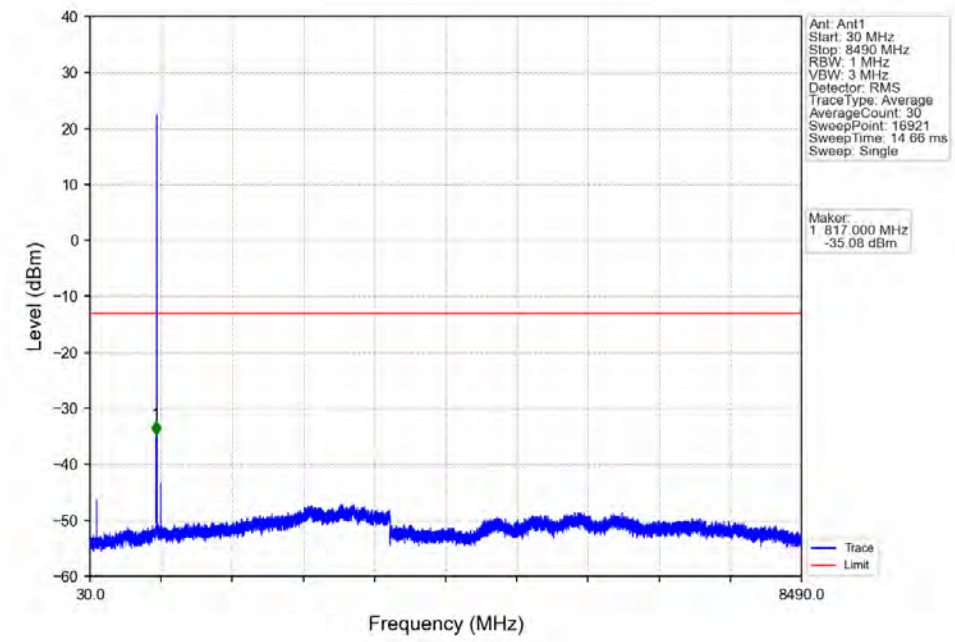
## 6.2.2 Test Graph

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

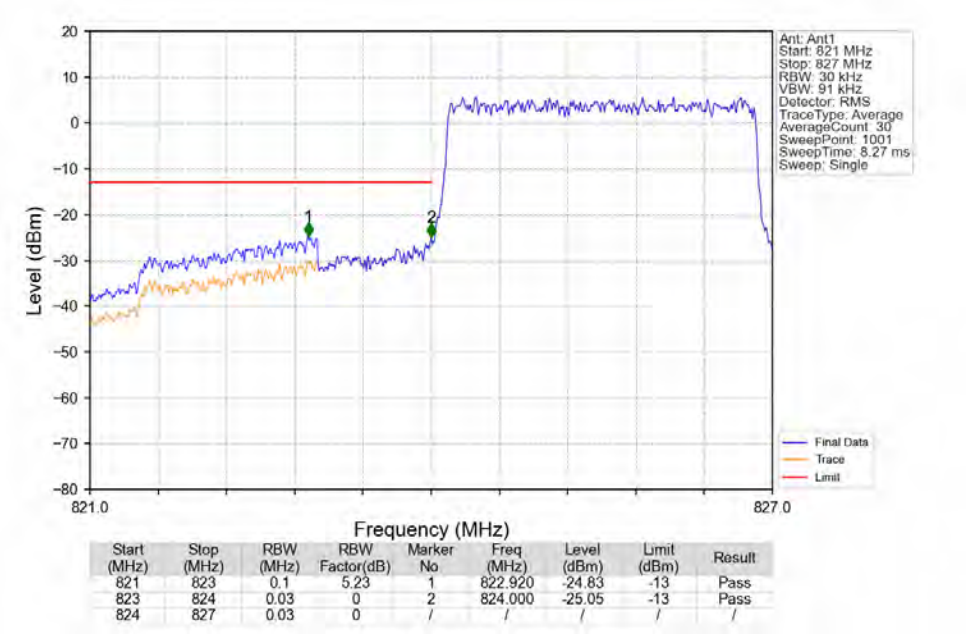



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | 15.23 | 1 | 822.998 | -40.52 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 823.986 | -27.69 | -13 | Pass |
| 824 | 827 | 0.003 | 0 | / | / | / | / | / |

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

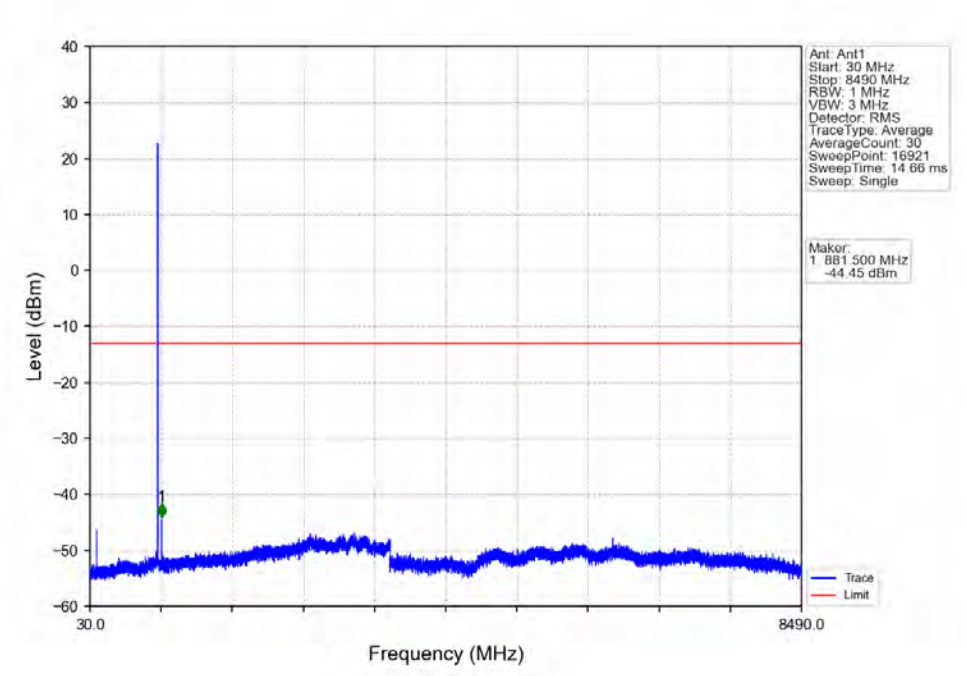


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

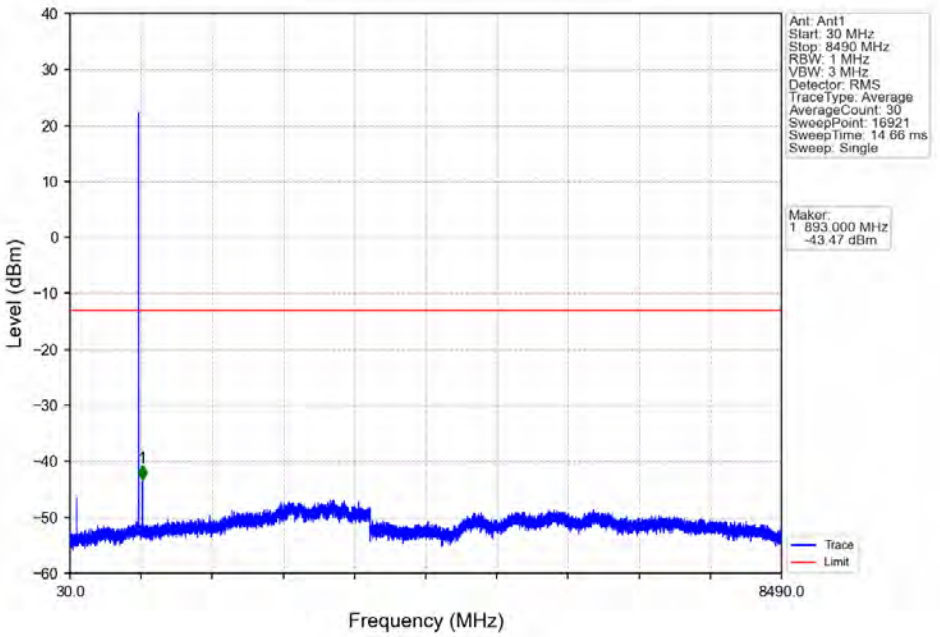



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | 5.23 | 1 | 822.920 | -24.83 | -13 | Pass |
| 823 | 824 | 0.03 | 0 | 2 | 824.000 | -25.05 | -13 | Pass |
| 824 | 827 | 0.03 | 0 | / | / | / | / | / |

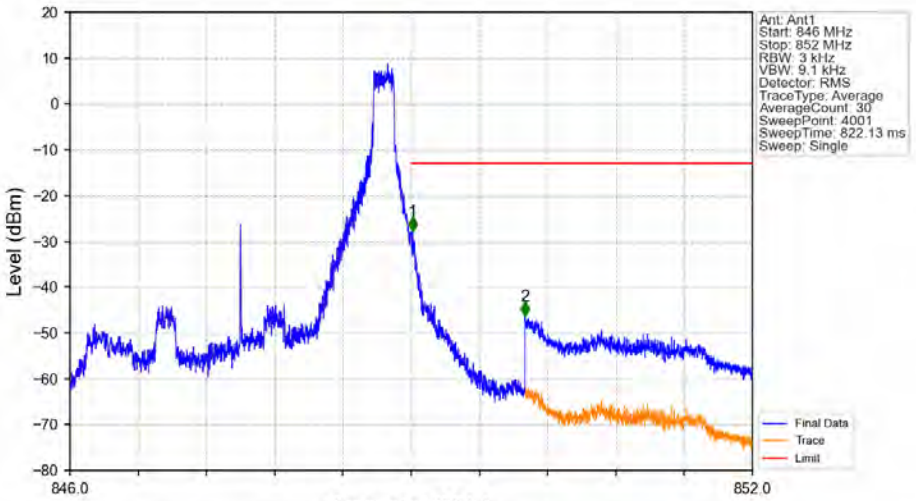
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

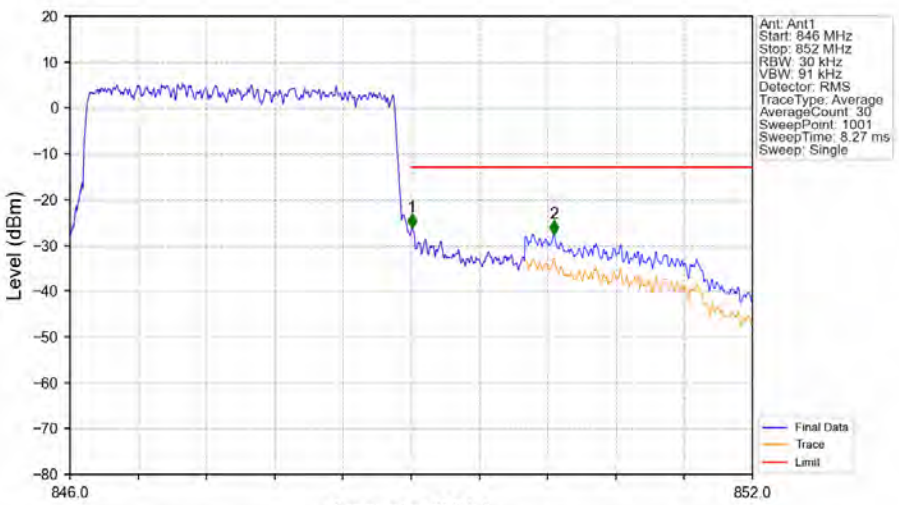



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



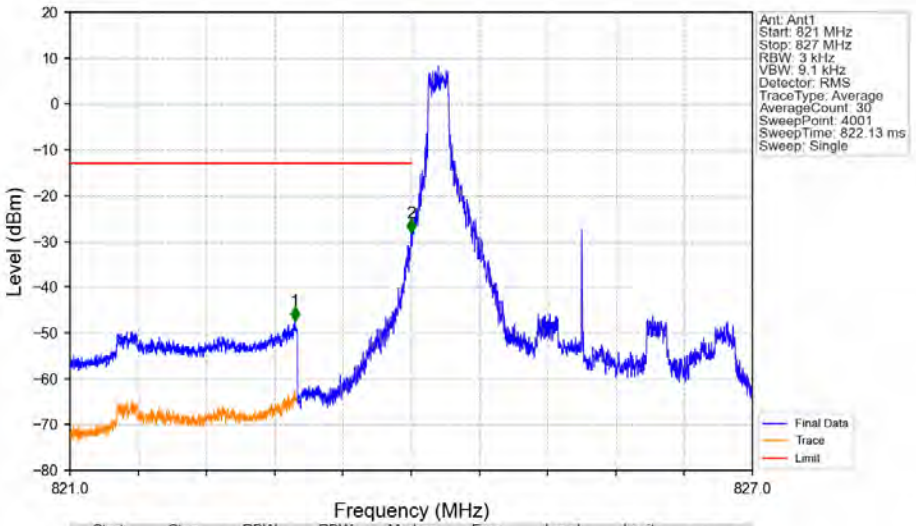

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.012 | -27.81 | -13 | Pass |
| 850 | 852 | 0.1 | 15.23 | 2 | 850.004 | -46.35 | -13 | Pass |

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



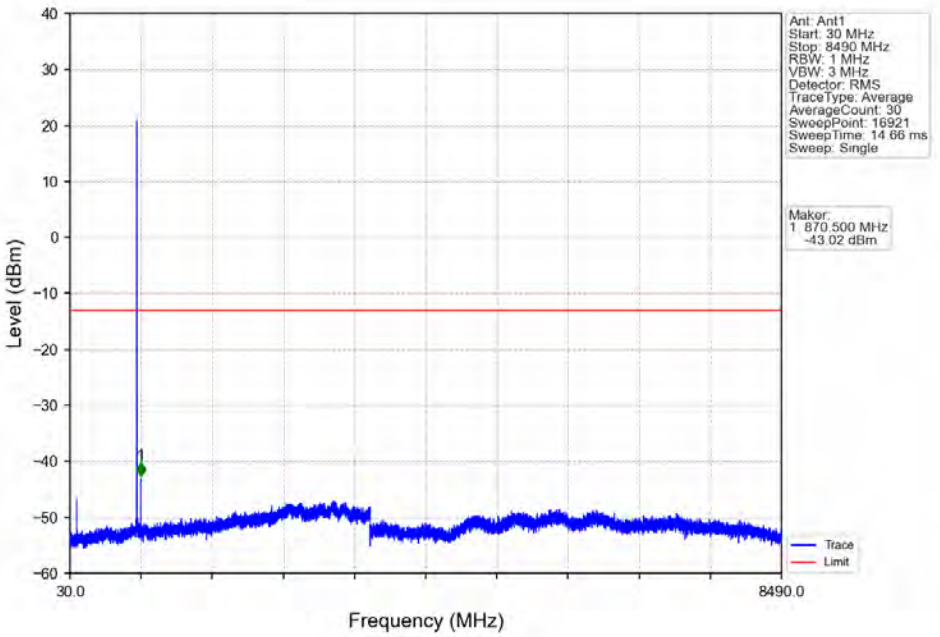

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.03 | 0 | / | / | / | / | / |
| 849 | 850 | 0.03 | 0 | 1 | 849.006 | -26.12 | -13 | Pass |
| 850 | 852 | 0.1 | 5.23 | 2 | 850.254 | -27.55 | -13 | Pass |

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

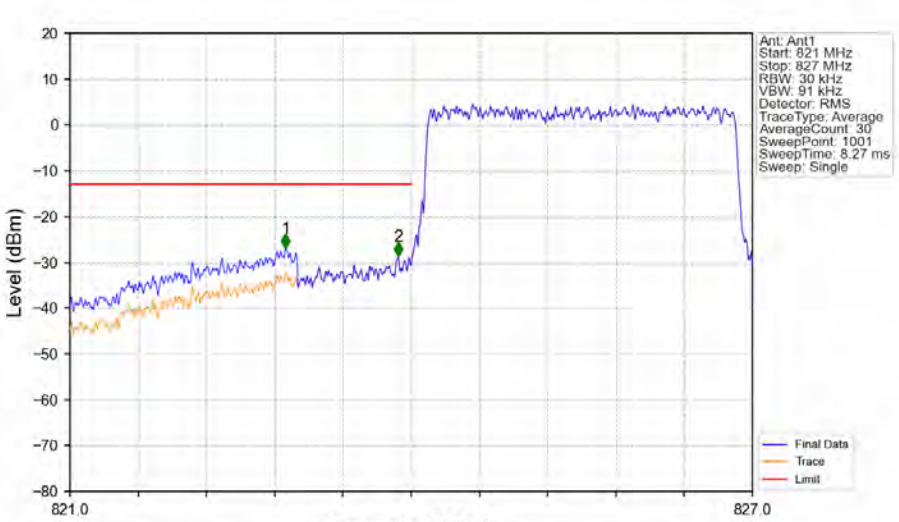



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | 15.23 | 1 | 822.977 | -47.41 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 824.000 | -28.10 | -13 | Pass |
| 824 | 827 | 0.003 | 0 | / | / | / | / | / |

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

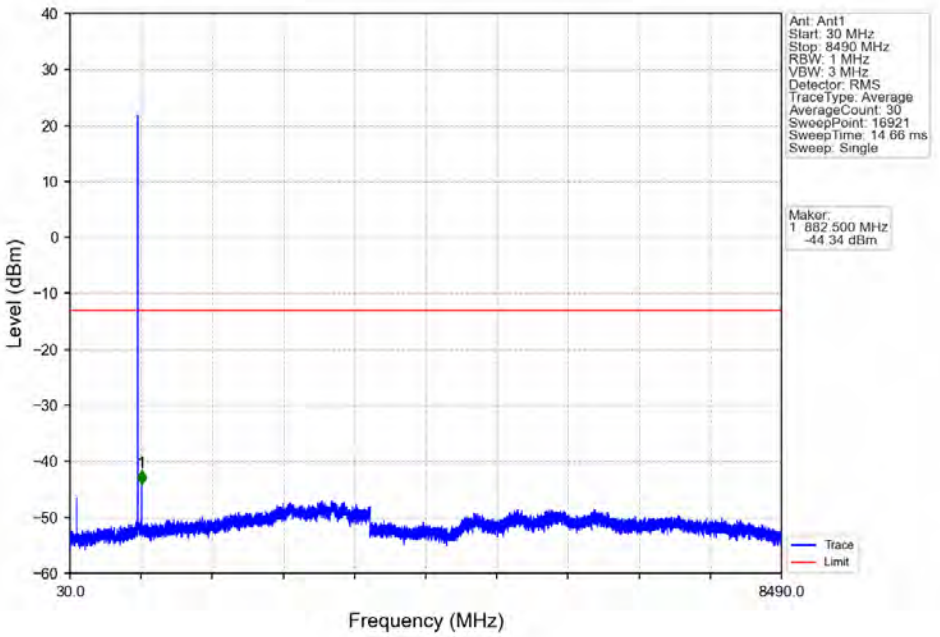



Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

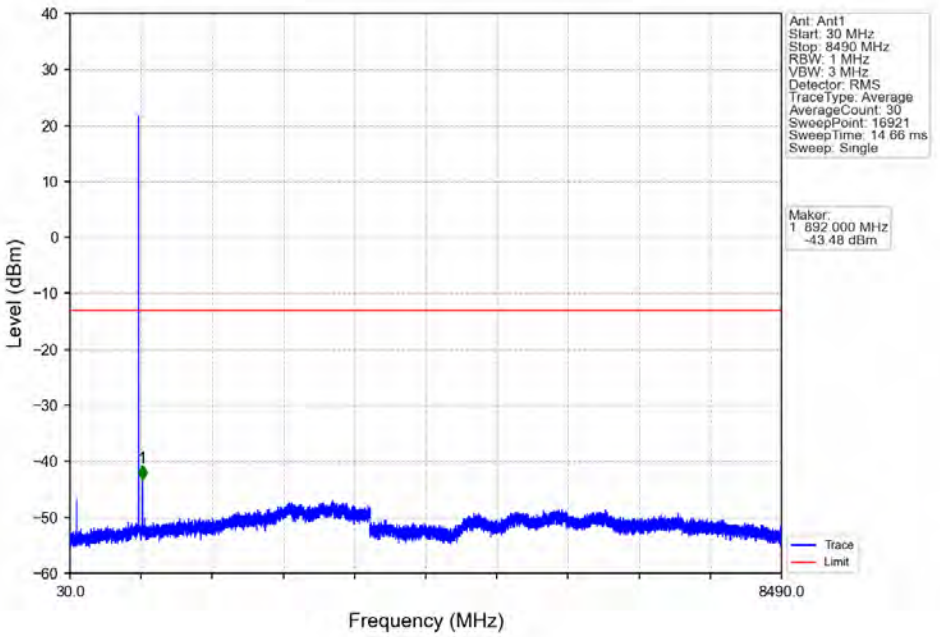



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 821 | 823 | 0.1 | 5.23 | 1 | 822.896 | -26.91 | -13 | Pass |
| 823 | 824 | 0.03 | 0 | 2 | 823.886 | -28.64 | -13 | Pass |
| 824 | 827 | 0.03 | 0 | / | / | / | / | / |

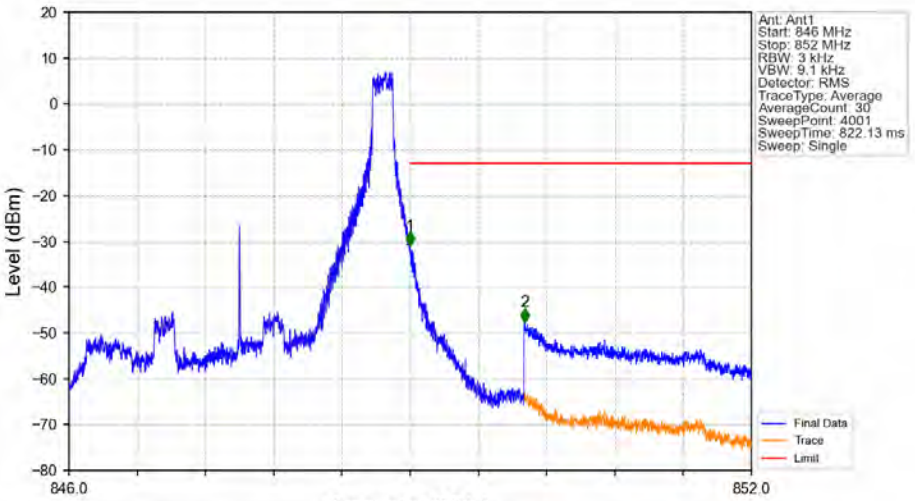
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV

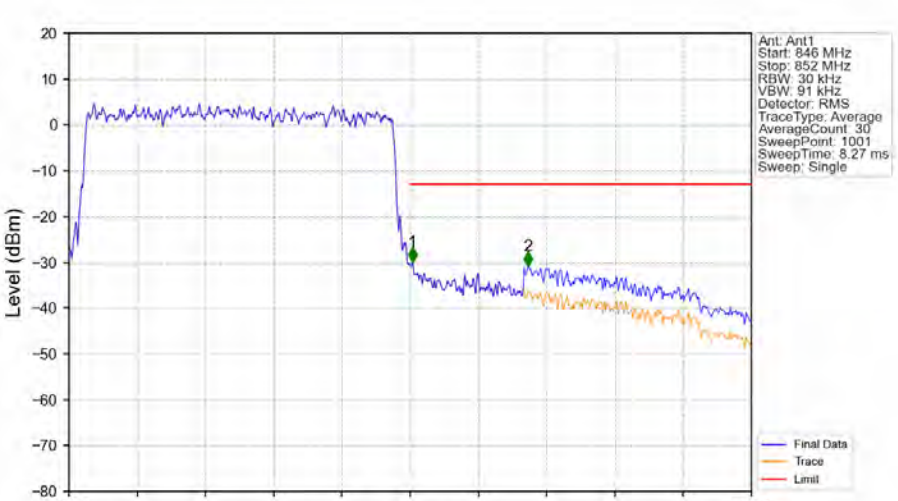


Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.000 | -31.05 | -13 | Pass |
| 850 | 852 | 0.1 | 15.23 | 2 | 850.006 | -47.65 | -13 | Pass |

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 846 | 849 | 0.03 | 0 | / | / | / | / | / |
| 849 | 850 | 0.03 | 0 | 1 | 849.018 | -29.93 | -13 | Pass |
| 850 | 852 | 0.1 | 5.23 | 2 | 850.038 | -30.86 | -13 | Pass |

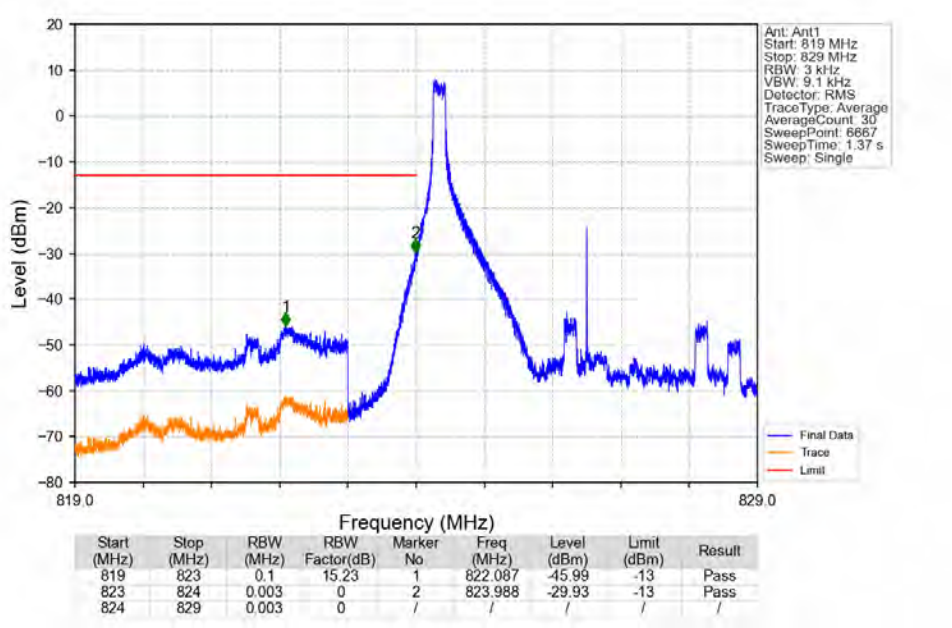
## 6.3 B5_5MHz

### 6.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 826.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 846.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 826.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 846.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

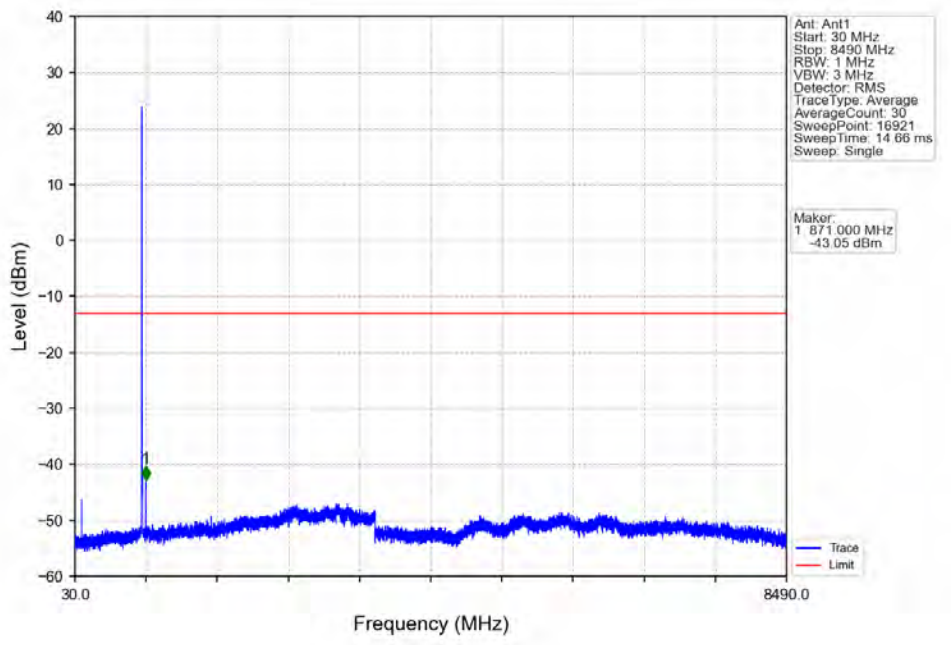
## 6.3.2 Test Graph

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

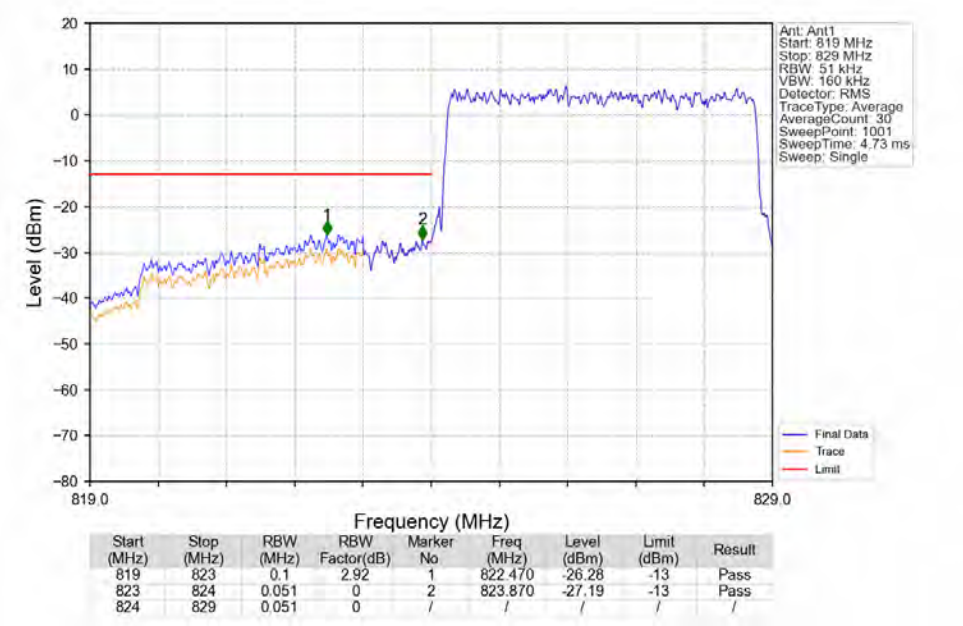



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | 15.23 | 1 | 822.087 | -45.99 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 823.988 | -29.93 | -13 | Pass |
| 824 | 829 | 0.003 | 0 | / | / | / | / | / |

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

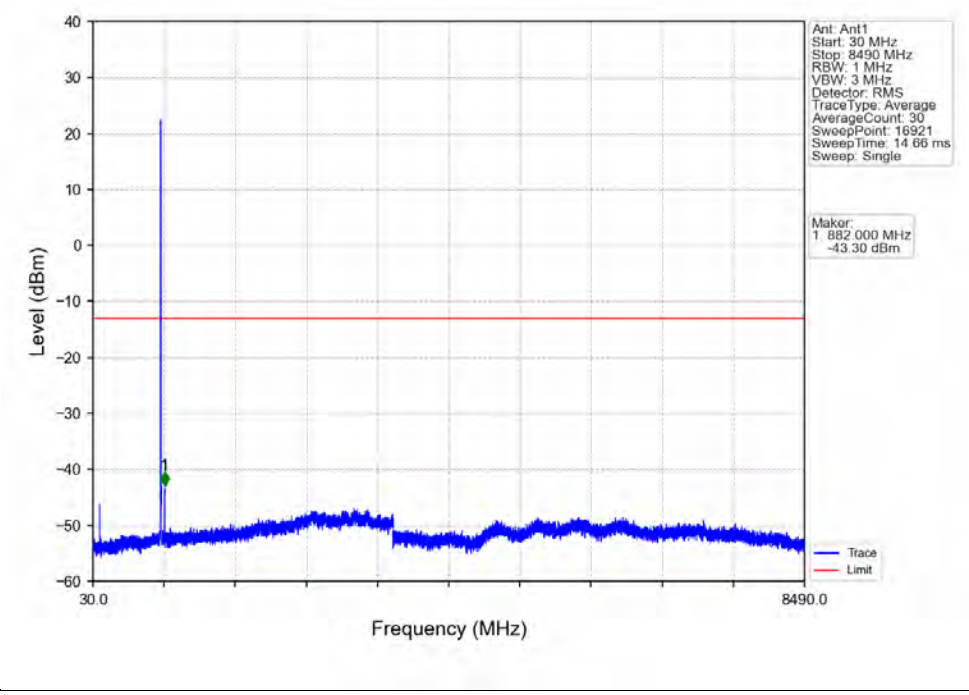


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

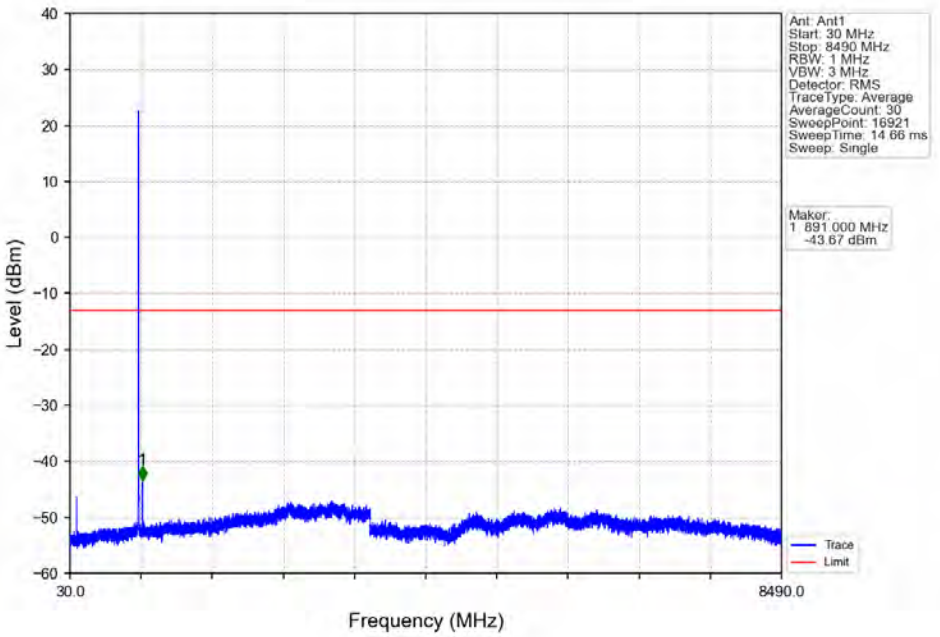



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | 2.92 | 1 | 822.470 | -26.28 | -13 | Pass |
| 823 | 824 | 0.051 | 0 | 2 | 823.870 | -27.19 | -13 | Pass |
| 824 | 829 | 0.051 | 0 | / | / | / | / | / |

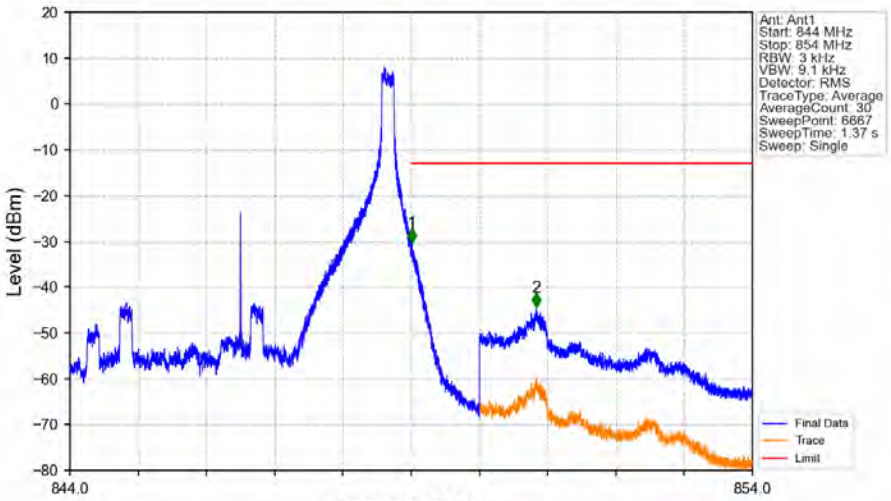
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

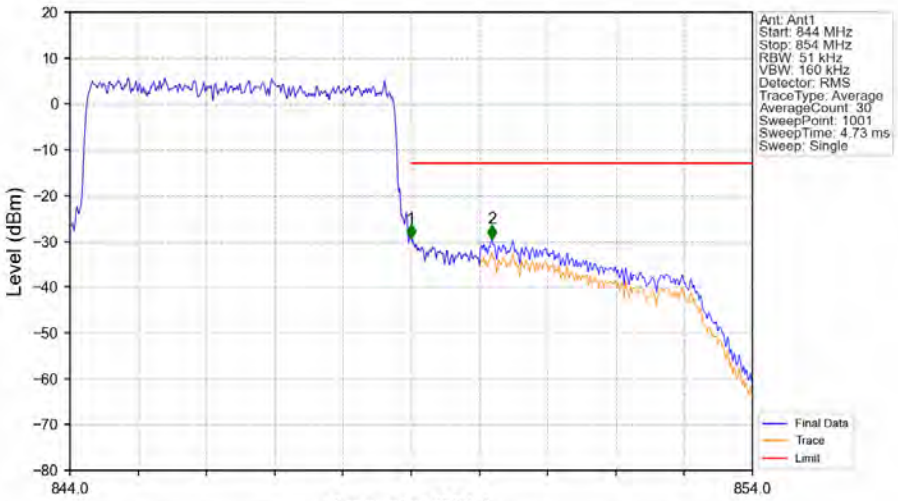



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



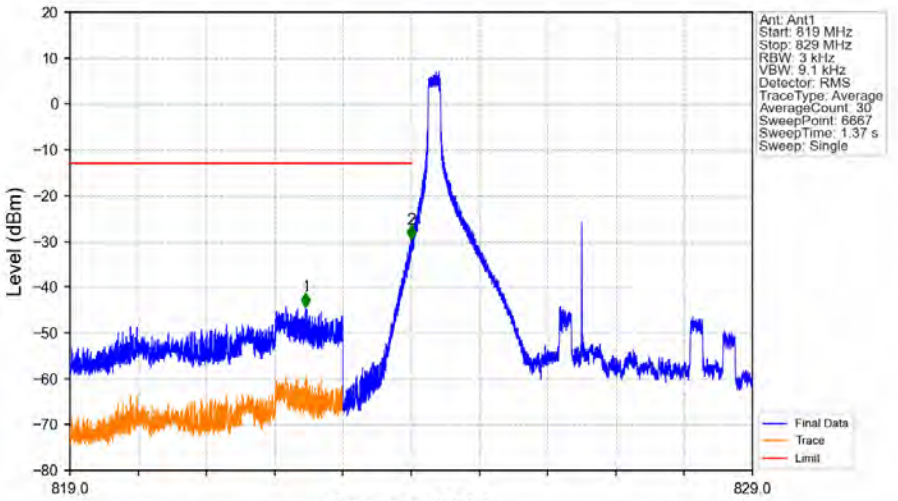

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.012 | -30.25 | -13 | Pass |
| 850 | 854 | 0.1 | 15.23 | 2 | 850.838 | -44.45 | -13 | Pass |

Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



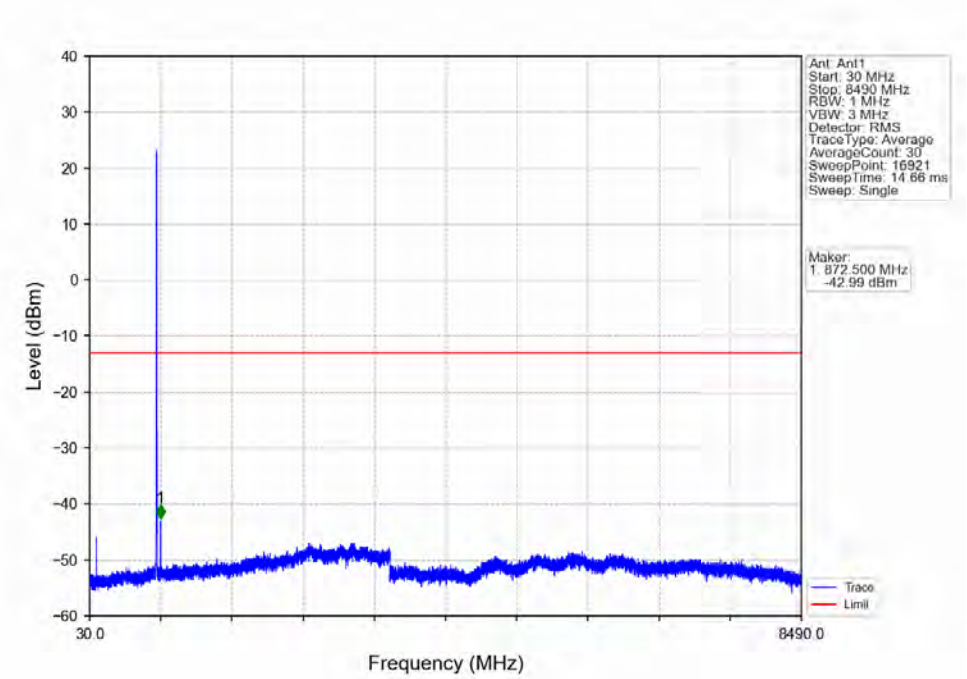

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.051 | 0 | / | / | / | / | / |
| 849 | 850 | 0.051 | 0 | 1 | 849.000 | -29.35 | -13 | Pass |
| 850 | 854 | 0.1 | 2.92 | 2 | 850.180 | -29.49 | -13 | Pass |

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

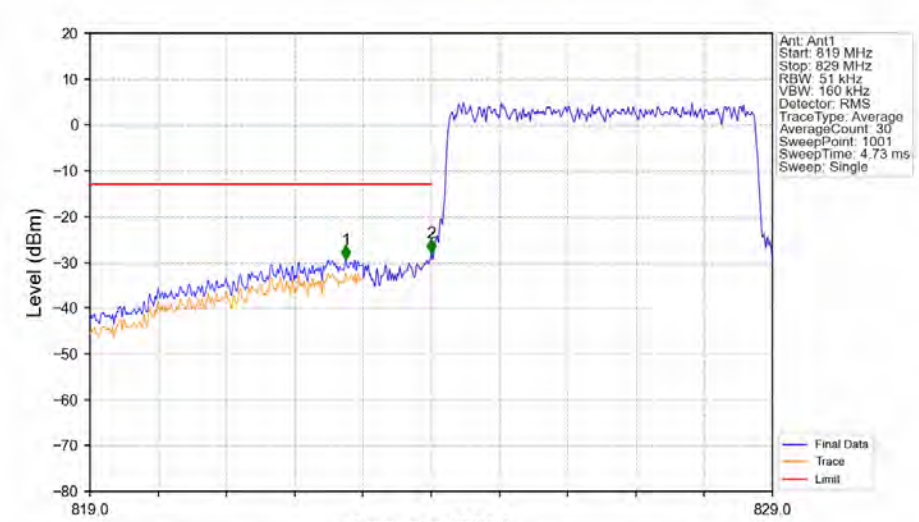



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | 15.23 | 1 | 822.455 | -44.28 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 824.000 | -29.61 | -13 | Pass |
| 824 | 829 | 0.003 | 0 | / | / | / | / | / |

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

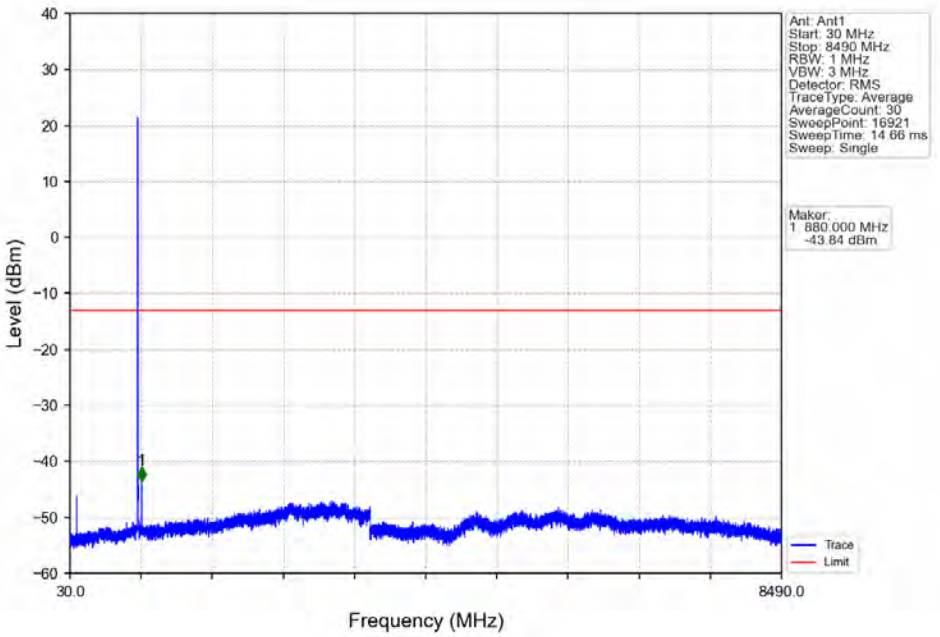



Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

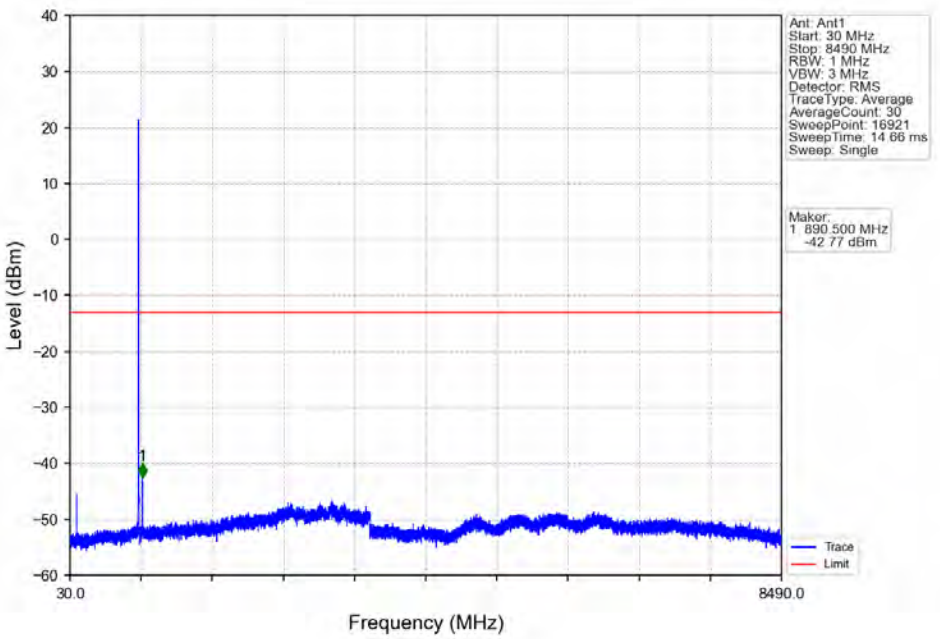



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 819 | 823 | 0.1 | 2.92 | 1 | 822.750 | -29.37 | -13 | Pass |
| 823 | 824 | 0.051 | 0 | 2 | 824.000 | -27.93 | -13 | Pass |
| 824 | 829 | 0.051 | 0 | / | / | / | / | / |

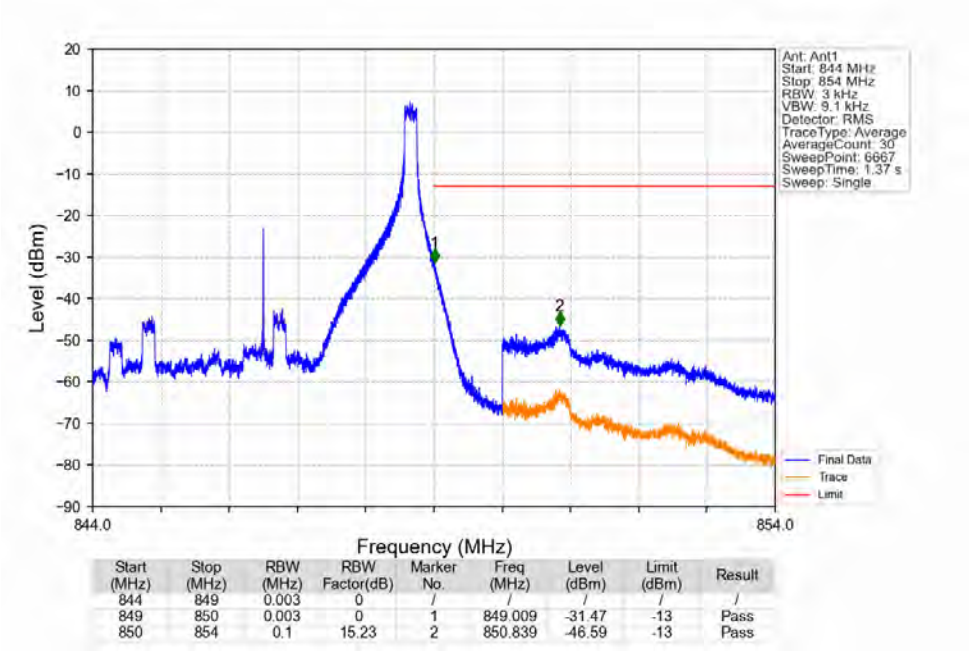
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

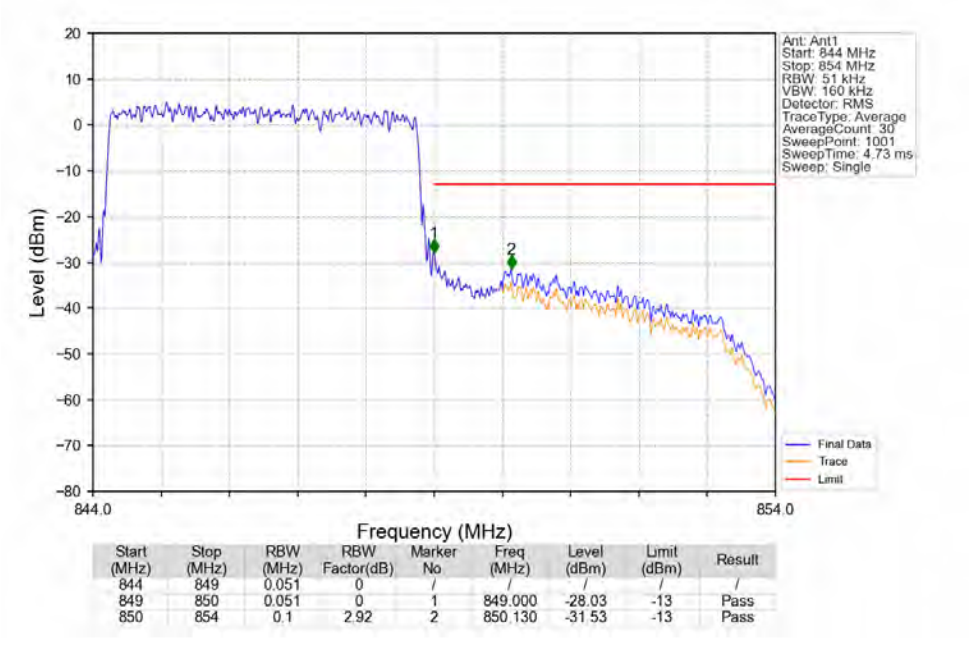


Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.009 | -31.47 | -13 | Pass |
| 850 | 854 | 0.1 | 15.23 | 2 | 850.839 | -46.59 | -13 | Pass |

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 844 | 849 | 0.051 | 0 | / | / | / | / | / |
| 849 | 850 | 0.051 | 0 | 1 | 849.000 | -28.03 | -13 | Pass |
| 850 | 854 | 0.1 | 2.92 | 2 | 850.130 | -31.53 | -13 | Pass |

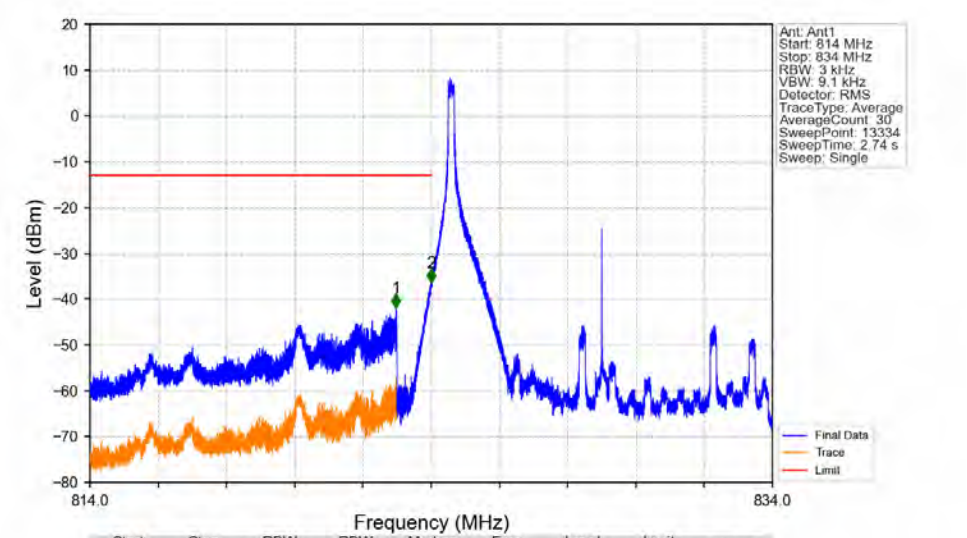
## 6.4 B5_10MHz

### 6.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 829 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 844 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 829 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 836.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 844 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

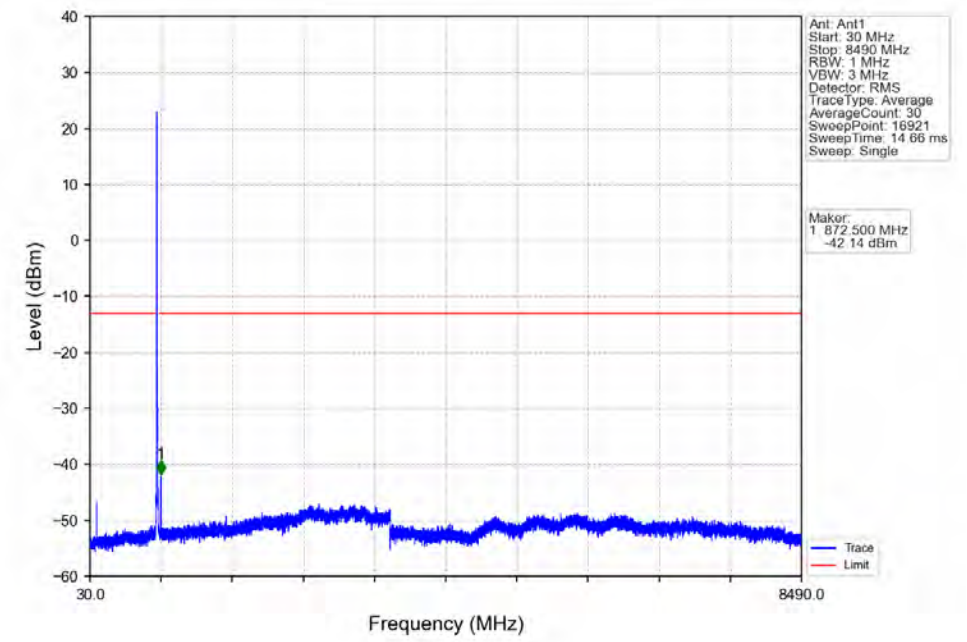
## 6.4.2 Test Graph

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

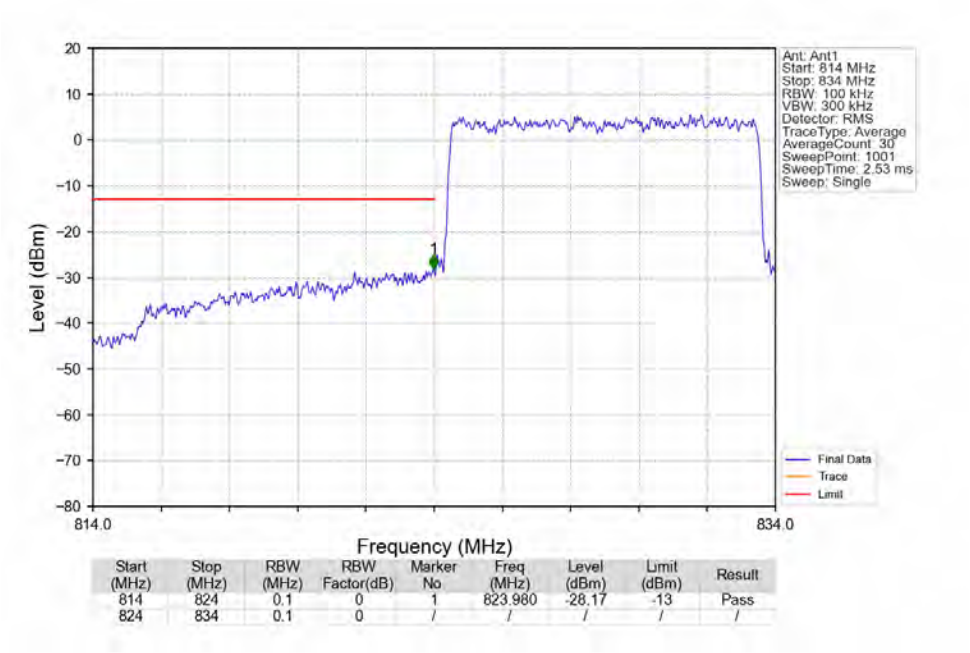



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | 15.23 | 1 | 822.970 | -41.93 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 823.996 | -36.45 | -13 | Pass |
| 824 | 834 | 0.003 | 0 | / | / | / | / | / |

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

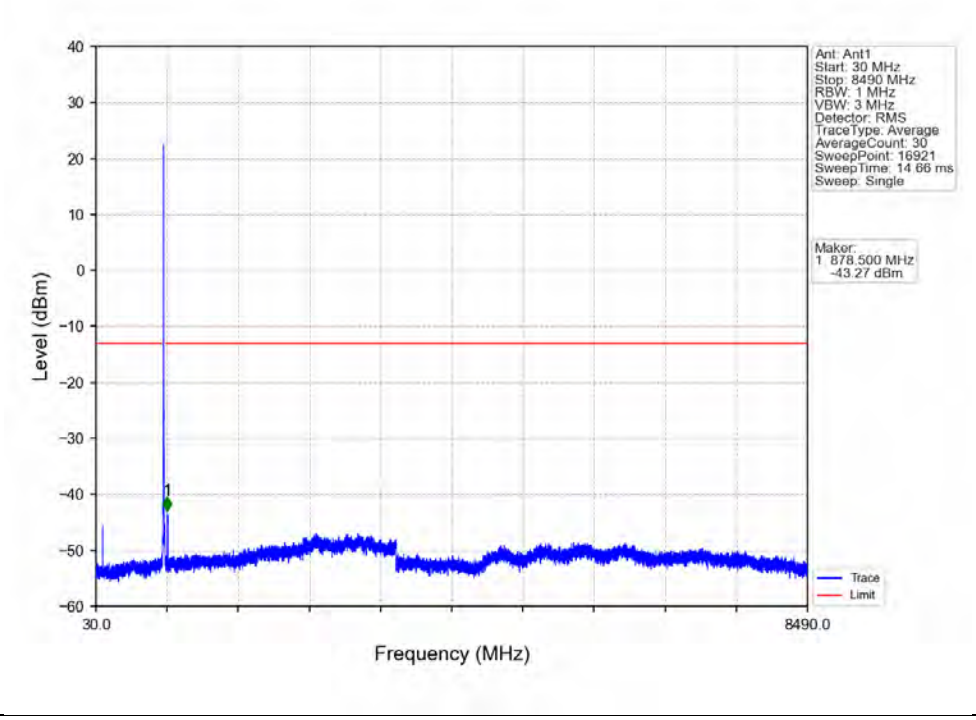


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

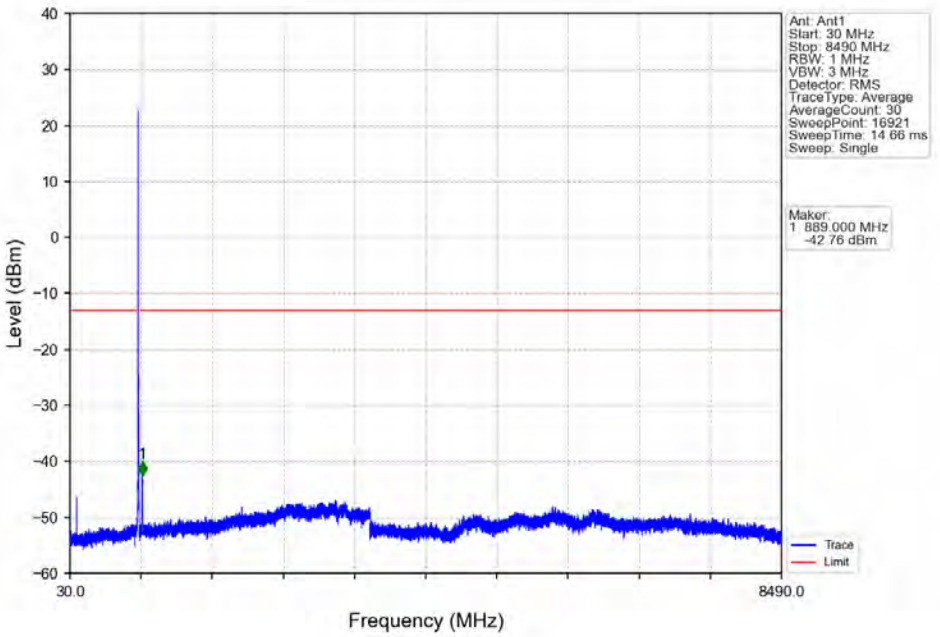



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 824 | 0.1 | 0 | 1 | 823.980 | -28.17 | -13 | Pass |
| 824 | 834 | 0.1 | 0 | / | / | / | / | / |

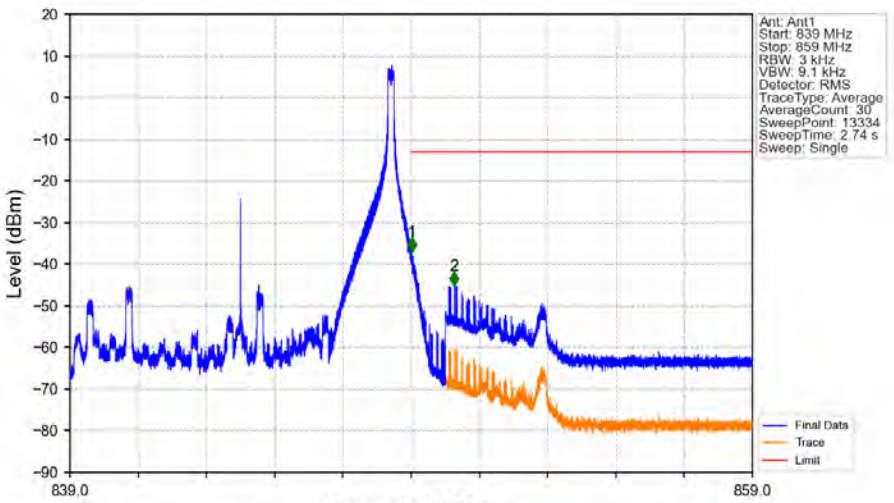
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV

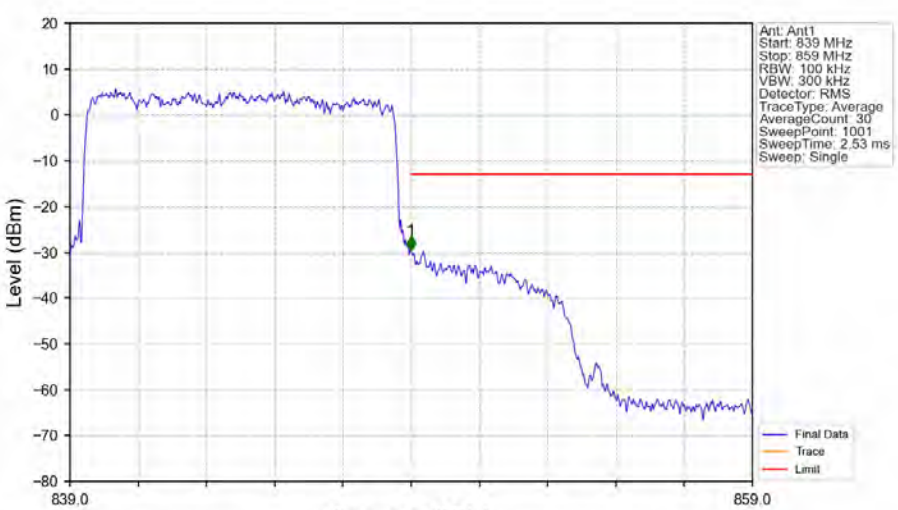



Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



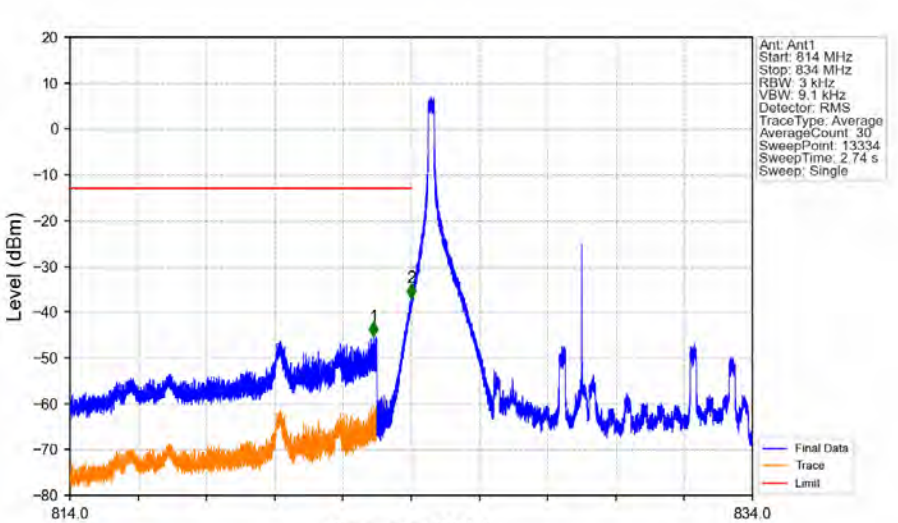

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.014 | -37.11 | -13 | Pass |
| 850 | 859 | 0.1 | 15.23 | 2 | 850.264 | -45.20 | -13 | Pass |

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



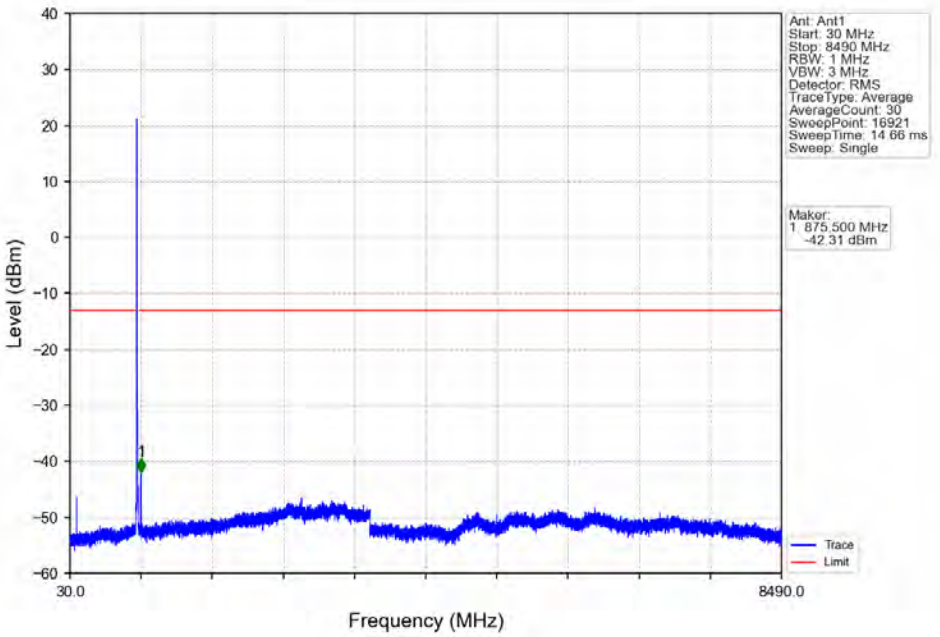

| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.1 | 0 | / | / | / | / | / |
| 849 | 859 | 0.1 | 0 | 1 | 849.000 | -29.55 | -13 | Pass |

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

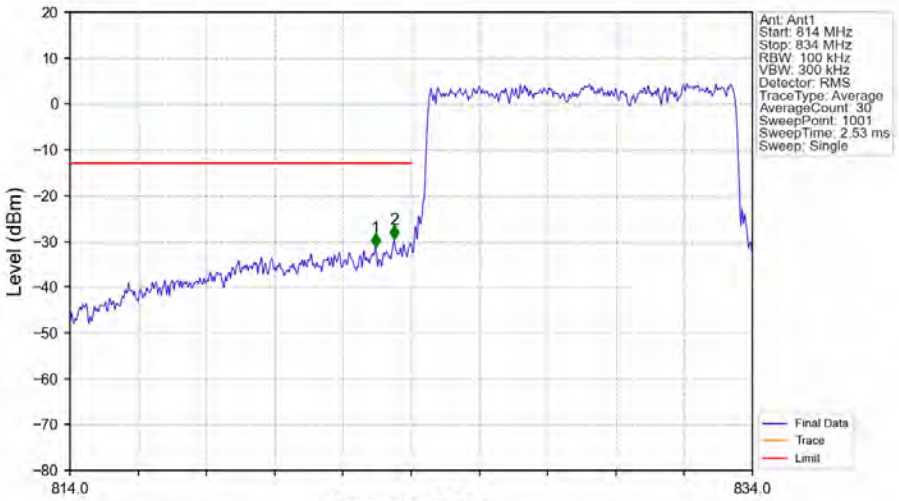



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | 15.23 | 1 | 822.897 | -45.22 | -13 | Pass |
| 823 | 824 | 0.003 | 0 | 2 | 823.998 | -36.88 | -13 | Pass |
| 824 | 834 | 0.003 | 0 | / | / | / | / | / |

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

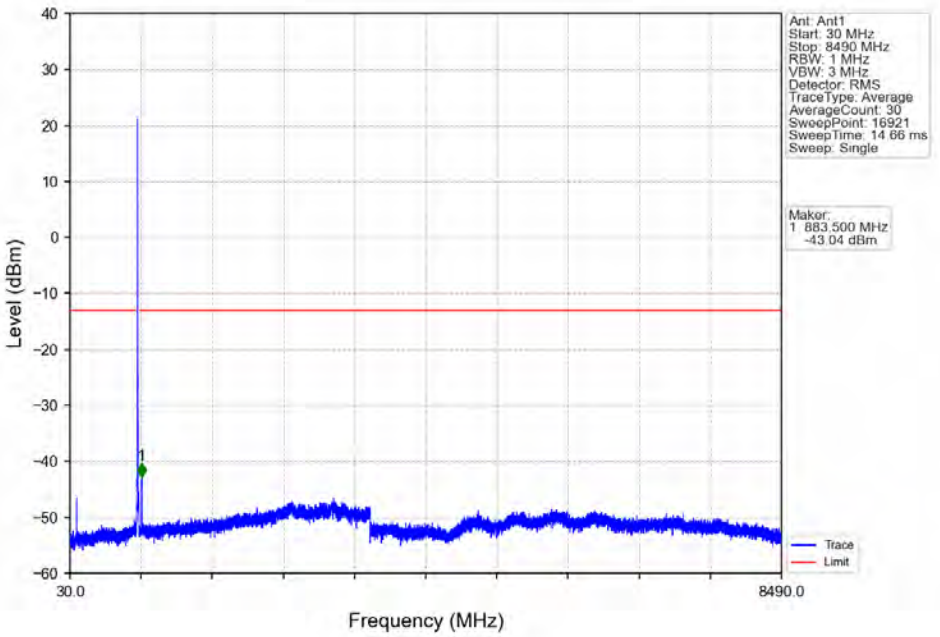



Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

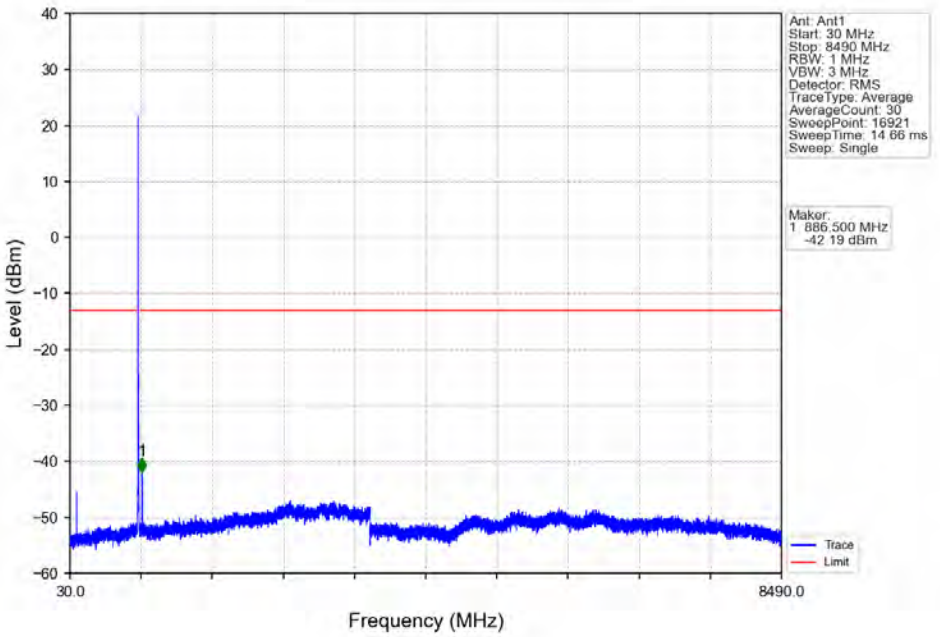



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 814 | 823 | 0.1 | 0 | 1 | 822.960 | -31.37 | -13 | Pass |
| 823 | 824 | 0.101 | 0.04 | 2 | 823.500 | -29.61 | -13 | Pass |
| 824 | 834 | 0.101 | 0.04 | / | / | / | / | / |

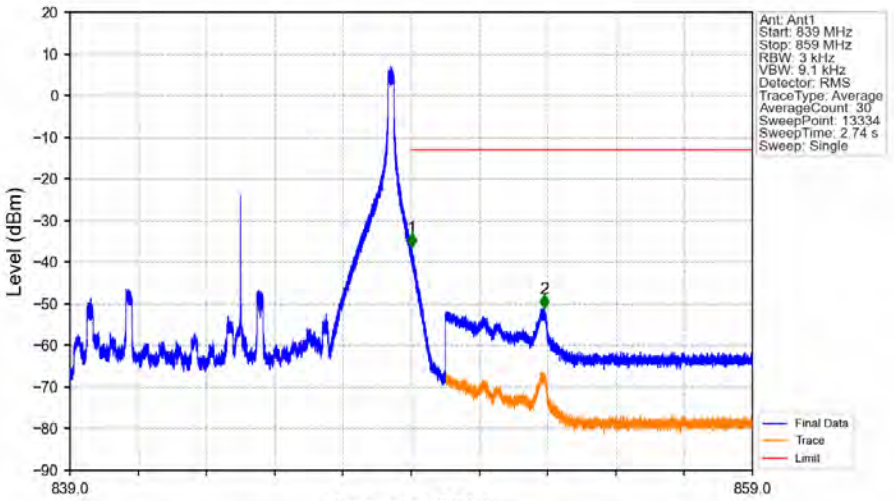
Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV




Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

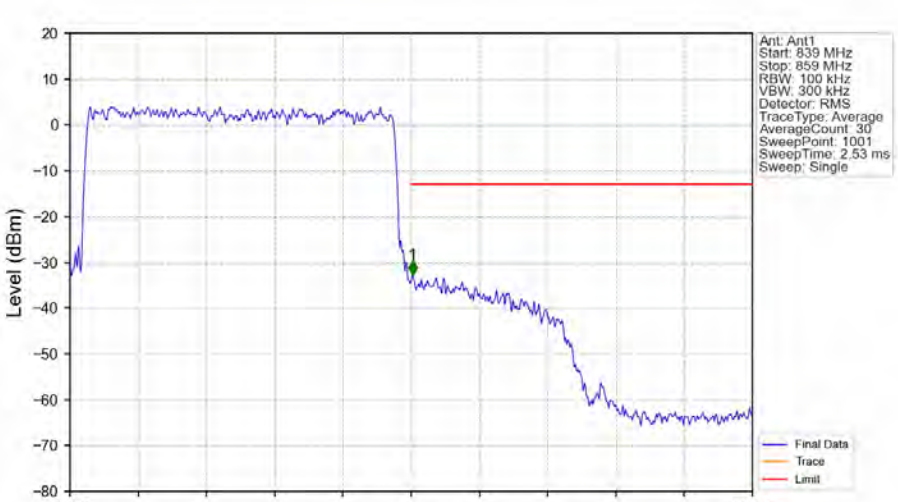


Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.003 | 0 | / | / | / | / | / |
| 849 | 850 | 0.003 | 0 | 1 | 849.017 | -36.54 | -13 | Pass |
| 850 | 859 | 0.1 | 15.23 | 2 | 852.893 | -51.22 | -13 | Pass |

Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 839 | 849 | 0.1 | 0 | / | / | / | / | / |
| 849 | 859 | 0.1 | 0 | 1 | 849.040 | -32.75 | -13 | Pass |

# 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) |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.4 | 824.7 | 848.3 | 0.2624 | 0.0056 | ppm | 1M12G7D | 24E | 24.19 |
| 5 | 1.4 | 824.7 | 848.3 | 0.2104 | 0.0140 | ppm | 1M12W7D | 24E | 23.23 |
| 5 | 3 | 825.5 | 847.5 | 0.2553 | 0.0114 | ppm | 2M74G7D | 24E | 24.07 |
| 5 | 3 | 825.5 | 847.5 | 0.2123 | 0.0040 | ppm | 2M73W7D | 24E | 23.27 |
| 5 | 5 | 826.5 | 846.5 | 0.2649 | 0.0034 | ppm | 4M55G7D | 24E | 24.23 |
| 5 | 5 | 826.5 | 846.5 | 0.2244 | 0.0045 | ppm | 4M57W7D | 24E | 23.51 |
| 5 | 10 | 829 | 844 | 0.2642 | 0.0045 | ppm | 9M09G7D | 24E | 24.22 |
| 5 | 10 | 829 | 844 | 0.2148 | 0.0067 | ppm | 9M06W7D | 24E | 23.32 |

## 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) |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.4 | 824.7 | 848.3 | 0.1644 | 0.0056 | ppm | 1M12G7D | 24E | 22.16 |
| 5 | 1.4 | 824.7 | 848.3 | 0.1318 | 0.0140 | ppm | 1M12W7D | 24E | 21.20 |
| 5 | 3 | 825.5 | 847.5 | 0.1600 | 0.0114 | ppm | 2M74G7D | 24E | 22.04 |
| 5 | 3 | 825.5 | 847.5 | 0.1330 | 0.0040 | ppm | 2M73W7D | 24E | 21.24 |
| 5 | 5 | 826.5 | 846.5 | 0.1660 | 0.0034 | ppm | 4M55G7D | 24E | 22.20 |
| 5 | 5 | 826.5 | 846.5 | 0.1406 | 0.0045 | ppm | 4M57W7D | 24E | 21.48 |
| 5 | 10 | 829 | 844 | 0.1656 | 0.0045 | ppm | 9M09G7D | 24E | 22.19 |
| 5 | 10 | 829 | 844 | 0.1346 | 0.0067 | ppm | 9M06W7D | 24E | 21.29 |