# 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 | 21.80 | 1.28 | 20.93 | <=38.45 | Pass |
| | | | 2 | 21.85 | 1.28 | 20.98 | <=38.45 | Pass |
| | | | 5 | 21.84 | 1.28 | 20.97 | <=38.45 | Pass |
| | | 3 | 0 | 22.06 | 1.28 | 21.19 | <=38.45 | Pass |
| | | | 2 | 22.02 | 1.28 | 21.15 | <=38.45 | Pass |
| | | | 3 | 21.97 | 1.28 | 21.10 | <=38.45 | Pass |
| | | 6 | 0 | 21.08 | 1.28 | 20.21 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.71 | 1.28 | 20.84 | <=38.45 | Pass |
| | | | 2 | 21.80 | 1.28 | 20.93 | <=38.45 | Pass |
| | | | 5 | 21.73 | 1.28 | 20.86 | <=38.45 | Pass |
| | | 3 | 0 | 21.86 | 1.28 | 20.99 | <=38.45 | Pass |
| | | | 2 | 21.78 | 1.28 | 20.91 | <=38.45 | Pass |
| | | | 3 | 21.72 | 1.28 | 20.85 | <=38.45 | Pass |
| | | 6 | 0 | 20.88 | 1.28 | 20.01 | <=38.45 | Pass |
| | 848.3 | 1 | 0 | 21.45 | 1.28 | 20.58 | <=38.45 | Pass |
| | | | 2 | 21.61 | 1.28 | 20.74 | <=38.45 | Pass |
| | | | 5 | 21.57 | 1.28 | 20.70 | <=38.45 | Pass |
| | | 3 | 0 | 21.63 | 1.28 | 20.76 | <=38.45 | Pass |
| | | | 2 | 21.59 | 1.28 | 20.72 | <=38.45 | Pass |
| | | | 3 | 21.61 | 1.28 | 20.74 | <=38.45 | Pass |
| | | 6 | 0 | 20.62 | 1.28 | 19.75 | <=38.45 | Pass |
| 16QAM | 824.7 | 1 | 0 | 21.11 | 1.28 | 20.24 | <=38.45 | Pass |
| | | | 2 | 20.94 | 1.28 | 20.07 | <=38.45 | Pass |
| | | | 5 | 20.89 | 1.28 | 20.02 | <=38.45 | Pass |
| | | 3 | 0 | 21.10 | 1.28 | 20.23 | <=38.45 | Pass |
| | | | 2 | 21.11 | 1.28 | 20.24 | <=38.45 | Pass |
| | | | 3 | 21.13 | 1.28 | 20.26 | <=38.45 | Pass |
| | | 6 | 0 | 20.13 | 1.28 | 19.26 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.59 | 1.28 | 19.72 | <=38.45 | Pass |
| | | | 2 | 21.01 | 1.28 | 20.14 | <=38.45 | Pass |
| | | | 5 | 20.87 | 1.28 | 20.00 | <=38.45 | Pass |
| | | 3 | 0 | 21.02 | 1.28 | 20.15 | <=38.45 | Pass |
| | | | 2 | 20.99 | 1.28 | 20.12 | <=38.45 | Pass |
| | | | 3 | 21.04 | 1.28 | 20.17 | <=38.45 | Pass |
| | | 6 | 0 | 19.95 | 1.28 | 19.08 | <=38.45 | Pass |
| | 848.3 | 1 | 0 | 20.65 | 1.28 | 19.78 | <=38.45 | Pass |
| | | | 2 | 20.77 | 1.28 | 19.90 | <=38.45 | Pass |
| | | | 5 | 20.68 | 1.28 | 19.81 | <=38.45 | Pass |
| | | 3 | 0 | 20.71 | 1.28 | 19.84 | <=38.45 | Pass |
| | | | 2 | 20.76 | 1.28 | 19.89 | <=38.45 | Pass |
| | | | 3 | 20.67 | 1.28 | 19.80 | <=38.45 | Pass |
| | | 6 | 0 | 19.67 | 1.28 | 18.80 | <=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 | 21.92 | 1.28 | 21.05 | <=38.45 | Pass |
| | | | 7 | 22.07 | 1.28 | 21.20 | <=38.45 | Pass |
| | | | 14 | 21.94 | 1.28 | 21.07 | <=38.45 | Pass |
| | | 8 | 0 | 21.11 | 1.28 | 20.24 | <=38.45 | Pass |
| | | | 4 | 20.99 | 1.28 | 20.12 | <=38.45 | Pass |
| | | | 7 | 20.96 | 1.28 | 20.09 | <=38.45 | Pass |
| | | 15 | 0 | 21.10 | 1.28 | 20.23 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.83 | 1.28 | 20.96 | <=38.45 | Pass |
| | | | 7 | 21.96 | 1.28 | 21.09 | <=38.45 | Pass |
| | | | 14 | 22.07 | 1.28 | 21.20 | <=38.45 | Pass |
| | | 8 | 0 | 21.06 | 1.28 | 20.19 | <=38.45 | Pass |
| | | | 4 | 20.95 | 1.28 | 20.08 | <=38.45 | Pass |
| | | | 7 | 20.91 | 1.28 | 20.04 | <=38.45 | Pass |
| | | 15 | 0 | 20.99 | 1.28 | 20.12 | <=38.45 | Pass |
| | 847.5 | 1 | 0 | 21.66 | 1.28 | 20.79 | <=38.45 | Pass |
| | | | 7 | 21.80 | 1.28 | 20.93 | <=38.45 | Pass |
| | | | 14 | 21.63 | 1.28 | 20.76 | <=38.45 | Pass |
| | | 8 | 0 | 20.70 | 1.28 | 19.83 | <=38.45 | Pass |
| | | | 4 | 20.81 | 1.28 | 19.94 | <=38.45 | Pass |
| | | | 7 | 20.78 | 1.28 | 19.91 | <=38.45 | Pass |
| | | 15 | 0 | 20.75 | 1.28 | 19.88 | <=38.45 | Pass |
| 16QAM | 825.5 | 1 | 0 | 20.95 | 1.28 | 20.08 | <=38.45 | Pass |
| | | | 7 | 20.86 | 1.28 | 19.99 | <=38.45 | Pass |
| | | | 14 | 20.90 | 1.28 | 20.03 | <=38.45 | Pass |
| | | 8 | 0 | 19.93 | 1.28 | 19.06 | <=38.45 | Pass |
| | | | 4 | 20.27 | 1.28 | 19.40 | <=38.45 | Pass |
| | | | 7 | 20.24 | 1.28 | 19.37 | <=38.45 | Pass |
| | | 15 | 0 | 20.11 | 1.28 | 19.24 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.69 | 1.28 | 19.82 | <=38.45 | Pass |
| | | | 7 | 20.99 | 1.28 | 20.12 | <=38.45 | Pass |
| | | | 14 | 21.04 | 1.28 | 20.17 | <=38.45 | Pass |
| | | 8 | 0 | 19.99 | 1.28 | 19.12 | <=38.45 | Pass |
| | | | 4 | 19.70 | 1.28 | 18.83 | <=38.45 | Pass |
| | | | 7 | 20.04 | 1.28 | 19.17 | <=38.45 | Pass |
| | | 15 | 0 | 19.93 | 1.28 | 19.06 | <=38.45 | Pass |
| | 847.5 | 1 | 0 | 21.02 | 1.28 | 20.15 | <=38.45 | Pass |
| | | | 7 | 21.36 | 1.28 | 20.49 | <=38.45 | Pass |
| | | | 14 | 21.03 | 1.28 | 20.16 | <=38.45 | Pass |
| | | 8 | 0 | 19.72 | 1.28 | 18.85 | <=38.45 | Pass |
| | | | 4 | 19.84 | 1.28 | 18.97 | <=38.45 | Pass |
| | | | 7 | 19.82 | 1.28 | 18.95 | <=38.45 | Pass |
| | | 15 | 0 | 19.87 | 1.28 | 19.00 | <=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 | RB Allocation | Conducted Power | Gain | ERP (dBm) | Verdict |

| | (MHz) | Size | Offset | (dBm) | (dBi) | Result | Limit | |
|---|---|---|---|---|---|---|---|---|
| QPSK | 826.5 | 1 | 0 | 21.75 | 1.28 | 20.88 | <=38.45 | Pass |
| | | | 13 | 21.84 | 1.28 | 20.97 | <=38.45 | Pass |
| | | | 24 | 21.90 | 1.28 | 21.03 | <=38.45 | Pass |
| | | 12 | 0 | 20.94 | 1.28 | 20.07 | <=38.45 | Pass |
| | | | 6 | 20.84 | 1.28 | 19.97 | <=38.45 | Pass |
| | | | 13 | 20.93 | 1.28 | 20.06 | <=38.45 | Pass |
| | | 25 | 0 | 21.00 | 1.28 | 20.13 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.64 | 1.28 | 20.77 | <=38.45 | Pass |
| | | | 13 | 21.78 | 1.28 | 20.91 | <=38.45 | Pass |
| | | | 24 | 21.48 | 1.28 | 20.61 | <=38.45 | Pass |
| | | 12 | 0 | 20.83 | 1.28 | 19.96 | <=38.45 | Pass |
| | | | 6 | 20.78 | 1.28 | 19.91 | <=38.45 | Pass |
| | | | 13 | 20.72 | 1.28 | 19.85 | <=38.45 | Pass |
| | | 25 | 0 | 20.80 | 1.28 | 19.93 | <=38.45 | Pass |
| | 846.5 | 1 | 0 | 21.39 | 1.28 | 20.52 | <=38.45 | Pass |
| | | | 13 | 21.79 | 1.28 | 20.92 | <=38.45 | Pass |
| | | | 24 | 21.58 | 1.28 | 20.71 | <=38.45 | Pass |
| | | 12 | 0 | 20.61 | 1.28 | 19.74 | <=38.45 | Pass |
| | | | 6 | 20.69 | 1.28 | 19.82 | <=38.45 | Pass |
| | | | 13 | 20.63 | 1.28 | 19.76 | <=38.45 | Pass |
| | | 25 | 0 | 20.62 | 1.28 | 19.75 | <=38.45 | Pass |
| 16QAM | 826.5 | 1 | 0 | 20.73 | 1.28 | 19.86 | <=38.45 | Pass |
| | | | 13 | 21.10 | 1.28 | 20.23 | <=38.45 | Pass |
| | | | 24 | 21.15 | 1.28 | 20.28 | <=38.45 | Pass |
| | | 12 | 0 | 20.08 | 1.28 | 19.21 | <=38.45 | Pass |
| | | | 6 | 19.89 | 1.28 | 19.02 | <=38.45 | Pass |
| | | | 13 | 19.78 | 1.28 | 18.91 | <=38.45 | Pass |
| | | 25 | 0 | 19.90 | 1.28 | 19.03 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 20.20 | 1.28 | 19.33 | <=38.45 | Pass |
| | | | 13 | 20.78 | 1.28 | 19.91 | <=38.45 | Pass |
| | | | 24 | 20.02 | 1.28 | 19.15 | <=38.45 | Pass |
| | | 12 | 0 | 19.77 | 1.28 | 18.90 | <=38.45 | Pass |
| | | | 6 | 19.90 | 1.28 | 19.03 | <=38.45 | Pass |
| | | | 13 | 19.65 | 1.28 | 18.78 | <=38.45 | Pass |
| | | 25 | 0 | 19.94 | 1.28 | 19.07 | <=38.45 | Pass |
| | 846.5 | 1 | 0 | 20.44 | 1.28 | 19.57 | <=38.45 | Pass |
| | | | 13 | 20.55 | 1.28 | 19.68 | <=38.45 | Pass |
| | | | 24 | 20.40 | 1.28 | 19.53 | <=38.45 | Pass |
| | | 12 | 0 | 19.43 | 1.28 | 18.56 | <=38.45 | Pass |
| | | | 6 | 19.64 | 1.28 | 18.77 | <=38.45 | Pass |
| | | | 13 | 19.64 | 1.28 | 18.77 | <=38.45 | Pass |
| | | 25 | 0 | 19.65 | 1.28 | 18.78 | <=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 | 21.78 | 1.28 | 20.91 | <=38.45 | Pass |
| | | | 25 | 21.88 | 1.28 | 21.01 | <=38.45 | Pass |
| | | | 49 | 22.05 | 1.28 | 21.18 | <=38.45 | Pass |
| | | 25 | 0 | 20.92 | 1.28 | 20.05 | <=38.45 | Pass |
| | | | 13 | 20.93 | 1.28 | 20.06 | <=38.45 | Pass |
| | | | 25 | 21.03 | 1.28 | 20.16 | <=38.45 | Pass |
| | | 50 | 0 | 21.02 | 1.28 | 20.15 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.72 | 1.28 | 20.85 | <=38.45 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 25 | 21.97 | 1.28 | 21.10 | <=38.45 | Pass |
| | | | 49 | 21.54 | 1.28 | 20.67 | <=38.45 | Pass |
| | | 25 | 0 | 21.00 | 1.28 | 20.13 | <=38.45 | Pass |
| | | | 13 | 20.87 | 1.28 | 20.00 | <=38.45 | Pass |
| | | | 25 | 20.82 | 1.28 | 19.95 | <=38.45 | Pass |
| | | 50 | 0 | 20.87 | 1.28 | 20.00 | <=38.45 | Pass |
| | 844 | 1 | 0 | 21.67 | 1.28 | 20.80 | <=38.45 | Pass |
| | | | 25 | 21.54 | 1.28 | 20.67 | <=38.45 | Pass |
| | | | 49 | 21.66 | 1.28 | 20.79 | <=38.45 | Pass |
| | | 25 | 0 | 20.76 | 1.28 | 19.89 | <=38.45 | Pass |
| | | | 13 | 20.81 | 1.28 | 19.94 | <=38.45 | Pass |
| | | | 25 | 20.71 | 1.28 | 19.84 | <=38.45 | Pass |
| | | 50 | 0 | 20.71 | 1.28 | 19.84 | <=38.45 | Pass |
| 16QAM | 829 | 1 | 0 | 20.97 | 1.28 | 20.10 | <=38.45 | Pass |
| | | | 25 | 21.06 | 1.28 | 20.19 | <=38.45 | Pass |
| | | | 49 | 20.85 | 1.28 | 19.98 | <=38.45 | Pass |
| | | 25 | 0 | 19.81 | 1.28 | 18.94 | <=38.45 | Pass |
| | | | 13 | 19.79 | 1.28 | 18.92 | <=38.45 | Pass |
| | | | 25 | 20.28 | 1.28 | 19.41 | <=38.45 | Pass |
| | 836.5 | 1 | 0 | 21.33 | 1.28 | 20.46 | <=38.45 | Pass |
| | | | 25 | 21.31 | 1.28 | 20.44 | <=38.45 | Pass |
| | | | 49 | 21.26 | 1.28 | 20.39 | <=38.45 | Pass |
| | | 25 | 0 | 20.01 | 1.28 | 19.14 | <=38.45 | Pass |
| | | | 13 | 20.05 | 1.28 | 19.18 | <=38.45 | Pass |
| | | | 25 | 19.80 | 1.28 | 18.93 | <=38.45 | Pass |
| | 844 | 1 | 0 | 21.23 | 1.28 | 20.36 | <=38.45 | Pass |
| | | | 25 | 21.15 | 1.28 | 20.28 | <=38.45 | Pass |
| | | | 49 | 20.99 | 1.28 | 20.12 | <=38.45 | Pass |
| | | 25 | 0 | 19.83 | 1.28 | 18.96 | <=38.45 | Pass |
| | | | 13 | 19.74 | 1.28 | 18.87 | <=38.45 | Pass |
| | | | 25 | 19.83 | 1.28 | 18.96 | <=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 | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.060 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.960 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.445 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.661 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.418 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.346 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.575 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.017 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.888 | -0.0023 | -2.5 to 2.5 | Pass |
| | 836.5 | 6 | 0 | 20 | 3.27 | -0.501 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.801 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.787 | -0.0009 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.85 | -0.458 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.173 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.687 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.973 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.443 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.615 | -0.0007 | -2.5 to 2.5 | Pass |
| | 848.3 | 6 | 0 | 20 | 3.27 | -1.531 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.272 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.057 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.259 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.715 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.144 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.717 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.302 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.316 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.030 | -0.0012 | -2.5 to 2.5 | Pass |
| 16QAM | 824.7 | 6 | 0 | 20 | 3.27 | -1.745 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.332 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.273 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.588 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.717 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.717 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.359 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.588 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.302 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.744 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.316 | -0.0016 | -2.5 to 2.5 | Pass |
| | 836.5 | 6 | 0 | 20 | 3.27 | -1.416 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.302 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.086 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.143 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.216 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.216 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.372 | -0.0004 | -2.5 to 2.5 | Pass |
| | 848.3 | 6 | 0 | 20 | 3.27 | 0.186 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.501 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.200 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.958 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.544 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.873 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.257 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.072 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.345 | 0.0016 | -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 | 0.930 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.401 | -0.0005 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4.43 | -0.401 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.101 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.257 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.159 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.114 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.230 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.043 | -0.0001 | -2.5 to 2.5 | Pass |
| | 836.5 | 15 | 0 | 20 | 3.27 | -0.844 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.930 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.473 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.658 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.315 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.687 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.043 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.830 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.930 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.272 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.844 | -0.0010 | -2.5 to 2.5 | Pass |
| | 847.5 | 15 | 0 | 20 | 3.27 | -2.203 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.346 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.316 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.631 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.373 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.373 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.103 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.903 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.174 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.787 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.217 | -0.0026 | -2.5 to 2.5 | Pass |
| 16QAM | 825.5 | 15 | 0 | 20 | 3.27 | -0.815 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.386 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.844 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.601 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.787 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.057 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.587 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.044 | -0.0013 | -2.5 to 2.5 | Pass |
| | 836.5 | 15 | 0 | 20 | 3.27 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.730 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.372 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.373 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.831 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.287 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.887 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.287 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |
| | 847.5 | 15 | 0 | 20 | 3.27 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.831 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.546 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.545 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.259 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.073 | -0.0013 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 30 | 3.85 | -1.245 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.087 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.802 | -0.0021 | -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 | -1.745 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.289 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.888 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.616 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.616 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.287 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.217 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.488 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.317 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.616 | -0.0020 | -2.5 to 2.5 | Pass |
| | 836.5 | 25 | 0 | 20 | 3.27 | -0.730 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.443 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.631 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.730 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.587 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.202 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.343 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.373 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.159 | -0.0014 | -2.5 to 2.5 | Pass |
| | 846.5 | 25 | 0 | 20 | 3.27 | -0.114 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.229 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.159 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.359 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.817 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.315 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.887 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.443 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.916 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.458 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.302 | -0.0015 | -2.5 to 2.5 | Pass |
| 16QAM | 826.5 | 25 | 0 | 20 | 3.27 | -1.774 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.275 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.802 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -2.031 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.245 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.445 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.589 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.947 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.090 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.602 | -0.0019 | -2.5 to 2.5 | Pass |
| | 836.5 | 25 | 0 | 20 | 3.27 | -0.157 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.329 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.529 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.429 | -0.0005 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.85 | -0.572 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.672 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.472 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.958 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.687 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.415 | -0.0005 | -2.5 to 2.5 | Pass |
| | 846.5 | 25 | 0 | 20 | 3.27 | -0.386 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.429 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.930 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.144 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.415 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.114 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.358 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.458 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.844 | -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 | -1.144 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -1.116 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.472 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.257 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.944 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.044 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.744 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.016 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.443 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.072 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.373 | -0.0017 | -2.5 to 2.5 | Pass |
| | 836.5 | 50 | 0 | 20 | 3.27 | -0.916 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.329 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.572 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.629 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.186 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.958 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.143 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.202 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.860 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.858 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.772 | -0.0009 | -2.5 to 2.5 | Pass |
| | 844 | 50 | 0 | 20 | 3.27 | -0.572 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.715 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.402 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.531 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.187 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.801 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.315 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.858 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.644 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.372 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.701 | -0.0008 | -2.5 to 2.5 | Pass |

# 3. Modulation Characteristics

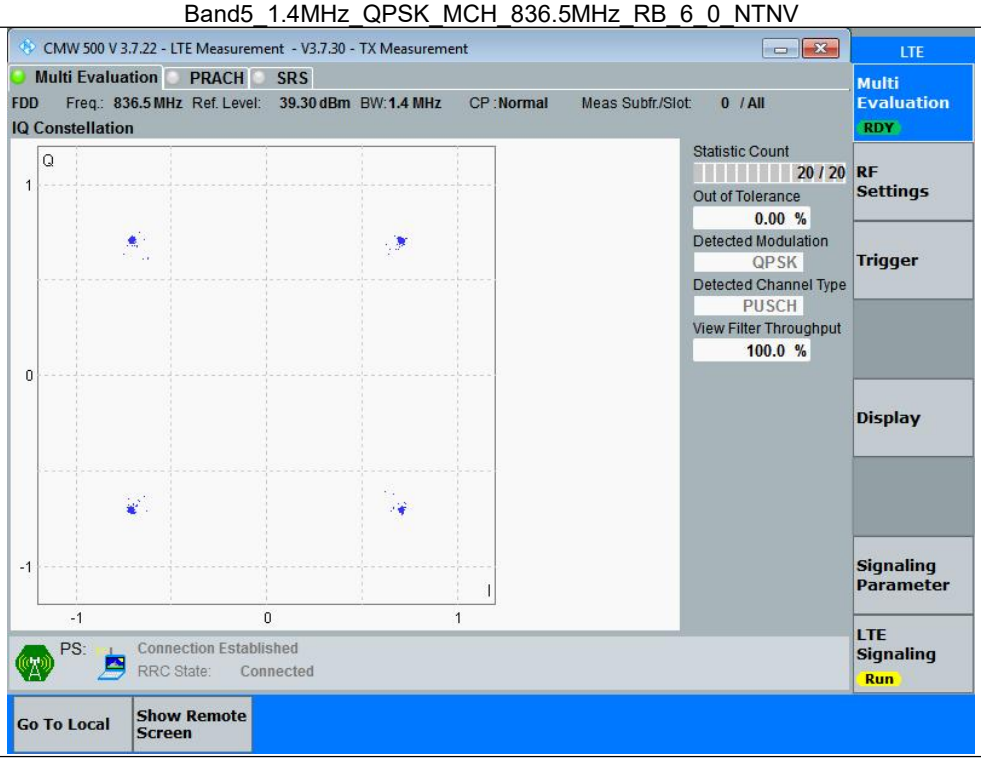
## 3.1 B5_1.4MHz

### 3.1.1 Test Result

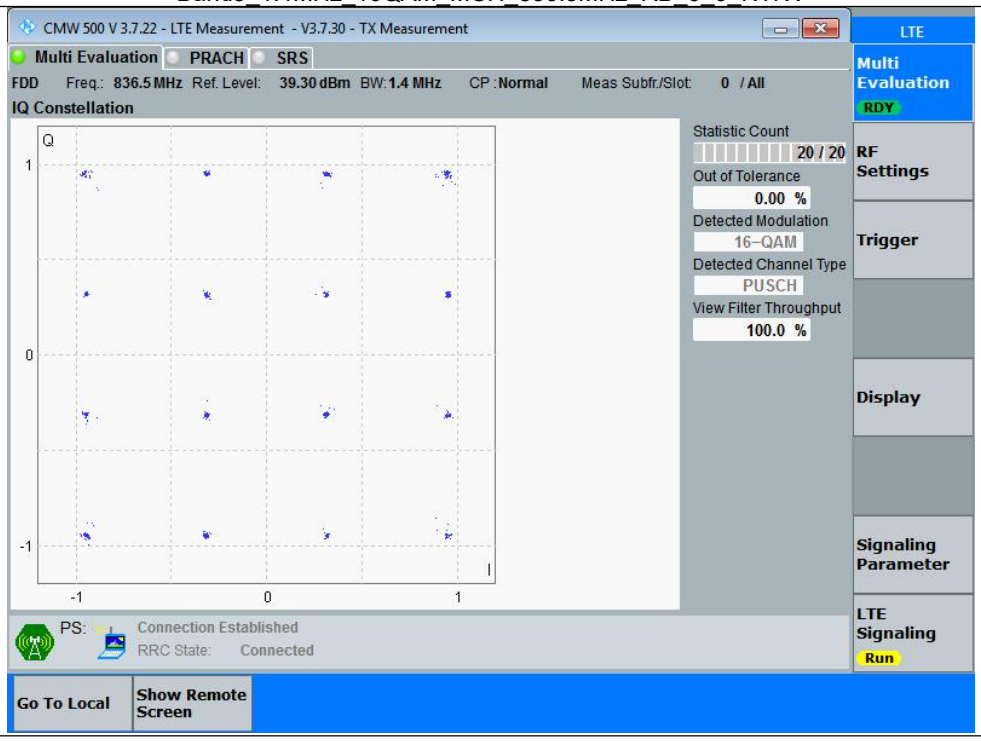
| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 6 | 0 | Refer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



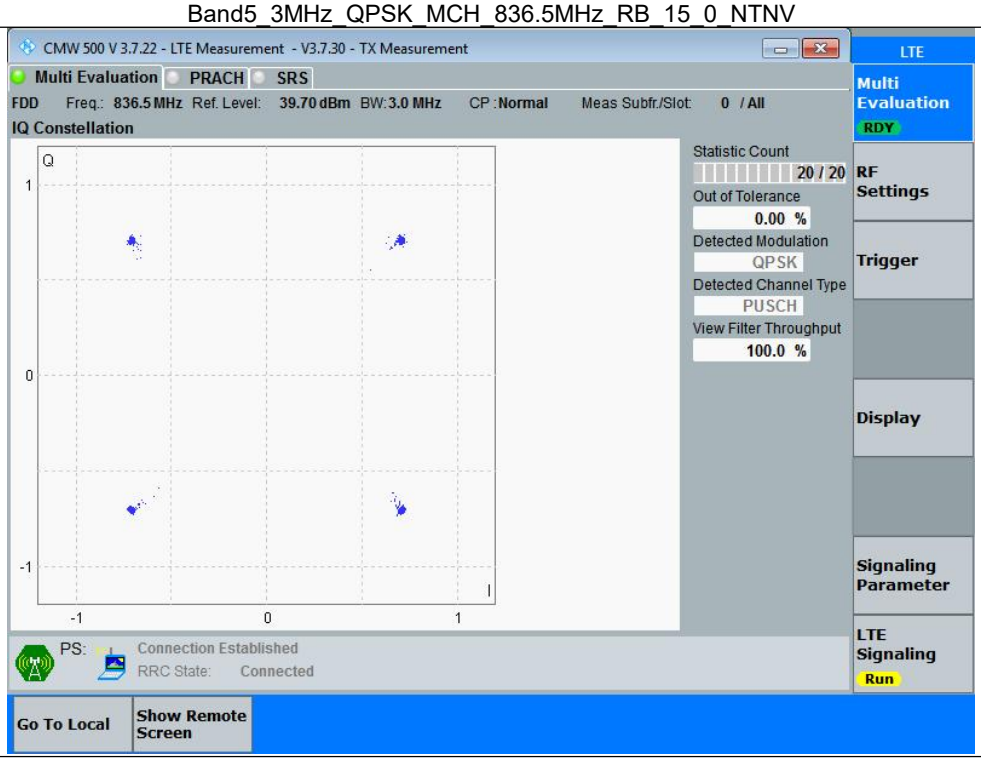
## 3.2 B5_3MHz

### 3.2.1 Test Result

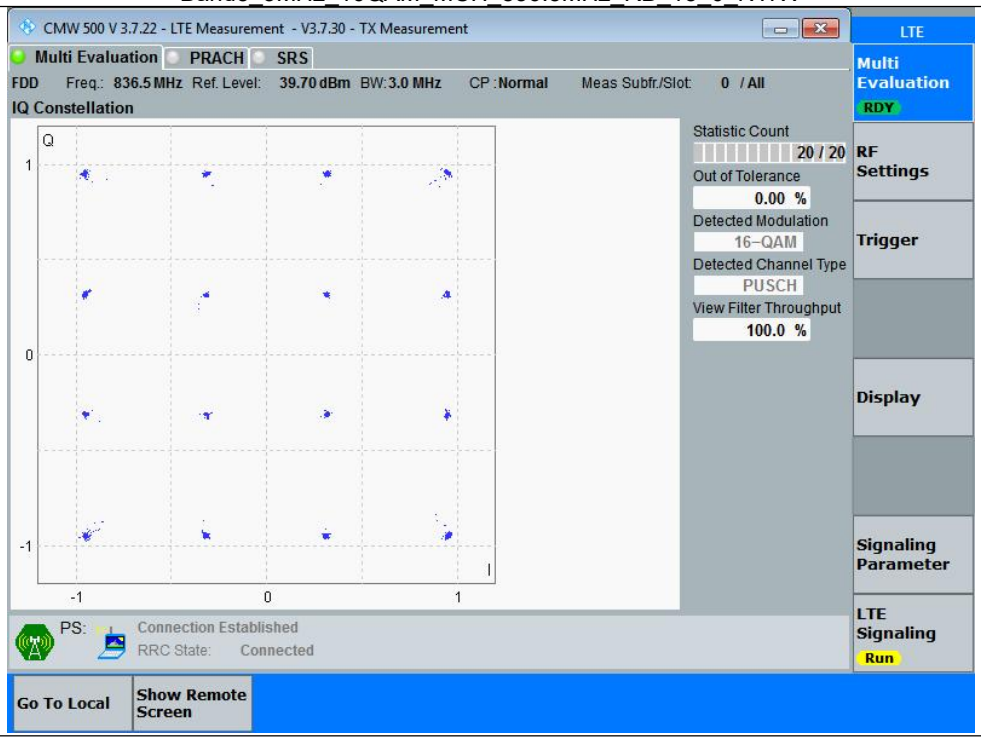
| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 15 | 0 | Refer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



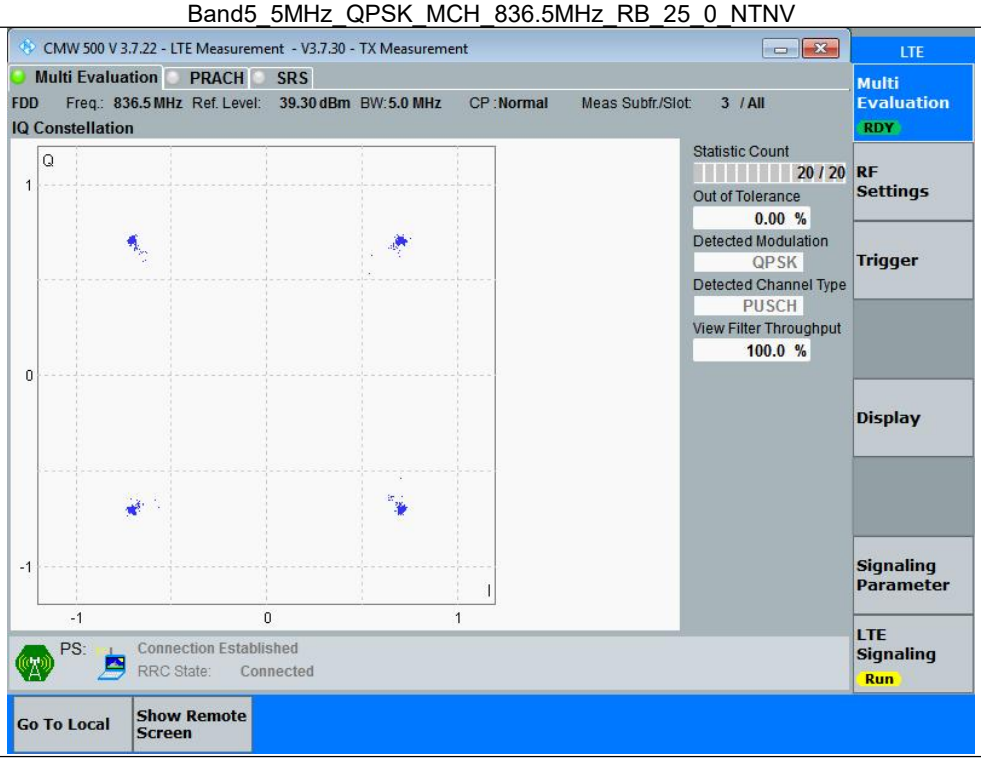
## 3.3 B5_5MHz

### 3.3.1 Test Result

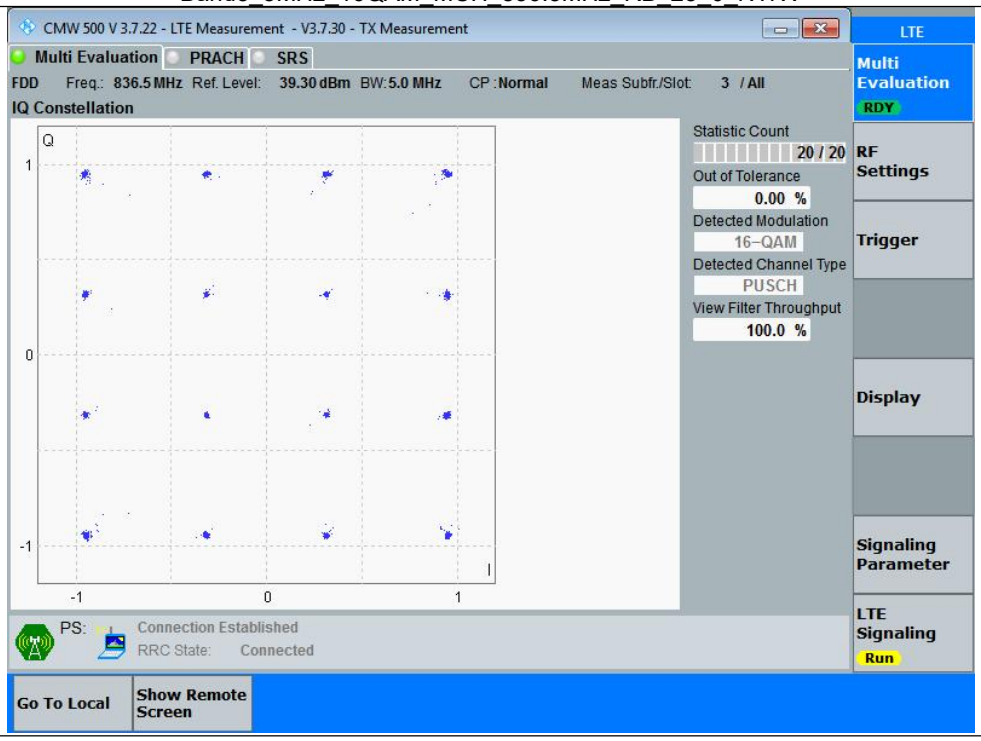
| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 836.5 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 836.5 | 25 | 0 | Refer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



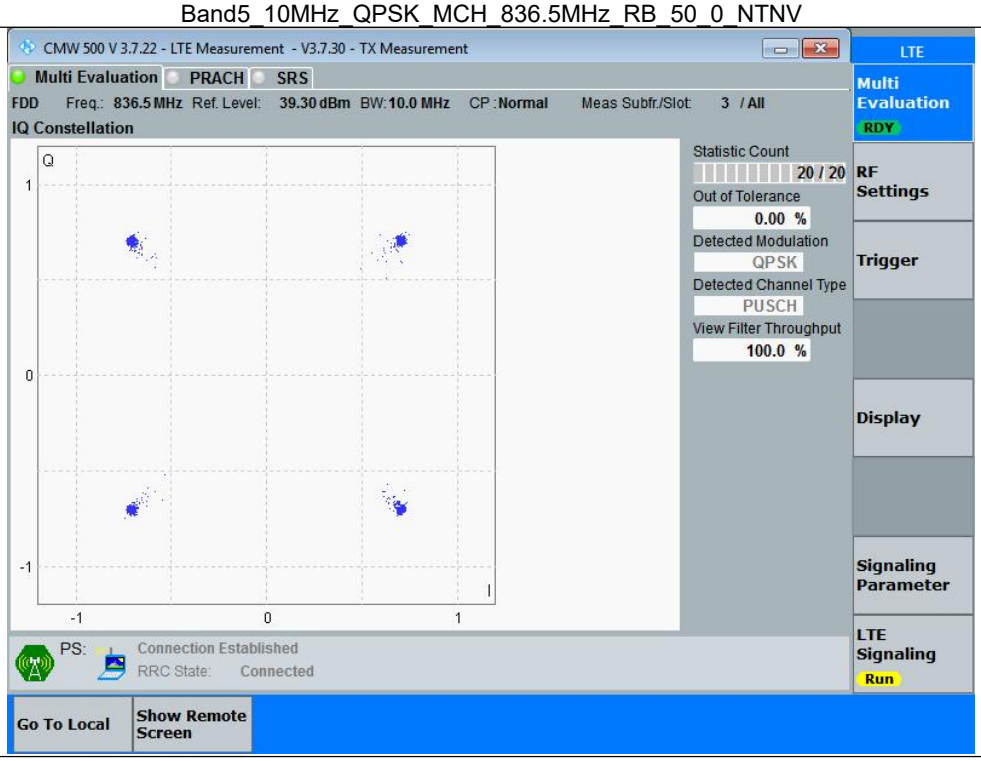
## 3.4 B5_10MHz

### 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 |

## 3.4.2 Test Graph

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



# 4. 99% & 26dB Bandwidth

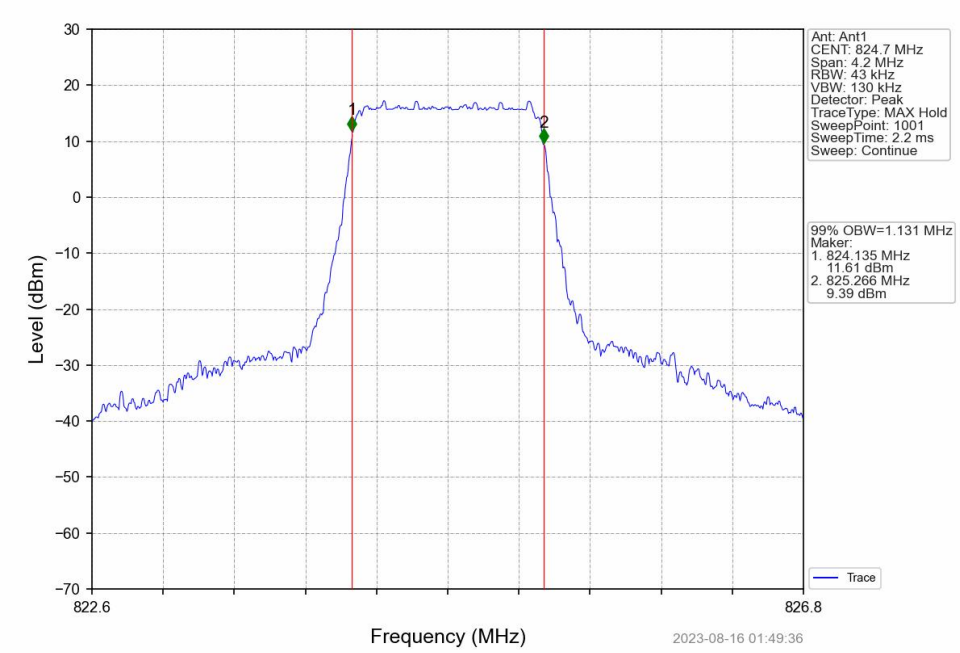
## 4.1 Band5_OBW

### 4.1.1 Test Result

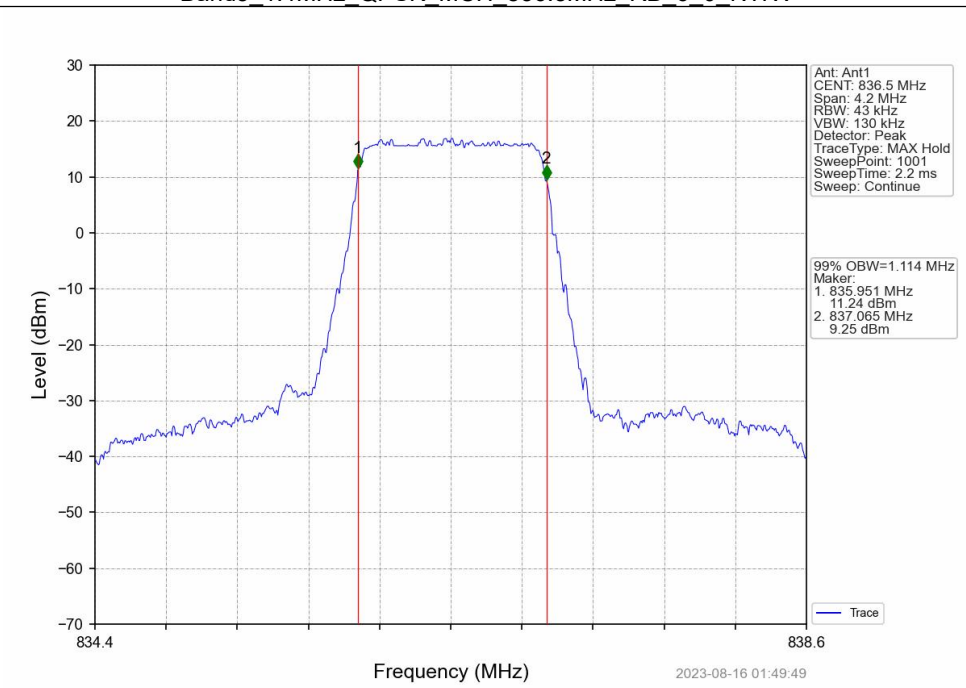
| Band: 5 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.131 | Pass |
| | | 836.5 | 6 | 0 | 1.114 | Pass |
| | | 848.3 | 6 | 0 | 1.120 | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.112 | Pass |
| | | 836.5 | 6 | 0 | 1.111 | Pass |
| | | 848.3 | 6 | 0 | 1.107 | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 2.735 | Pass |
| | | 836.5 | 15 | 0 | 2.753 | Pass |
| | | 847.5 | 15 | 0 | 2.746 | Pass |
| | 16QAM | 825.5 | 15 | 0 | 2.735 | Pass |
| | | 836.5 | 15 | 0 | 2.727 | Pass |
| | | 847.5 | 15 | 0 | 2.729 | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 4.544 | Pass |
| | | 836.5 | 25 | 0 | 4.570 | Pass |
| | | 846.5 | 25 | 0 | 4.549 | Pass |
| | 16QAM | 826.5 | 25 | 0 | 4.559 | Pass |
| | | 836.5 | 25 | 0 | 4.536 | Pass |
| | | 846.5 | 25 | 0 | 4.566 | Pass |
| 10 | QPSK | 829 | 50 | 0 | 9.066 | Pass |
| | | 836.5 | 50 | 0 | 9.008 | Pass |
| | | 844 | 50 | 0 | 9.042 | Pass |

## 4.1.2 Test Graph

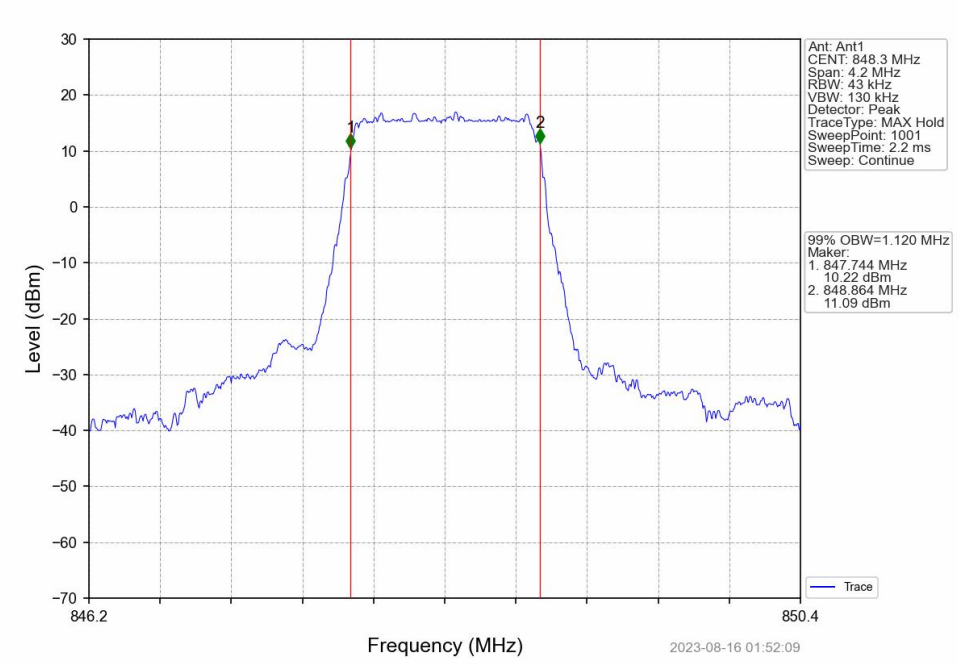
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



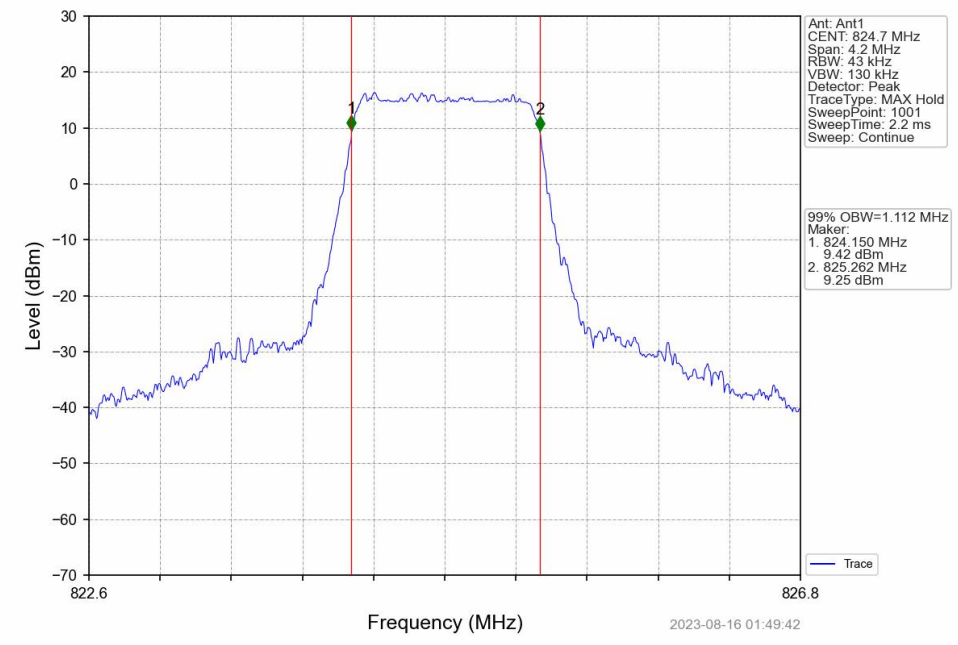

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



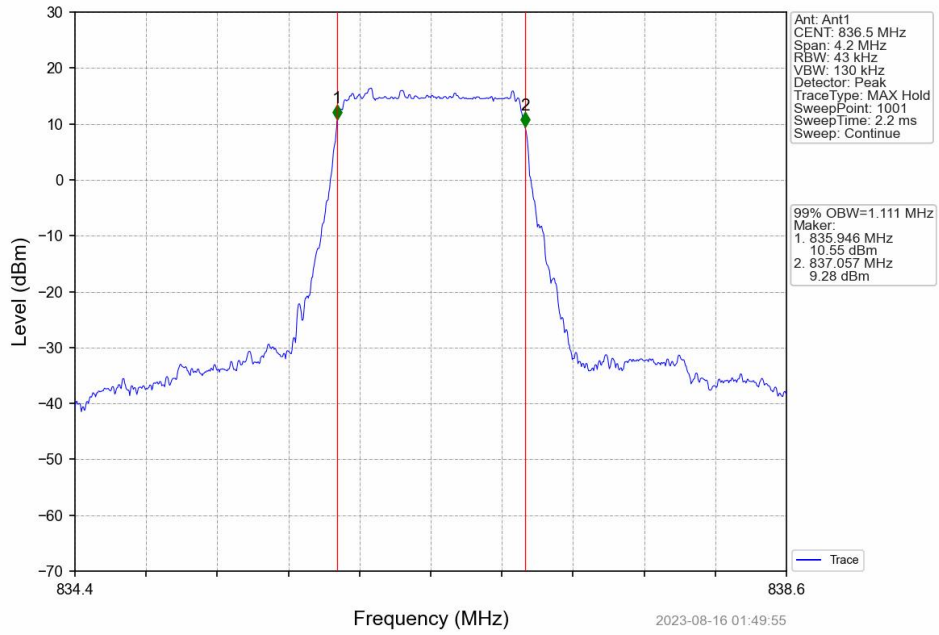
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



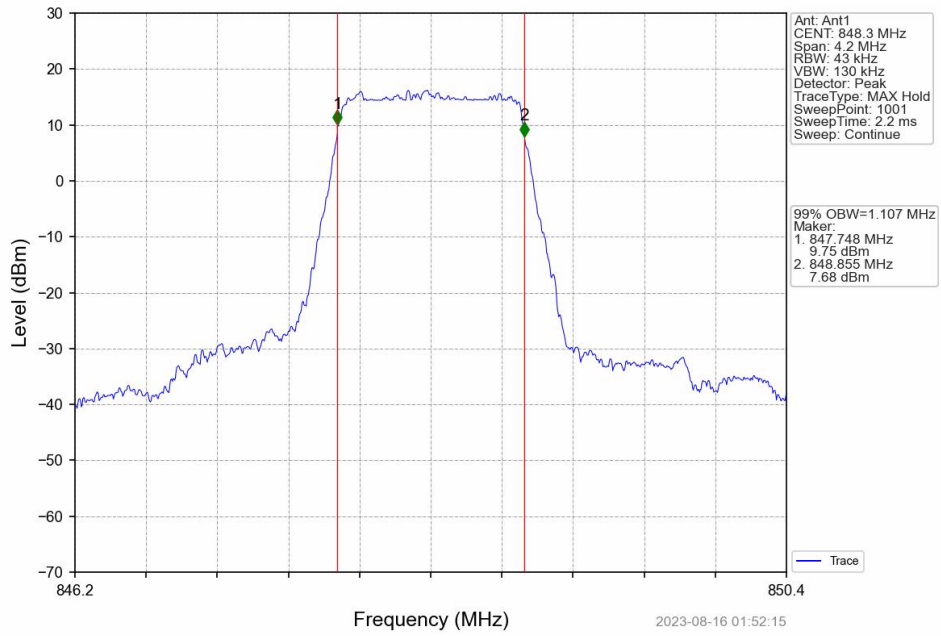

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



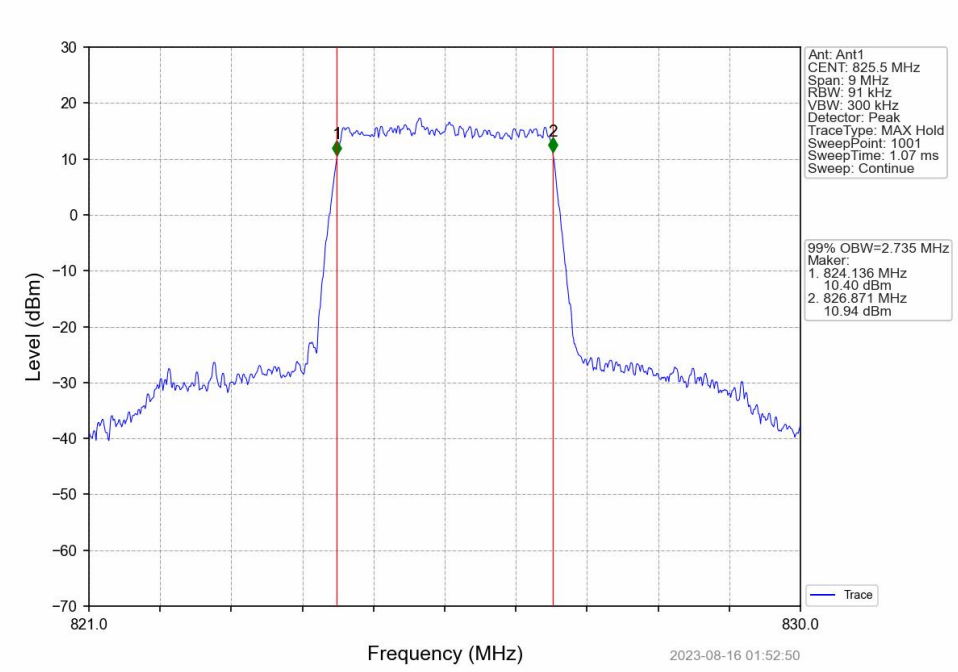
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



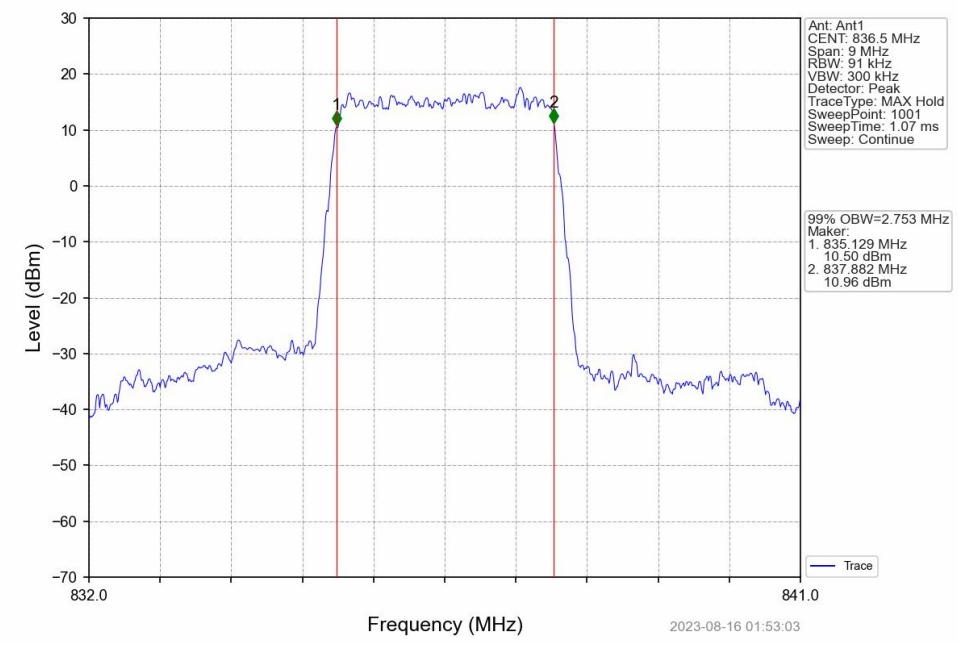

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



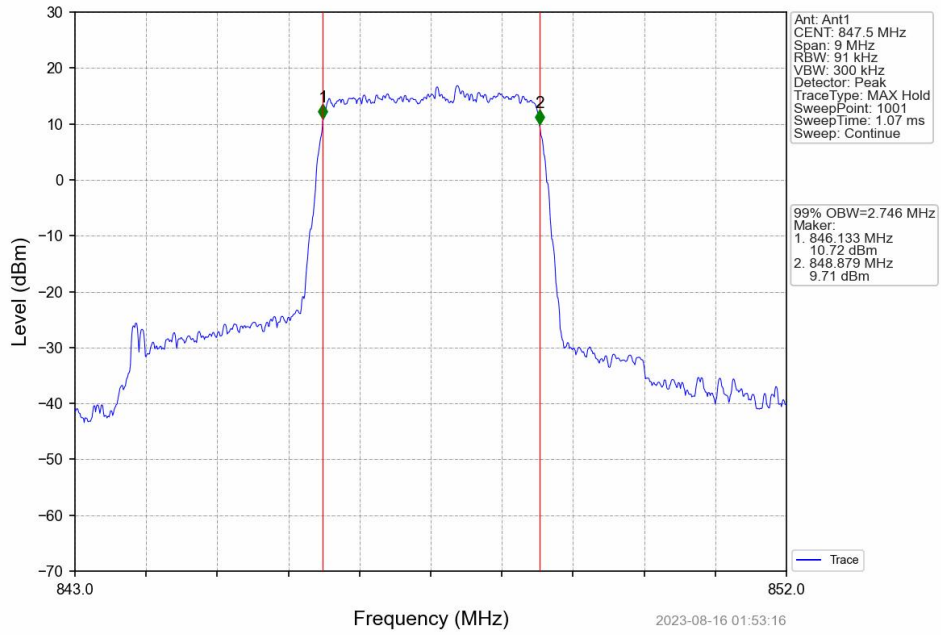
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



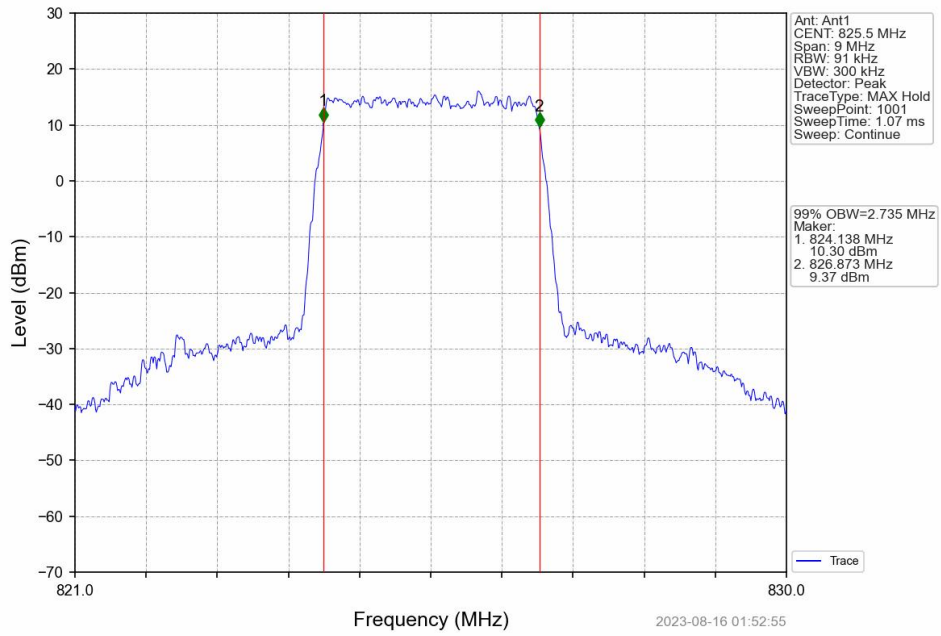

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



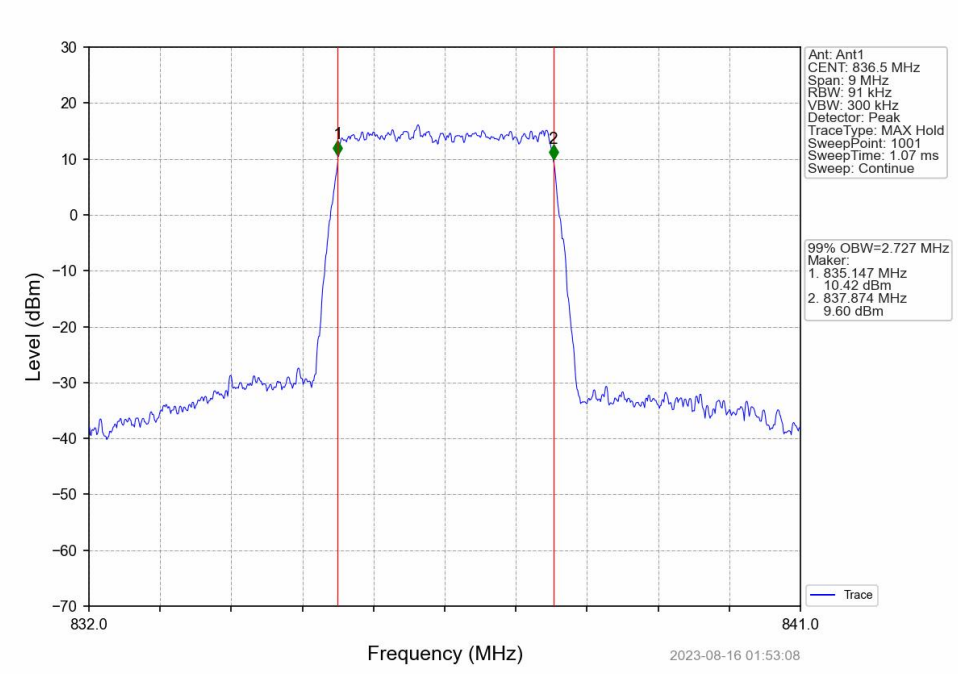
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



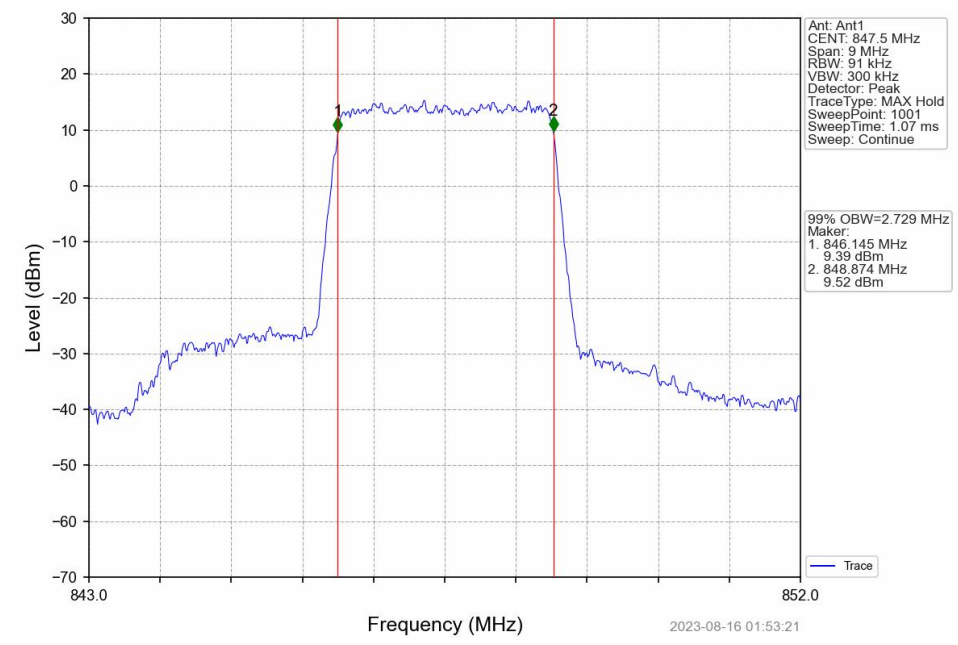

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



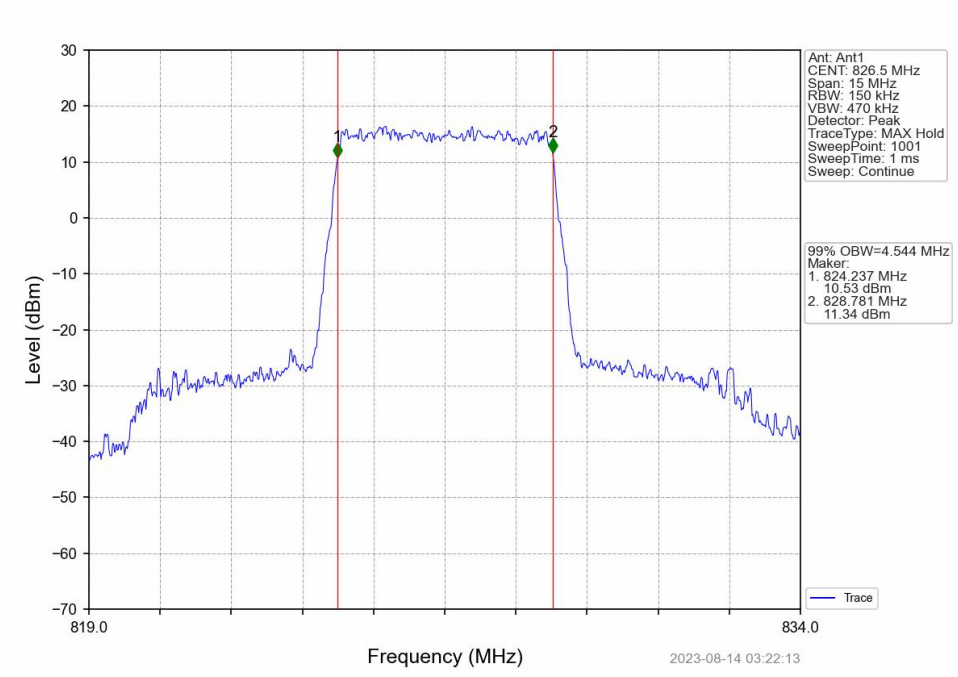
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



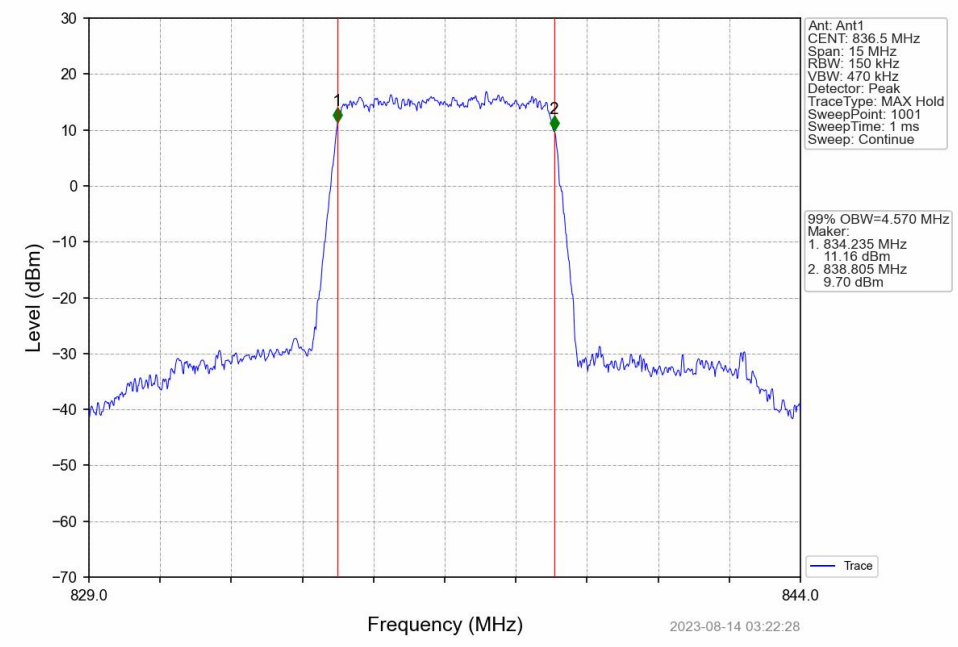

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



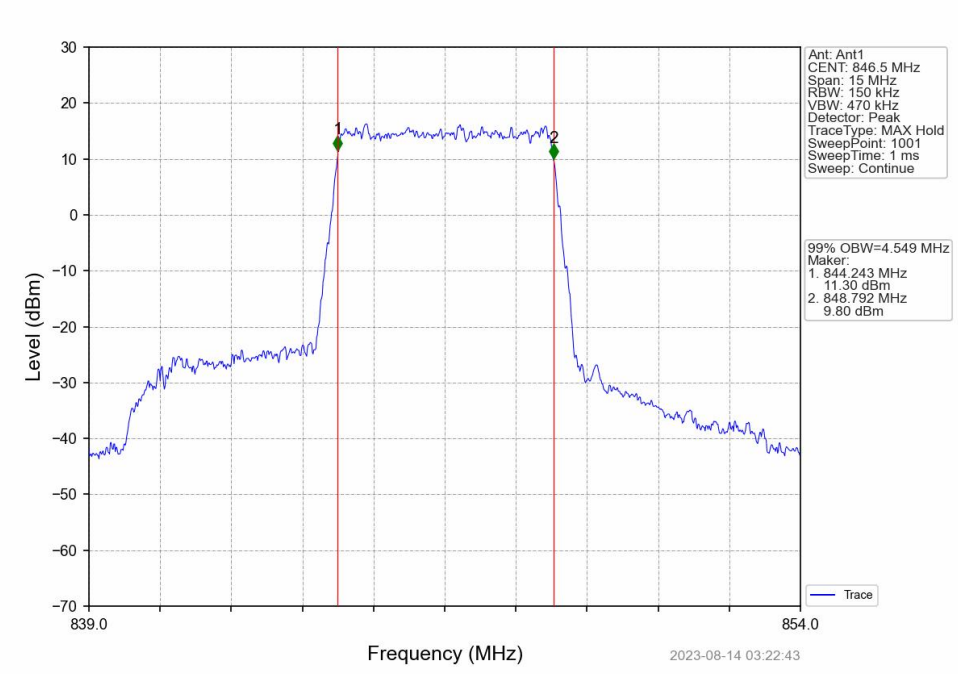
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



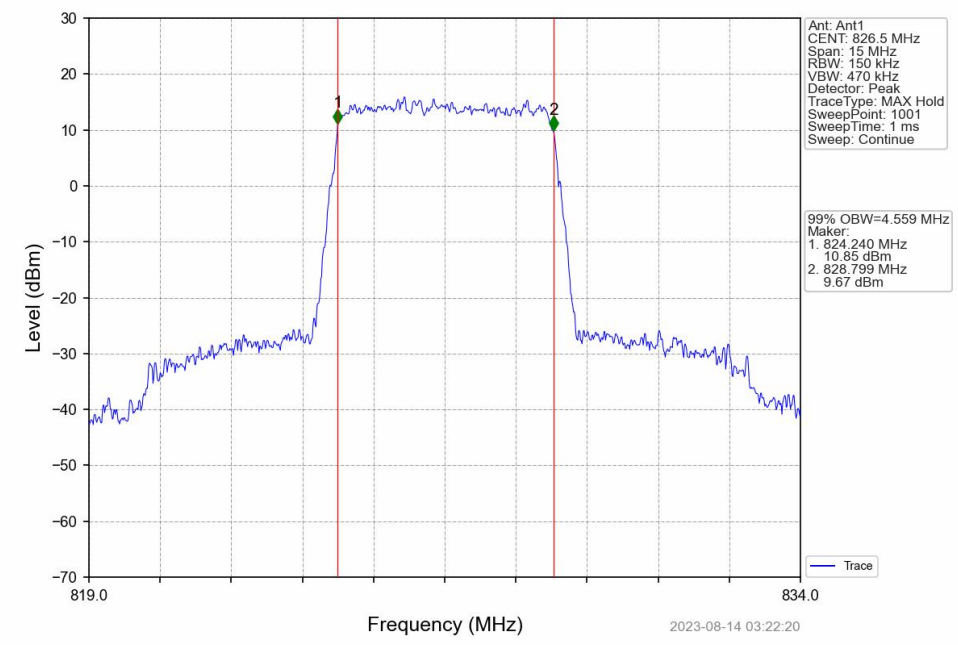

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



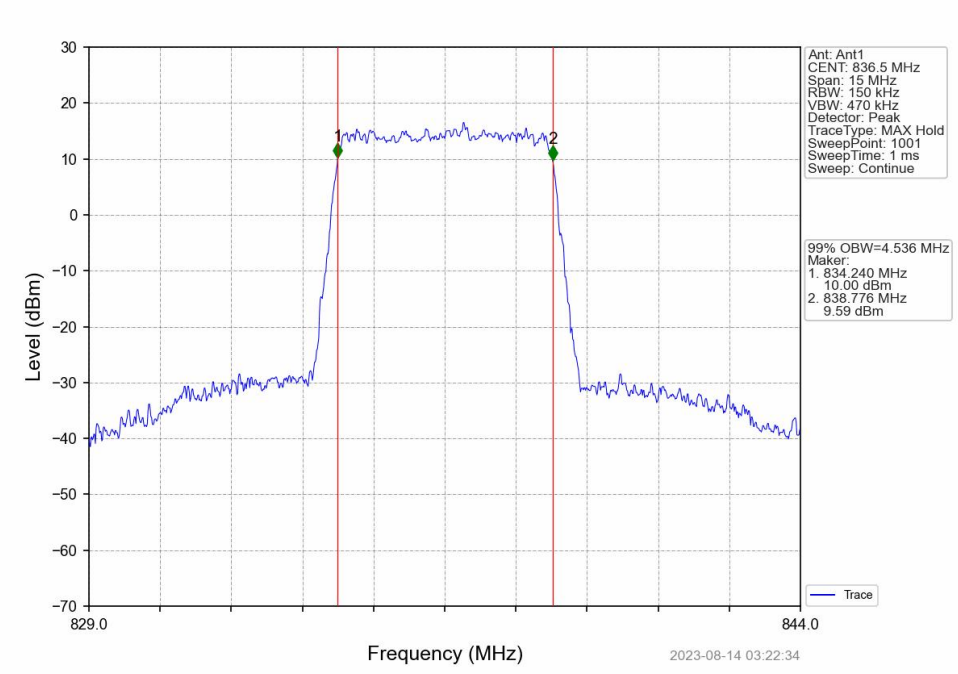
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



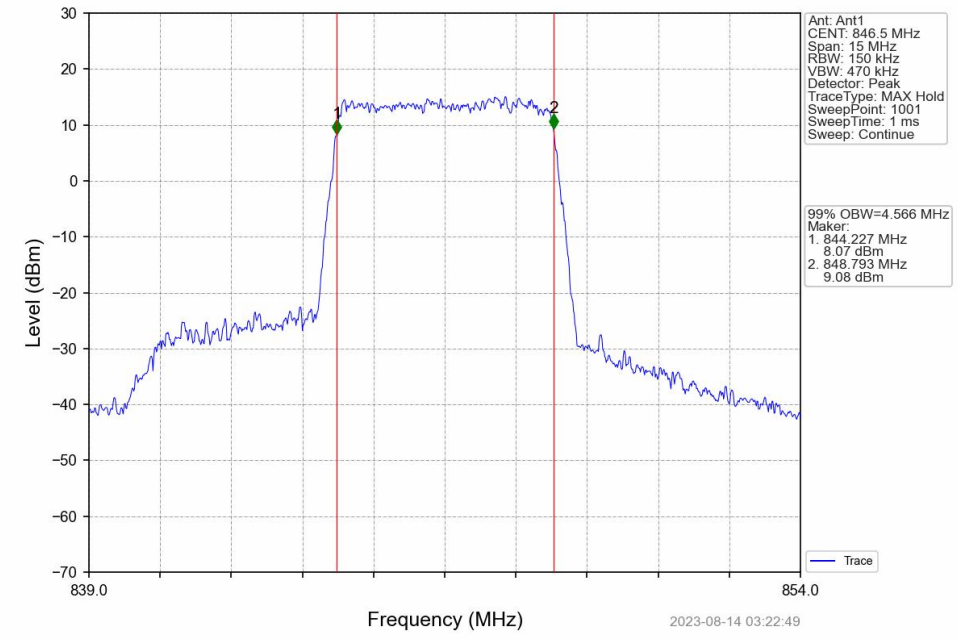

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



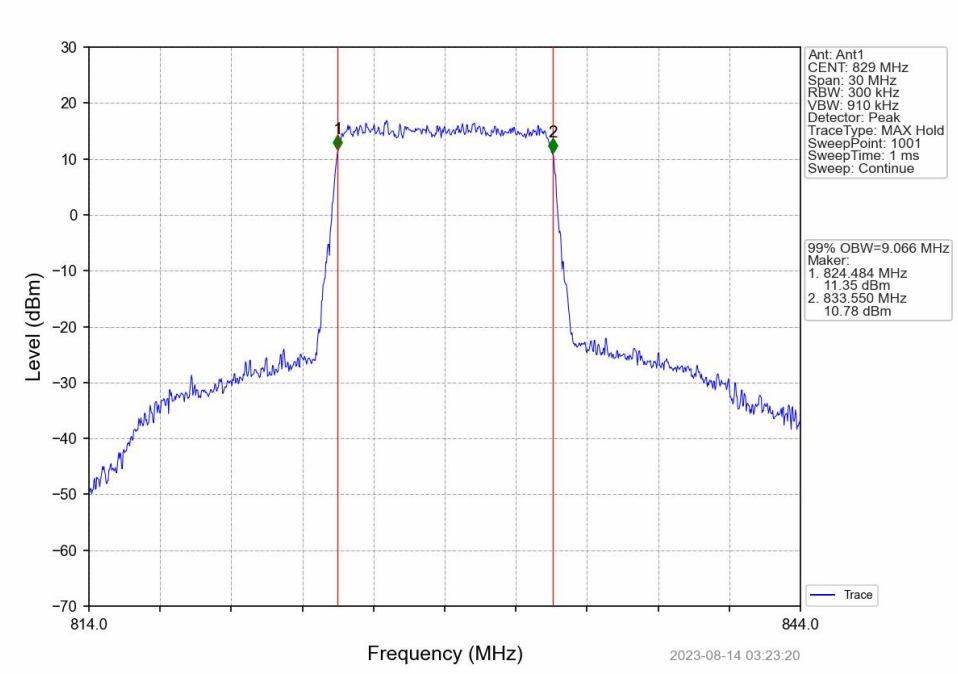
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



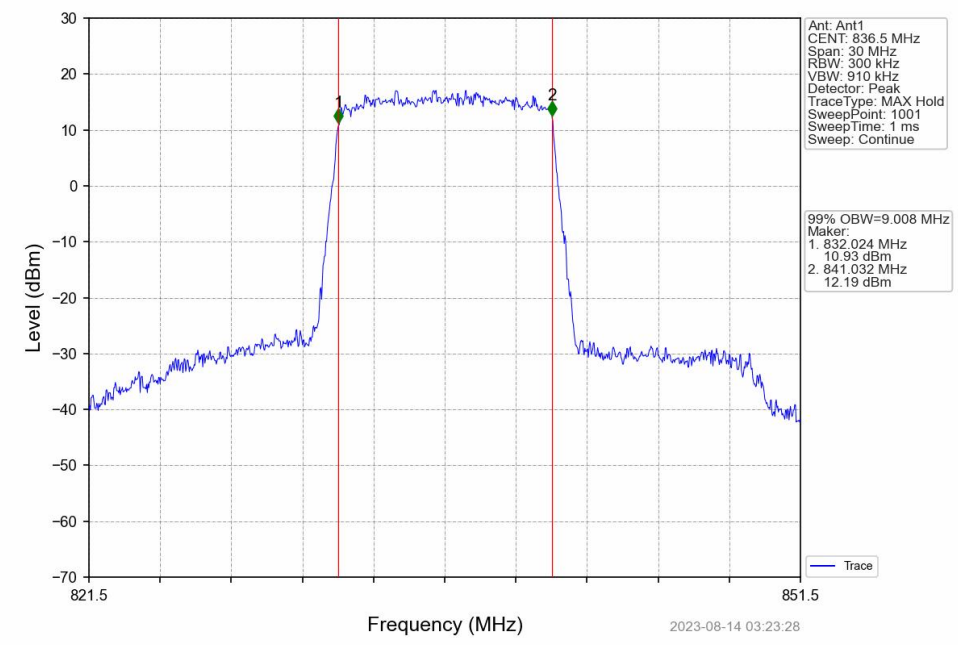

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



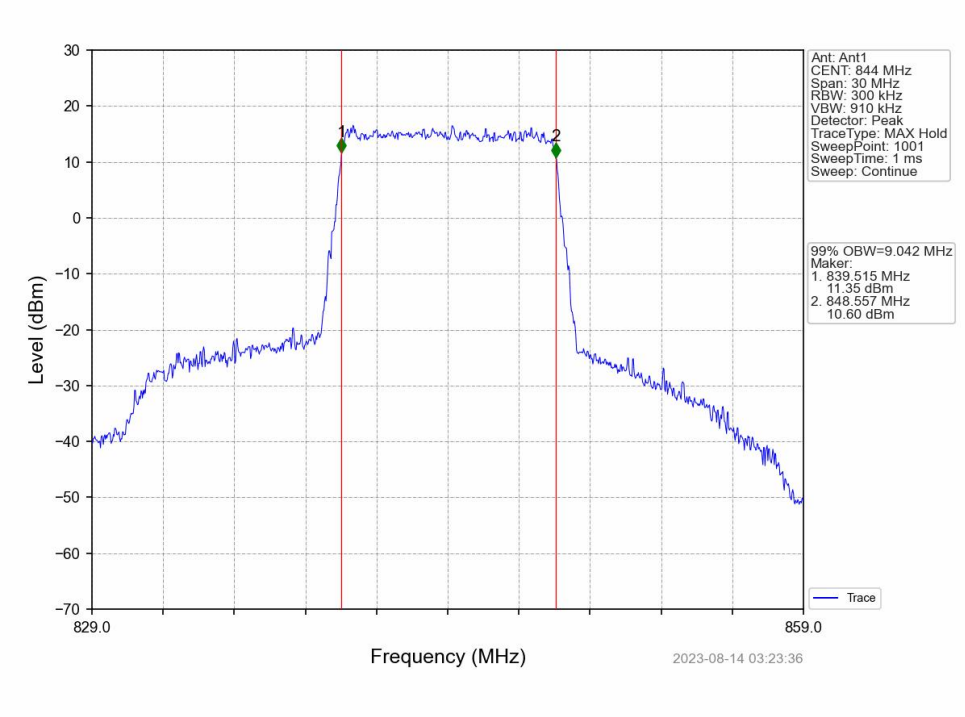
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV




Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



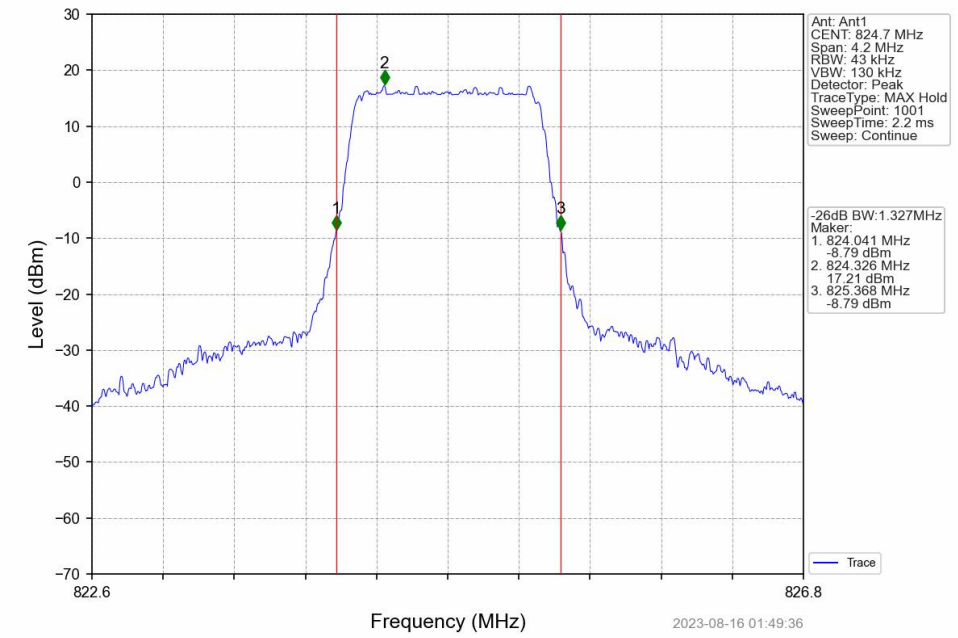
## 4.2 Band5_XDB

### 4.2.1 Test Result

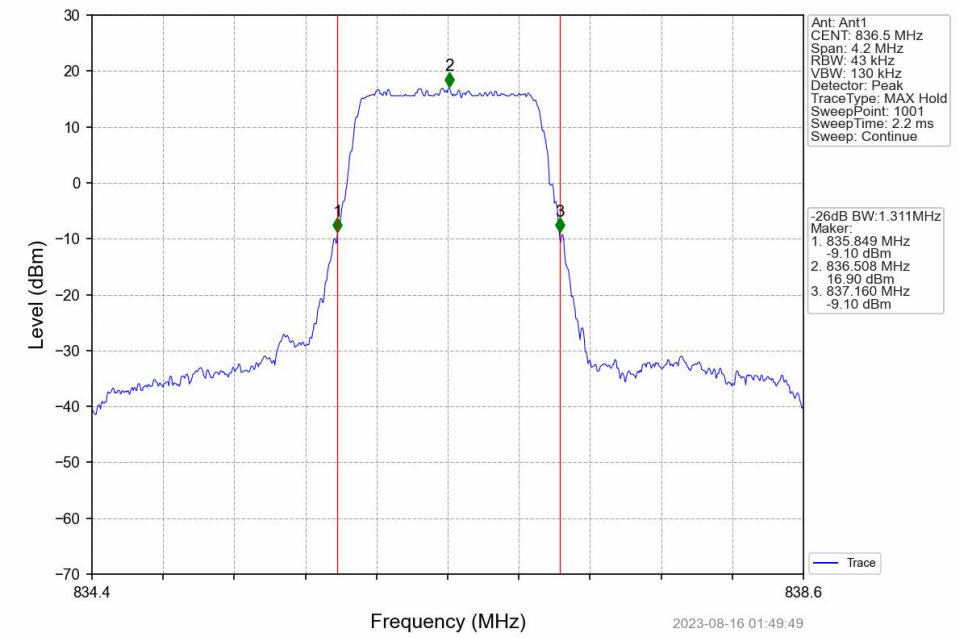
| Band: 5 / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | Verdict |
| | | | Size | Offset | Result | |
| 1.4 | QPSK | 824.7 | 6 | 0 | 1.327 | Pass |
| | | 836.5 | 6 | 0 | 1.311 | Pass |
| | | 848.3 | 6 | 0 | 1.315 | Pass |
| | 16QAM | 824.7 | 6 | 0 | 1.319 | Pass |
| | | 836.5 | 6 | 0 | 1.311 | Pass |
| | | 848.3 | 6 | 0 | 1.328 | Pass |
| 3 | QPSK | 825.5 | 15 | 0 | 3.046 | Pass |
| | | 836.5 | 15 | 0 | 3.037 | Pass |
| | | 847.5 | 15 | 0 | 3.051 | Pass |
| | 16QAM | 825.5 | 15 | 0 | 3.068 | Pass |
| | | 836.5 | 15 | 0 | 3.055 | Pass |
| | | 847.5 | 15 | 0 | 3.028 | Pass |
| 5 | QPSK | 826.5 | 25 | 0 | 5.120 | Pass |
| | | 836.5 | 25 | 0 | 5.082 | Pass |
| | | 846.5 | 25 | 0 | 5.117 | Pass |
| | 16QAM | 826.5 | 25 | 0 | 5.084 | Pass |
| | | 836.5 | 25 | 0 | 5.029 | Pass |
| | | 846.5 | 25 | 0 | 5.120 | Pass |
| 10 | QPSK | 829 | 50 | 0 | 10.038 | Pass |
| | | 836.5 | 50 | 0 | 10.040 | Pass |
| | | 844 | 50 | 0 | 10.196 | Pass |

## 4.2.2 Test Graph

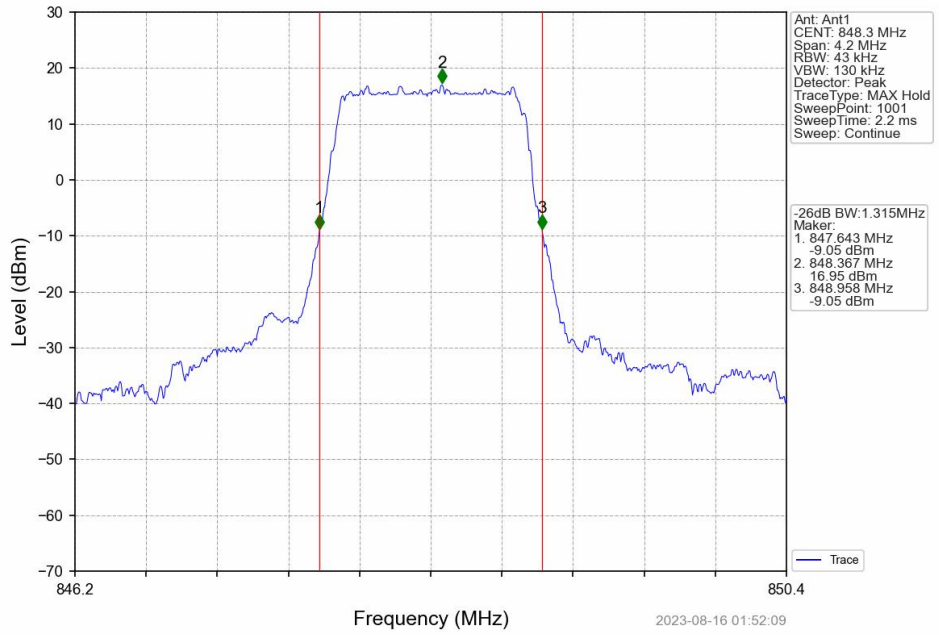
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



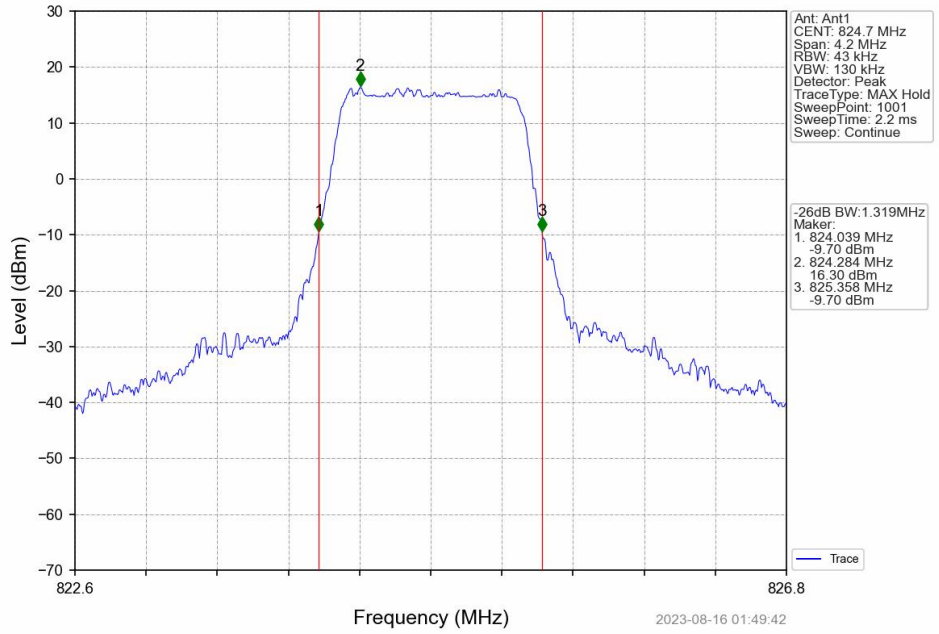

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



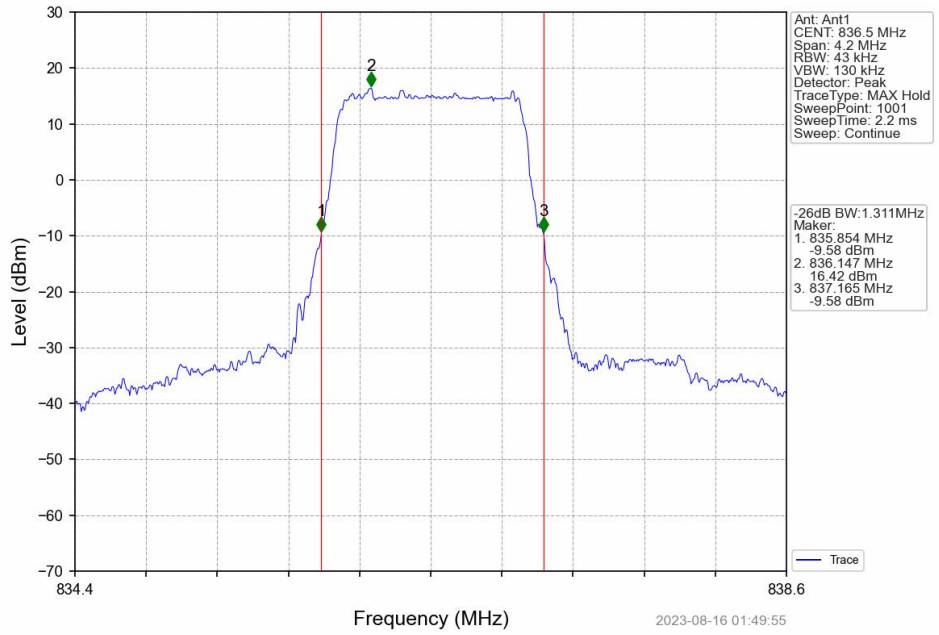
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



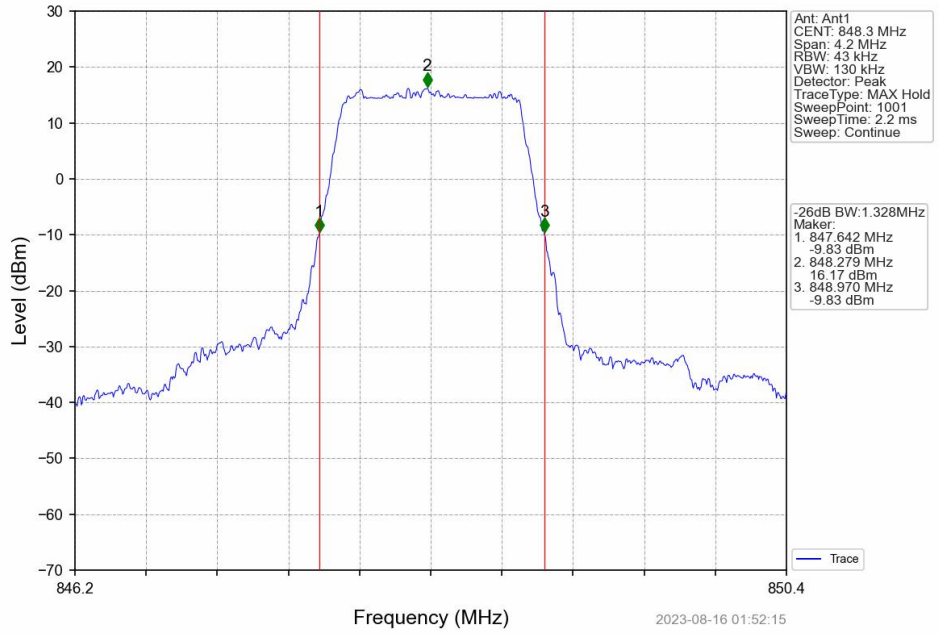

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



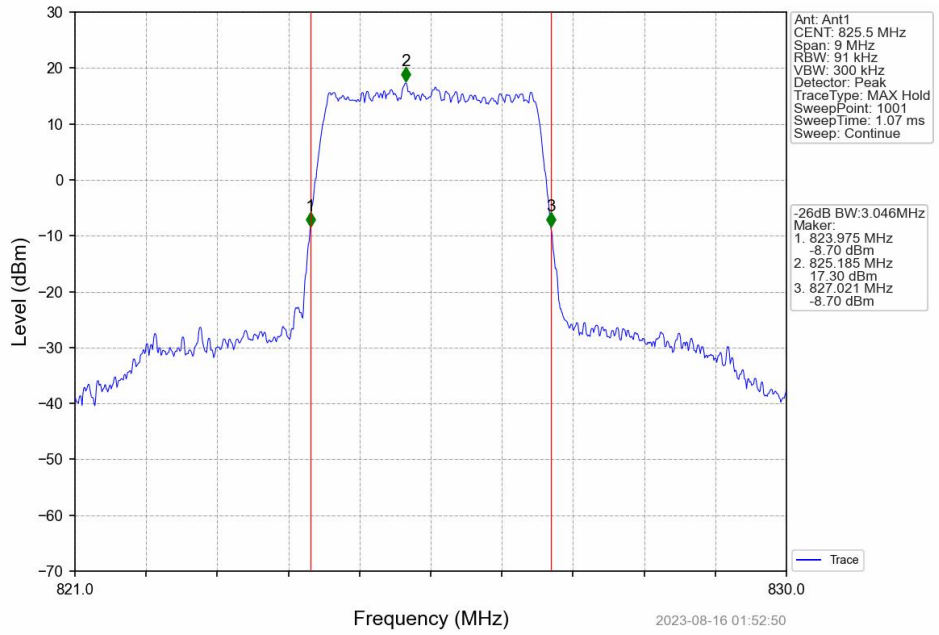
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



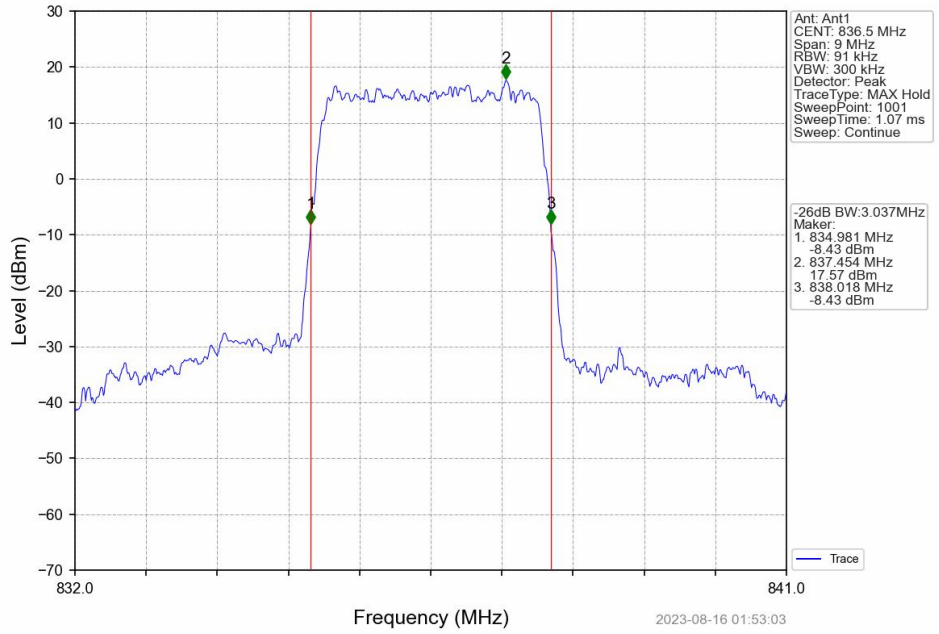

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



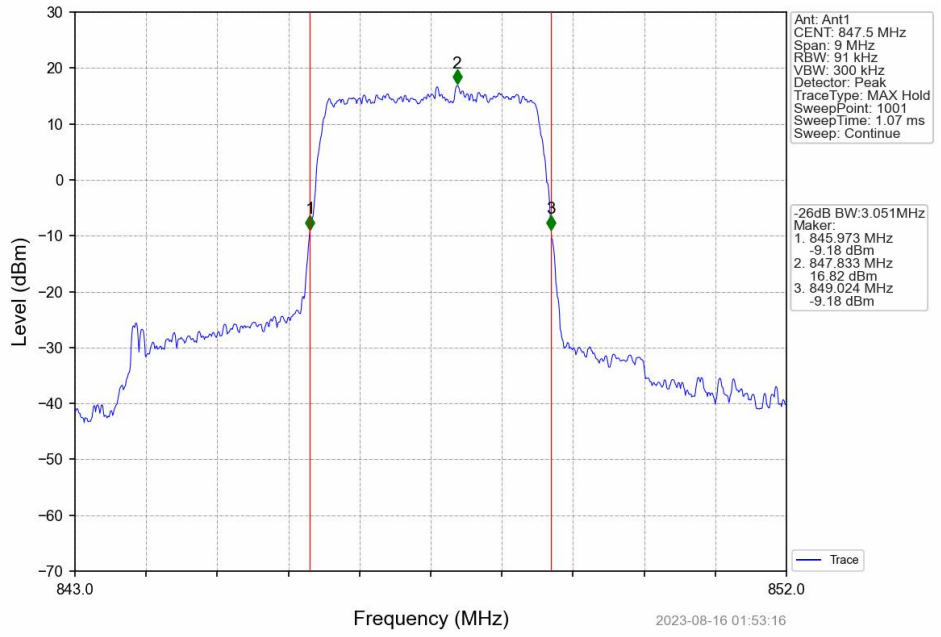
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



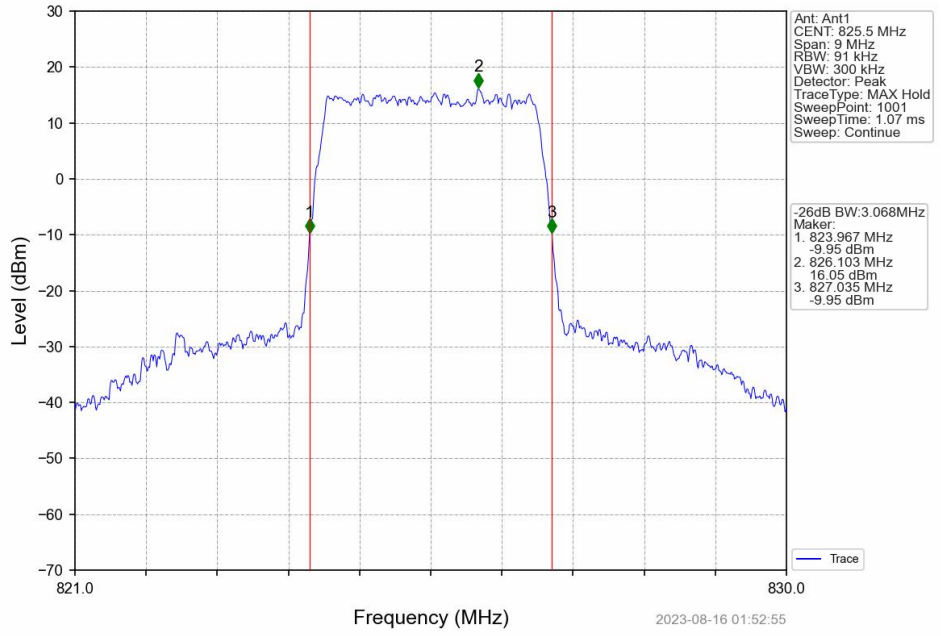

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



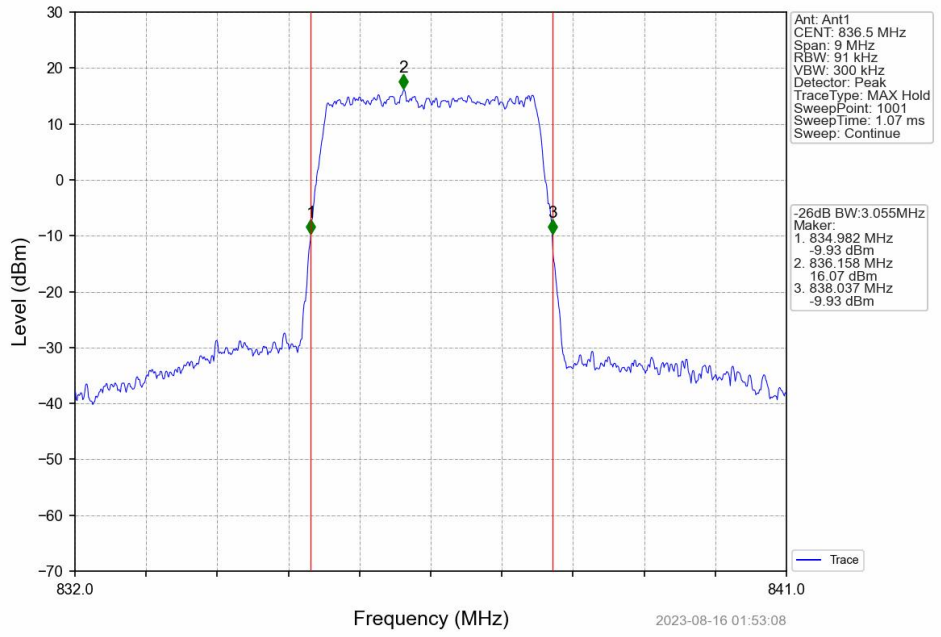
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



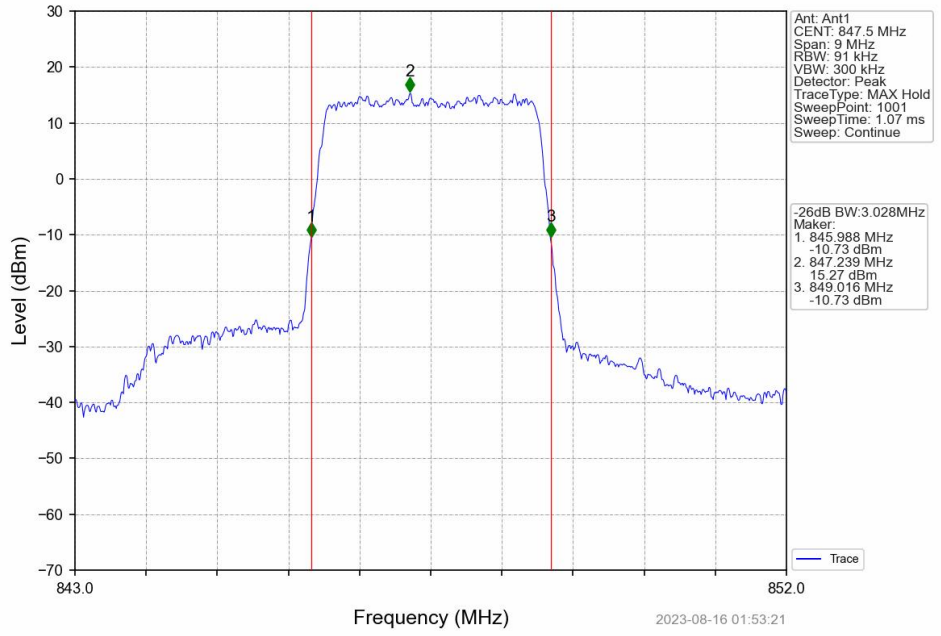

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



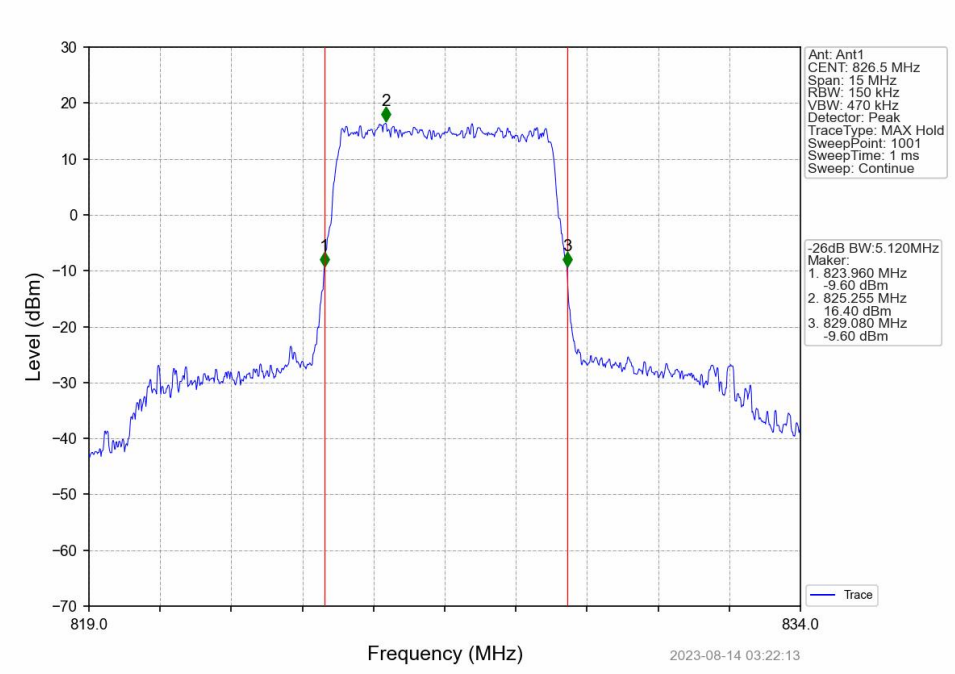
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



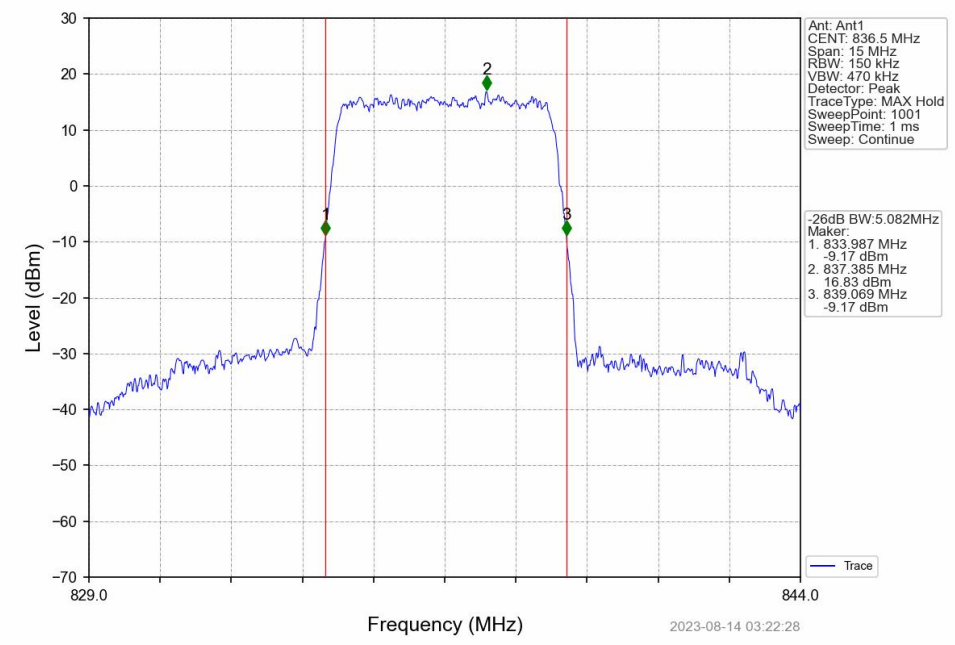

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



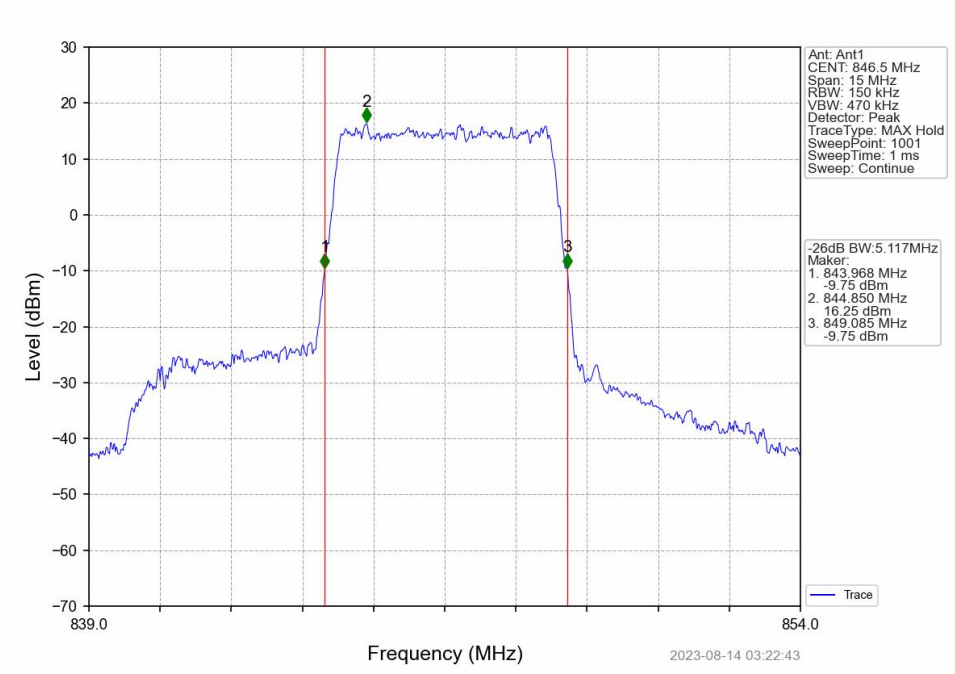
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



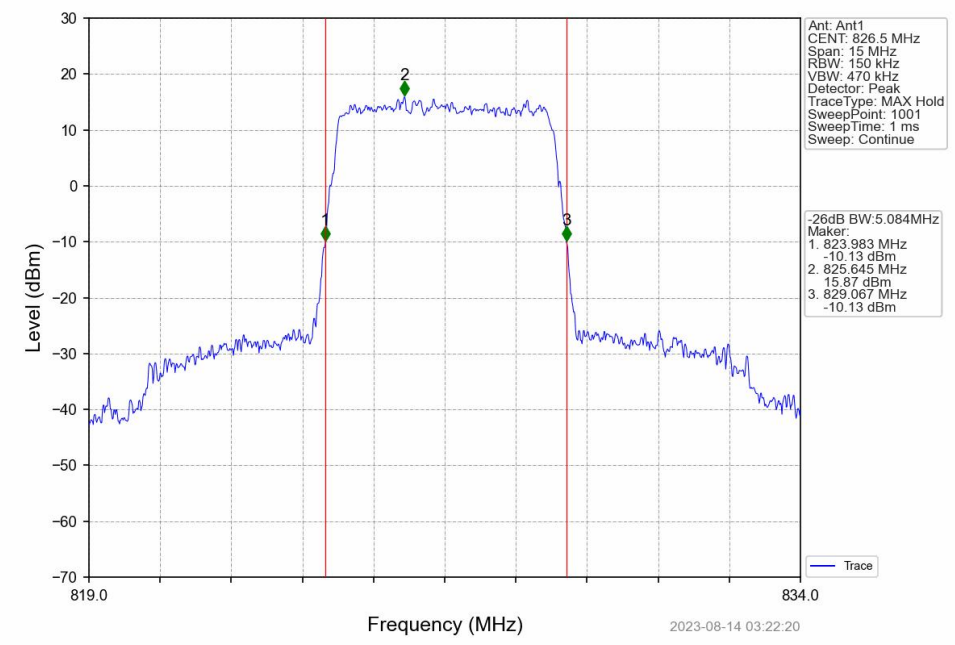

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



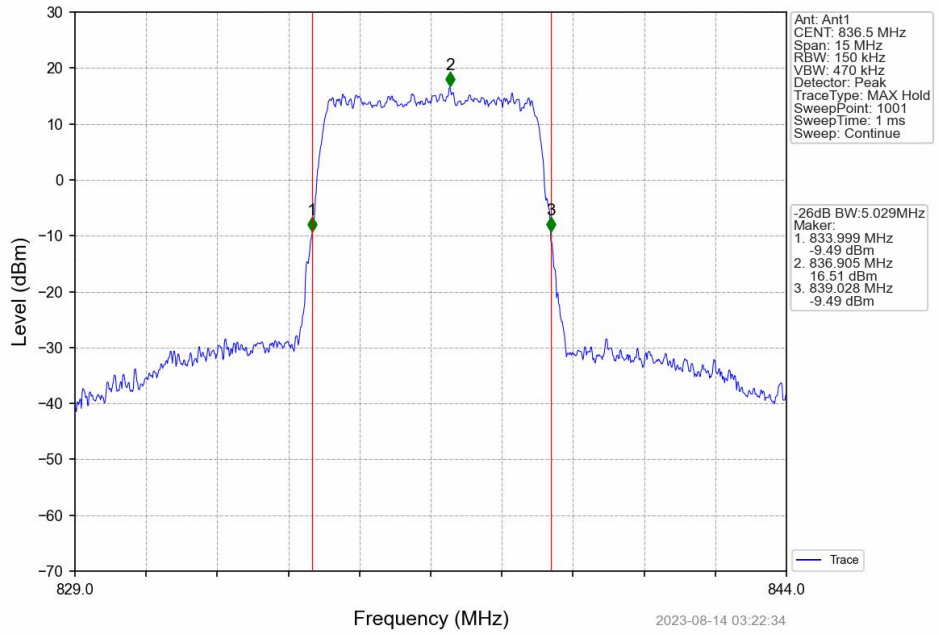
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



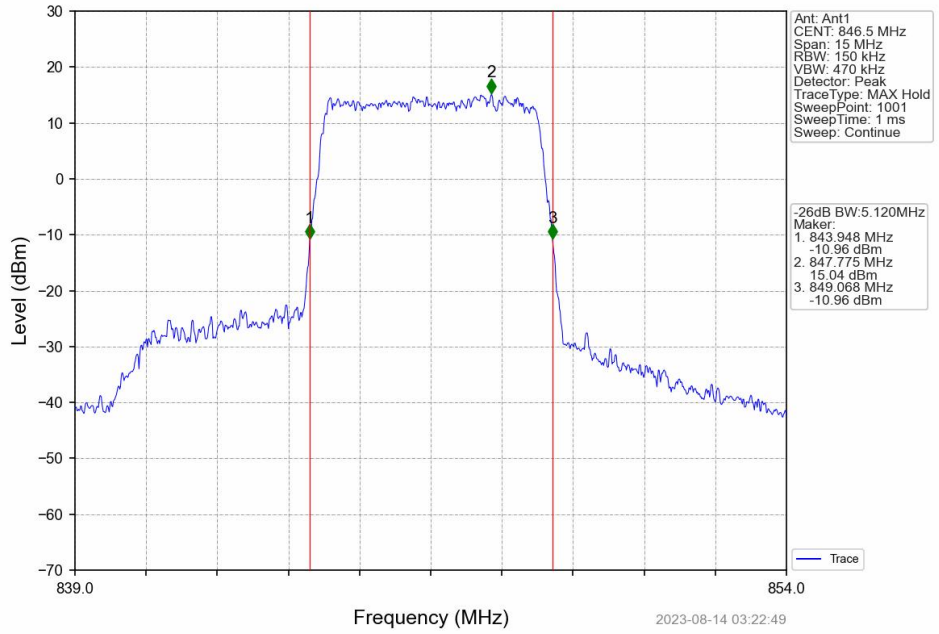

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



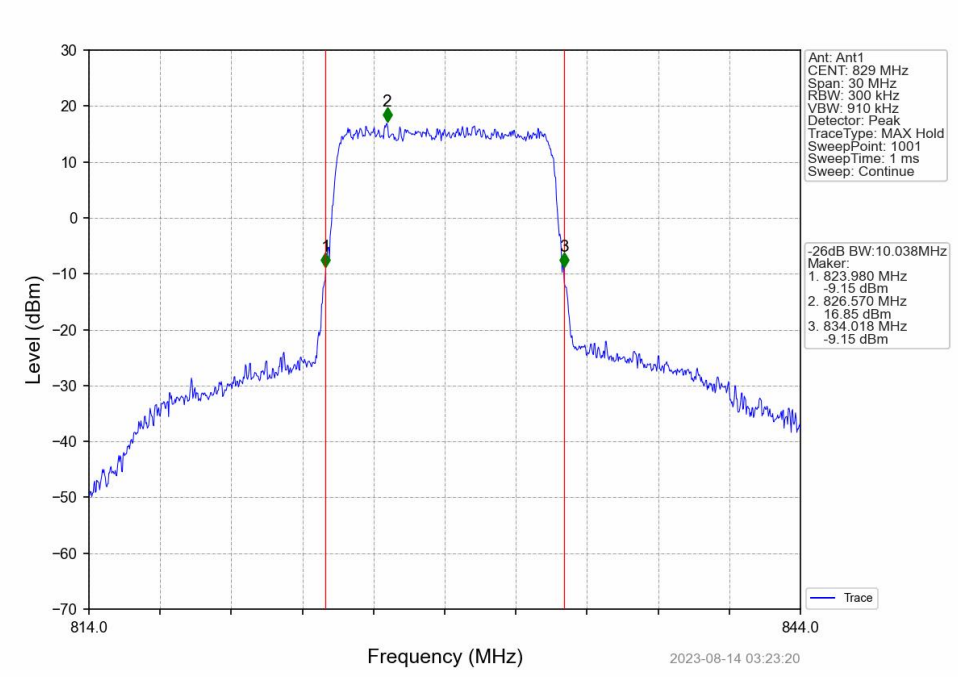
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



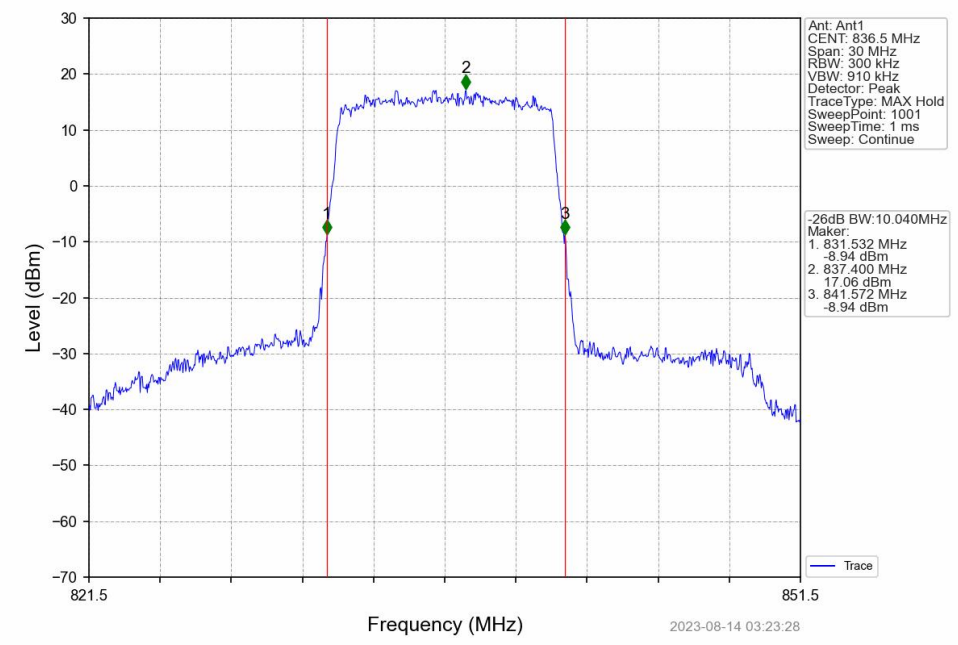

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



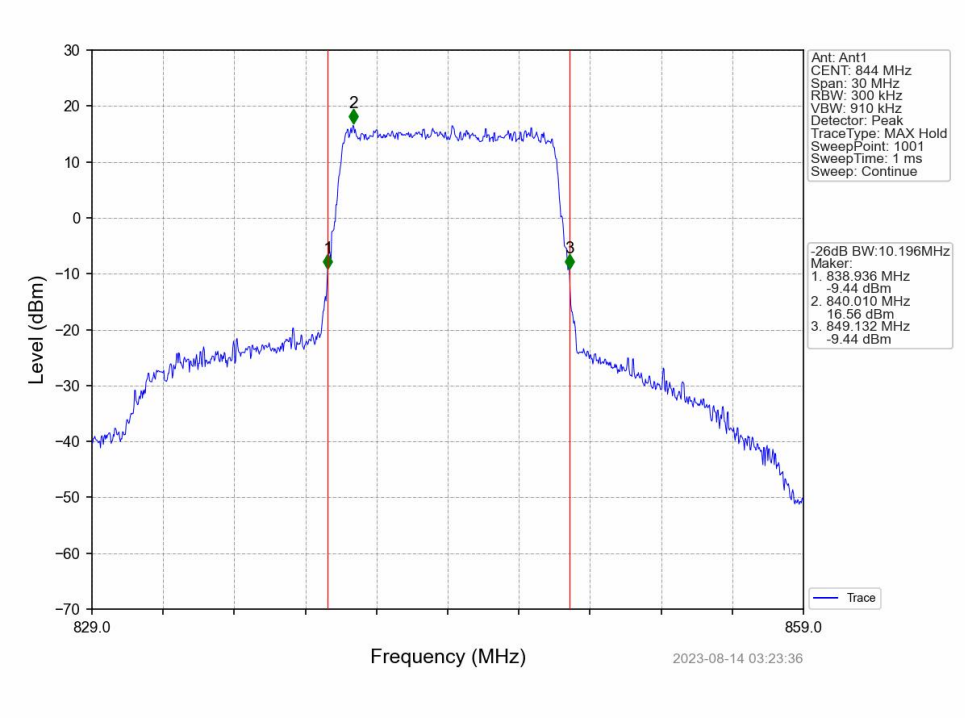
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV




Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



# 5. Peak-Average Ratio

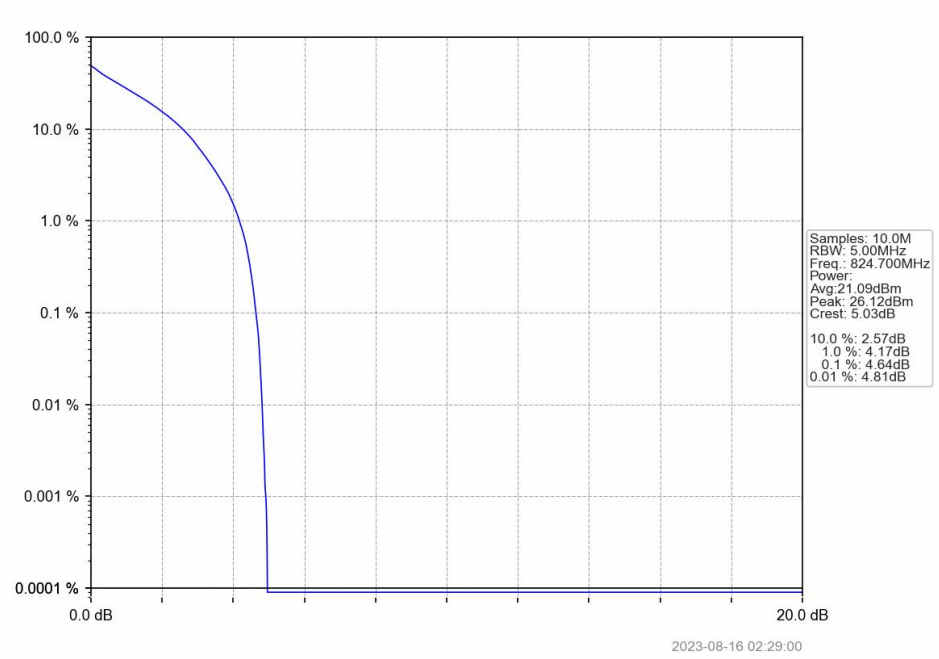
## 5.1 B5_1.4MHz

### 5.1.1 Test Result

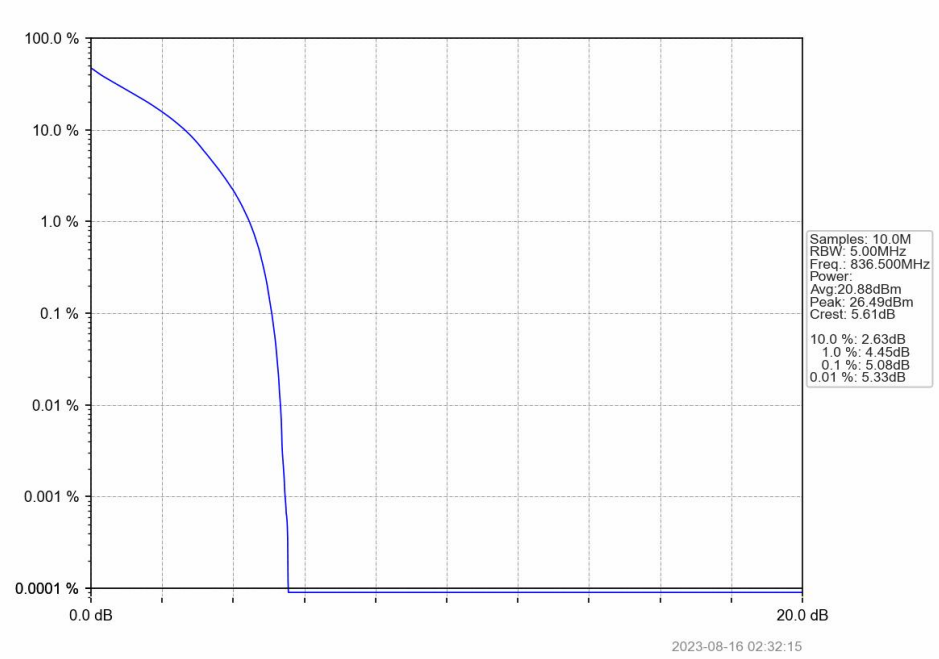
| Band: 5 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 824.7 | 6 | 0 | 4.64 | <=13 | Pass |
| | 836.5 | 6 | 0 | 5.08 | <=13 | Pass |
| | 848.3 | 6 | 0 | 5.08 | <=13 | Pass |
| 16QAM | 824.7 | 6 | 0 | 5.46 | <=13 | Pass |
| | 836.5 | 6 | 0 | 5.92 | <=13 | Pass |
| | 848.3 | 6 | 0 | 5.90 | <=13 | Pass |

## 5.1.2 Test Graph

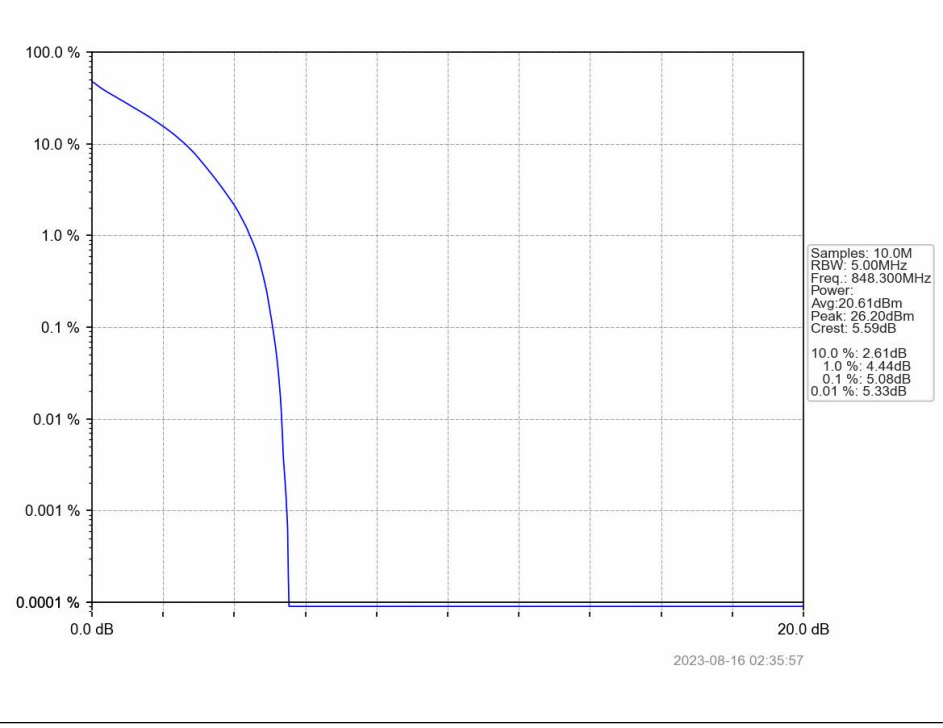
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



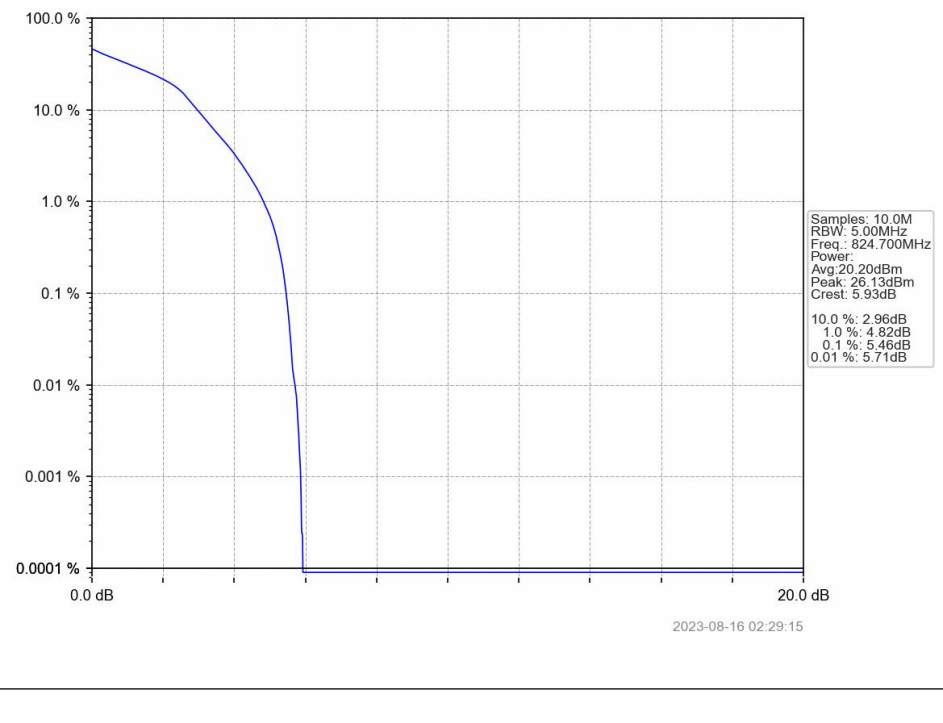

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



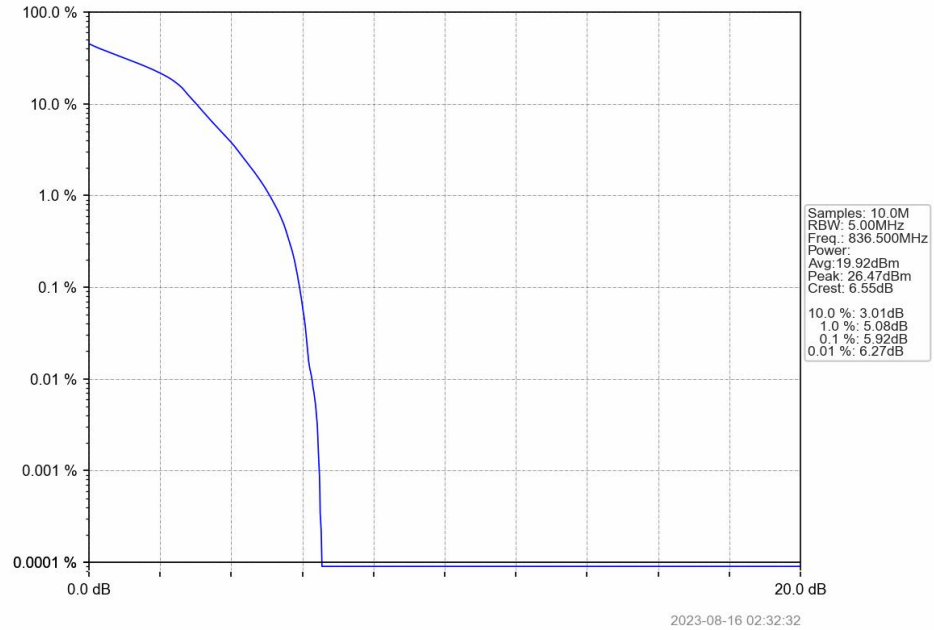
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



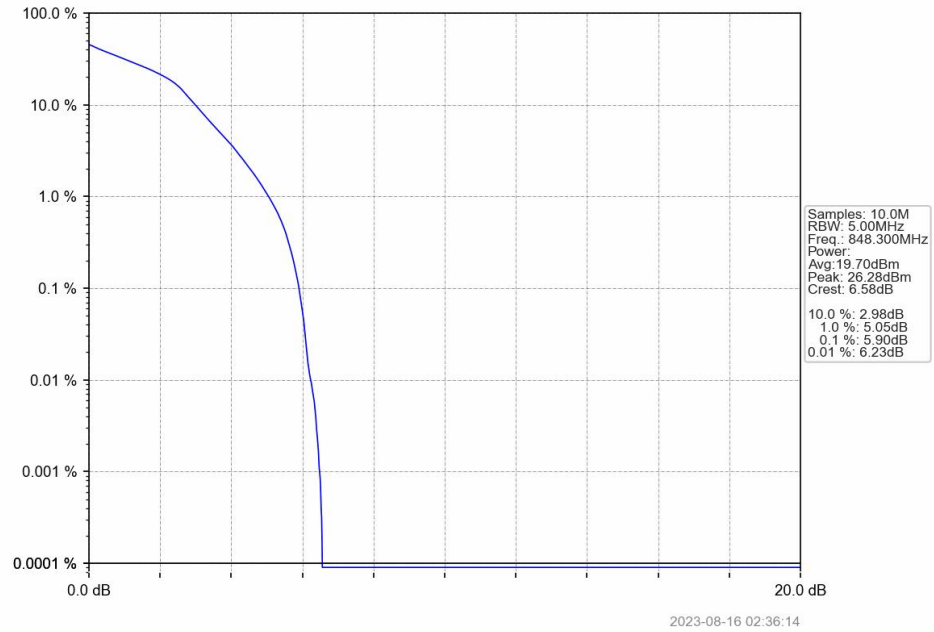

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV




Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



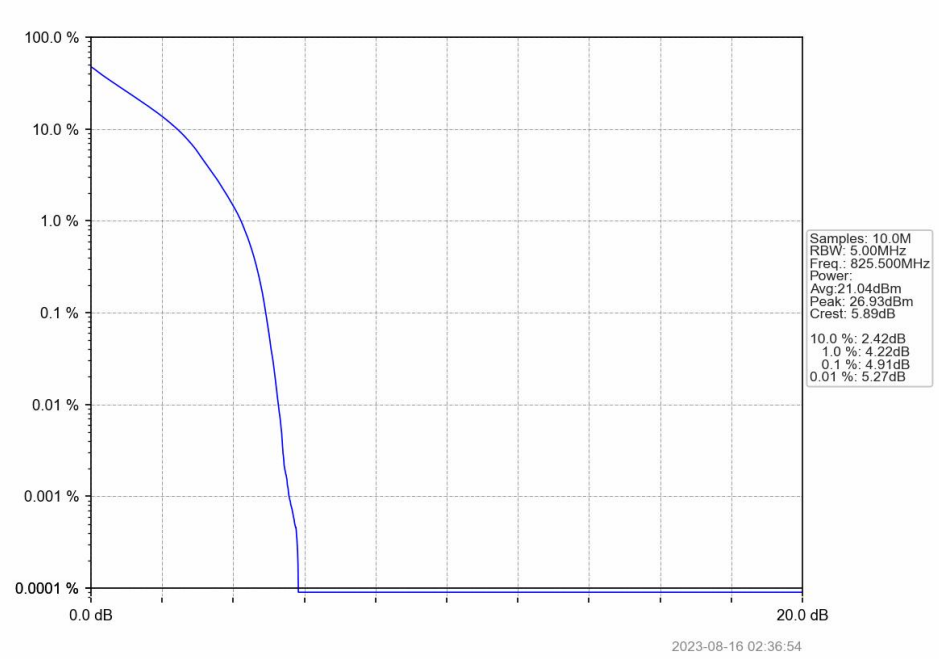
## 5.2 B5_3MHz

### 5.2.1 Test Result

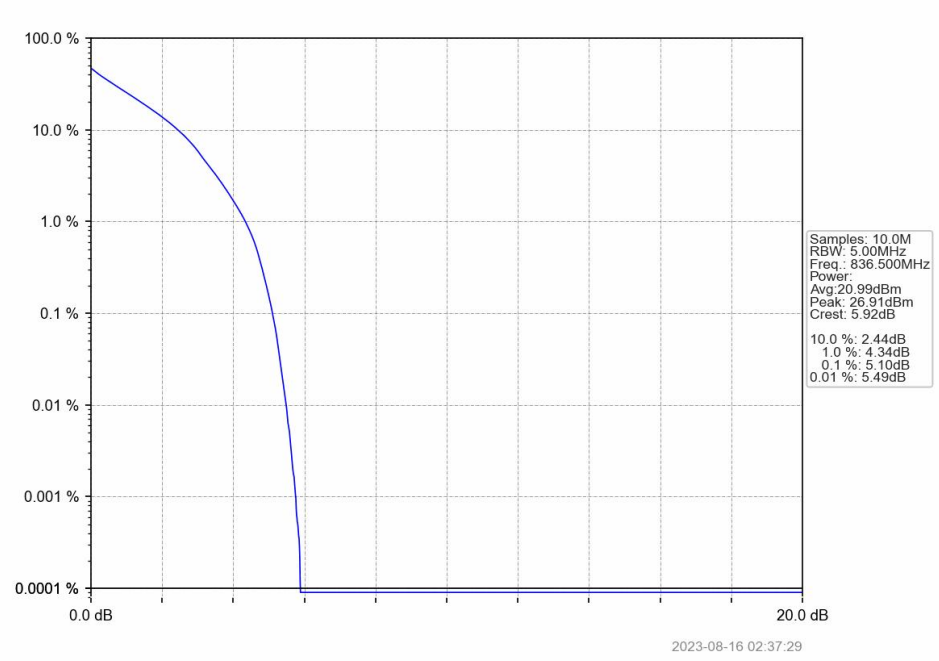
| Band: 5 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 825.5 | 15 | 0 | 4.91 | <=13 | Pass |
| | 836.5 | 15 | 0 | 5.10 | <=13 | Pass |
| | 847.5 | 15 | 0 | 5.11 | <=13 | Pass |
| 16QAM | 825.5 | 15 | 0 | 5.72 | <=13 | Pass |
| | 836.5 | 15 | 0 | 5.98 | <=13 | Pass |
| | 847.5 | 15 | 0 | 5.94 | <=13 | Pass |

## 5.2.2 Test Graph

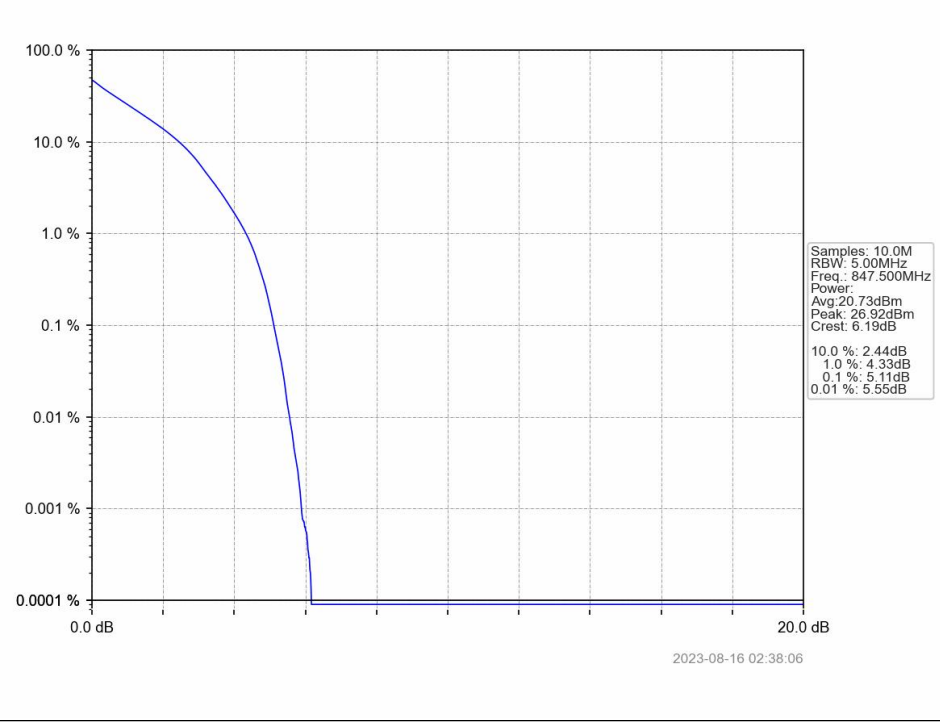
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



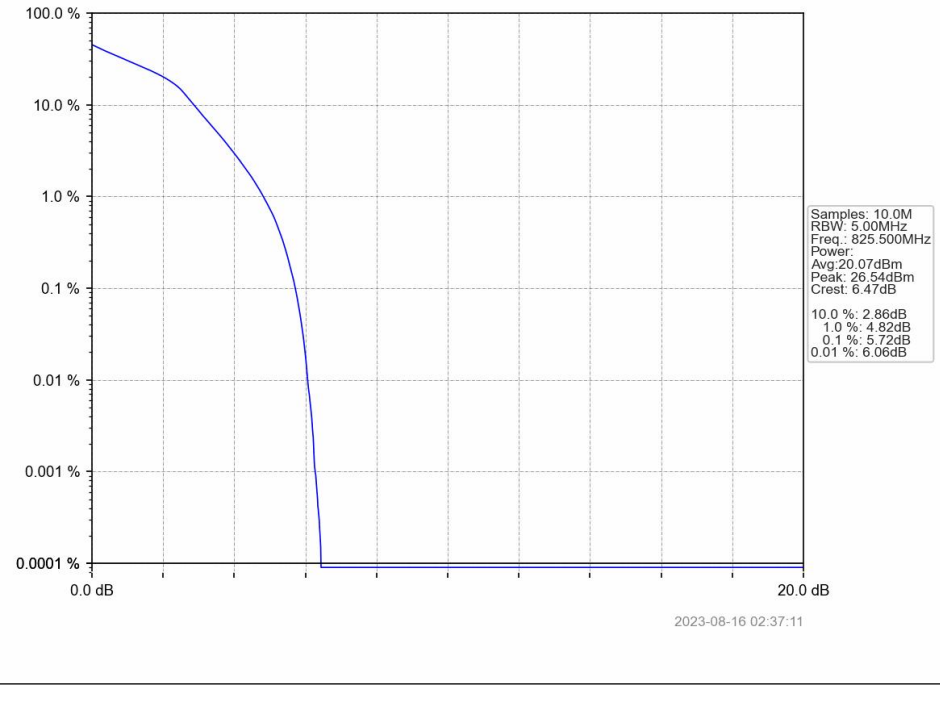

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



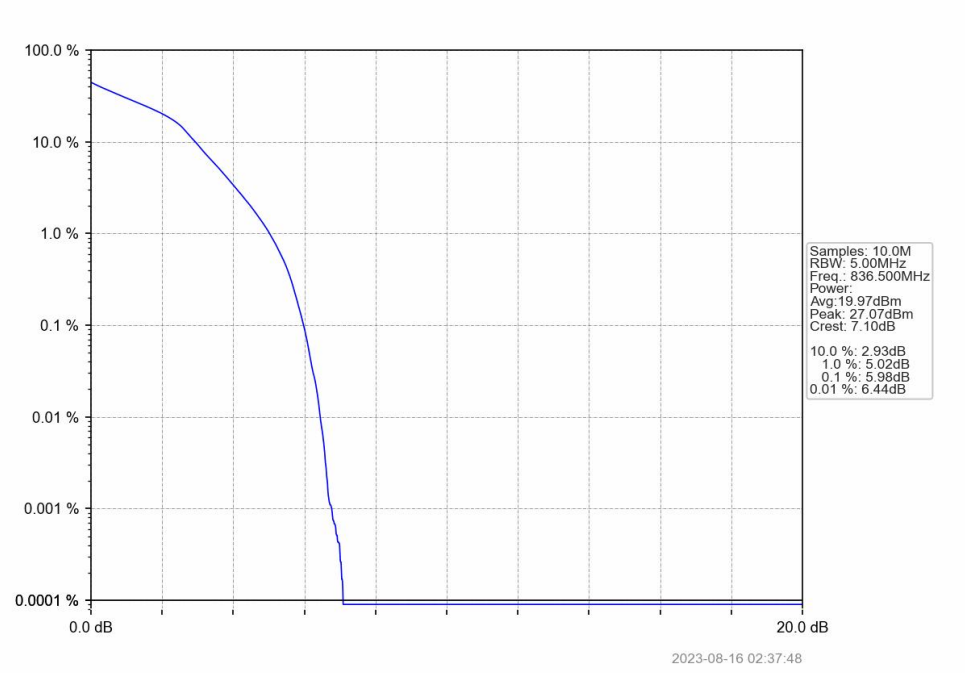
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



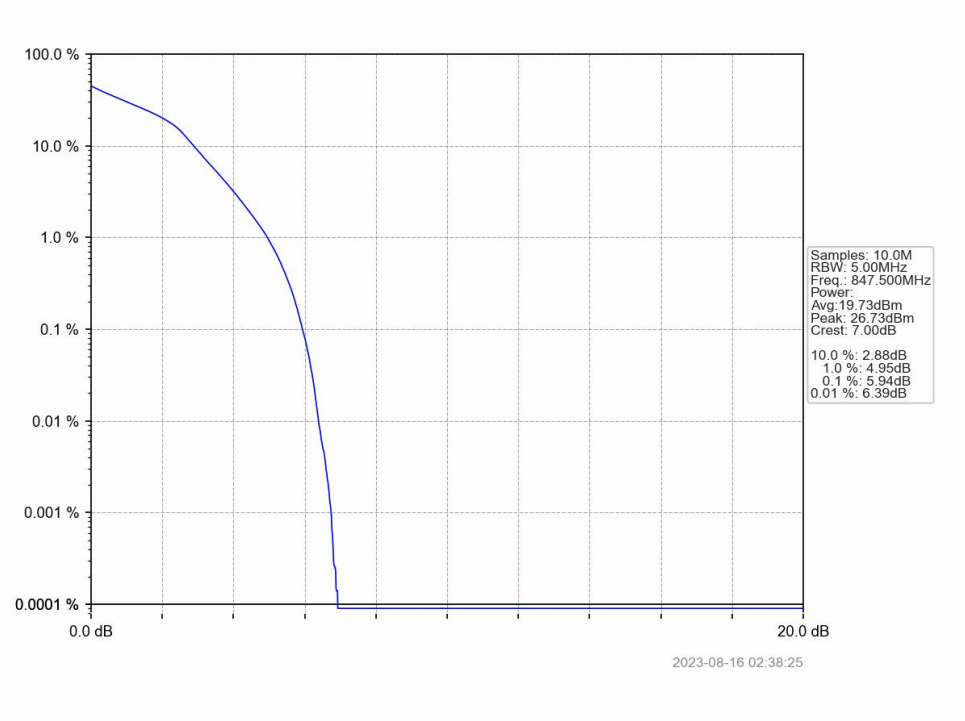

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV




Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



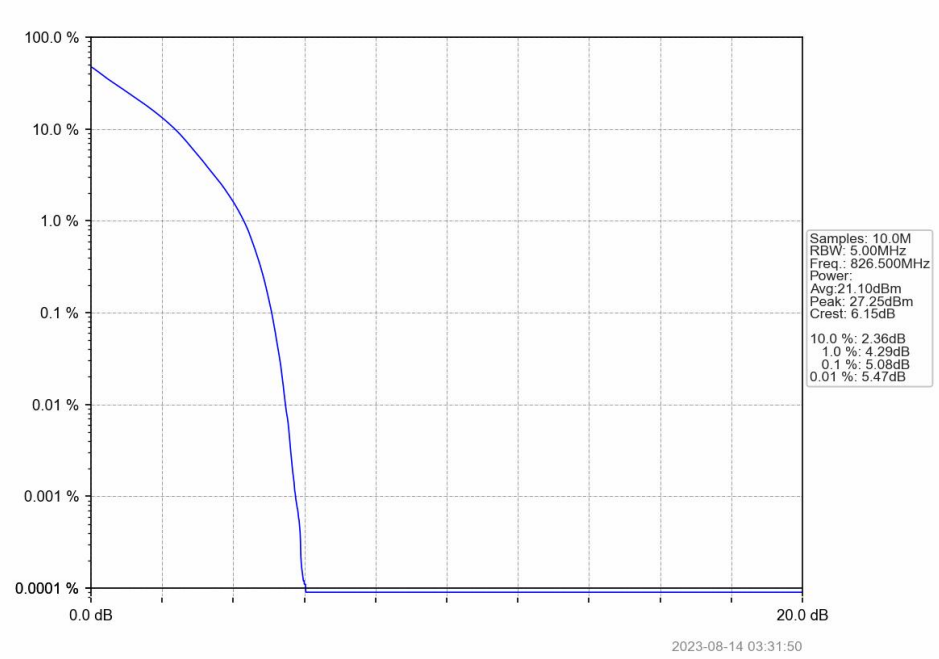
## 5.3 B5_5MHz

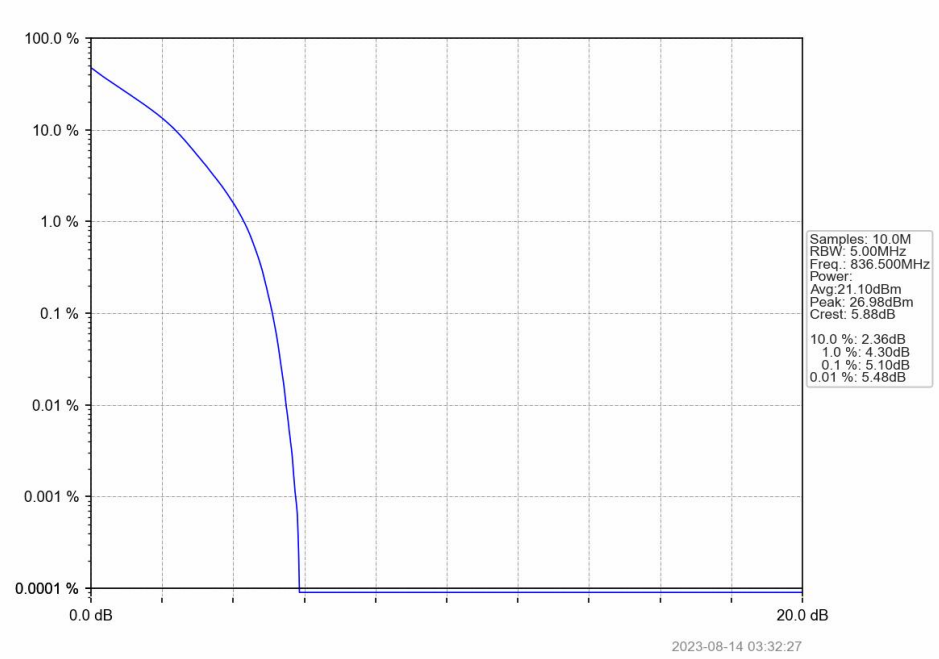
### 5.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 826.5 | 25 | 0 | 5.08 | <=13 | Pass |
| | 836.5 | 25 | 0 | 5.10 | <=13 | Pass |
| | 846.5 | 25 | 0 | 5.10 | <=13 | Pass |
| 16QAM | 826.5 | 25 | 0 | 5.85 | <=13 | Pass |
| | 836.5 | 25 | 0 | 5.88 | <=13 | Pass |
| | 846.5 | 25 | 0 | 5.89 | <=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