# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B25_1.4MHz_EIRP

| Band: 25 / Bandwidth: 1.4MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1850.7 | 1 | 0 | 22.96 | 1.85 | 24.81 | <=33.01 | Pass |
| | | | 5 | 22.94 | 1.85 | 24.79 | <=33.01 | Pass |
| | | 6 | 0 | 22.03 | 1.85 | 23.88 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 23.03 | 1.85 | 24.88 | <=33.01 | Pass |
| | | | 5 | 23.06 | 1.85 | 24.91 | <=33.01 | Pass |
| | | 6 | 0 | 22.09 | 1.85 | 23.94 | <=33.01 | Pass |
| | 1914.3 | 1 | 0 | 23.09 | 1.85 | 24.94 | <=33.01 | Pass |
| | | | 5 | 22.67 | 1.85 | 24.52 | <=33.01 | Pass |
| | | 6 | 0 | 22.05 | 1.85 | 23.90 | <=33.01 | Pass |
| 16QAM | 1850.7 | 1 | 0 | 22.17 | 1.85 | 24.02 | <=33.01 | Pass |
| | | | 5 | 22.17 | 1.85 | 24.02 | <=33.01 | Pass |
| | | 6 | 0 | 21.06 | 1.85 | 22.91 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 22.08 | 1.85 | 23.93 | <=33.01 | Pass |
| | | | 5 | 22.12 | 1.85 | 23.97 | <=33.01 | Pass |
| | | 6 | 0 | 21.06 | 1.85 | 22.91 | <=33.01 | Pass |
| | 1914.3 | 1 | 0 | 22.10 | 1.85 | 23.95 | <=33.01 | Pass |
| | | | 5 | 21.90 | 1.85 | 23.75 | <=33.01 | Pass |
| | | 6 | 0 | 21.08 | 1.85 | 22.93 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

### 1.1.2 B25_3MHz_EIRP

| Band: 25 / Bandwidth: 3MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1851.5 | 1 | 0 | 23.04 | 1.85 | 24.89 | <=33.01 | Pass |
| | | | 14 | 22.96 | 1.85 | 24.81 | <=33.01 | Pass |
| | | 15 | 0 | 22.09 | 1.85 | 23.94 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 23.04 | 1.85 | 24.89 | <=33.01 | Pass |
| | | | 14 | 23.06 | 1.85 | 24.91 | <=33.01 | Pass |
| | | 15 | 0 | 22.14 | 1.85 | 23.99 | <=33.01 | Pass |
| | 1913.5 | 1 | 0 | 23.24 | 1.85 | 25.09 | <=33.01 | Pass |
| | | | 14 | 22.68 | 1.85 | 24.53 | <=33.01 | Pass |
| | | 15 | 0 | 22.21 | 1.85 | 24.06 | <=33.01 | Pass |
| 16QAM | 1851.5 | 1 | 0 | 22.64 | 1.85 | 24.49 | <=33.01 | Pass |
| | | | 14 | 22.60 | 1.85 | 24.45 | <=33.01 | Pass |
| | | 15 | 0 | 21.09 | 1.85 | 22.94 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 22.23 | 1.85 | 24.08 | <=33.01 | Pass |
| | | | 14 | 22.24 | 1.85 | 24.09 | <=33.01 | Pass |
| | | 15 | 0 | 21.11 | 1.85 | 22.96 | <=33.01 | Pass |
| | 1913.5 | 1 | 0 | 22.23 | 1.85 | 24.08 | <=33.01 | Pass |
| | | | 14 | 21.87 | 1.85 | 23.72 | <=33.01 | Pass |
| | | 15 | 0 | 21.23 | 1.85 | 23.08 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

### 1.1.3 B25_5MHz_EIRP

| Band: 25 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1852.5 | 1 | 0 | 23.20 | 1.85 | 25.05 | <=33.01 | Pass |
| | | | 24 | 23.03 | 1.85 | 24.88 | <=33.01 | Pass |
| | | 25 | 0 | 22.12 | 1.85 | 23.97 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 23.14 | 1.85 | 24.99 | <=33.01 | Pass |
| | | | 24 | 23.11 | 1.85 | 24.96 | <=33.01 | Pass |
| | | 25 | 0 | 22.20 | 1.85 | 24.05 | <=33.01 | Pass |
| | 1912.5 | 1 | 0 | 23.36 | 1.85 | 25.21 | <=33.01 | Pass |
| | | | 24 | 22.68 | 1.85 | 24.53 | <=33.01 | Pass |
| | | 25 | 0 | 22.33 | 1.85 | 24.18 | <=33.01 | Pass |
| 16QAM | 1852.5 | 1 | 0 | 22.08 | 1.85 | 23.93 | <=33.01 | Pass |
| | | | 24 | 21.97 | 1.85 | 23.82 | <=33.01 | Pass |
| | | 25 | 0 | 21.13 | 1.85 | 22.98 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 22.41 | 1.85 | 24.26 | <=33.01 | Pass |
| | | | 24 | 22.37 | 1.85 | 24.22 | <=33.01 | Pass |
| | | 25 | 0 | 21.16 | 1.85 | 23.01 | <=33.01 | Pass |
| | 1912.5 | 1 | 0 | 22.49 | 1.85 | 24.34 | <=33.01 | Pass |
| | | | 24 | 21.93 | 1.85 | 23.78 | <=33.01 | Pass |
| | | 25 | 0 | 21.27 | 1.85 | 23.12 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

### 1.1.4 B25_10MHz_EIRP

| Band: 25 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1855 | 1 | 0 | 23.19 | 1.85 | 25.04 | <=33.01 | Pass |
| | | | 49 | 23.14 | 1.85 | 24.99 | <=33.01 | Pass |
| | | 50 | 0 | 22.15 | 1.85 | 24.00 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 23.22 | 1.85 | 25.07 | <=33.01 | Pass |
| | | | 49 | 23.30 | 1.85 | 25.15 | <=33.01 | Pass |
| | | 50 | 0 | 22.20 | 1.85 | 24.05 | <=33.01 | Pass |
| | 1910 | 1 | 0 | 23.44 | 1.85 | 25.29 | <=33.01 | Pass |
| | | | 49 | 22.61 | 1.85 | 24.46 | <=33.01 | Pass |
| | | 50 | 0 | 22.26 | 1.85 | 24.11 | <=33.01 | Pass |
| 16QAM | 1855 | 1 | 0 | 22.86 | 1.85 | 24.71 | <=33.01 | Pass |
| | | | 49 | 22.72 | 1.85 | 24.57 | <=33.01 | Pass |
| | | 50 | 0 | 21.16 | 1.85 | 23.01 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 22.35 | 1.85 | 24.20 | <=33.01 | Pass |
| | | | 49 | 22.50 | 1.85 | 24.35 | <=33.01 | Pass |
| | | 50 | 0 | 21.18 | 1.85 | 23.03 | <=33.01 | Pass |
| | 1910 | 1 | 0 | 22.41 | 1.85 | 24.26 | <=33.01 | Pass |
| | | | 49 | 21.80 | 1.85 | 23.65 | <=33.01 | Pass |
| | | 50 | 0 | 21.27 | 1.85 | 23.12 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.5 B25_15MHz_EIRP

| Band: 25 / Bandwidth: 15MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1857.5 | 1 | 0 | 22.97 | 1.85 | 24.82 | <=33.01 | Pass |
| | | | 74 | 22.95 | 1.85 | 24.80 | <=33.01 | Pass |
| | | 75 | 0 | 22.12 | 1.85 | 23.97 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 23.06 | 1.85 | 24.91 | <=33.01 | Pass |
| | | | 74 | 23.13 | 1.85 | 24.98 | <=33.01 | Pass |
| | | 75 | 0 | 22.29 | 1.85 | 24.14 | <=33.01 | Pass |
| | 1907.5 | 1 | 0 | 23.47 | 1.85 | 25.32 | <=33.01 | Pass |
| | | | 74 | 22.94 | 1.85 | 24.79 | <=33.01 | Pass |
| | | 75 | 0 | 22.44 | 1.85 | 24.29 | <=33.01 | Pass |
| 16QAM | 1857.5 | 1 | 0 | 22.61 | 1.85 | 24.46 | <=33.01 | Pass |
| | | | 74 | 22.57 | 1.85 | 24.42 | <=33.01 | Pass |
| | | 75 | 0 | 21.12 | 1.85 | 22.97 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 22.20 | 1.85 | 24.05 | <=33.01 | Pass |
| | | | 74 | 22.34 | 1.85 | 24.19 | <=33.01 | Pass |
| | | 75 | 0 | 21.27 | 1.85 | 23.12 | <=33.01 | Pass |
| | 1907.5 | 1 | 0 | 22.88 | 1.85 | 24.73 | <=33.01 | Pass |
| | | | 74 | 22.49 | 1.85 | 24.34 | <=33.01 | Pass |
| | | 75 | 0 | 21.41 | 1.85 | 23.26 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.1.6 B25_20MHz_EIRP

| Band: 25 / Bandwidth: 20MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1860 | 1 | 0 | 22.92 | 1.85 | 24.77 | <=33.01 | Pass |
| | | | 99 | 22.52 | 1.85 | 24.37 | <=33.01 | Pass |
| | | 100 | 0 | 22.04 | 1.85 | 23.89 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 23.08 | 1.85 | 24.93 | <=33.01 | Pass |
| | | | 99 | 22.97 | 1.85 | 24.82 | <=33.01 | Pass |
| | | 100 | 0 | 22.17 | 1.85 | 24.02 | <=33.01 | Pass |
| | 1905 | 1 | 0 | 23.42 | 1.85 | 25.27 | <=33.01 | Pass |
| | | | 99 | 22.84 | 1.85 | 24.69 | <=33.01 | Pass |
| | | 100 | 0 | 22.44 | 1.85 | 24.29 | <=33.01 | Pass |
| 16QAM | 1860 | 1 | 0 | 22.27 | 1.85 | 24.12 | <=33.01 | Pass |
| | | | 99 | 21.83 | 1.85 | 23.68 | <=33.01 | Pass |
| | | 100 | 0 | 21.04 | 1.85 | 22.89 | <=33.01 | Pass |
| | 1882.5 | 1 | 0 | 22.30 | 1.85 | 24.15 | <=33.01 | Pass |
| | | | 99 | 22.08 | 1.85 | 23.93 | <=33.01 | Pass |
| | | 100 | 0 | 21.14 | 1.85 | 22.99 | <=33.01 | Pass |
| | 1905 | 1 | 0 | 23.04 | 1.85 | 24.89 | <=33.01 | Pass |
| | | | 99 | 22.46 | 1.85 | 24.31 | <=33.01 | Pass |
| | | 100 | 0 | 21.44 | 1.85 | 23.29 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

# 2. Frequency Stability

## 2.1 Test Result

### 2.1.1 B25_10MHz

| Band: 25 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1882.5 | 50 | 0 | 20 | 12 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 24 | 3.319 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 48 | 1.187 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 24 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 24 | -0.401 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 24 | -0.658 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 24 | -0.172 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 24 | -0.486 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 24 | 1.588 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 24 | -0.386 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 24 | 2.089 | 0.0011 | -2.5 to 2.5 | Pass |

# 3. 99% & 26dB Bandwidth

## 3.1 Test Result

### 3.1.1 Band25_OBW

| Band: 25 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1882.5 | 6 | 0 | 1.104 | / | Pass |
| | 16QAM | 1882.5 | 6 | 0 | 1.117 | / | Pass |
| 3 | QPSK | 1882.5 | 15 | 0 | 2.741 | / | Pass |
| | 16QAM | 1882.5 | 15 | 0 | 2.722 | / | Pass |
| 5 | QPSK | 1882.5 | 25 | 0 | 4.547 | / | Pass |
| | 16QAM | 1882.5 | 25 | 0 | 4.572 | / | Pass |
| 10 | QPSK | 1882.5 | 50 | 0 | 9.031 | / | Pass |
| | 16QAM | 1882.5 | 50 | 0 | 9.043 | / | Pass |
| 15 | QPSK | 1882.5 | 75 | 0 | 13.576 | / | Pass |
| | 16QAM | 1882.5 | 75 | 0 | 13.533 | / | Pass |
| 20 | QPSK | 1882.5 | 100 | 0 | 18.076 | / | Pass |
| | 16QAM | 1882.5 | 100 | 0 | 18.007 | / | Pass |

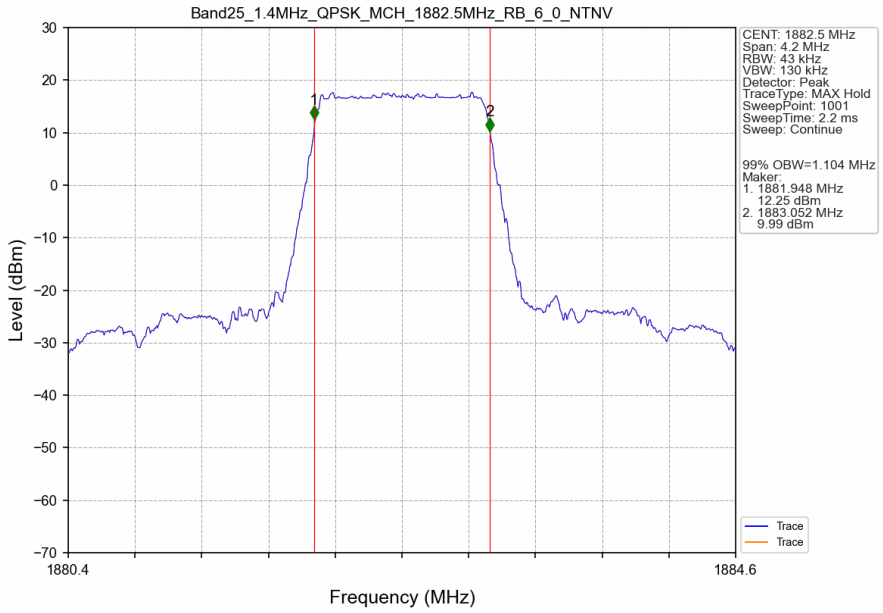
### 3.1.2 Band25_XDB

| Band: 25 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1882.5 | 6 | 0 | 1.329 | / | Pass |
| | 16QAM | 1882.5 | 6 | 0 | 1.302 | / | Pass |
| 3 | QPSK | 1882.5 | 15 | 0 | 3.060 | / | Pass |
| | 16QAM | 1882.5 | 15 | 0 | 3.042 | / | Pass |
| 5 | QPSK | 1882.5 | 25 | 0 | 5.096 | / | Pass |
| | 16QAM | 1882.5 | 25 | 0 | 5.088 | / | Pass |
| 10 | QPSK | 1882.5 | 50 | 0 | 10.142 | / | Pass |
| | 16QAM | 1882.5 | 50 | 0 | 10.000 | / | Pass |
| 15 | QPSK | 1882.5 | 75 | 0 | 15.029 | / | Pass |
| | 16QAM | 1882.5 | 75 | 0 | 14.982 | / | Pass |
| 20 | QPSK | 1882.5 | 100 | 0 | 19.664 | / | Pass |
| | 16QAM | 1882.5 | 100 | 0 | 19.758 | / | Pass |

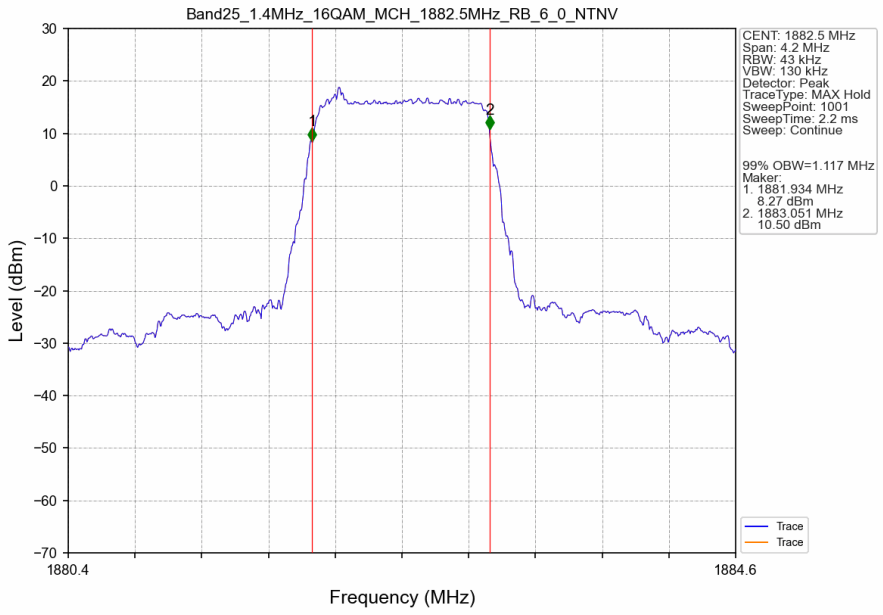
## 3.2 Test Graph

### 3.2.1 Band25_OBW

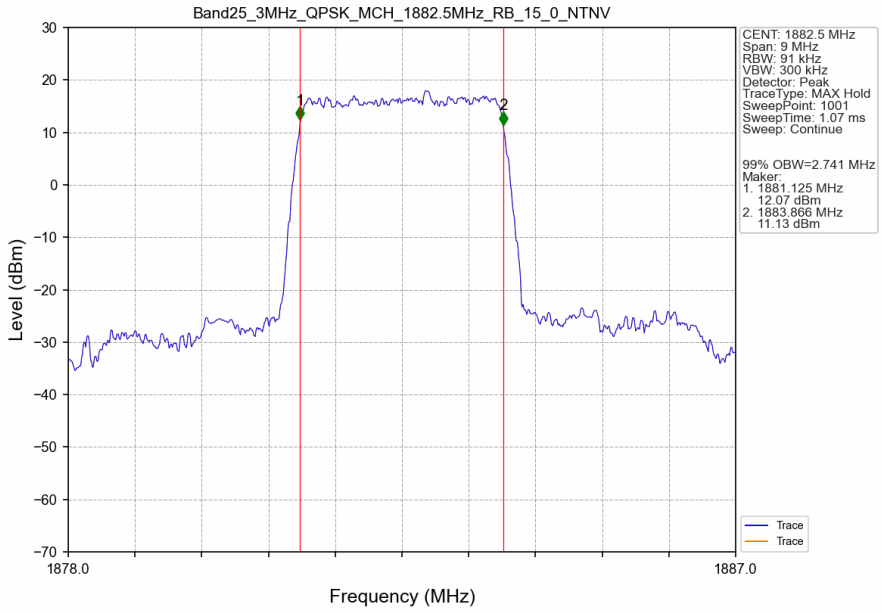
Band25_1.4MHz_QPSK_MCH_1882.5MHz_RB_6_0_NTNV



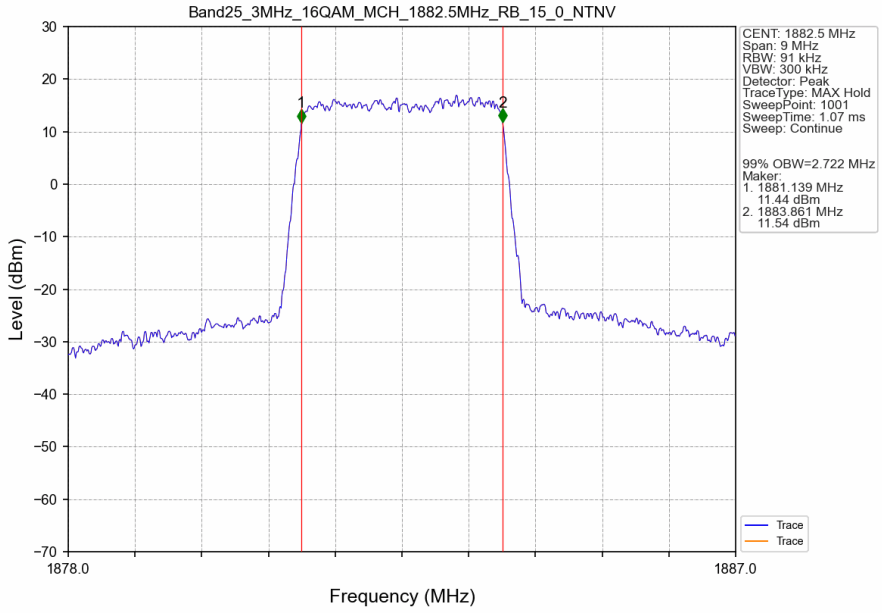

Band25_1.4MHz_16QAM_MCH_1882.5MHz_RB_6_0_NTNV



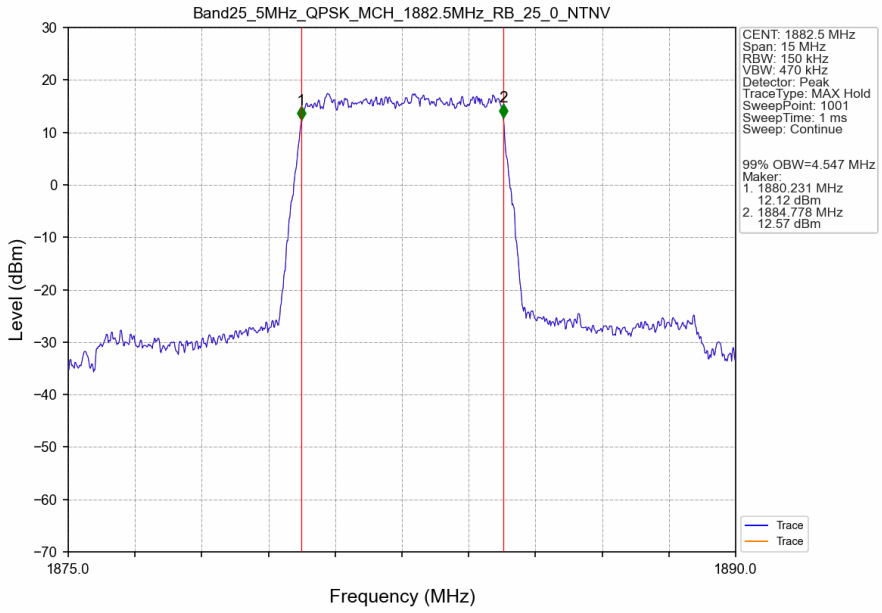
Band25_3MHz_QPSK_MCH_1882.5MHz_RB_15_0_NTNV



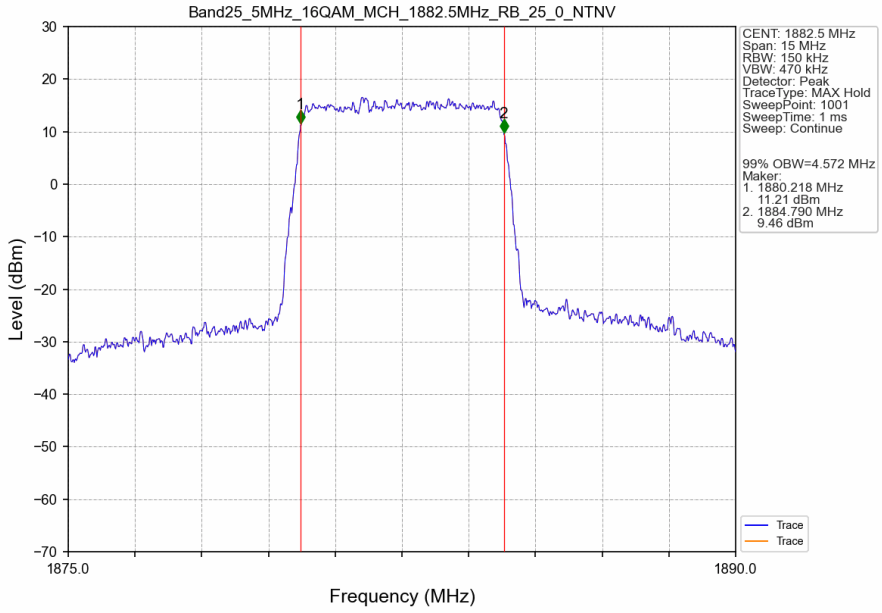

Band25_3MHz_16QAM_MCH_1882.5MHz_RB_15_0_NTNV



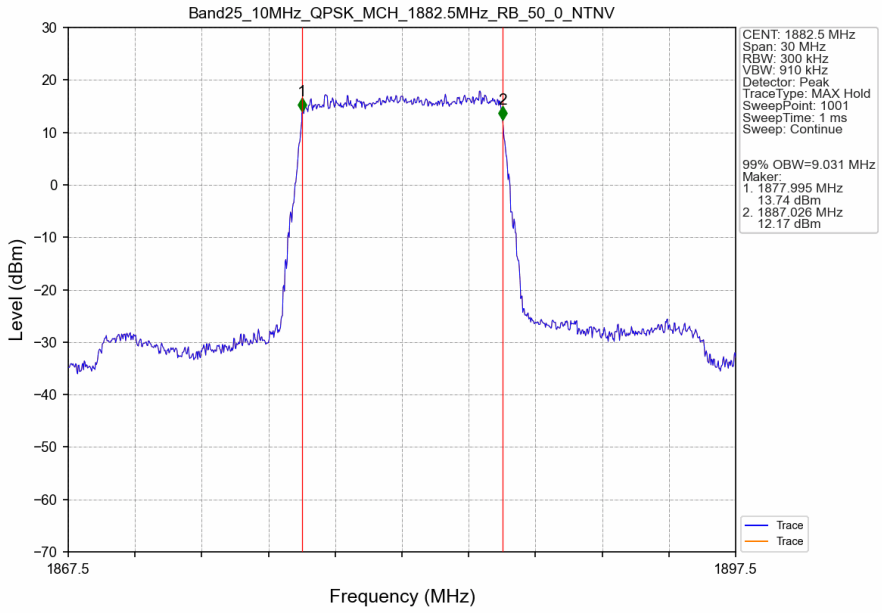
Band25_5MHz_QPSK_MCH_1882.5MHz_RB_25_0_NTNV



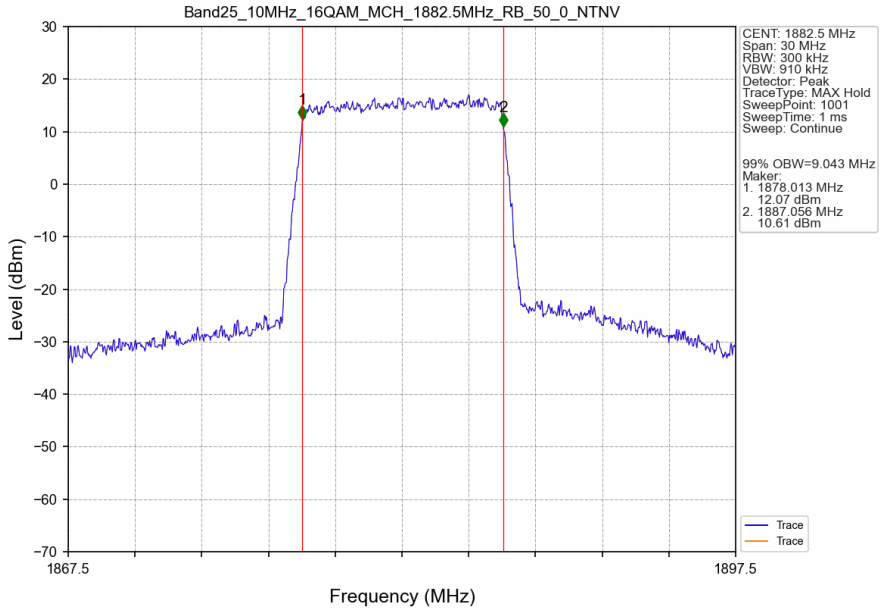

Band25_5MHz_16QAM_MCH_1882.5MHz_RB_25_0_NTNV



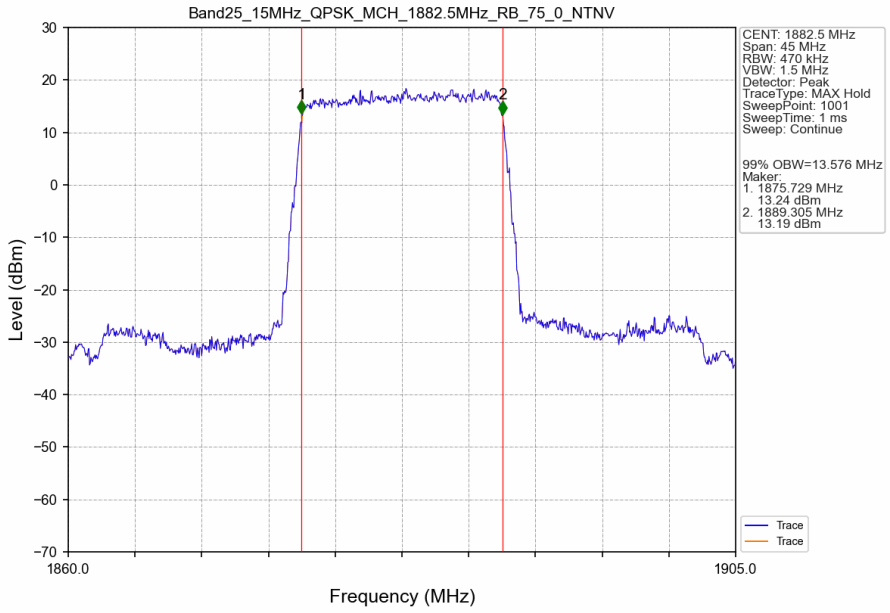
Band25_10MHz_QPSK_MCH_1882.5MHz_RB_50_0_NTNV



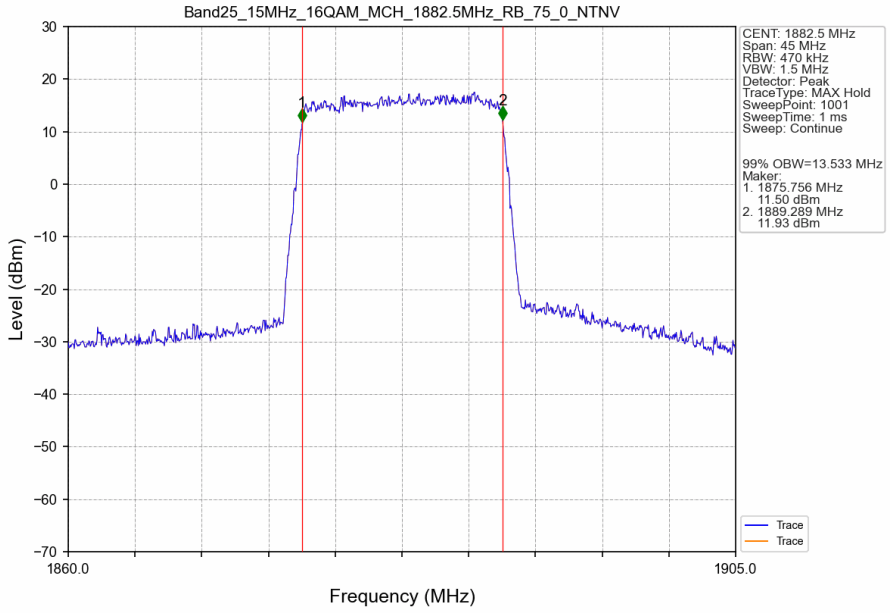

Band25_10MHz_16QAM_MCH_1882.5MHz_RB_50_0_NTNV



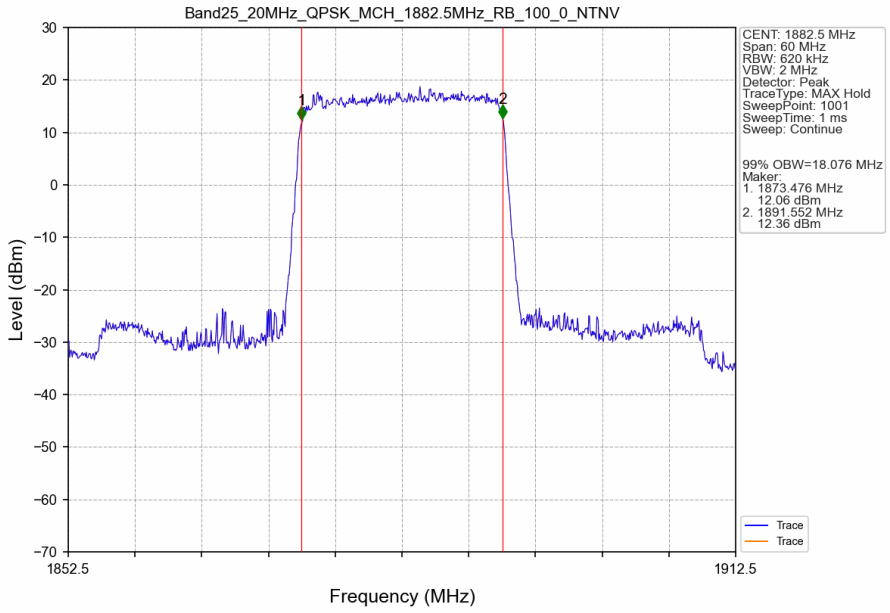
Band25_15MHz_QPSK_MCH_1882.5MHz_RB_75_0_NTNV



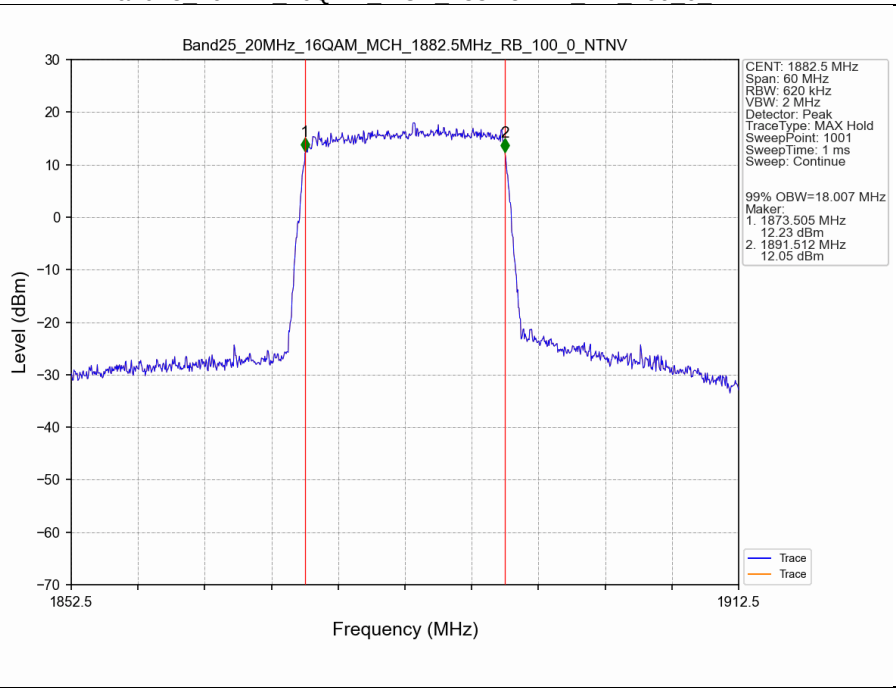

Band25_15MHz_16QAM_MCH_1882.5MHz_RB_75_0_NTNV



Band25_20MHz_QPSK_MCH_1882.5MHz_RB_100_0_NTNV

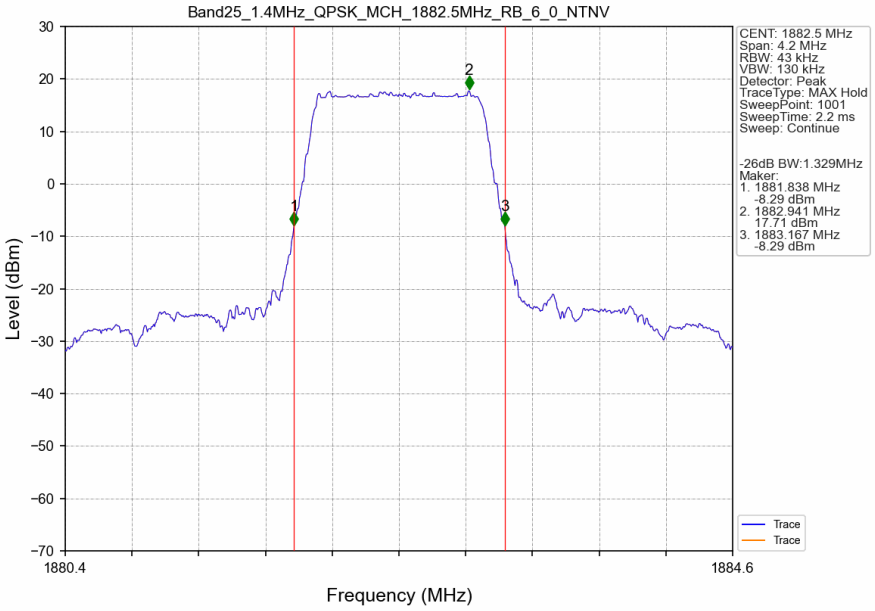



Band25_20MHz_16QAM_MCH_1882.5MHz_RB_100_0_NTNV

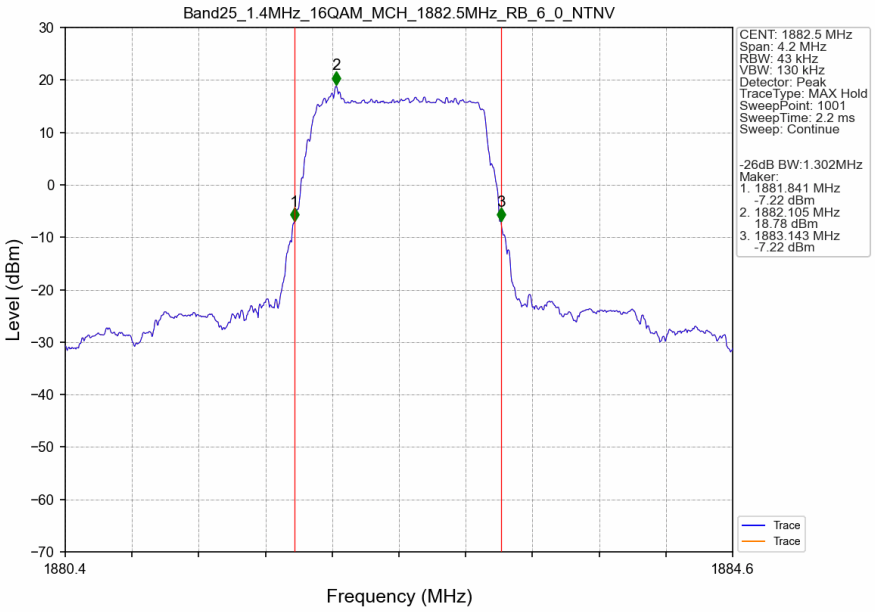


## 3.2.2 Band25_XDB

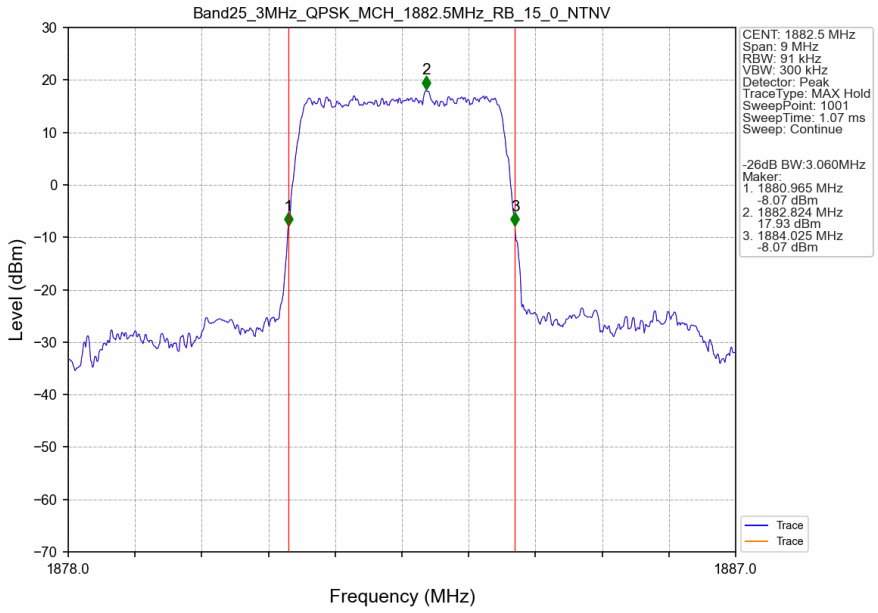
Band25_1.4MHz_QPSK_MCH_1882.5MHz_RB_6_0_NTNV



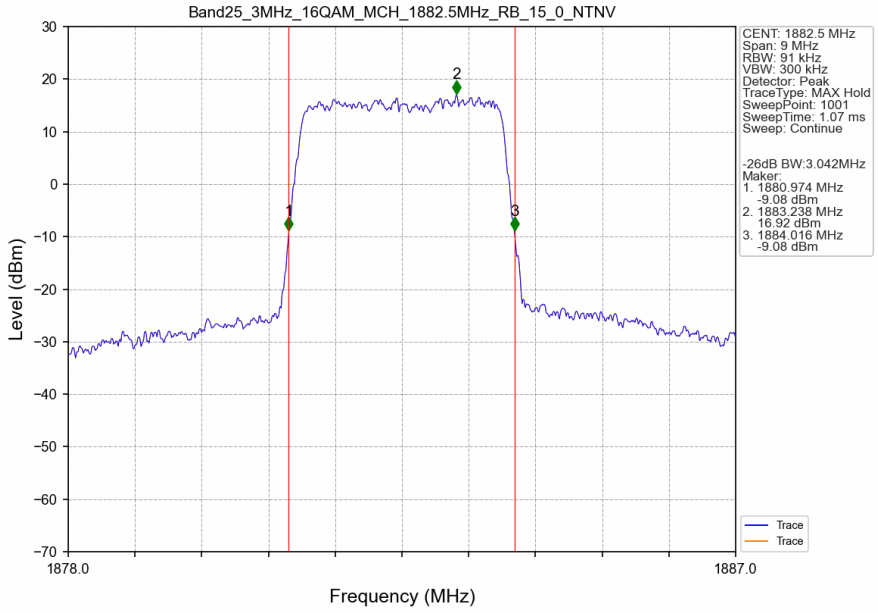

Band25_1.4MHz_16QAM_MCH_1882.5MHz_RB_6_0_NTNV



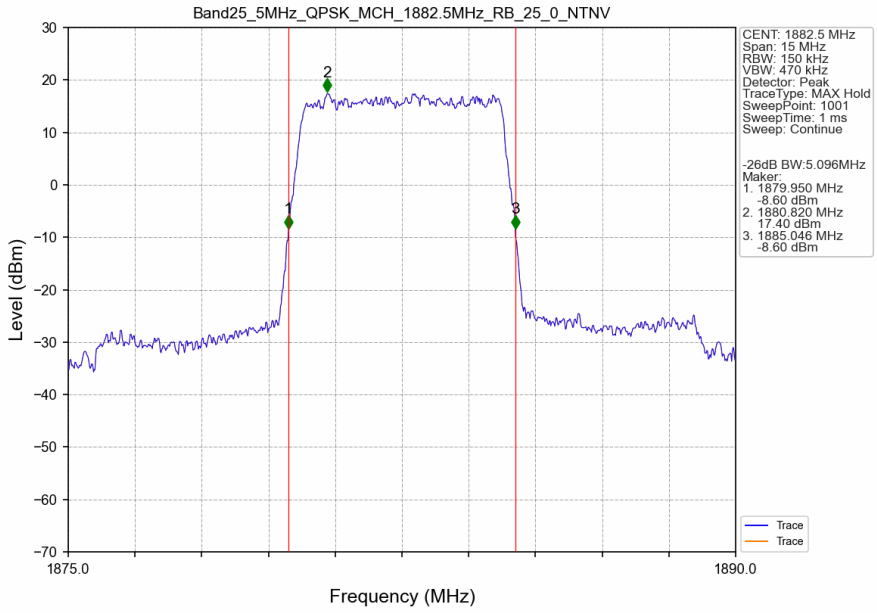
Band25_3MHz_QPSK_MCH_1882.5MHz_RB_15_0_NTNV



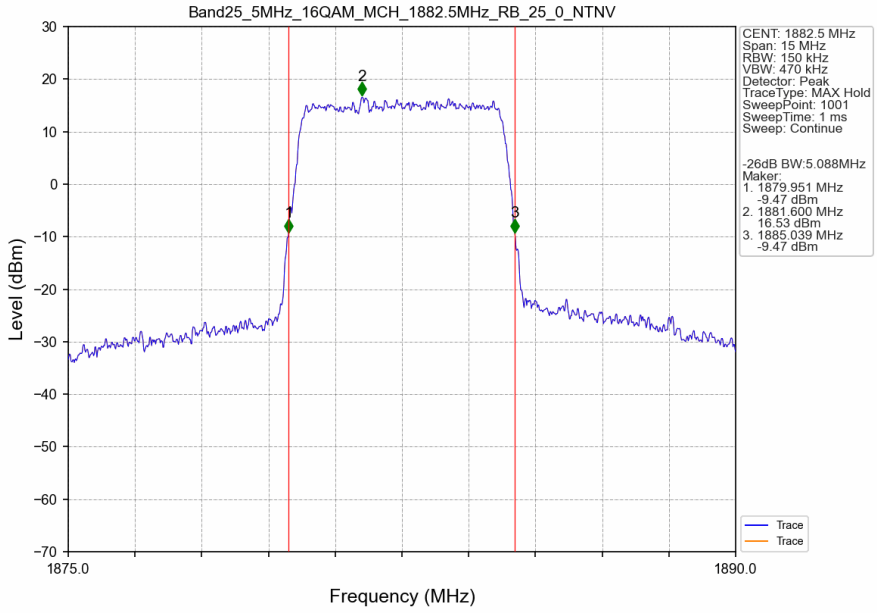

Band25_3MHz_16QAM_MCH_1882.5MHz_RB_15_0_NTNV



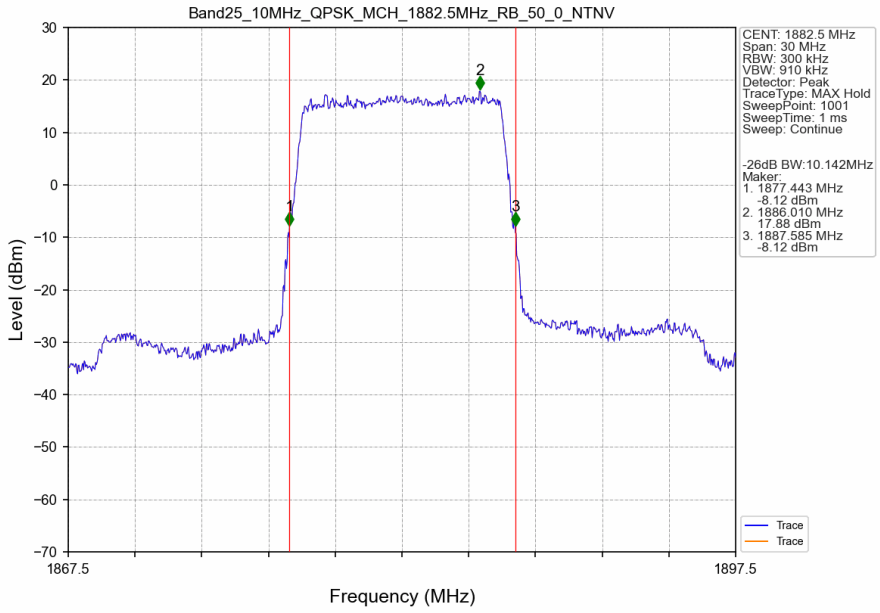
Band25_5MHz_QPSK_MCH_1882.5MHz_RB_25_0_NTNV



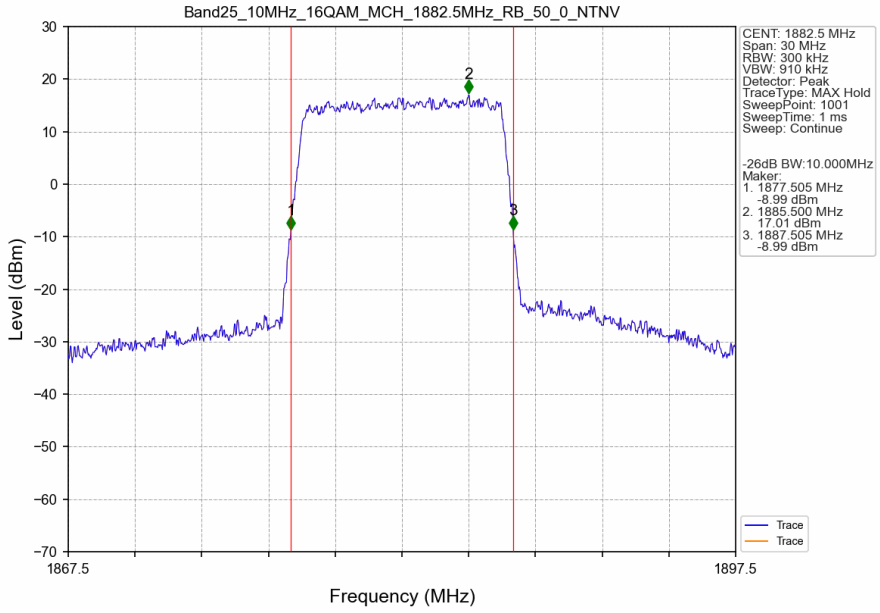

Band25_5MHz_16QAM_MCH_1882.5MHz_RB_25_0_NTNV



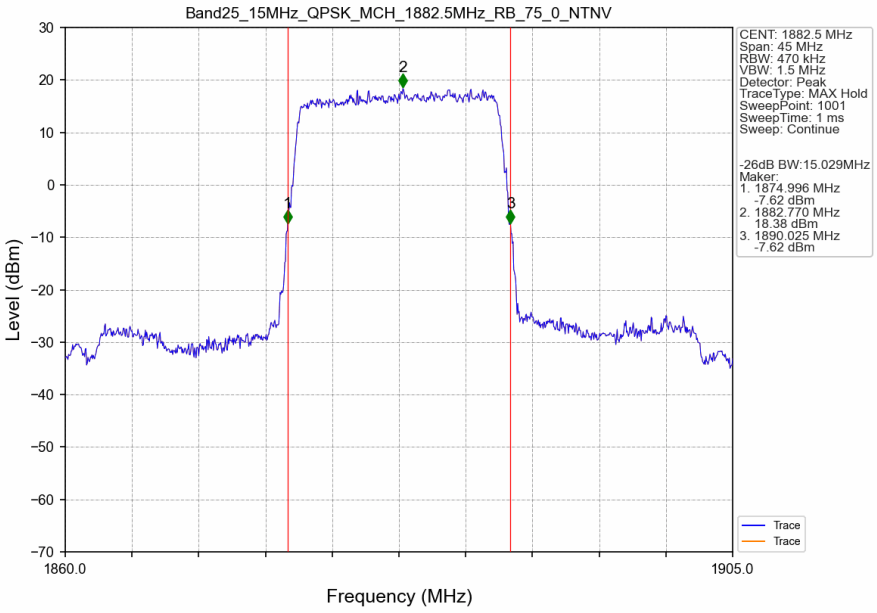
Band25_10MHz_QPSK_MCH_1882.5MHz_RB_50_0_NTNV



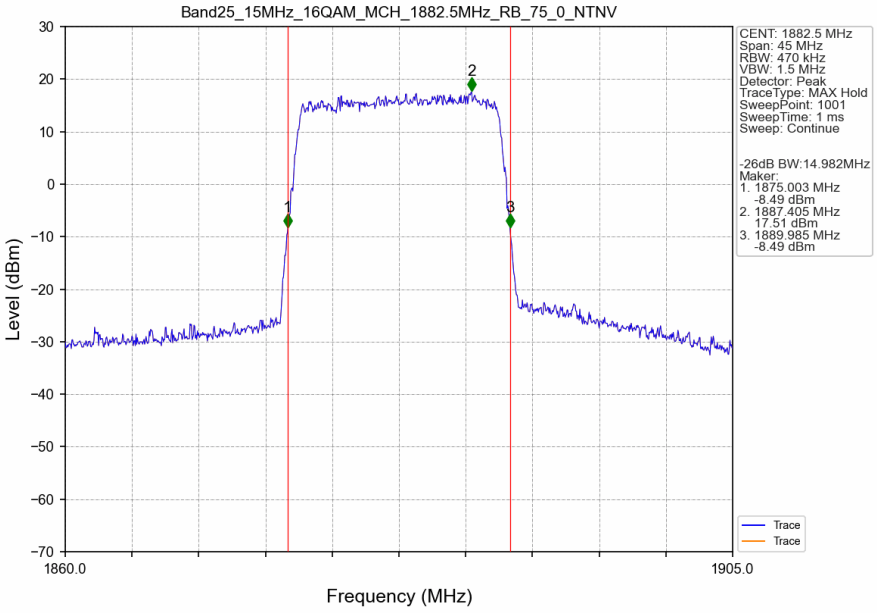

Band25_10MHz_16QAM_MCH_1882.5MHz_RB_50_0_NTNV



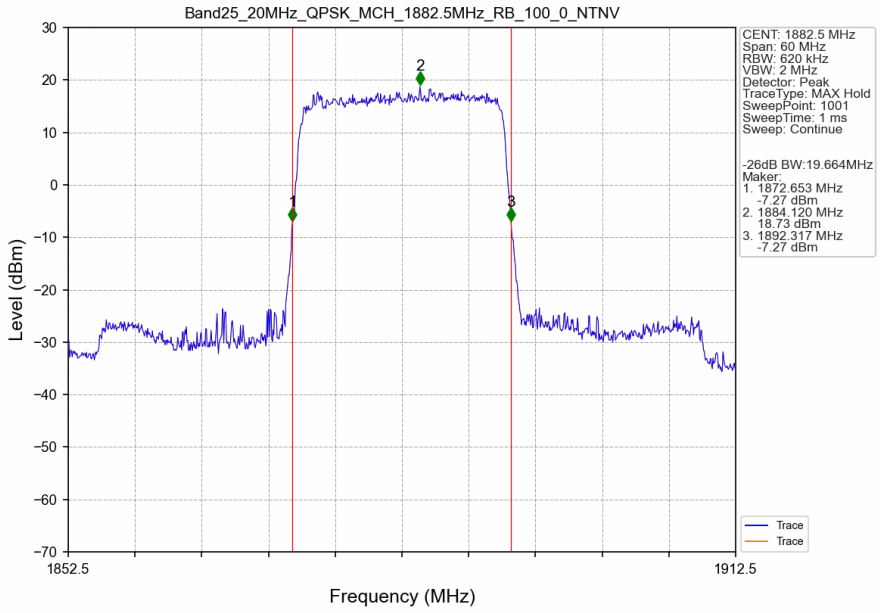
Band25_15MHz_QPSK_MCH_1882.5MHz_RB_75_0_NTNV



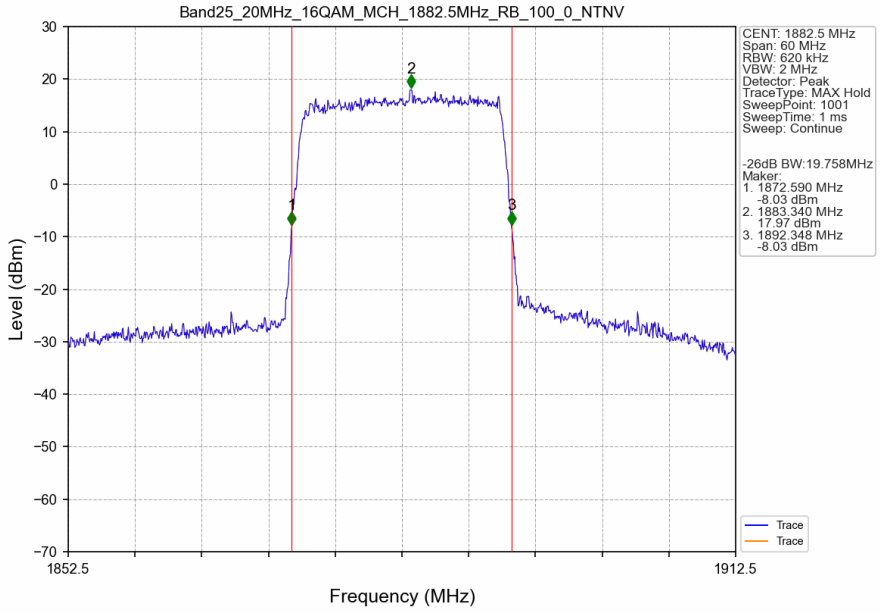

Band25_15MHz_16QAM_MCH_1882.5MHz_RB_75_0_NTNV



Band25_20MHz_QPSK_MCH_1882.5MHz_RB_100_0_NTNV




Band25_20MHz_16QAM_MCH_1882.5MHz_RB_100_0_NTNV



# 4. Peak-Average Ratio

## 4.1 Test Result

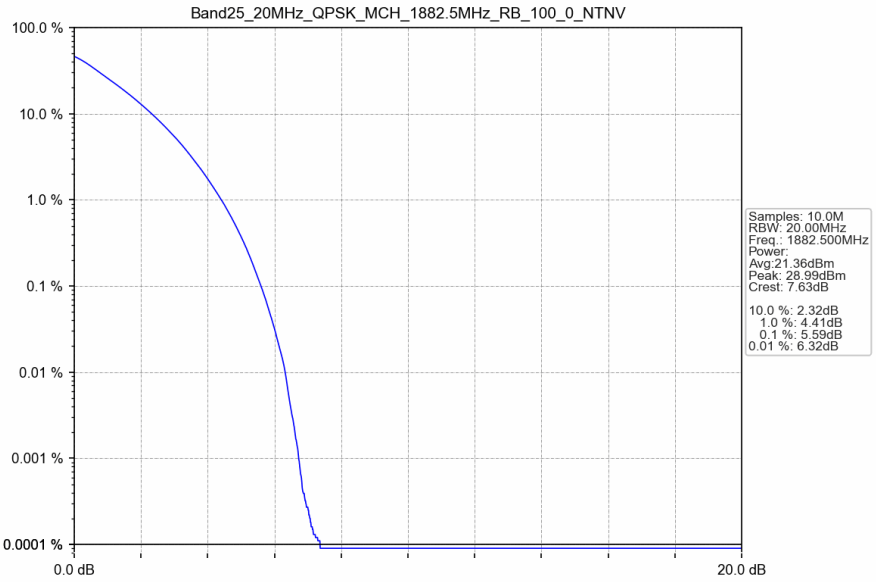
### 4.1.1 B25_20MHz

| Band: 25 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1882.5 | 100 | 0 | 5.59 | <=13 | Pass |
| 16QAM | 1882.5 | 100 | 0 | 6.41 | <=13 | Pass |

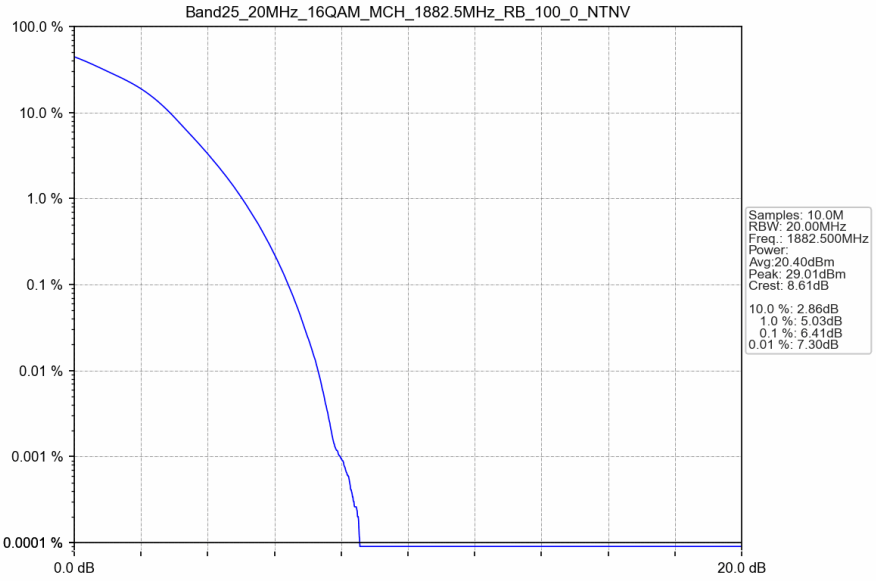
## 4.2 Test Graph

### 4.2.1 B25_20MHz

Band25_20MHz_QPSK_MCH_1882.5MHz_RB_100_0_NTNV




Band25_20MHz_16QAM_MCH_1882.5MHz_RB_100_0_NTNV



# 5. Spurious Emission

## 5.1 Test Result

### 5.1.1 B25_1.4MHz

| Band: 25 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1850.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1882.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1914.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

### 5.1.2 B25_3MHz

| Band: 25 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1851.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1882.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1913.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

### 5.1.3 B25_5MHz

| Band: 25 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1852.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1882.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1912.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

### 5.1.4 B25_10MHz

| Band: 25 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1855 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1882.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1910 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |

| | | | | | |
|---|---|---|---|---|---|
| | | 50 | 0 | Refer To Test Graph | Pass |

### 5.1.5 B25_15MHz

| Band: 25 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1857.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1882.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1907.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |

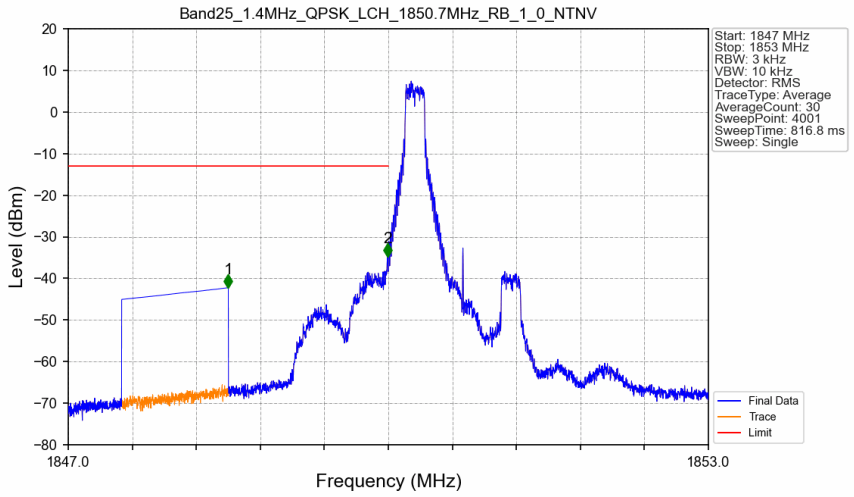
### 5.1.6 B25_20MHz

| Band: 25 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1860 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 1882.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1905 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |

## 5.2 Test Graph

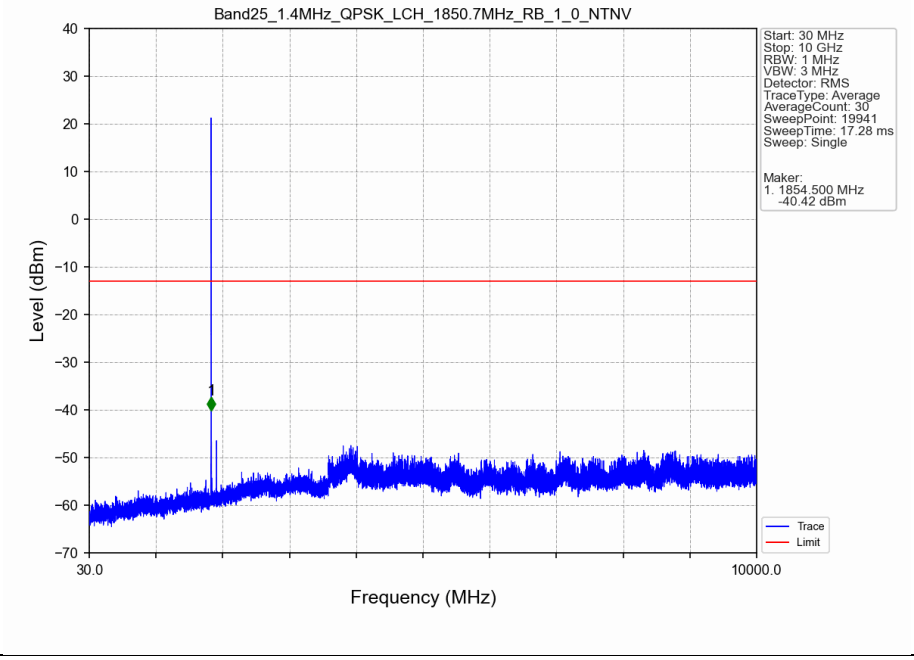
### 5.2.1 B25_1.4MHz

Band25_1.4MHz_QPSK_LCH_1850.7MHz_RB_1_0_NTNV

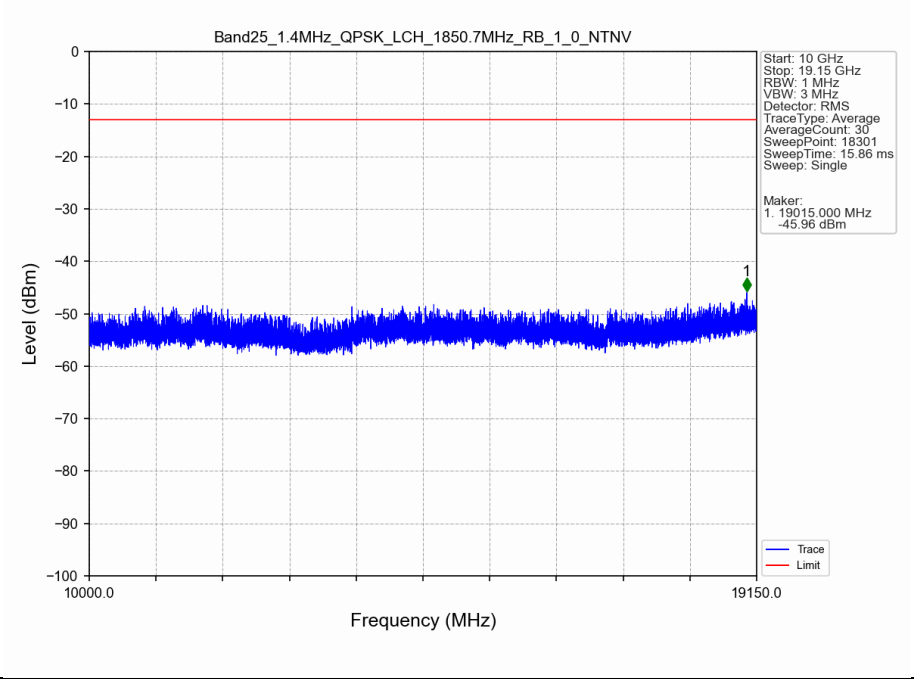



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1847 | 1849 | 1 | CHP | 1 | 1848.498 | -42.24 | -13 | Pass |
| 1849 | 1850 | 0.003 | / | 2 | 1849.991 | -34.74 | -13 | Pass |
| 1850 | 1853 | 0.003 | / | / | / | / | / | / |

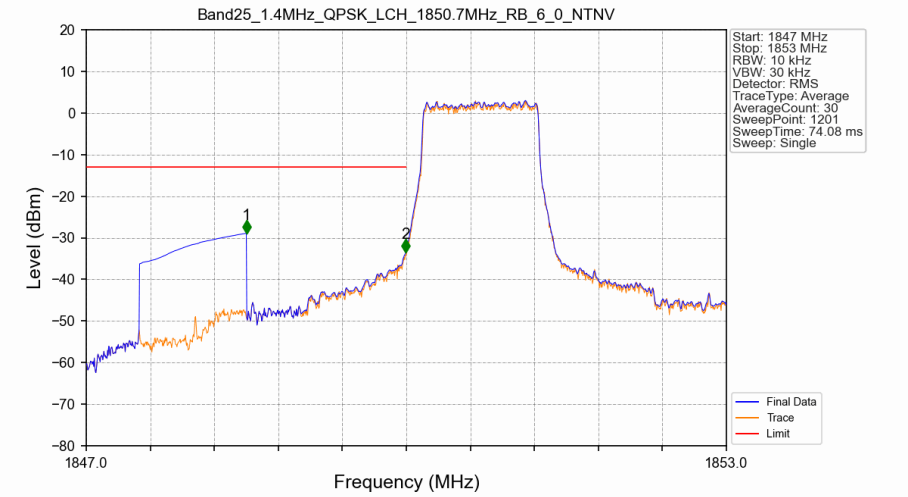
Band25_1.4MHz_QPSK_LCH_1850.7MHz_RB_1_0_NTNV



Band25_1.4MHz_QPSK_LCH_1850.7MHz_RB_1_0_NTNV

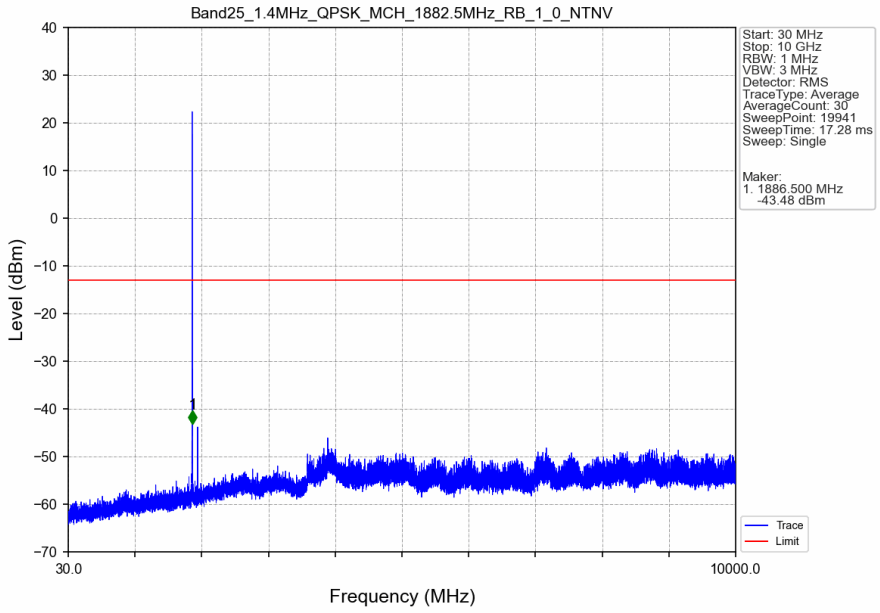



Band25_1.4MHz_QPSK_LCH_1850.7MHz_RB_6_0_NTNV

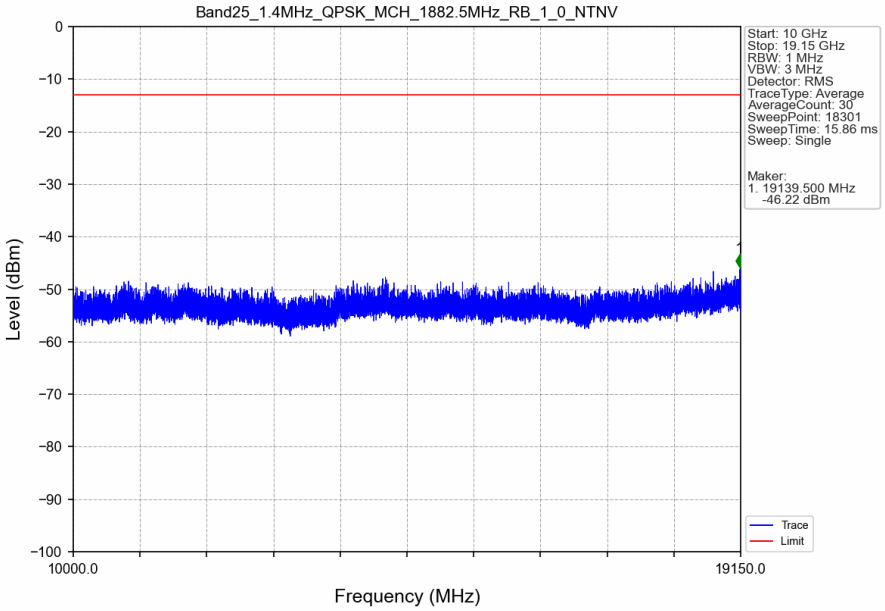



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1847 | 1849 | 1 | CHP | 1 | 1848.500 | -28.93 | -13 | Pass |
| 1849 | 1850 | 0.013 | CHP | 2 | 1849.995 | -33.48 | -13 | Pass |
| 1850 | 1853 | 0.013 | CHP | / | / | / | / | / |

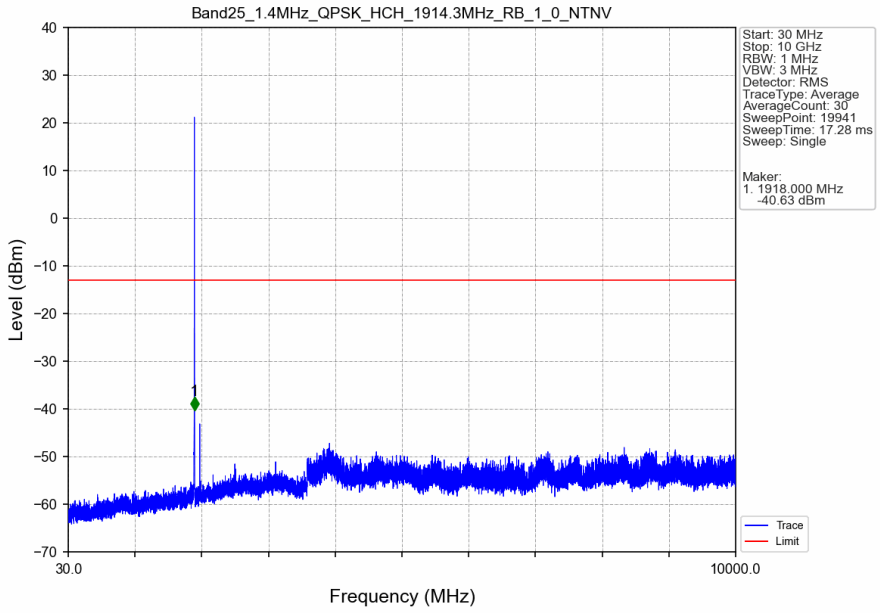
Band25_1.4MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



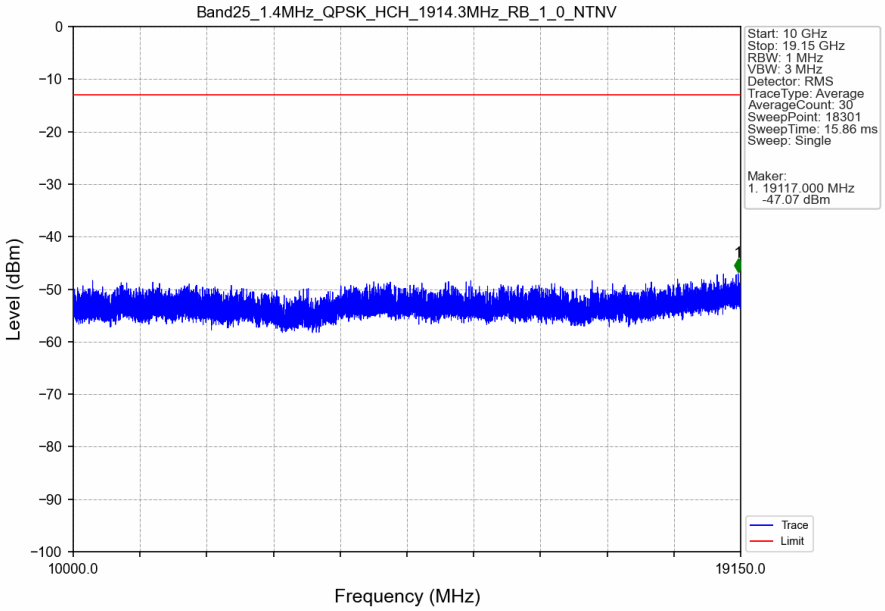

Band25_1.4MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



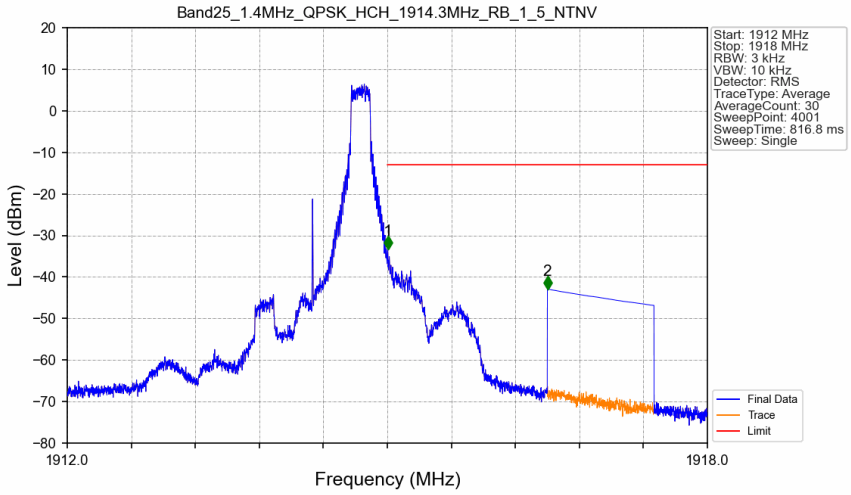
Band25_1.4MHz_QPSK_HCH_1914.3MHz_RB_1_0_NTNV




Band25_1.4MHz_QPSK_HCH_1914.3MHz_RB_1_0_NTNV

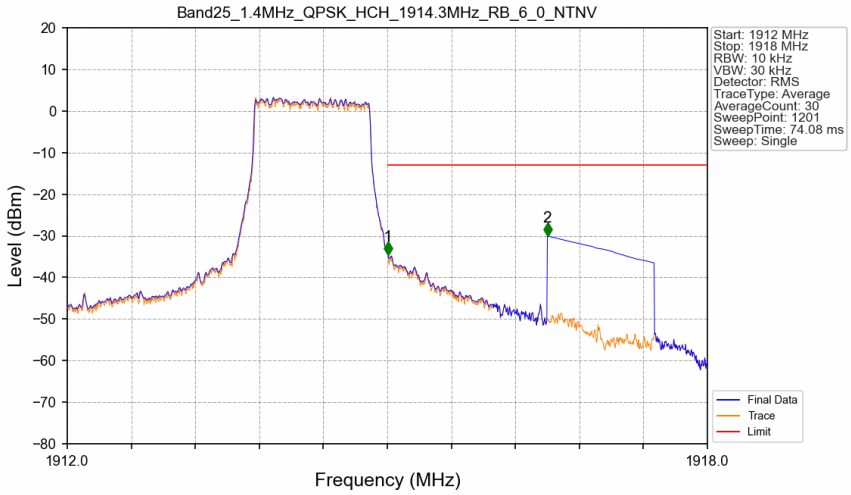


## Band25_1.4MHz_QPSK_HCH_1914.3MHz_RB_1_5_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1912 | 1915 | 0.003 | / | / | / | / | / | / |
| 1915 | 1916 | 0.003 | / | 1 | 1915.005 | -33.38 | -13 | Pass |
| 1916 | 1918 | 1 | CHP | 2 | 1916.500 | -42.89 | -13 | Pass |

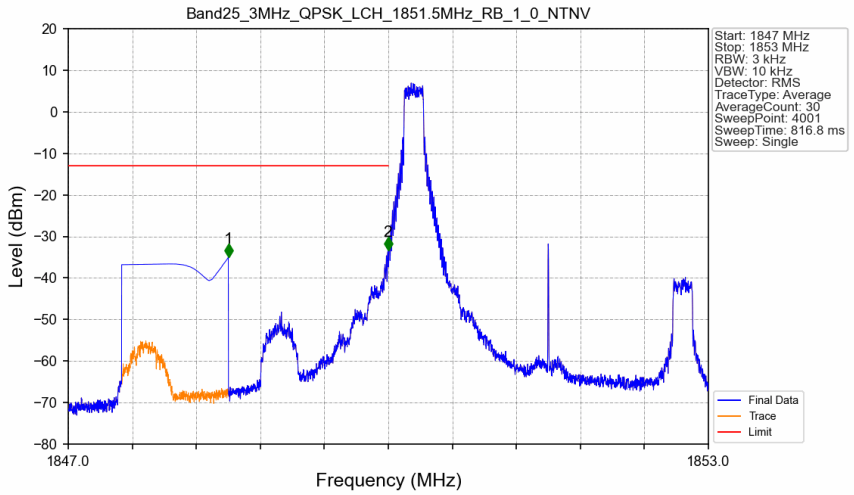
## Band25_1.4MHz_QPSK_HCH_1914.3MHz_RB_6_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1912 | 1915 | 0.013 | CHP | / | / | / | / | / |
| 1915 | 1916 | 0.013 | CHP | 1 | 1915.005 | -34.55 | -13 | Pass |
| 1916 | 1918 | 1 | CHP | 2 | 1916.500 | -30.00 | -13 | Pass |

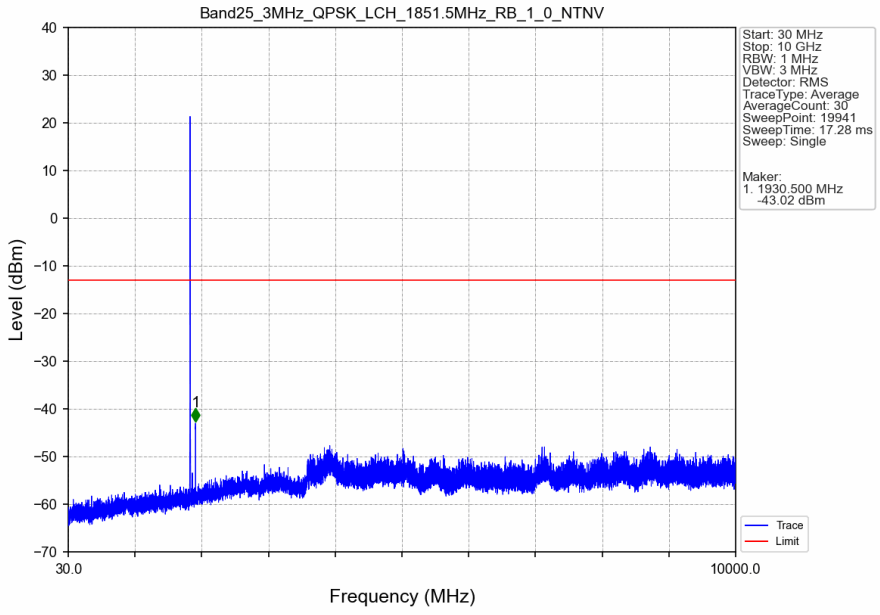
## 5.2.2 B25_3MHz

Band25_3MHz_QPSK_LCH_1851.5MHz_RB_1_0_NTNV

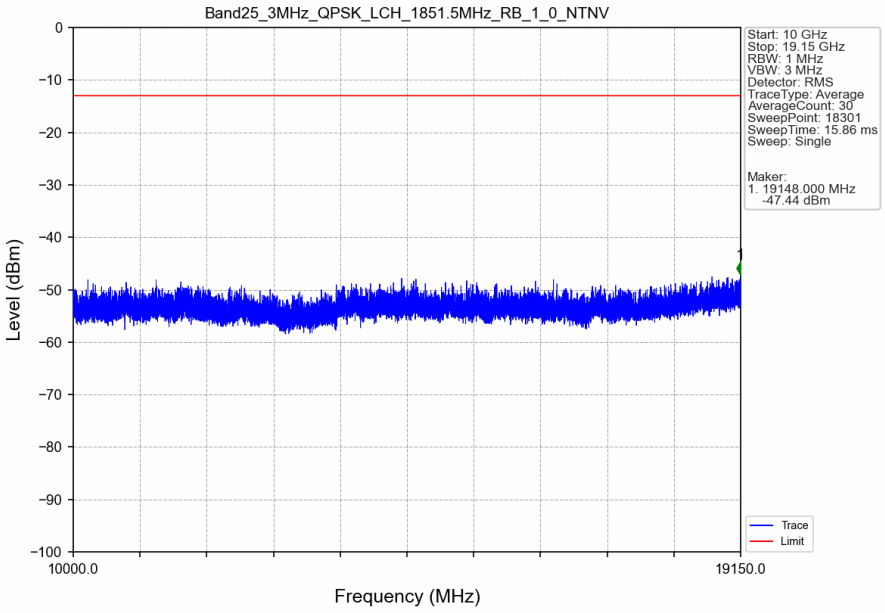



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1847 | 1849 | 1 | CHP | 1 | 1848.500 | -35.00 | -13 | Pass |
| 1849 | 1850 | 0.003 | / | 2 | 1849.997 | -33.31 | -13 | Pass |
| 1850 | 1853 | 0.003 | / | / | / | / | / | / |

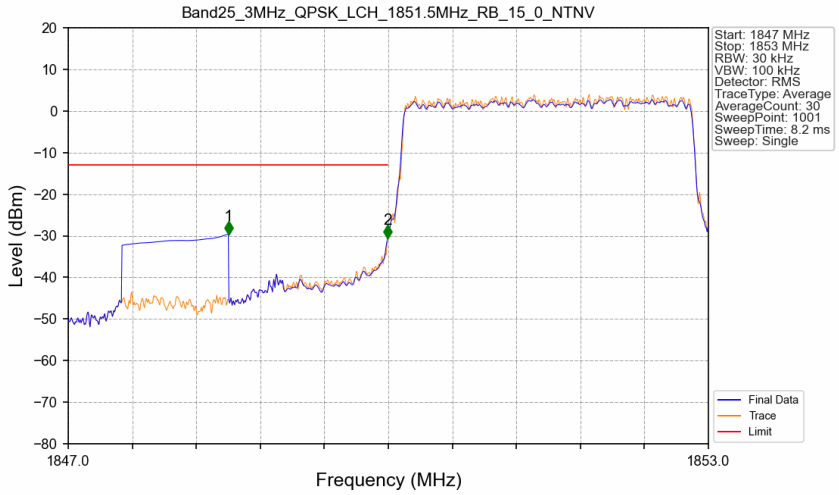
Band25_3MHz_QPSK_LCH_1851.5MHz_RB_1_0_NTNV



## Band25_3MHz_QPSK_LCH_1851.5MHz_RB_1_0_NTNV

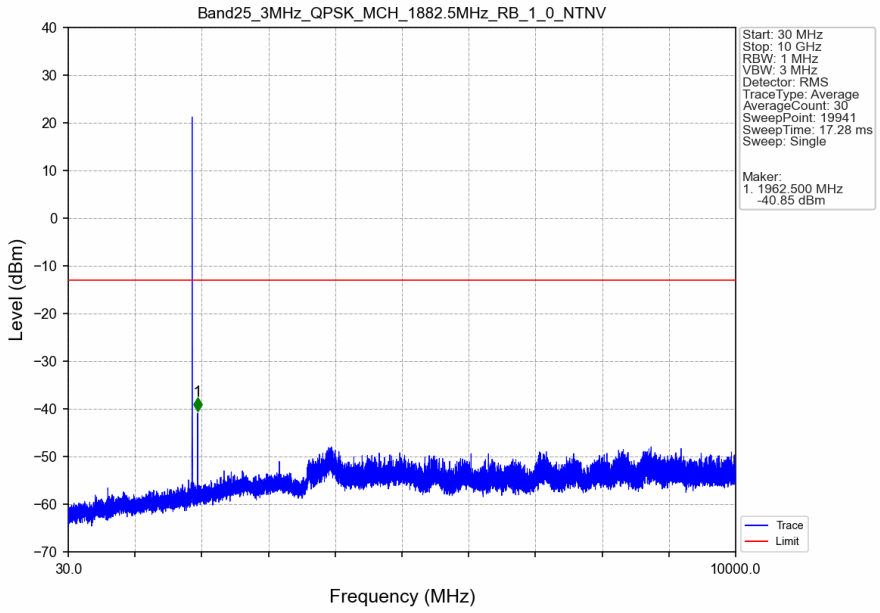



## Band25_3MHz_QPSK_LCH_1851.5MHz_RB_15_0_NTNV

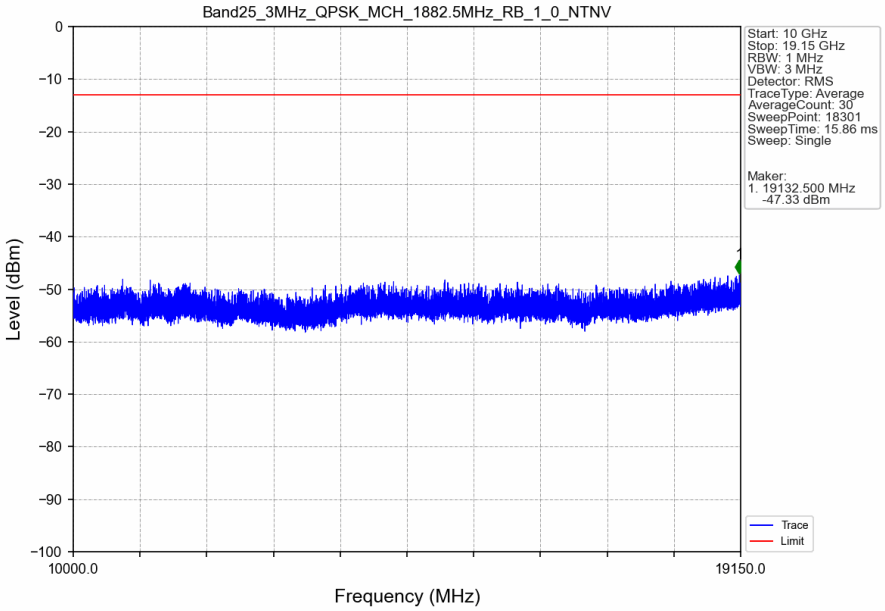



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1847 | 1849 | 1 | CHP | 1 | 1848.500 | -29.62 | -13 | Pass |
| 1849 | 1850 | 0.031 | CHP | 2 | 1849.994 | -30.58 | -13 | Pass |
| 1850 | 1853 | 0.031 | CHP | / | / | / | / | / |

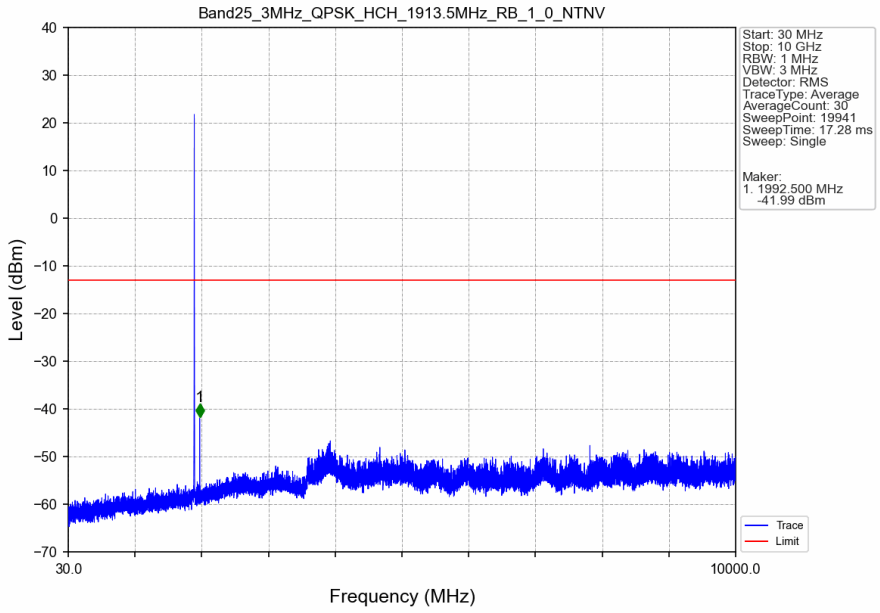
Band25_3MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



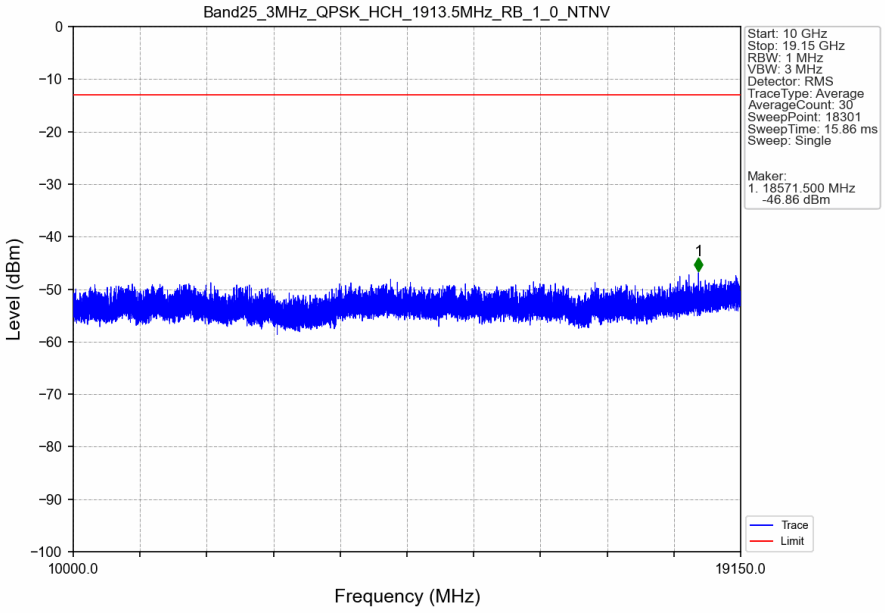

Band25_3MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



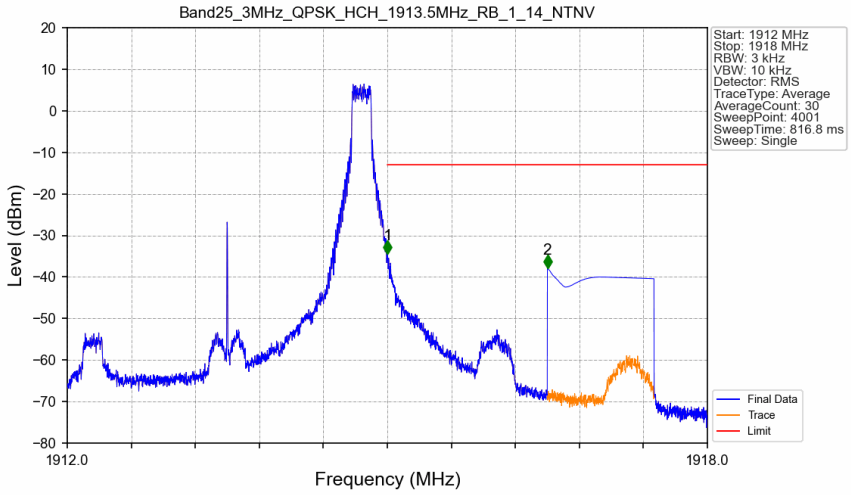
Band25_3MHz_QPSK_HCH_1913.5MHz_RB_1_0_NTNV




Band25_3MHz_QPSK_HCH_1913.5MHz_RB_1_0_NTNV

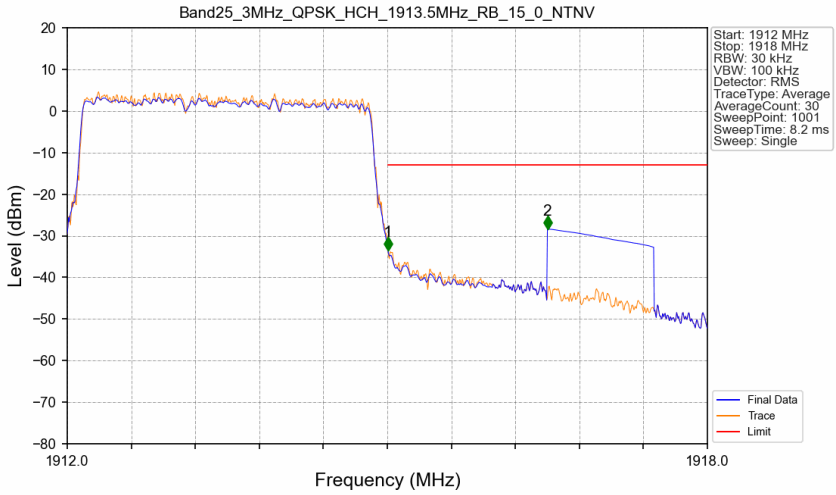


## Band25_3MHz_QPSK_HCH_1913.5MHz_RB_1_14_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1912 | 1915 | 0.003 | / | / | / | / | / | / |
| 1915 | 1916 | 0.003 | / | 1 | 1915.002 | -34.49 | -13 | Pass |
| 1916 | 1918 | 1 | CHP | 2 | 1916.500 | -37.92 | -13 | Pass |

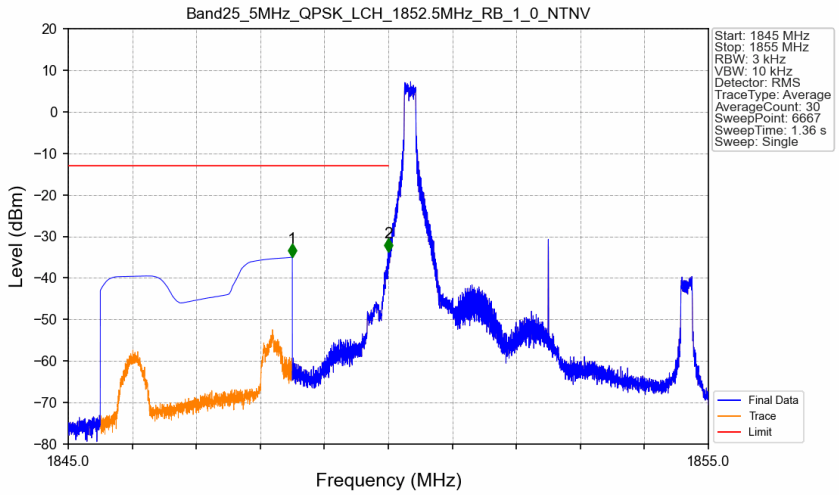
## Band25_3MHz_QPSK_HCH_1913.5MHz_RB_15_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1912 | 1915 | 0.031 | CHP | / | / | / | / | / |
| 1915 | 1916 | 0.031 | CHP | 1 | 1915.006 | -33.55 | -13 | Pass |
| 1916 | 1918 | 1 | CHP | 2 | 1916.500 | -28.38 | -13 | Pass |

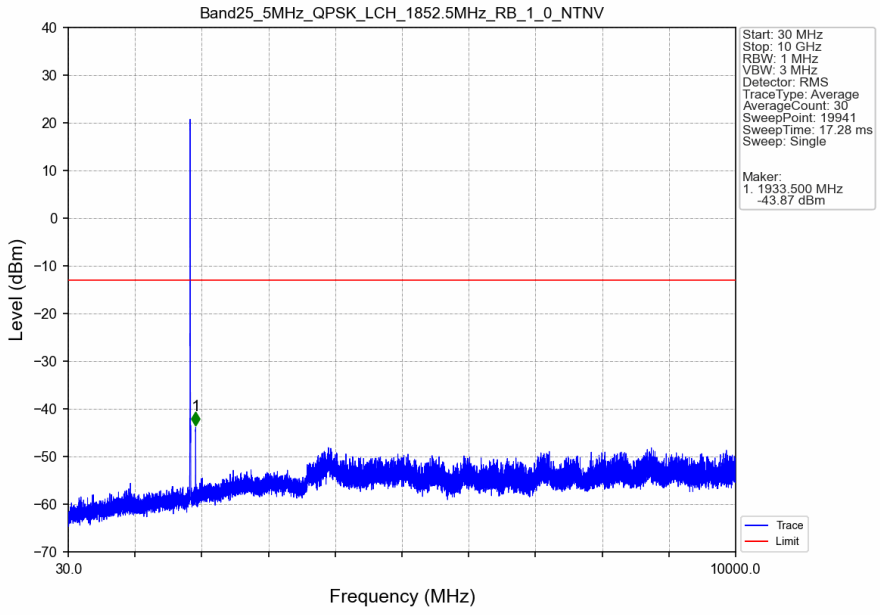
## 5.2.3 B25_5MHz

Band25_5MHz_QPSK_LCH_1852.5MHz_RB_1_0_NTNV

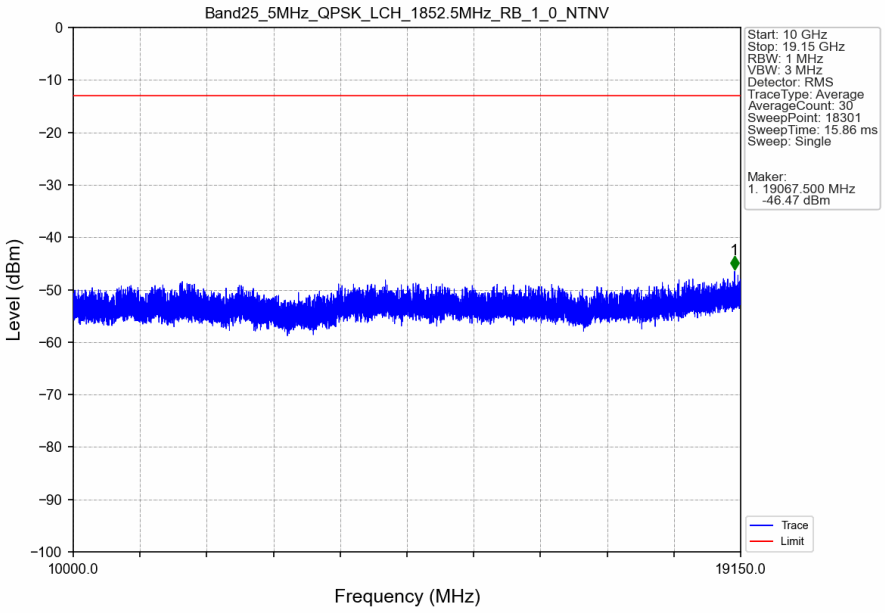



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1845 | 1849 | 1 | CHP | 1 | 1848.498 | -35.00 | -13 | Pass |
| 1849 | 1850 | 0.003 | / | 2 | 1849.998 | -33.65 | -13 | Pass |
| 1850 | 1855 | 0.003 | / | / | / | / | / | / |

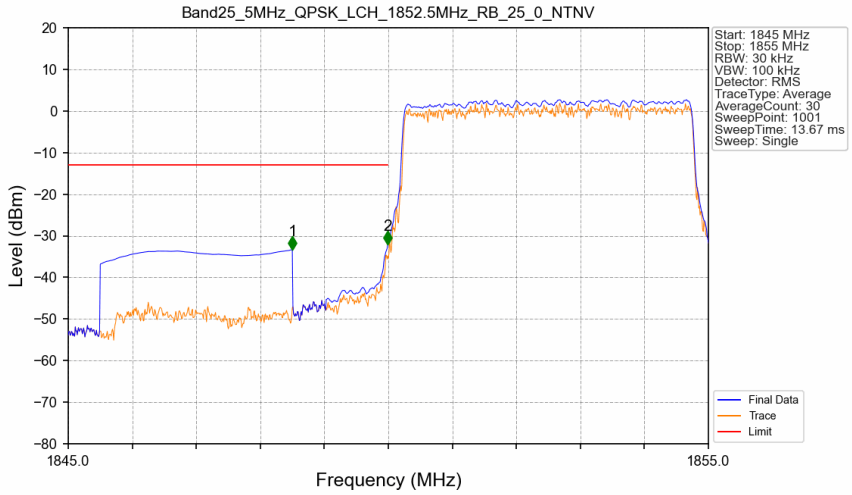
Band25_5MHz_QPSK_LCH_1852.5MHz_RB_1_0_NTNV



## Band25_5MHz_QPSK_LCH_1852.5MHz_RB_1_0_NTNV

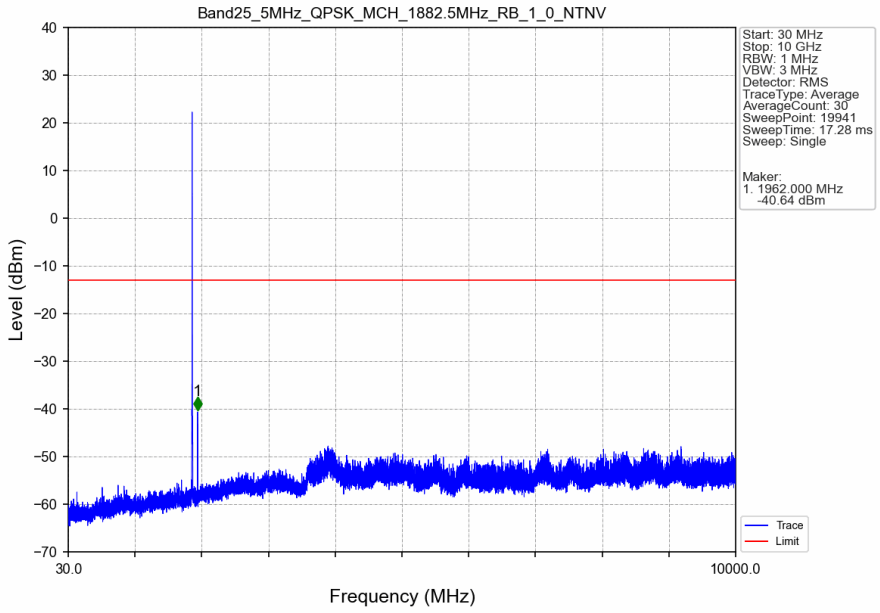



## Band25_5MHz_QPSK_LCH_1852.5MHz_RB_25_0_NTNV

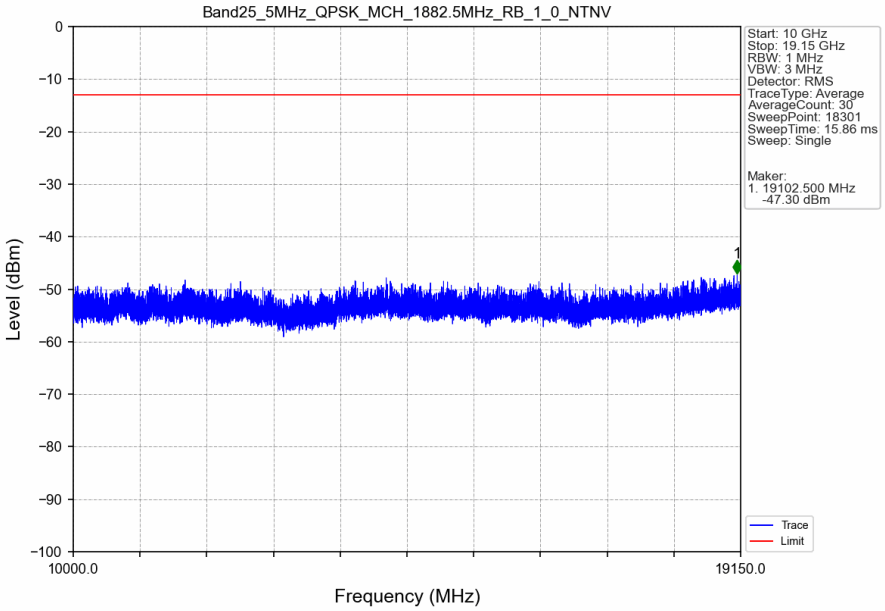



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1845 | 1849 | 1 | CHP | 1 | 1848.500 | -33.35 | -13 | Pass |
| 1849 | 1850 | 0.051 | CHP | 2 | 1849.990 | -32.12 | -13 | Pass |
| 1850 | 1855 | 0.051 | CHP | / | / | / | / | / |

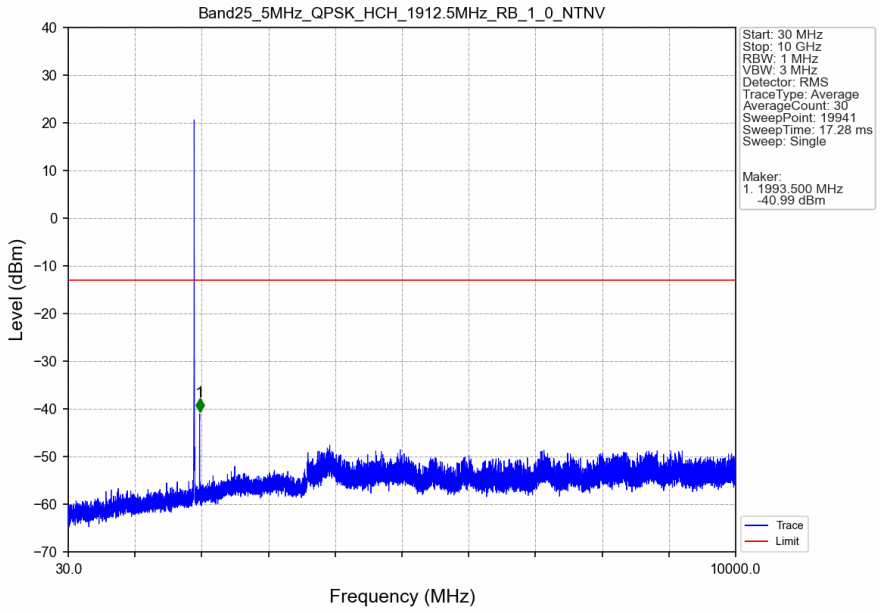
Band25_5MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



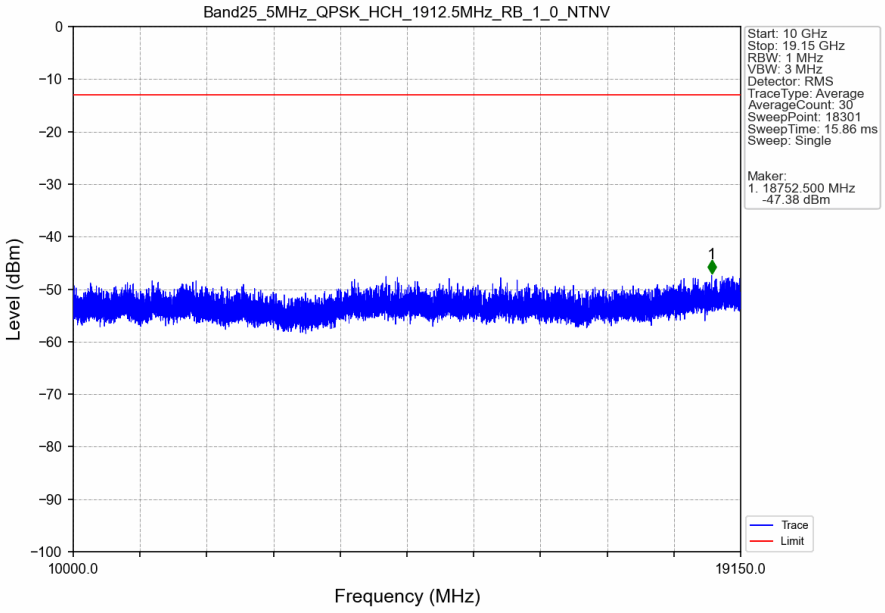

Band25_5MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



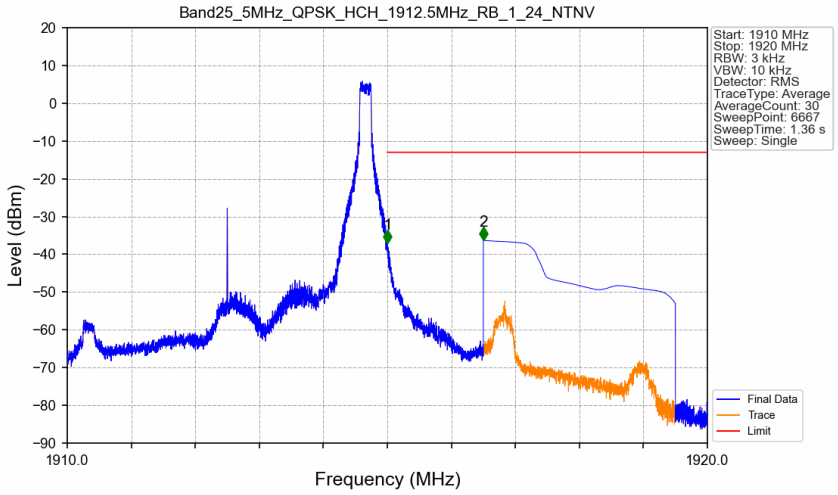
Band25_5MHz_QPSK_HCH_1912.5MHz_RB_1_0_NTNV




Band25_5MHz_QPSK_HCH_1912.5MHz_RB_1_0_NTNV

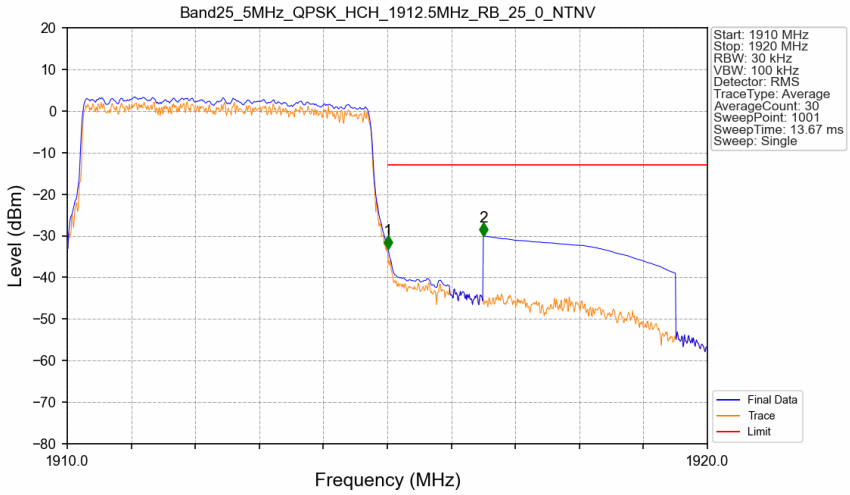


## Band25_5MHz_QPSK_HCH_1912.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1910 | 1915 | 0.003 | / | / | / | / | / | / |
| 1915 | 1916 | 0.003 | / | 1 | 1915.002 | -36.98 | -13 | Pass |
| 1916 | 1920 | 1 | CHP | 2 | 1916.500 | -36.32 | -13 | Pass |

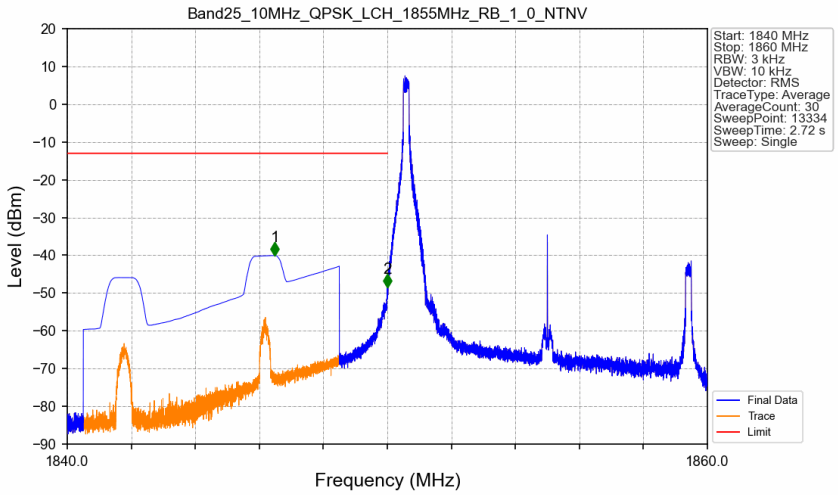
## Band25_5MHz_QPSK_HCH_1912.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1910 | 1915 | 0.051 | CHP | / | / | / | / | / |
| 1915 | 1916 | 0.051 | CHP | 1 | 1915.010 | -33.17 | -13 | Pass |
| 1916 | 1920 | 1 | CHP | 2 | 1916.500 | -30.07 | -13 | Pass |

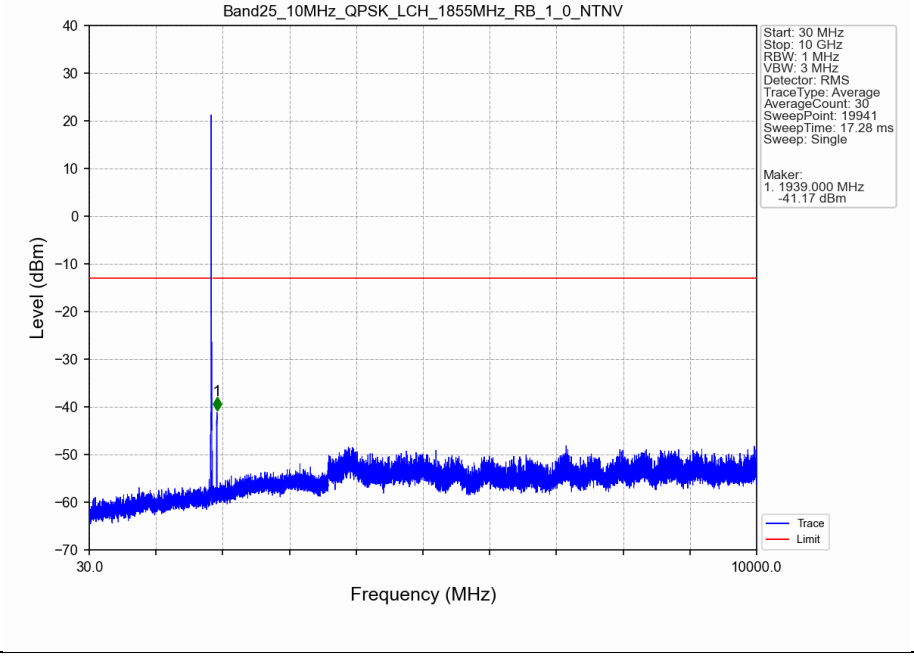
## 5.2.4 B25_10MHz

Band25_10MHz_QPSK_LCH_1855MHz_RB_1_0_NTNV

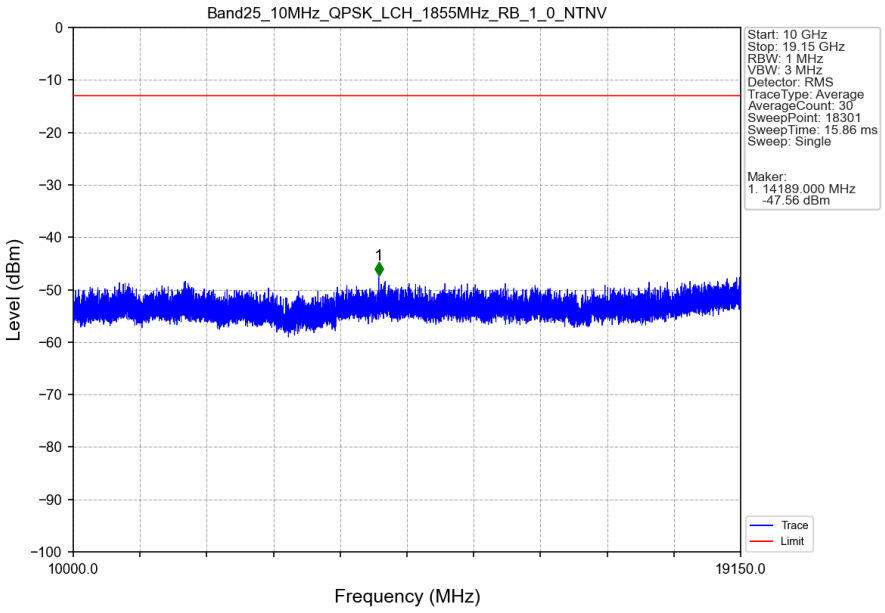



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1840 | 1849 | 1 | CHP | 1 | 1846.489 | -40.06 | -13 | Pass |
| 1849 | 1850 | 0.003 | / | 2 | 1849.996 | -48.44 | -13 | Pass |
| 1850 | 1860 | 0.003 | / | / | / | / | / | / |

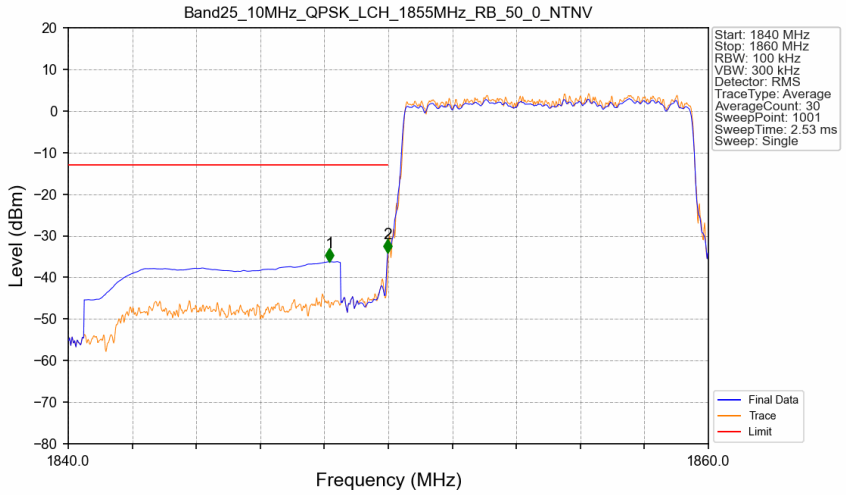
Band25_10MHz_QPSK_LCH_1855MHz_RB_1_0_NTNV



## Band25_10MHz_QPSK_LCH_1855MHz_RB_1_0_NTNV

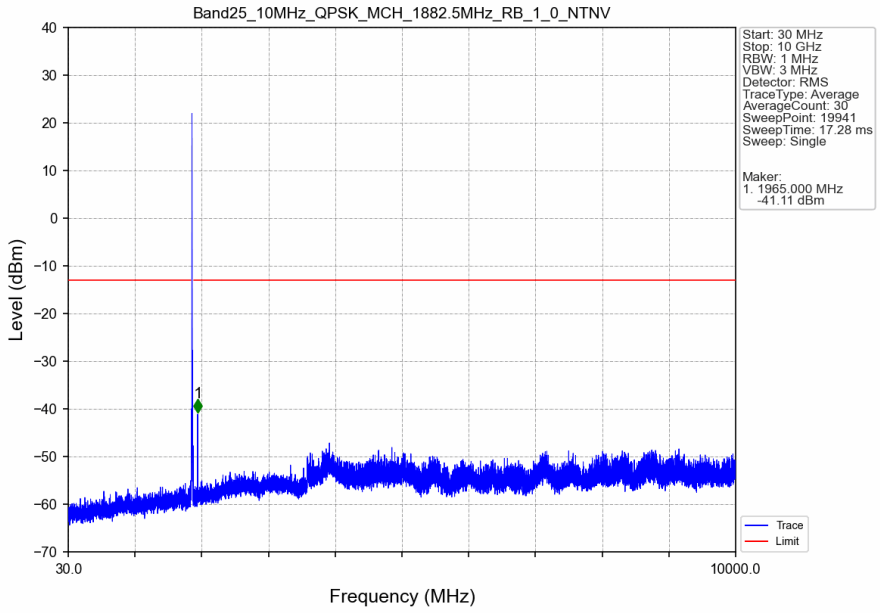



## Band25_10MHz_QPSK_LCH_1855MHz_RB_50_0_NTNV

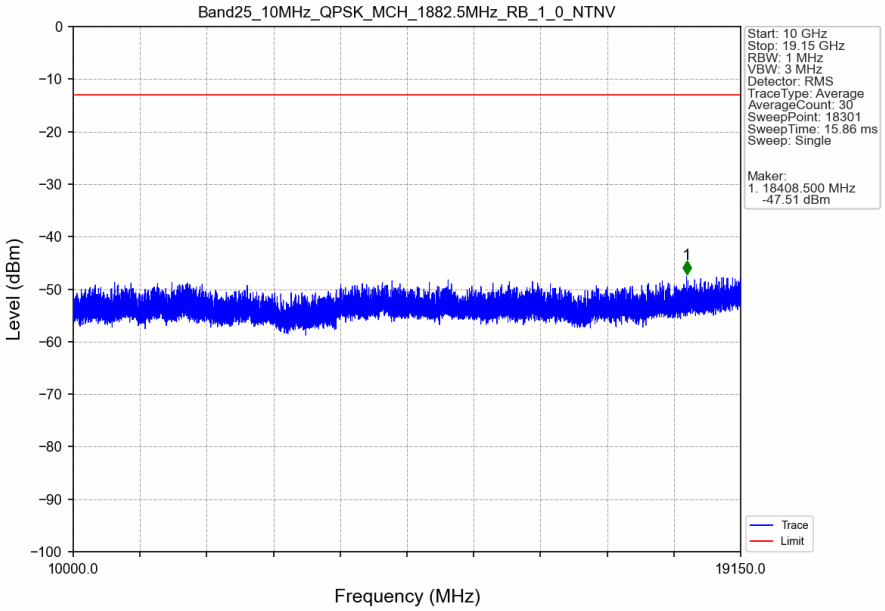



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1840 | 1849 | 1 | CHP | 1 | 1848.160 | -36.22 | -13 | Pass |
| 1849 | 1850 | 0.101 | CHP | 2 | 1849.980 | -34.04 | -13 | Pass |
| 1850 | 1860 | 0.101 | CHP | / | / | / | / | / |

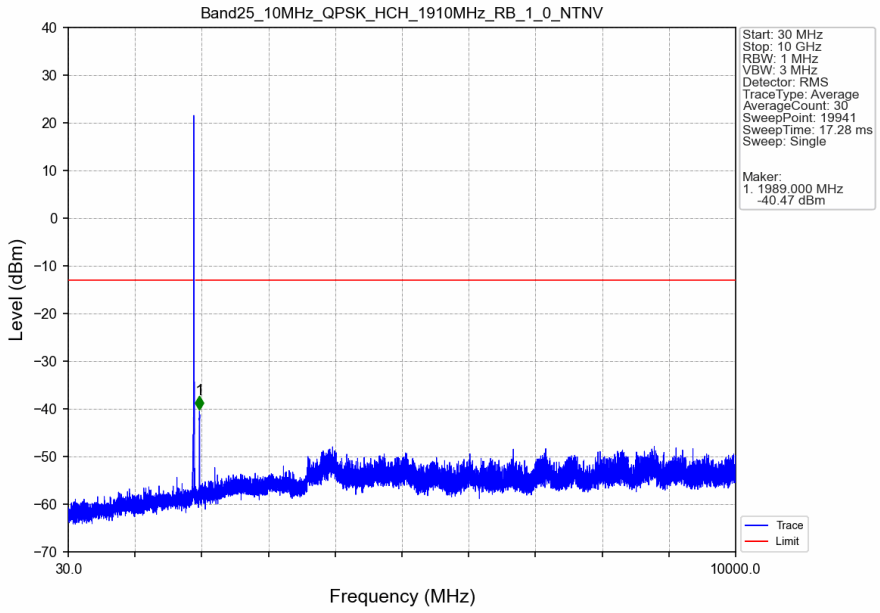
Band25_10MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



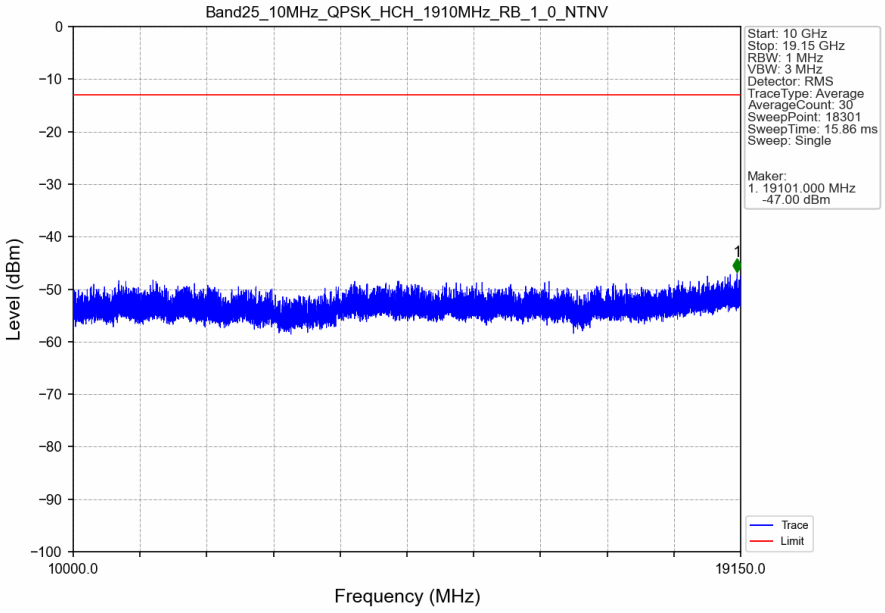

Band25_10MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



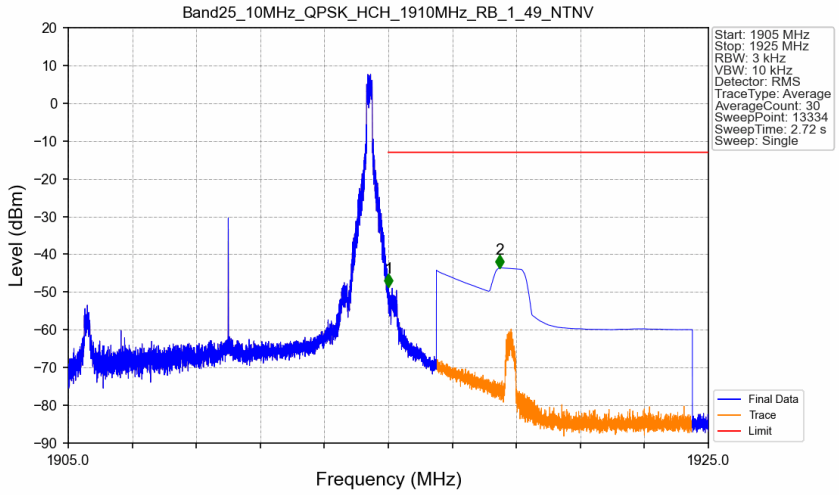
Band25_10MHz_QPSK_HCH_1910MHz_RB_1_0_NTNV




Band25_10MHz_QPSK_HCH_1910MHz_RB_1_0_NTNV

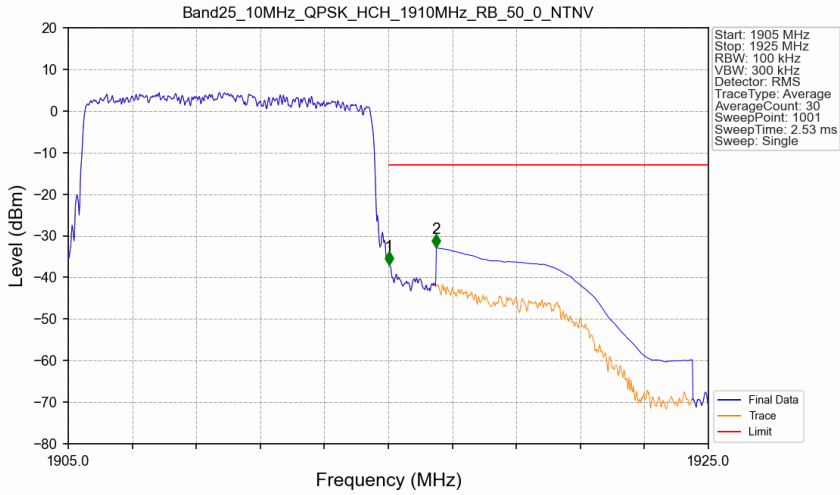


## Band25_10MHz_QPSK_HCH_1910MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1905 | 1915 | 0.003 | / | / | / | / | / | / |
| 1915 | 1916 | 0.003 | / | 1 | 1915.004 | -48.75 | -13 | Pass |
| 1916 | 1925 | 1 | CHP | 2 | 1918.484 | -43.57 | -13 | Pass |

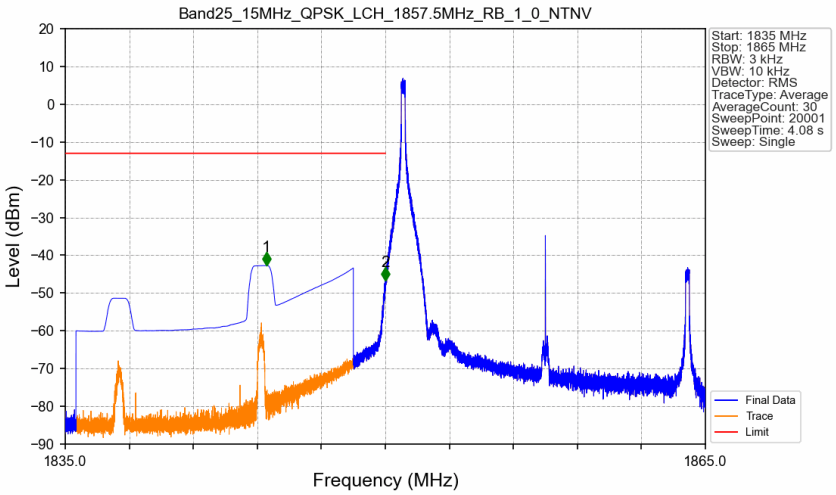
## Band25_10MHz_QPSK_HCH_1910MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1905 | 1915 | 0.1 | / | / | / | / | / | / |
| 1915 | 1916 | 0.1 | / | 1 | 1915.020 | -36.96 | -13 | Pass |
| 1916 | 1925 | 1 | CHP | 2 | 1916.500 | -32.85 | -13 | Pass |

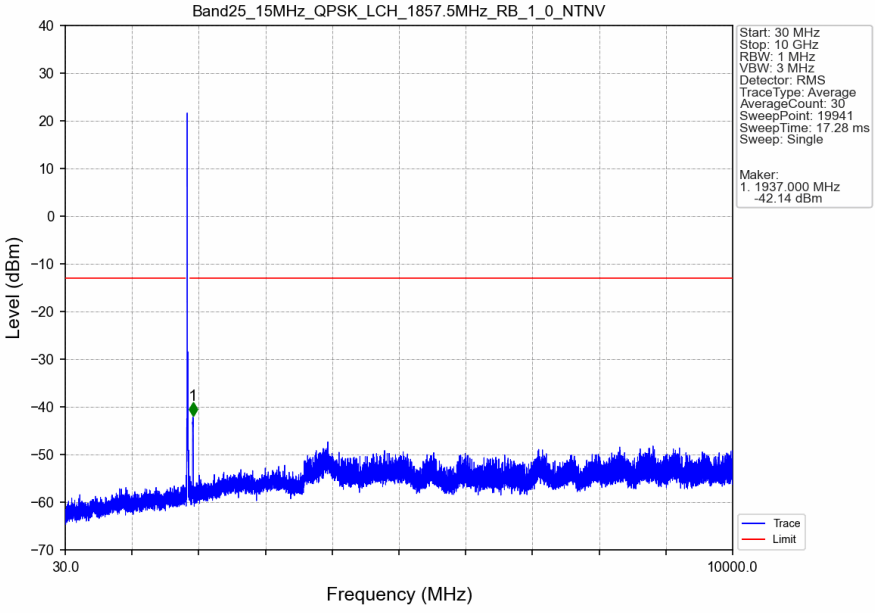
## 5.2.5 B25_15MHz

Band25_15MHz_QPSK_LCH_1857.5MHz_RB_1_0_NTNV

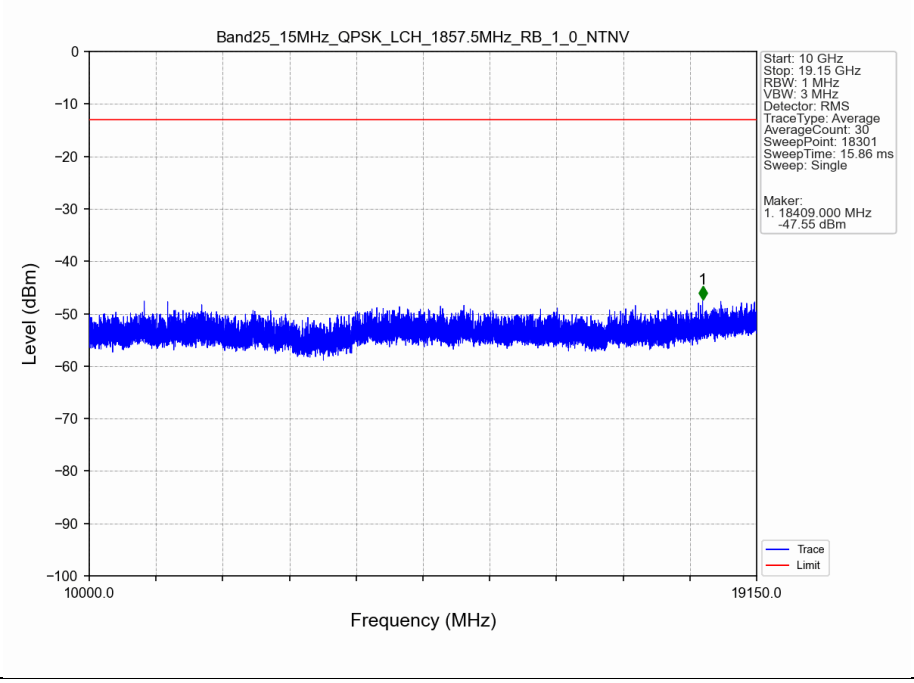



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1835 | 1849 | 1 | CHP | 1 | 1844.420 | -42.72 | -13 | Pass |
| 1849 | 1850 | 0.003 | / | 2 | 1849.994 | -46.65 | -13 | Pass |
| 1850 | 1865 | 0.003 | / | / | / | / | / | / |

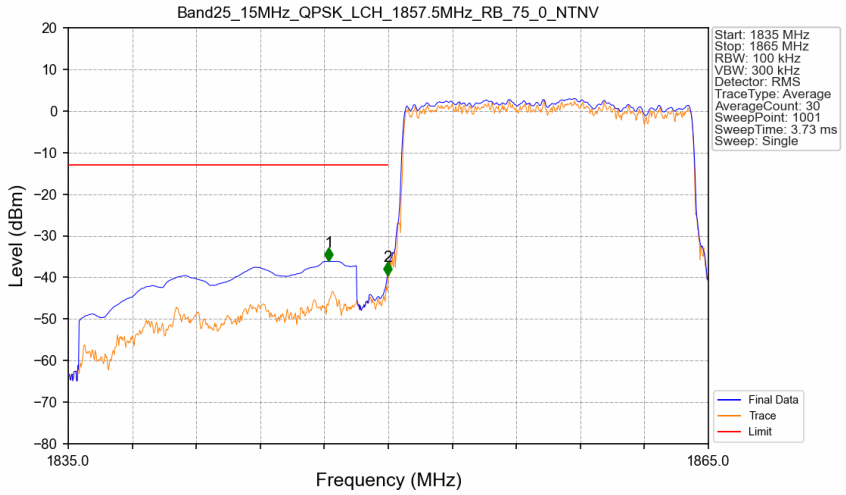
Band25_15MHz_QPSK_LCH_1857.5MHz_RB_1_0_NTNV



Band25_15MHz_QPSK_LCH_1857.5MHz_RB_1_0_NTNV

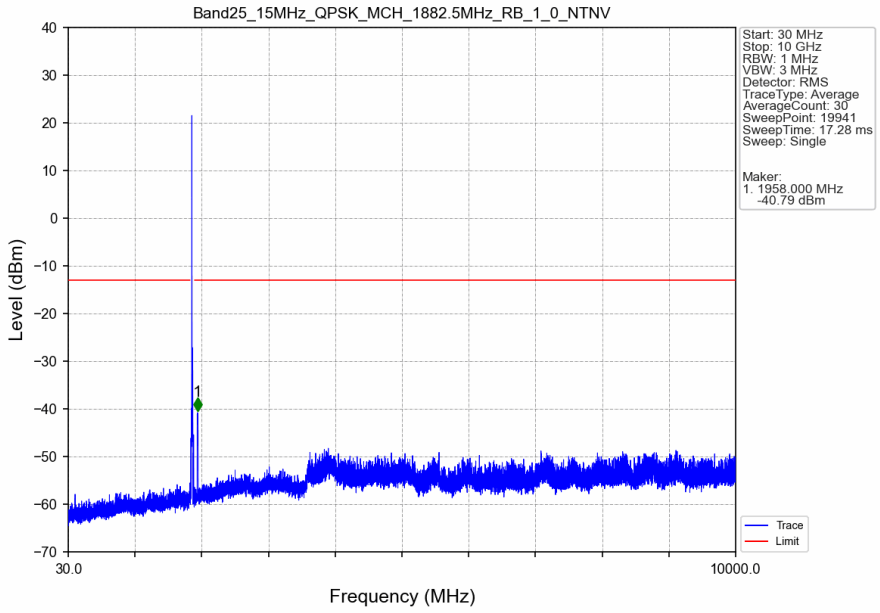



Band25_15MHz_QPSK_LCH_1857.5MHz_RB_75_0_NTNV

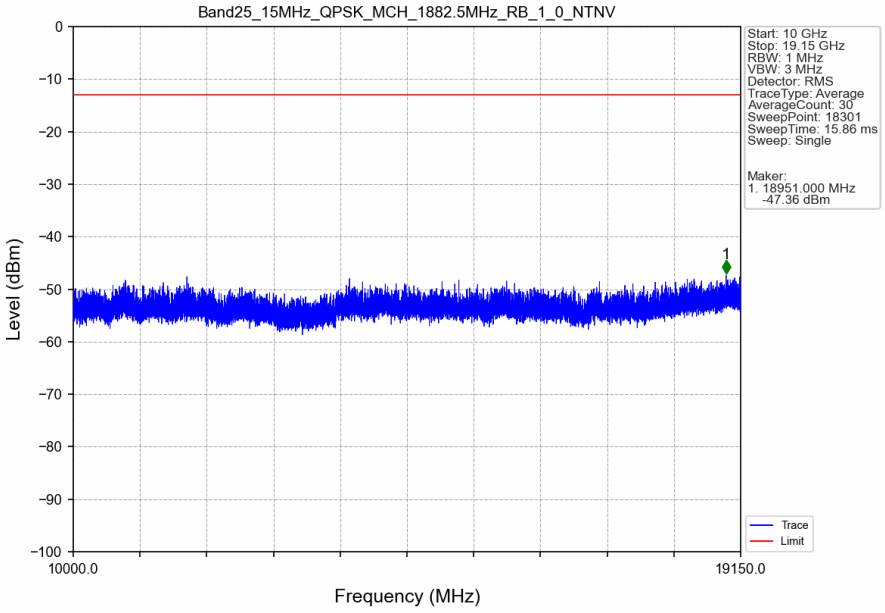



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1835 | 1849 | 1 | CHP | 1 | 1847.210 | -36.11 | -13 | Pass |
| 1849 | 1850 | 0.15 | CHP | 2 | 1849.970 | -39.45 | -13 | Pass |
| 1850 | 1865 | 0.15 | CHP | / | / | / | / | / |

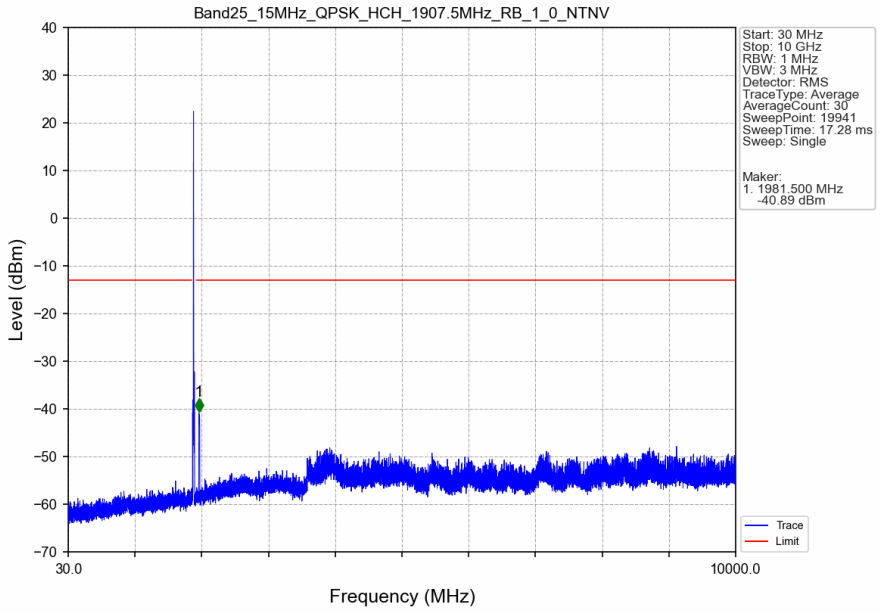
Band25_15MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



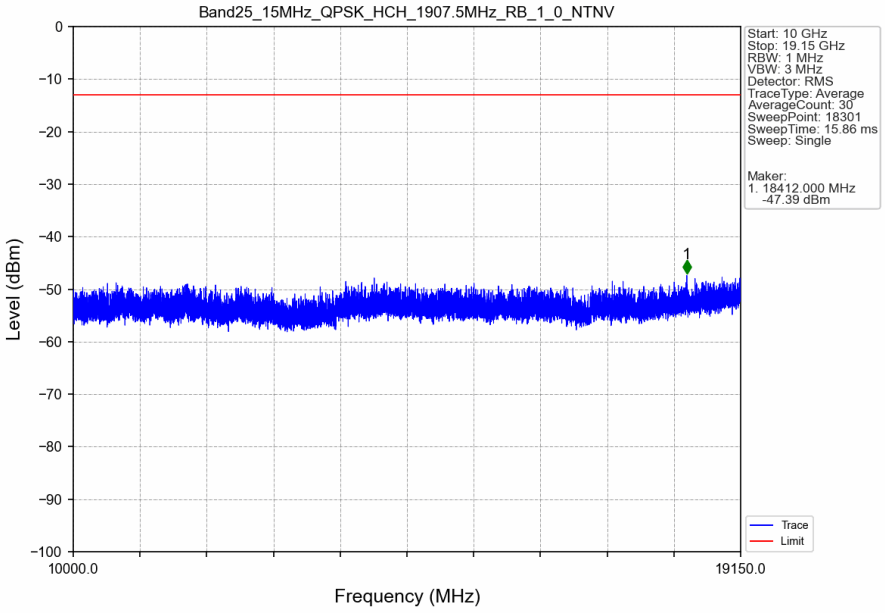

Band25_15MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



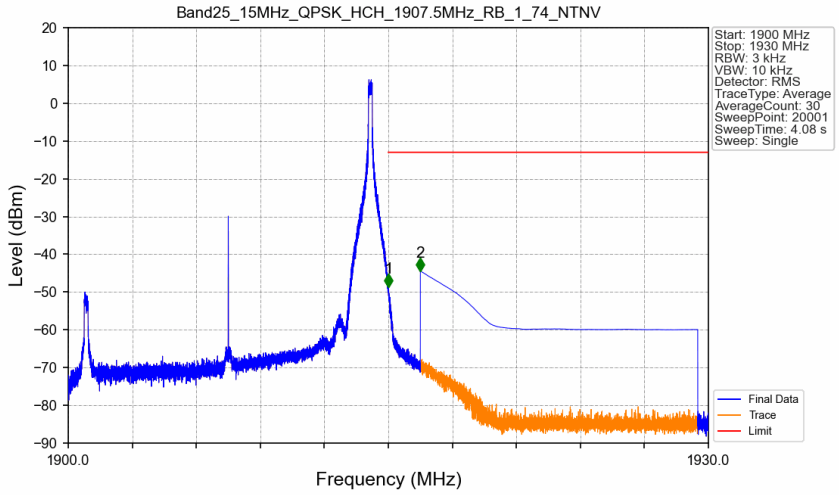
Band25_15MHz_QPSK_HCH_1907.5MHz_RB_1_0_NTNV




Band25_15MHz_QPSK_HCH_1907.5MHz_RB_1_0_NTNV

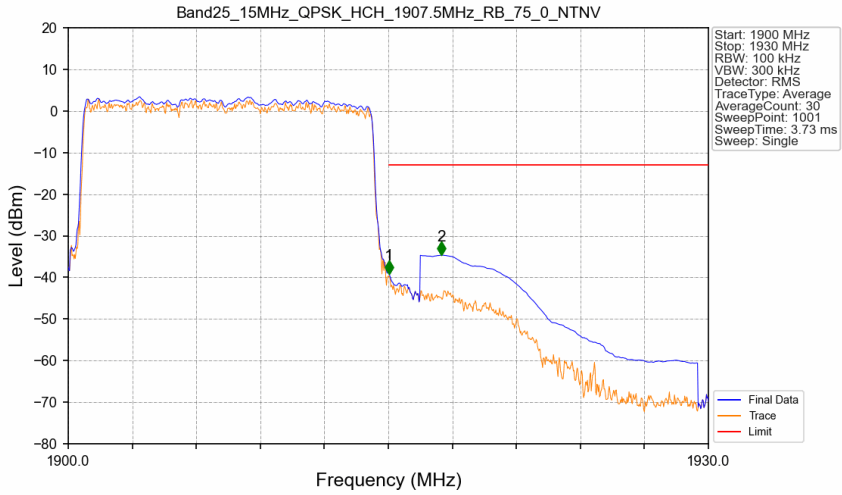


## Band25_15MHz_QPSK_HCH_1907.5MHz_RB_1_74_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1900 | 1915 | 0.003 | / | / | / | / | / | / |
| 1915 | 1916 | 0.003 | / | 1 | 1915.016 | -48.74 | -13 | Pass |
| 1916 | 1930 | 1 | CHP | 2 | 1916.500 | -44.44 | -13 | Pass |

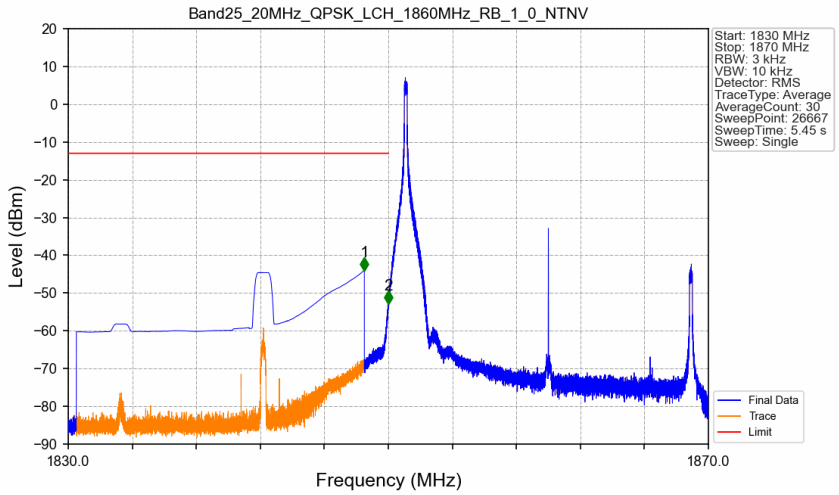
## Band25_15MHz_QPSK_HCH_1907.5MHz_RB_75_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1900 | 1915 | 0.15 | CHP | / | / | / | / | / |
| 1915 | 1916 | 0.15 | CHP | 1 | 1915.030 | -39.12 | -13 | Pass |
| 1916 | 1930 | 1 | CHP | 2 | 1917.490 | -34.66 | -13 | Pass |

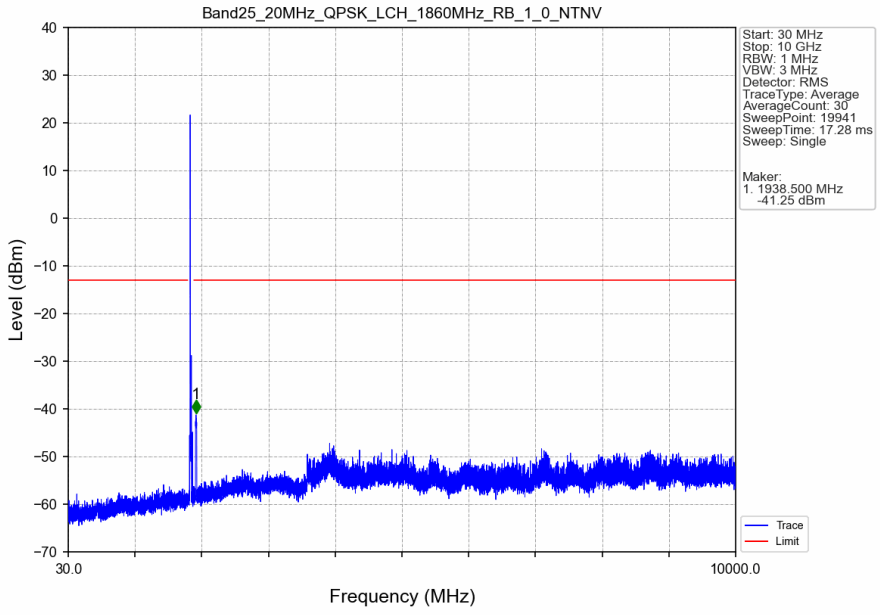
## 5.2.6 B25_20MHz

Band25_20MHz_QPSK_LCH_1860MHz_RB_1_0_NTNV

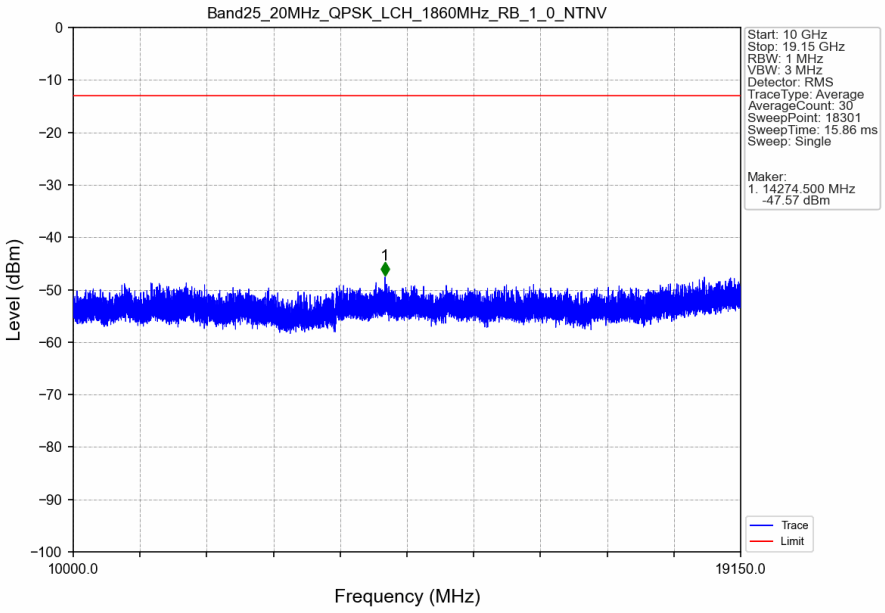



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1830 | 1849 | 1 | CHP | 1 | 1848.500 | -43.97 | -13 | Pass |
| 1849 | 1850 | 0.003 | / | 2 | 1849.995 | -52.82 | -13 | Pass |
| 1850 | 1870 | 0.003 | / | / | / | / | / | / |

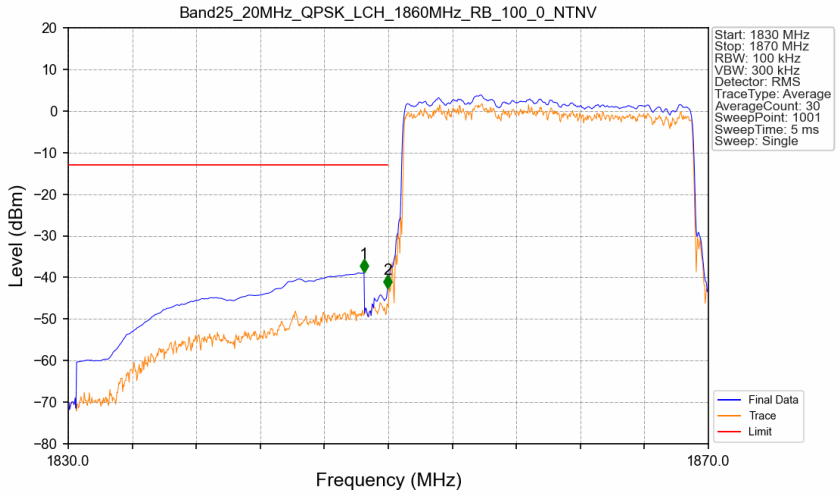
Band25_20MHz_QPSK_LCH_1860MHz_RB_1_0_NTNV



## Band25_20MHz_QPSK_LCH_1860MHz_RB_1_0_NTNV

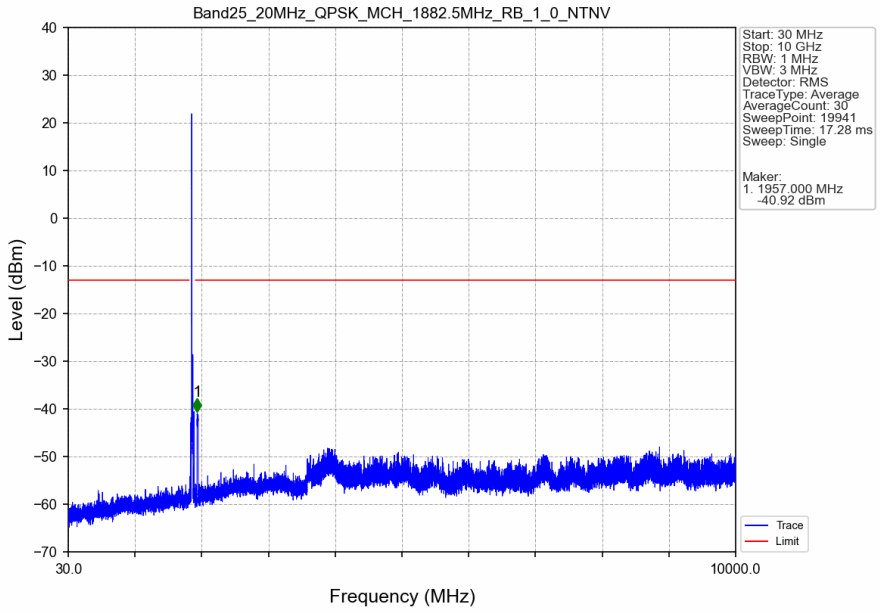



## Band25_20MHz_QPSK_LCH_1860MHz_RB_100_0_NTNV

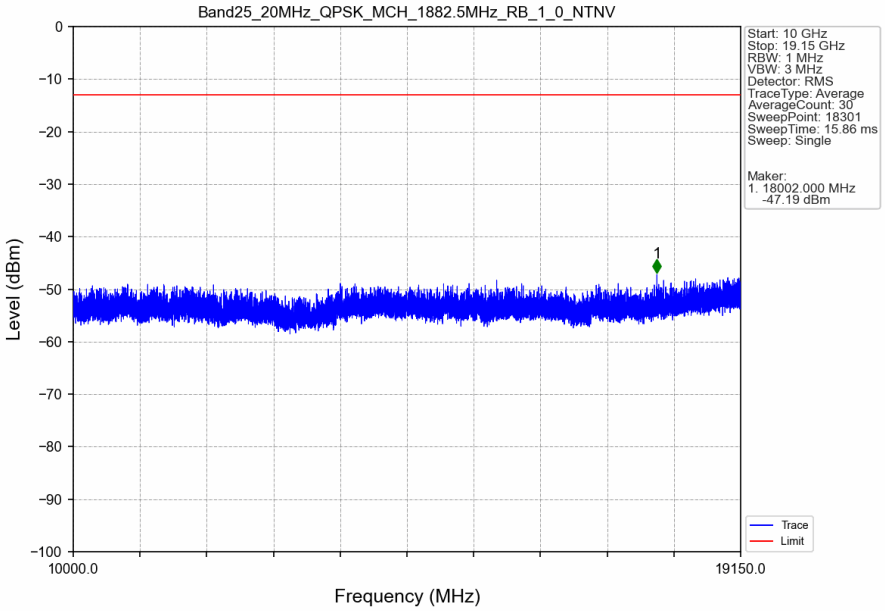



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1830 | 1849 | 1 | CHP | 1 | 1848.480 | -38.84 | -13 | Pass |
| 1849 | 1850 | 0.198 | CHP | 2 | 1849.960 | -42.65 | -13 | Pass |
| 1850 | 1870 | 0.198 | CHP | / | / | / | / | / |

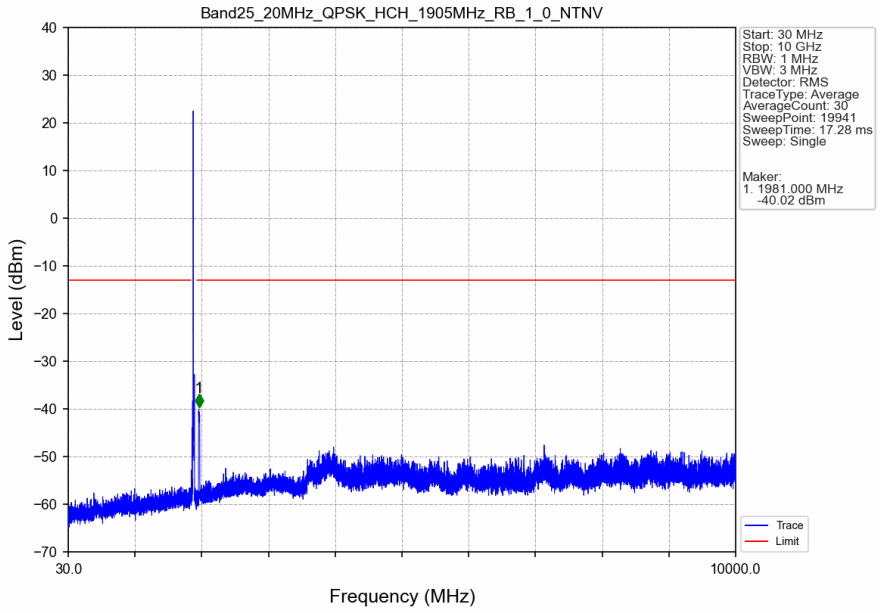
Band25_20MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



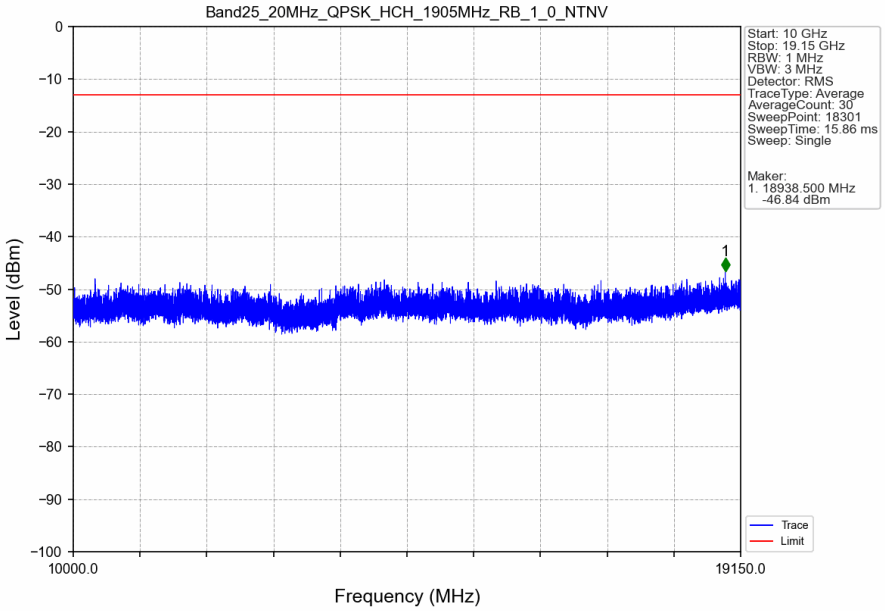

Band25_20MHz_QPSK_MCH_1882.5MHz_RB_1_0_NTNV



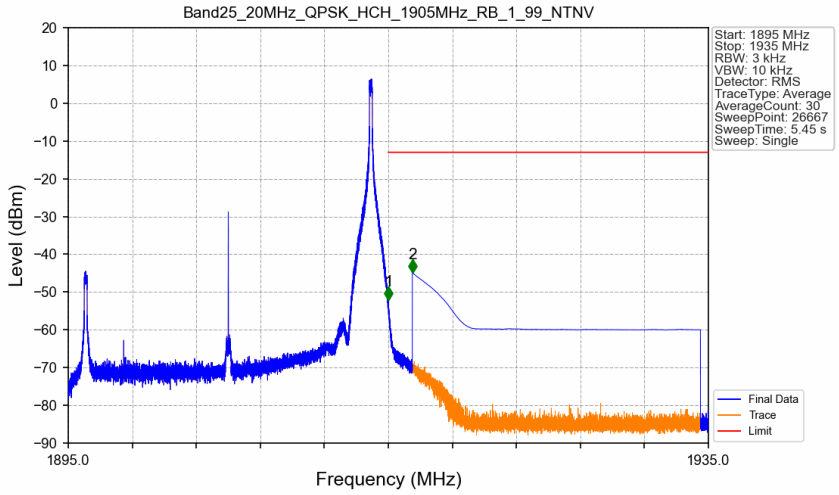
Band25_20MHz_QPSK_HCH_1905MHz_RB_1_0_NTNV




Band25_20MHz_QPSK_HCH_1905MHz_RB_1_0_NTNV

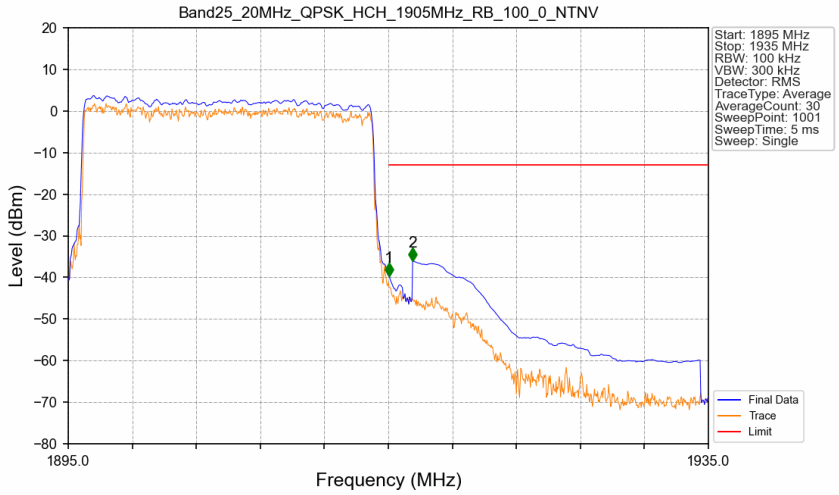


## Band25_20MHz_QPSK_HCH_1905MHz_RB_1_99_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1895 | 1915 | 0.003 | / | / | / | / | / | / |
| 1915 | 1916 | 0.003 | / | 1 | 1915.005 | -52.12 | -13 | Pass |
| 1916 | 1935 | 1 | CHP | 2 | 1916.500 | -44.87 | -13 | Pass |

## Band25_20MHz_QPSK_HCH_1905MHz_RB_100_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1895 | 1915 | 0.197 | CHP | / | / | / | / | / |
| 1915 | 1916 | 0.197 | CHP | 1 | 1915.040 | -39.73 | -13 | Pass |
| 1916 | 1935 | 1 | CHP | 2 | 1916.520 | -36.02 | -13 | Pass |

## 6. Field Strength of Spurious Radiation

| LTE Band 25-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0 | | | | |
|---|---|---|---|---|
| **Frequency** | **Spurious Emission Level** | | **Limit** | **Margin** |
| **(MHz)** | **Polaxis** | **(dBm)** | **(dBm)** | **(dB)** |
| 3702 | H | -55.09 | -13 | 42.09 |
| 5553 | H | -50.33 | -13 | 37.33 |
| 7404 | H | -51.45 | -13 | 38.45 |
| 3702 | V | -55.26 | -13 | 42.26 |
| 5553 | V | -53.36 | -13 | 40.36 |
| 7404 | V | -51.21 | -13 | 38.21 |

| LTE Band 25-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0 | | | | |
|---|---|---|---|---|
| **Frequency** | **Spurious Emission Level** | | **Limit** | **Margin** |
| **(MHz)** | **Polaxis** | **(dBm)** | **(dBm)** | **(dB)** |
| 3747 | H | -55.24 | -13 | 42.24 |
| 5620.5 | H | -52.98 | -13 | 39.98 |
| 7494 | H | -52.03 | -13 | 39.03 |
| 3747 | V | -55.93 | -13 | 42.93 |
| 5620.5 | V | -53 | -13 | 40.0 |
| 7494 | V | -52.11 | -13 | 39.11 |

| LTE Band 25-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0 | | | | |
|---|---|---|---|---|
| **Frequency** | **Spurious Emission Level** | | **Limit** | **Margin** |
| **(MHz)** | **Polaxis** | **(dBm)** | **(dBm)** | **(dB)** |
| 3792 | H | -55.74 | -13 | 42.74 |
| 5688 | H | -52.23 | -13 | 39.23 |
| 7584 | H | -51.76 | -13 | 38.76 |
| 3792 | V | -56.22 | -13 | 43.22 |
| 5688 | V | -53.36 | -13 | 40.36 |
| 7584 | V | -52.84 | -13 | 39.84 |