

1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP

1.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz / NTNV | | | | | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|---------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict | | |
| | | Size | Offset | | | Result | Limit | | | |
| QPSK | 779.5 | 1 | 0 | 21.44 | 0.39 | 19.68 | <=34.77 | Pass | | |
| | | | 13 | 21.45 | 0.39 | 19.69 | <=34.77 | Pass | | |
| | | | 24 | 21.78 | 0.39 | 20.02 | <=34.77 | Pass | | |
| | | 12 | 0 | 20.90 | 0.39 | 19.14 | <=34.77 | Pass | | |
| | | | 6 | 20.74 | 0.39 | 18.98 | <=34.77 | Pass | | |
| | | | 13 | 20.74 | 0.39 | 18.98 | <=34.77 | Pass | | |
| | | 25 | 0 | 20.72 | 0.39 | 18.96 | <=34.77 | Pass | | |
| | | 782 | 1 | 0 | 21.63 | 0.39 | 19.87 | <=34.77 | Pass | |
| | | | | 13 | 21.80 | 0.39 | 20.04 | <=34.77 | Pass | |
| | 24 | | | 21.85 | 0.39 | 20.09 | <=34.77 | Pass | | |
| | 12 | | 0 | 20.71 | 0.39 | 18.95 | <=34.77 | Pass | | |
| | | | 6 | 20.82 | 0.39 | 19.06 | <=34.77 | Pass | | |
| | | | 13 | 20.93 | 0.39 | 19.17 | <=34.77 | Pass | | |
| | 25 | | 0 | 20.86 | 0.39 | 19.10 | <=34.77 | Pass | | |
| | 784.5 | | 1 | 0 | 21.75 | 0.39 | 19.99 | <=34.77 | Pass | |
| | | | | 13 | 21.75 | 0.39 | 19.99 | <=34.77 | Pass | |
| | | 24 | | 21.67 | 0.39 | 19.91 | <=34.77 | Pass | | |
| | | 12 | 0 | 20.92 | 0.39 | 19.16 | <=34.77 | Pass | | |
| | | | 6 | 20.89 | 0.39 | 19.13 | <=34.77 | Pass | | |
| | | | 13 | 20.78 | 0.39 | 19.02 | <=34.77 | Pass | | |
| | | 25 | 0 | 20.79 | 0.39 | 19.03 | <=34.77 | Pass | | |
| | | 16QAM | 779.5 | 1 | 0 | 20.91 | 0.39 | 19.15 | <=34.77 | Pass |
| | | | | | 13 | 20.76 | 0.39 | 19.00 | <=34.77 | Pass |
| | 24 | | | | 20.90 | 0.39 | 19.14 | <=34.77 | Pass | |
| | 12 | | | 0 | 19.87 | 0.39 | 18.11 | <=34.77 | Pass | |
| | | | | 6 | 19.72 | 0.39 | 17.96 | <=34.77 | Pass | |
| | | | | 13 | 19.73 | 0.39 | 17.97 | <=34.77 | Pass | |
| 25 | 0 | | | 19.71 | 0.39 | 17.95 | <=34.77 | Pass | | |
| 782 | 1 | | | 0 | 19.76 | 0.39 | 18.00 | <=34.77 | Pass | |
| | | | | 13 | 19.81 | 0.39 | 18.05 | <=34.77 | Pass | |
| | | | 24 | 19.86 | 0.39 | 18.10 | <=34.77 | Pass | | |
| | 12 | | 0 | 19.66 | 0.39 | 17.90 | <=34.77 | Pass | | |
| | | | 6 | 19.81 | 0.39 | 18.05 | <=34.77 | Pass | | |
| | | | 13 | 19.88 | 0.39 | 18.12 | <=34.77 | Pass | | |
| | 25 | | 0 | 19.84 | 0.39 | 18.08 | <=34.77 | Pass | | |
| | 784.5 | | 1 | 0 | 20.81 | 0.39 | 19.05 | <=34.77 | Pass | |
| | | | | 13 | 20.80 | 0.39 | 19.04 | <=34.77 | Pass | |
| 24 | | | | 20.80 | 0.39 | 19.04 | <=34.77 | Pass | | |
| 12 | | | 0 | 19.85 | 0.39 | 18.09 | <=34.77 | Pass | | |
| | | | 6 | 19.86 | 0.39 | 18.10 | <=34.77 | Pass | | |
| | | | 13 | 19.86 | 0.39 | 18.10 | <=34.77 | Pass | | |
| 25 | | | 0 | 19.88 | 0.39 | 18.12 | <=34.77 | Pass | | |

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B13_10MHz_ERP

1.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz / NTV | | | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 782 | 1 | 0 | 21.43 | 0.39 | 19.67 | <=34.77 | Pass |
| | | | | 21.75 | 0.39 | 19.99 | <=34.77 | Pass |
| | | | | 21.72 | 0.39 | 19.96 | <=34.77 | Pass |
| | | 25 | 0 | 20.75 | 0.39 | 18.99 | <=34.77 | Pass |
| | | | | 20.73 | 0.39 | 18.97 | <=34.77 | Pass |
| | | | | 20.81 | 0.39 | 19.05 | <=34.77 | Pass |
| | | 50 | 0 | 20.76 | 0.39 | 19.00 | <=34.77 | Pass |
| | | | | 21.46 | 0.39 | 19.70 | <=34.77 | Pass |
| | | | | 21.43 | 0.39 | 19.67 | <=34.77 | Pass |
| 16QAM | 782 | 1 | 0 | 21.51 | 0.39 | 19.75 | <=34.77 | Pass |
| | | | | 19.79 | 0.39 | 18.03 | <=34.77 | Pass |
| | | | | 19.83 | 0.39 | 18.07 | <=34.77 | Pass |
| | | 25 | 0 | 19.85 | 0.39 | 18.09 | <=34.77 | Pass |
| | | | | 19.81 | 0.39 | 18.05 | <=34.77 | Pass |
| | | | | 19.81 | 0.39 | 18.05 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B13_5MHz

2.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz | | | | | | | | | | |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|-------------|------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict | |
| | | Size | Offset | | | | Result | Limit | | |
| QPSK | 779.5 | 25 | 0 | 20 | 3.27 | 23.975 | 0.0308 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | 28.582 | 0.0367 | -2.5 to 2.5 | Pass | |
| | | | | | 4.43 | 17.138 | 0.0220 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | 2.689 | 0.0034 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -11.845 | -0.0152 | -2.5 to 2.5 | Pass |
| | | | | | | 3.85 | -25.377 | -0.0326 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -37.951 | -0.0487 | -2.5 to 2.5 | Pass | |
| | | | | | 10 | 3.85 | -48.938 | -0.0628 | -2.5 to 2.5 | Pass |
| | | | | | 30 | 3.85 | -3.204 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -12.717 | -0.0163 | -2.5 to 2.5 | Pass | |
| | | | | | 50 | 3.85 | -23.732 | -0.0304 | -2.5 to 2.5 | Pass |
| | | | | | | 3.85 | 17.338 | 0.0222 | -2.5 to 2.5 | Pass |
| | 782 | 25 | 0 | 20 | | 3.85 | 24.977 | 0.0319 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 19.512 | 0.0250 | -2.5 to 2.5 | Pass | |
| | | | | | 3.85 | 9.055 | 0.0116 | -2.5 to 2.5 | Pass | |
| | | | | -30 | 3.85 | -1.473 | -0.0019 | -2.5 to 2.5 | Pass | |
| | | | | | -20 | 3.85 | -11.816 | -0.0151 | -2.5 to 2.5 | Pass |
| | | | | | | 3.85 | -20.657 | -0.0264 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -29.154 | -0.0373 | -2.5 to 2.5 | Pass | |
| | | | | | 30 | 3.85 | -37.737 | -0.0483 | -2.5 to 2.5 | Pass |
| | | | | | 40 | 3.85 | -48.480 | -0.0620 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -11.086 | -0.0142 | -2.5 to 2.5 | Pass | |
| | | | | | 20 | 3.27 | 9.942 | 0.0127 | -2.5 to 2.5 | Pass |
| | | | | | | 3.85 | 20.213 | 0.0258 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|-------|-------|--------|---------|-------------|-------------|---------|-------------|-------------|------|
| | | | | | 4.43 | 21.815 | 0.0278 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 19.655 | 0.0251 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 17.052 | 0.0217 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 15.578 | 0.0199 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 15.621 | 0.0199 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 12.488 | 0.0159 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 11.530 | 0.0147 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 9.613 | 0.0123 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 7.381 | 0.0094 | -2.5 to 2.5 | Pass |
| 16QAM | 779.5 | 25 | 0 | 20 | 3.27 | -41.370 | -0.0531 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -43.974 | -0.0564 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -41.342 | -0.0530 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -40.984 | -0.0526 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -40.040 | -0.0514 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -40.383 | -0.0518 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -40.627 | -0.0521 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -40.569 | -0.0520 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -41.199 | -0.0529 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -39.053 | -0.0501 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -38.695 | -0.0496 | -2.5 to 2.5 | Pass | | | |
| | 782 | 25 | 0 | 20 | 3.27 | -17.967 | -0.0230 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -18.854 | -0.0241 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -17.695 | -0.0226 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -16.694 | -0.0213 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -15.135 | -0.0194 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -14.291 | -0.0183 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -10.829 | -0.0138 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -9.098 | -0.0116 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -7.567 | -0.0097 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -7.567 | -0.0097 | -2.5 to 2.5 | Pass |
| | 50 | 3.85 | -8.883 | -0.0114 | -2.5 to 2.5 | Pass | | | |
| | 784.5 | 25 | 0 | 20 | 3.27 | 5.651 | 0.0072 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 9.155 | 0.0117 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 17.052 | 0.0217 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 22.087 | 0.0282 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 28.224 | 0.0360 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 33.717 | 0.0430 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 32.129 | 0.0410 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 11.559 | 0.0147 | -2.5 to 2.5 | Pass |
| 30 | | | | 3.85 | -9.284 | -0.0118 | -2.5 to 2.5 | Pass | |
| 40 | | | | 3.85 | -10.729 | -0.0137 | -2.5 to 2.5 | Pass | |
| 50 | 3.85 | -7.539 | -0.0096 | -2.5 to 2.5 | Pass | | | | |

2.2 B13_10MHz

2.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz | | | | | | | | | |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 782 | 50 | 0 | 20 | 3.27 | 37.994 | 0.0486 | -2.5 to 2.5 | Pass |
| | | | | | | | -0.0076 | -2.5 to 2.5 | Pass |
| | | | | | | | -0.0395 | -2.5 to 2.5 | Pass |
| | | | | | | | -0.0163 | -2.5 to 2.5 | Pass |
| | | | | | | | -0.0517 | -2.5 to 2.5 | Pass |

| | | | | | | | | | | | | | |
|-------|-----|----|---|-----|------|---------|---------|-------------|------|---------|---------|-------------|------|
| | | | | -10 | 3.85 | -0.987 | -0.0013 | -2.5 to 2.5 | Pass | | | | |
| | | | | 0 | 3.85 | -15.864 | -0.0203 | -2.5 to 2.5 | Pass | | | | |
| | | | | 10 | 3.85 | -27.809 | -0.0356 | -2.5 to 2.5 | Pass | | | | |
| | | | | 30 | 3.85 | -41.728 | -0.0534 | -2.5 to 2.5 | Pass | | | | |
| | | | | 40 | 3.85 | -36.163 | -0.0462 | -2.5 to 2.5 | Pass | | | | |
| | | | | 50 | 3.85 | -9.470 | -0.0121 | -2.5 to 2.5 | Pass | | | | |
| 16QAM | 782 | 50 | 0 | 20 | 3.27 | -19.712 | -0.0252 | -2.5 to 2.5 | Pass | | | | |
| | | | | | 3.85 | -19.083 | -0.0244 | -2.5 to 2.5 | Pass | | | | |
| | | | | | 4.43 | -17.366 | -0.0222 | -2.5 to 2.5 | Pass | | | | |
| | | | | | | | | -30 | 3.85 | -14.834 | -0.0190 | -2.5 to 2.5 | Pass |
| | | | | | | | | -20 | 3.85 | -14.834 | -0.0190 | -2.5 to 2.5 | Pass |
| | | | | | | | | -10 | 3.85 | -12.875 | -0.0165 | -2.5 to 2.5 | Pass |
| | | | | | | | | 0 | 3.85 | -8.011 | -0.0102 | -2.5 to 2.5 | Pass |
| | | | | | | | | 10 | 3.85 | -7.453 | -0.0095 | -2.5 to 2.5 | Pass |
| | | | | | | | | 30 | 3.85 | -5.136 | -0.0066 | -2.5 to 2.5 | Pass |
| | | | | | | | | 40 | 3.85 | -4.621 | -0.0059 | -2.5 to 2.5 | Pass |
| | | | | | | | | 50 | 3.85 | -3.562 | -0.0046 | -2.5 to 2.5 | Pass |

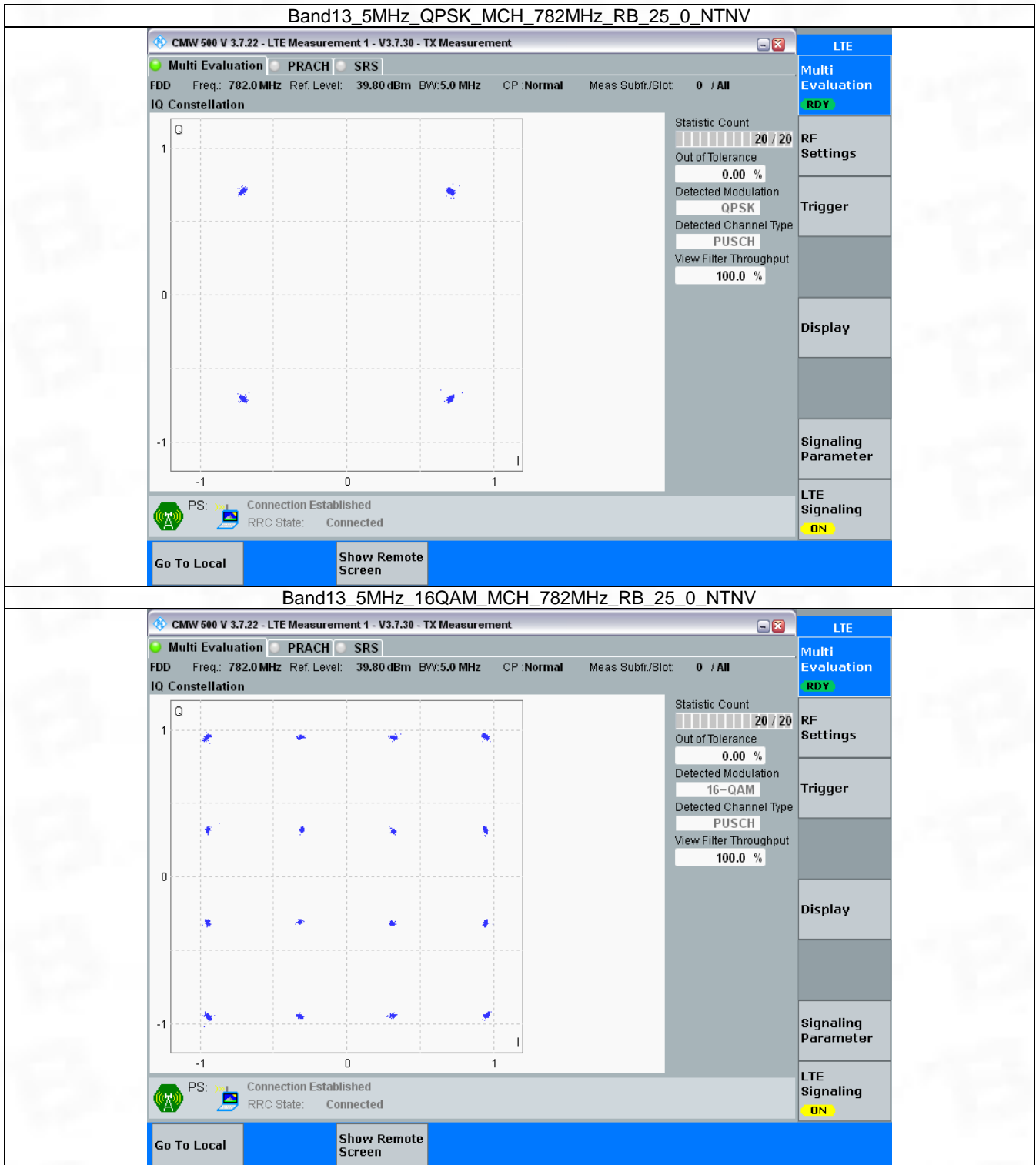
3. Modulation Characteristics

3.1 B13_5MHz

3.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 782 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 782 | 25 | 0 | Refer To Test Graph | | Pass |

3.1.2 Test Graph

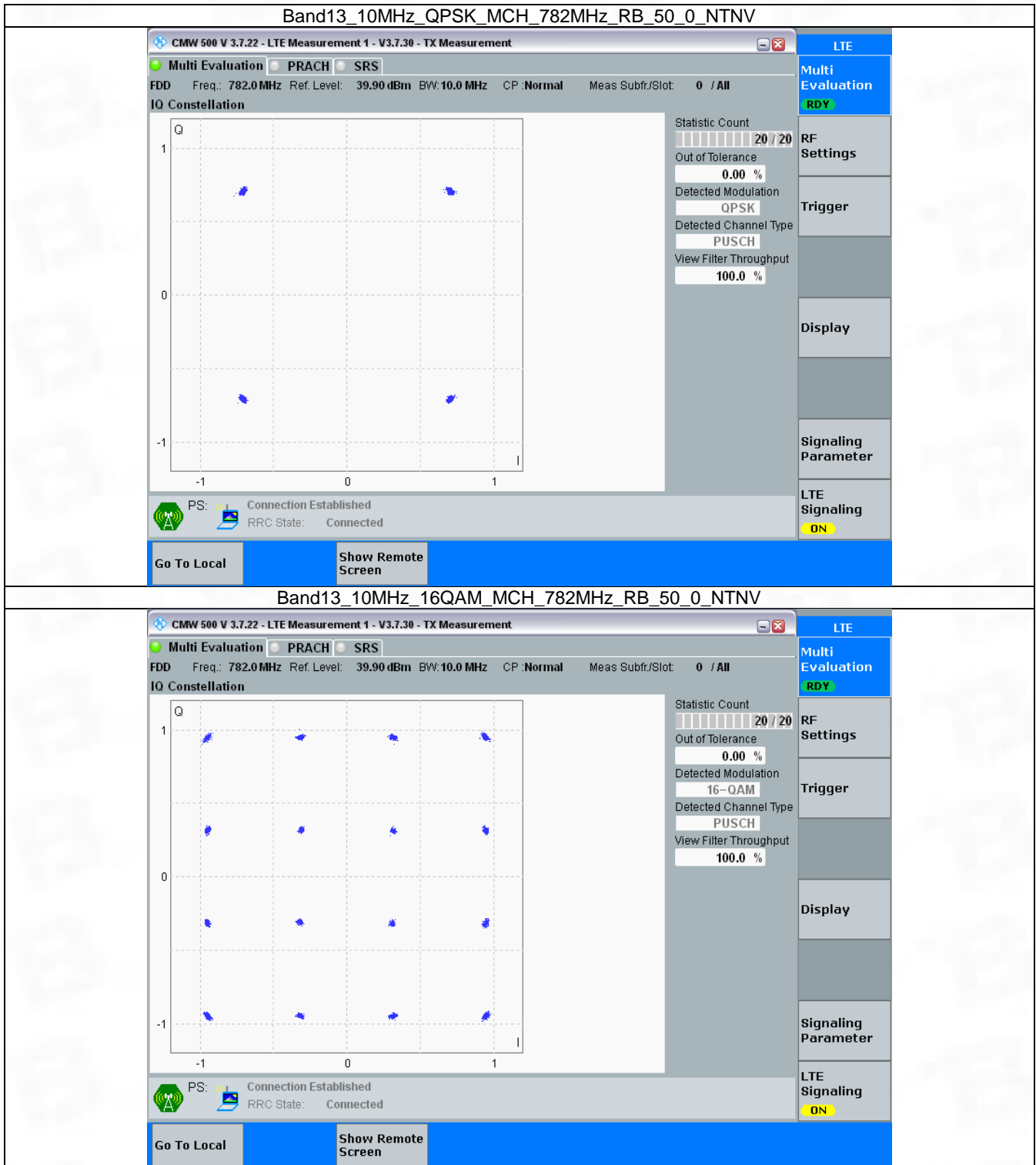


3.2 B13_10MHz

3.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 782 | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 782 | 50 | 0 | Refer To Test Graph | | Pass |

3.2.2 Test Graph



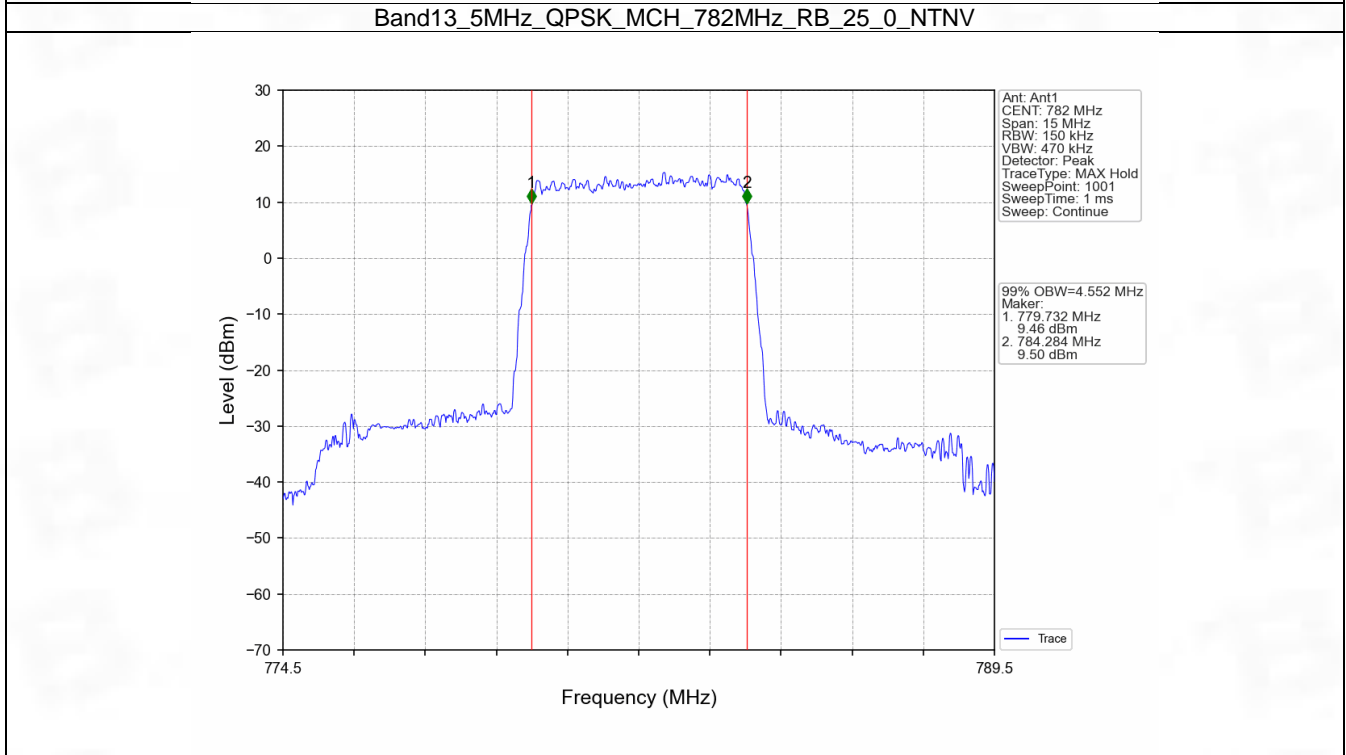
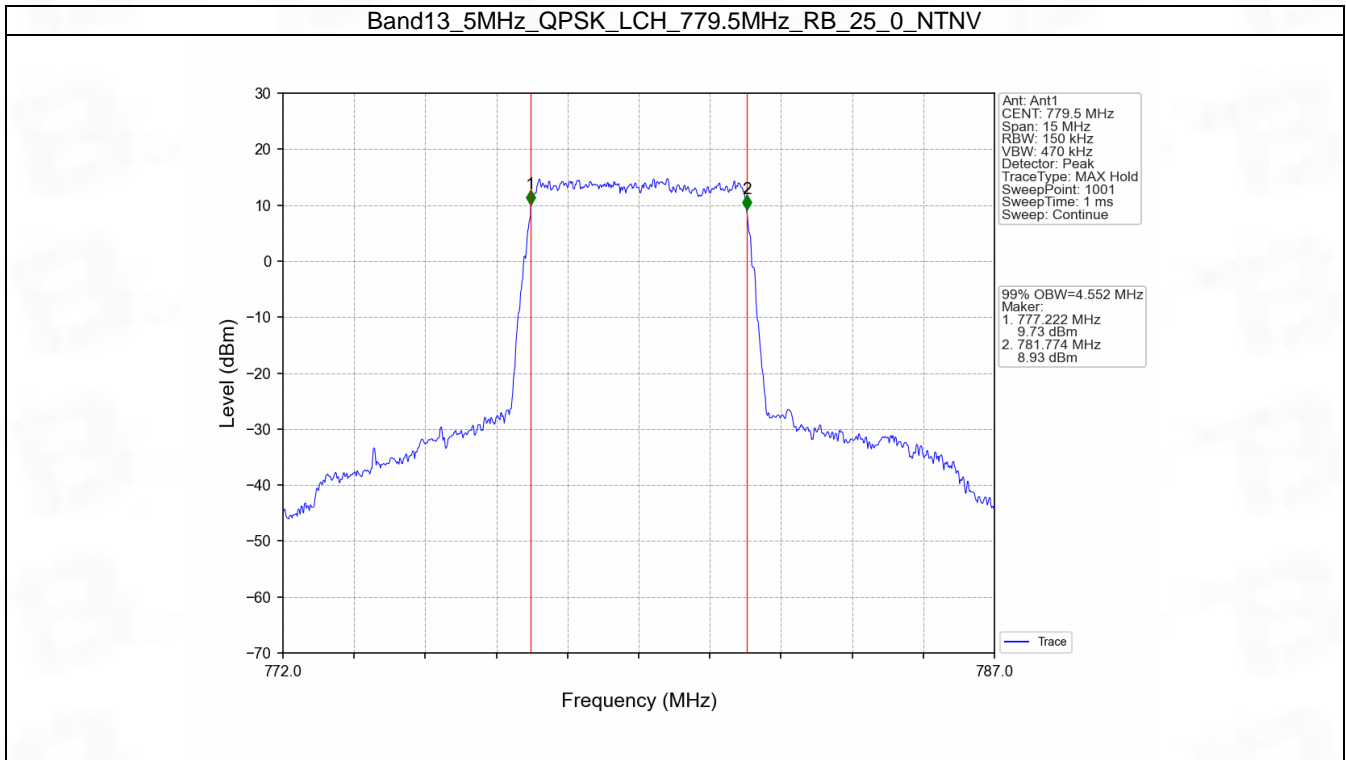
4. 99% & 26dB Bandwidth

4.1 Band13_OBW

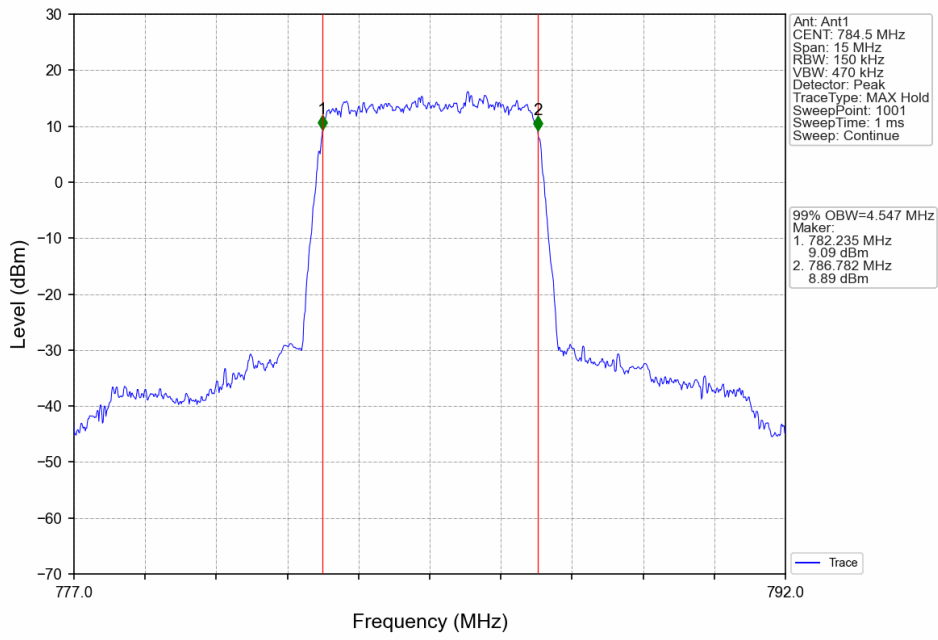
4.1.1 Test Result

| Band: 13 / NTV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 779.5 | 25 | 0 | 4.552 | / | Pass |
| | | 782 | 25 | 0 | 4.552 | / | Pass |
| | | 784.5 | 25 | 0 | 4.547 | / | Pass |
| | 16QAM | 779.5 | 25 | 0 | 4.549 | / | Pass |
| | | 782 | 25 | 0 | 4.566 | / | Pass |
| | | 784.5 | 25 | 0 | 4.541 | / | Pass |
| 10 | QPSK | 782 | 50 | 0 | 9.070 | / | Pass |
| | 16QAM | 782 | 50 | 0 | 9.084 | / | Pass |

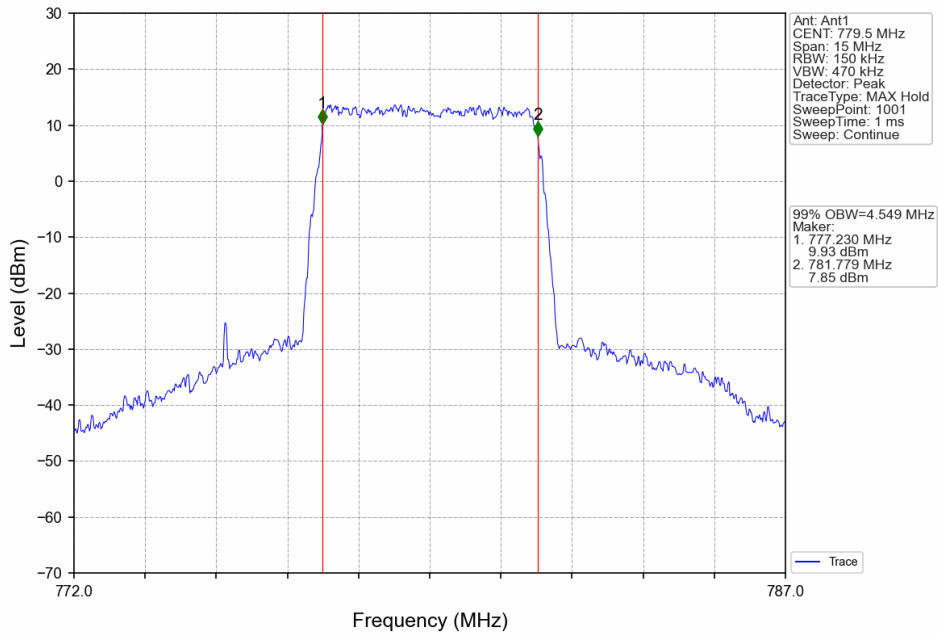
4.1.2 Test Graph



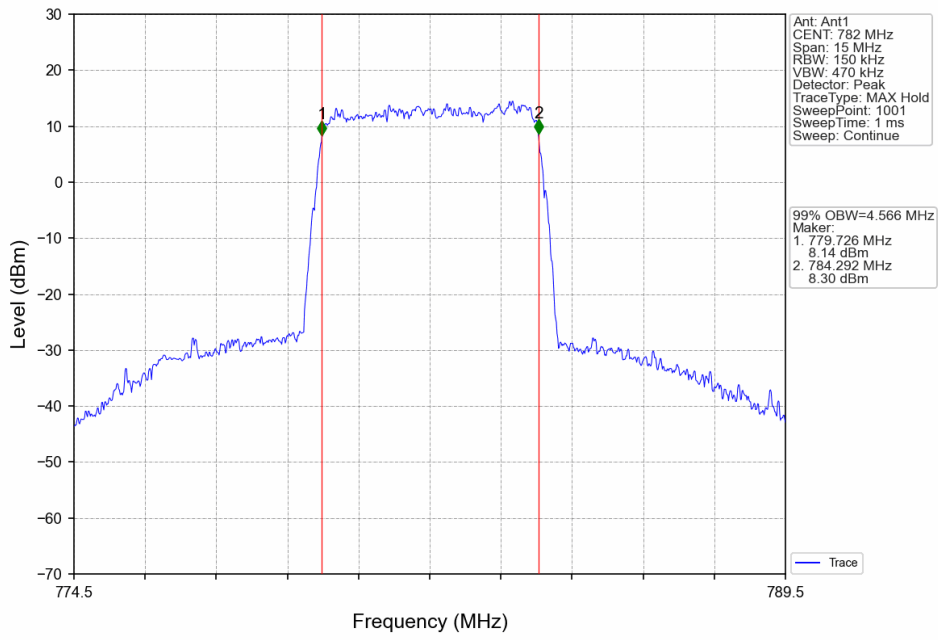
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



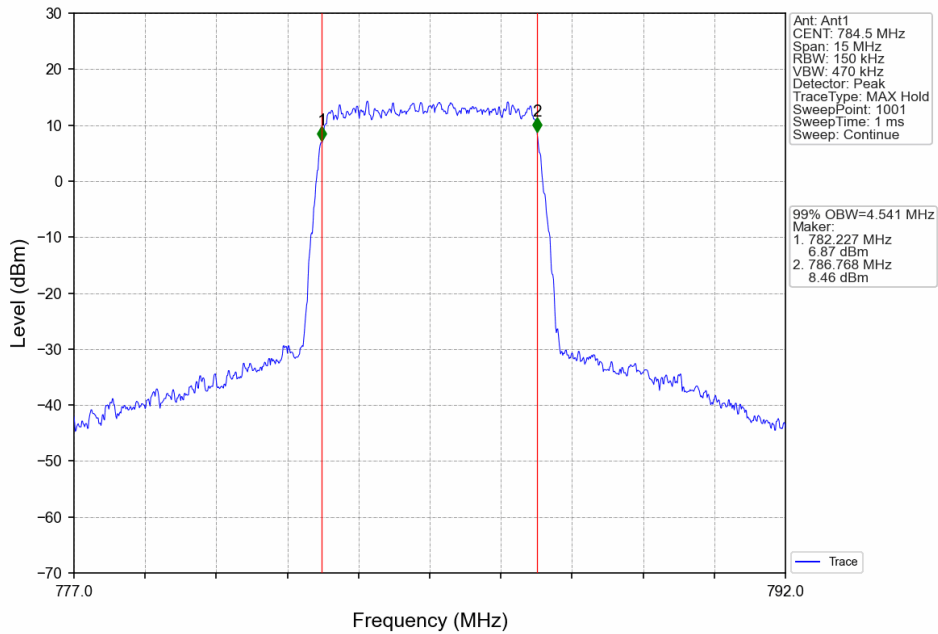
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



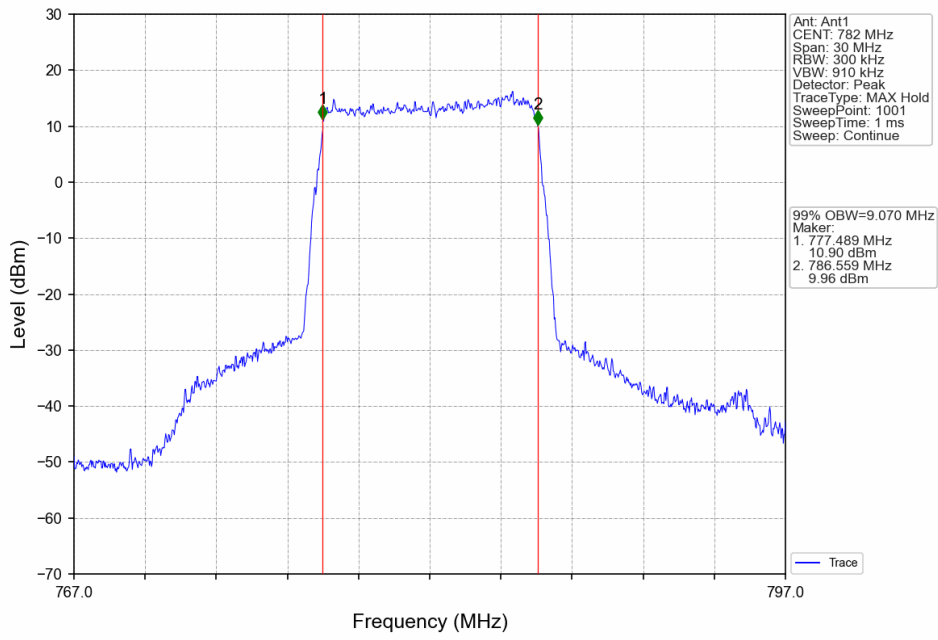
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



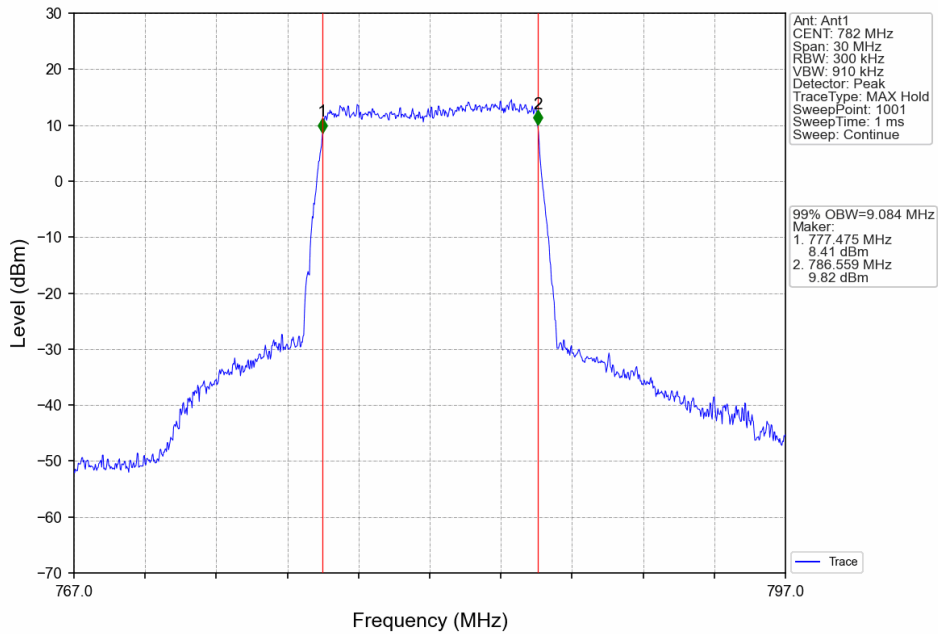
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

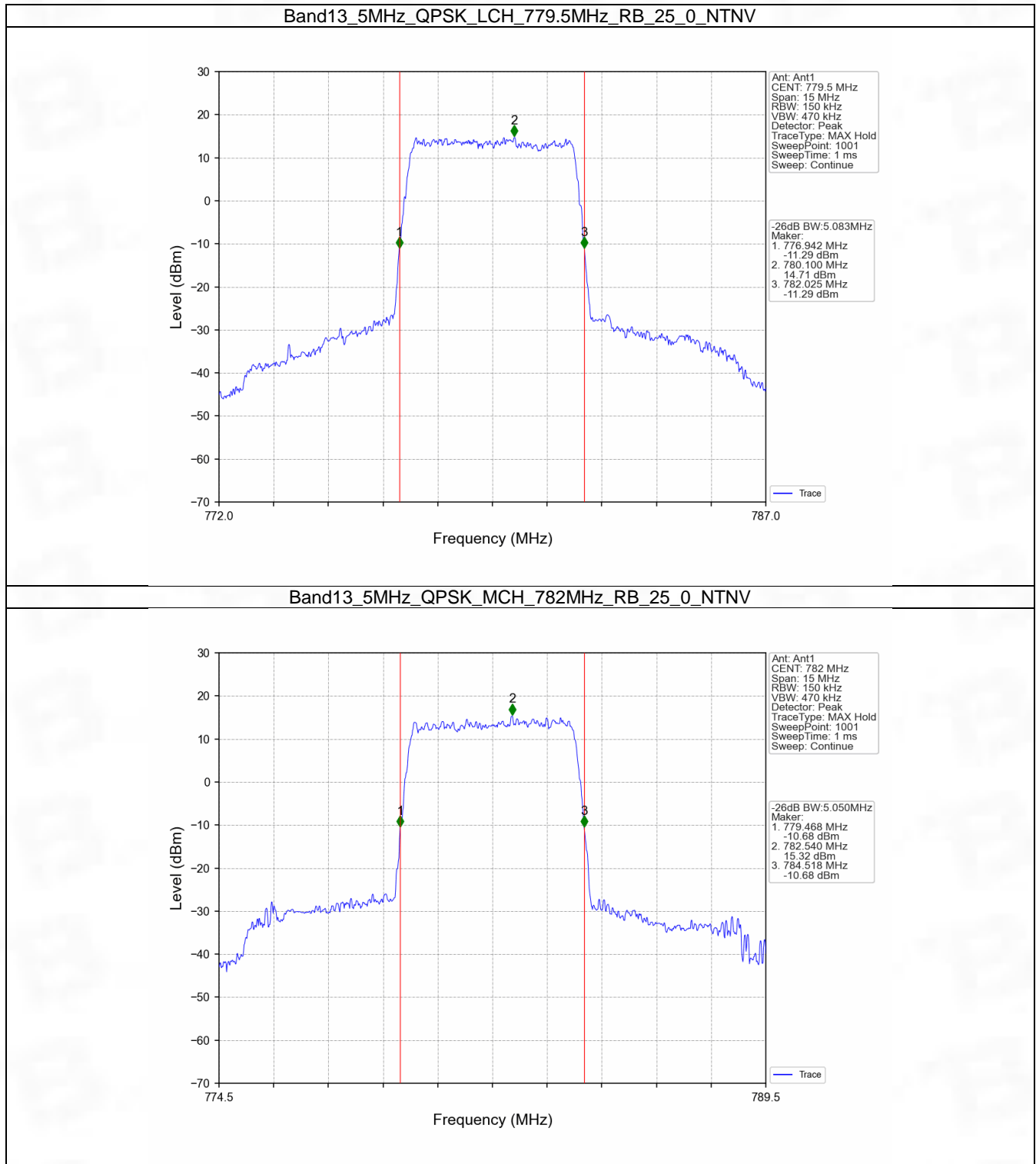


4.2 Band13_XDB

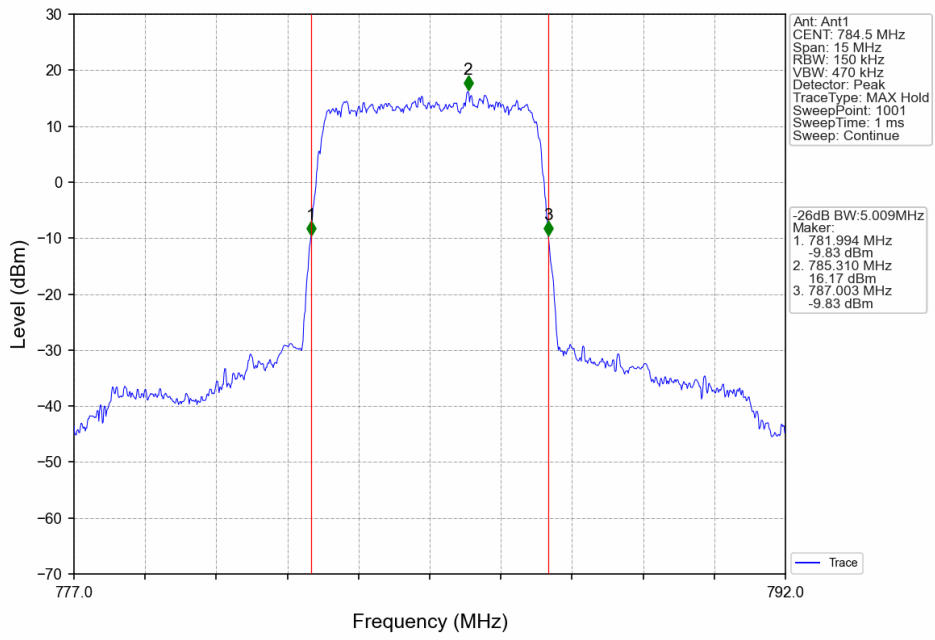
4.2.1 Test Result

| Band: 13 / NTNV | | | | | | | |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 5 | QPSK | 779.5 | 25 | 0 | 5.083 | / | Pass |
| | | 782 | 25 | 0 | 5.050 | / | Pass |
| | | 784.5 | 25 | 0 | 5.009 | / | Pass |
| | 16QAM | 779.5 | 25 | 0 | 5.088 | / | Pass |
| | | 782 | 25 | 0 | 5.073 | / | Pass |
| | | 784.5 | 25 | 0 | 5.066 | / | Pass |
| 10 | QPSK | 782 | 50 | 0 | 10.014 | / | Pass |
| | 16QAM | 782 | 50 | 0 | 10.067 | / | Pass |

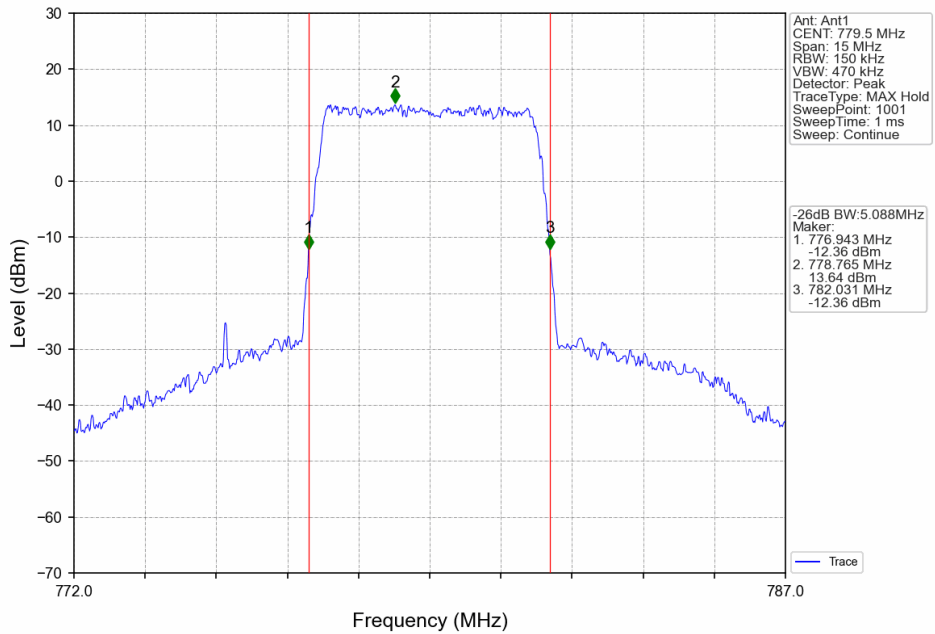
4.2.2 Test Graph



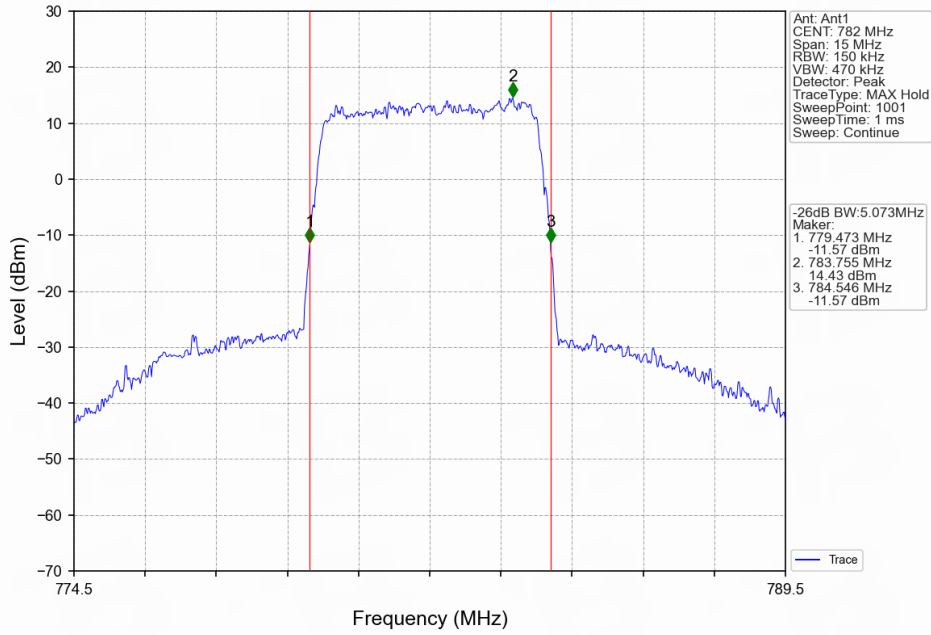
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



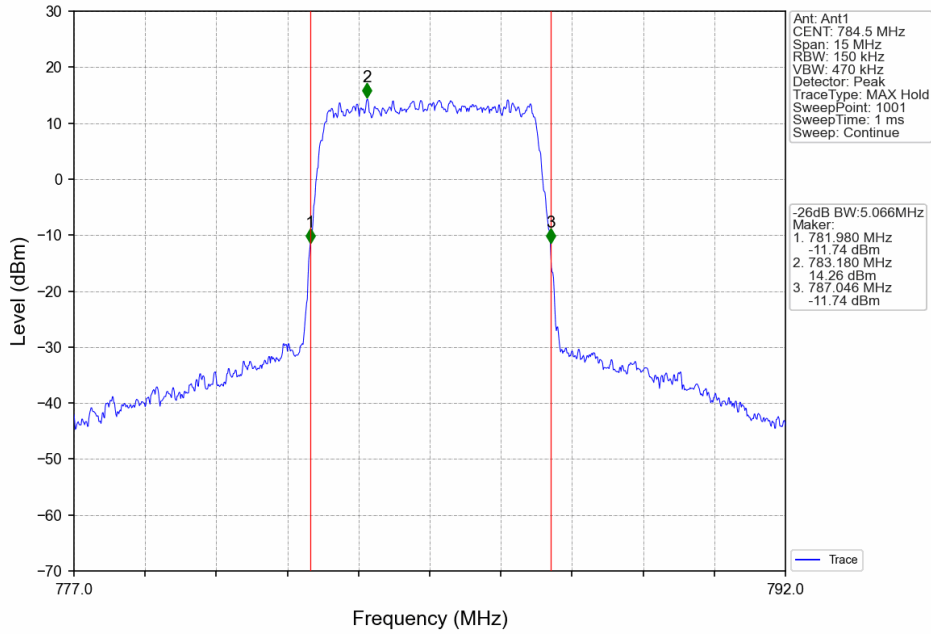
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



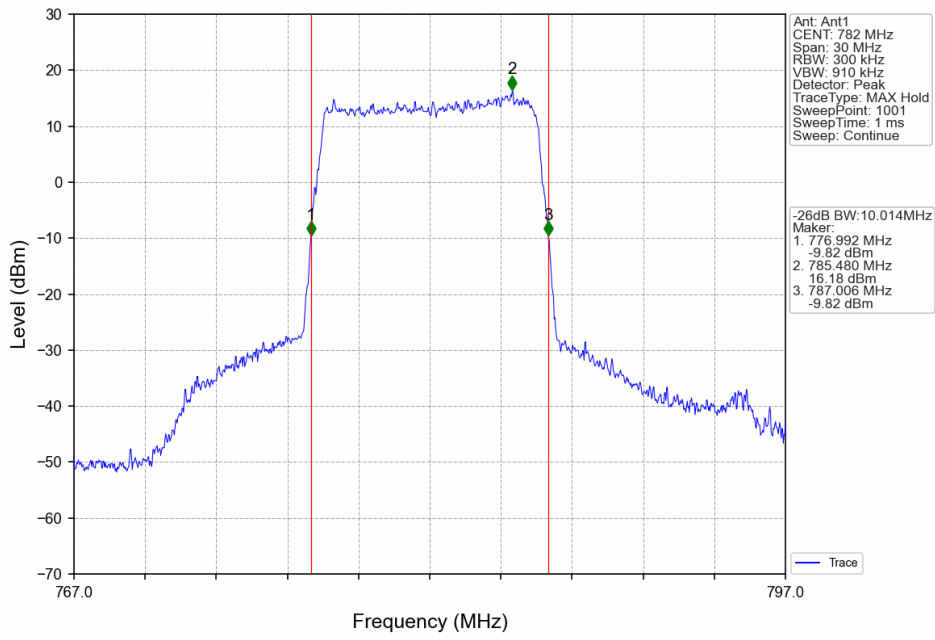
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



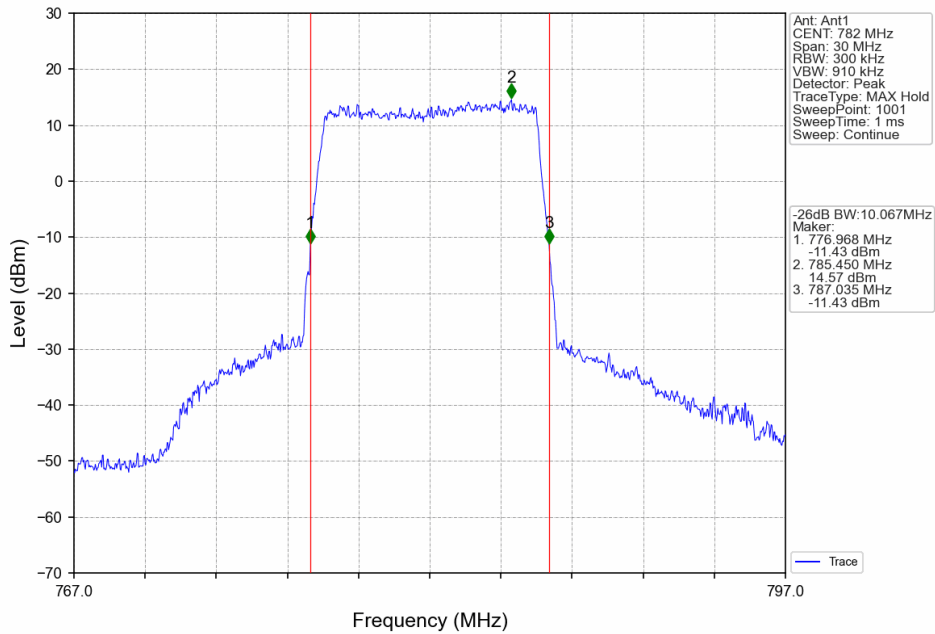
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



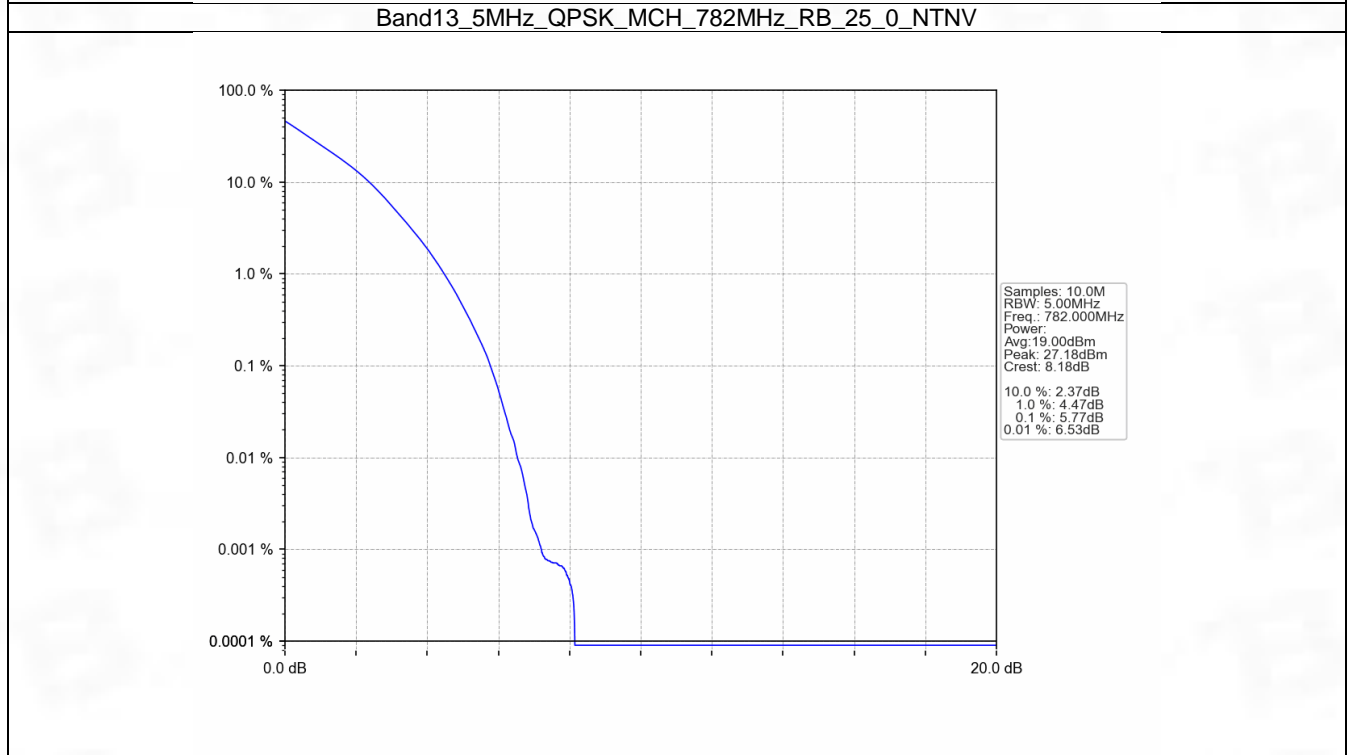
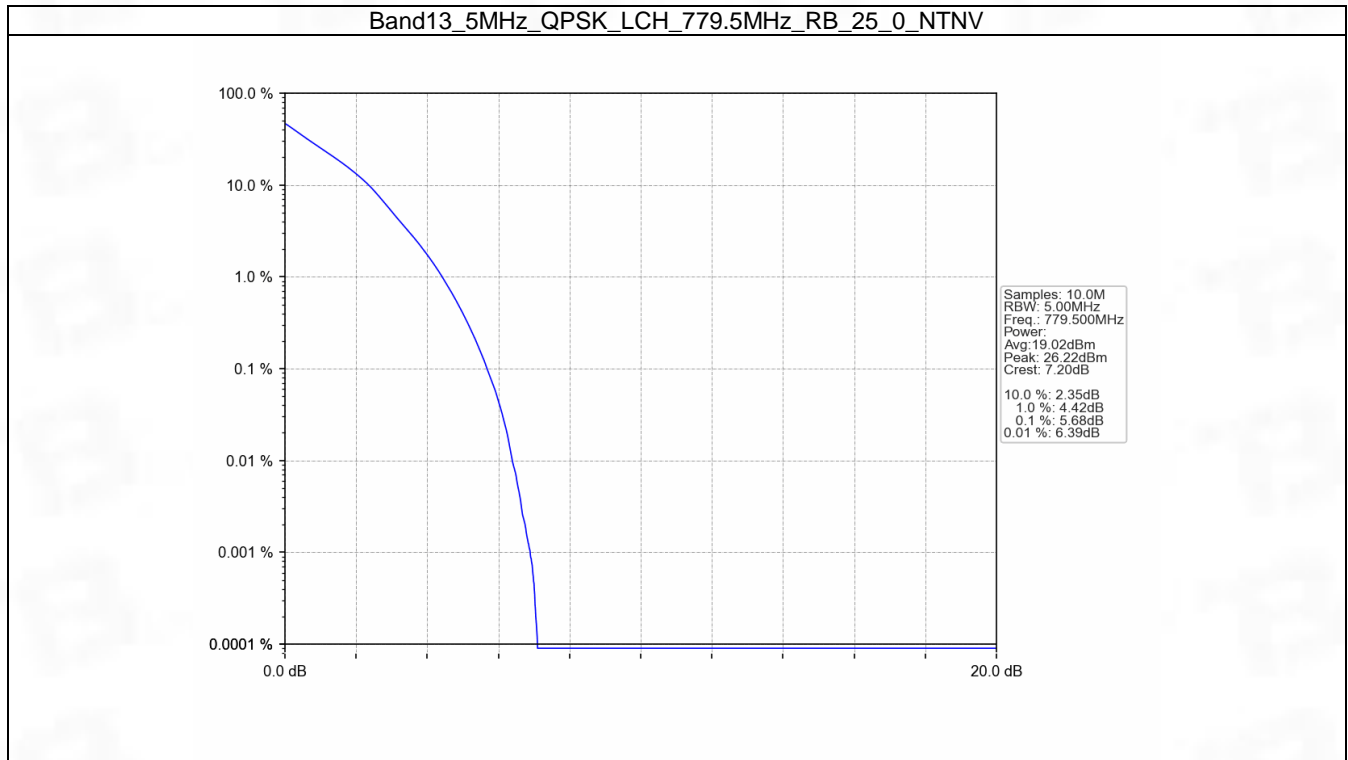
5. Peak-Average Ratio

5.1 B13_5MHz

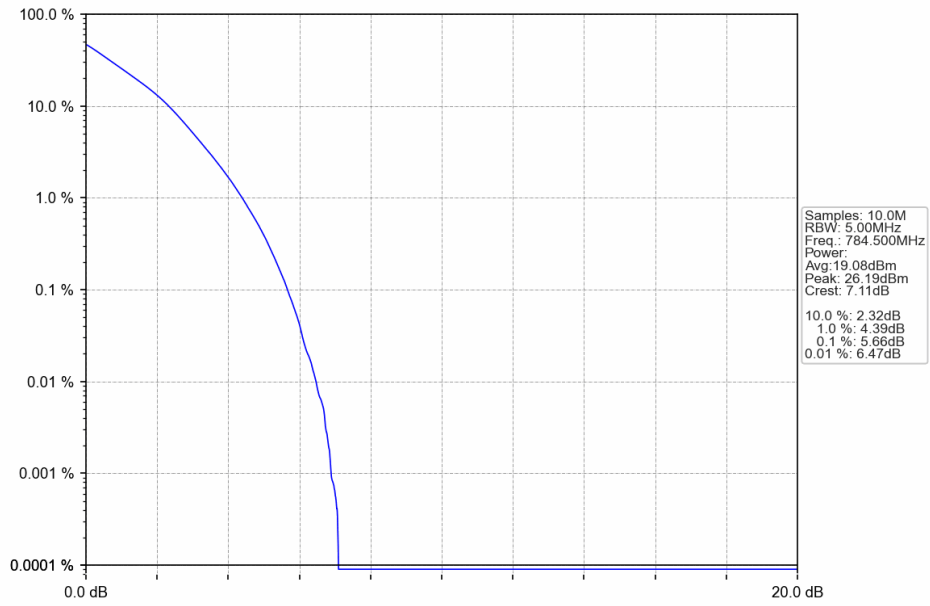
5.1.1 Test Result

| Band: 13 / Bandwidth: 5MHz / NTN | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 779.5 | 25 | 0 | 5.68 | <=13 | Pass |
| | 782 | 25 | 0 | 5.77 | <=13 | Pass |
| | 784.5 | 25 | 0 | 5.66 | <=13 | Pass |
| 16QAM | 779.5 | 25 | 0 | 6.42 | <=13 | Pass |
| | 782 | 25 | 0 | 6.46 | <=13 | Pass |
| | 784.5 | 25 | 0 | 6.36 | <=13 | Pass |

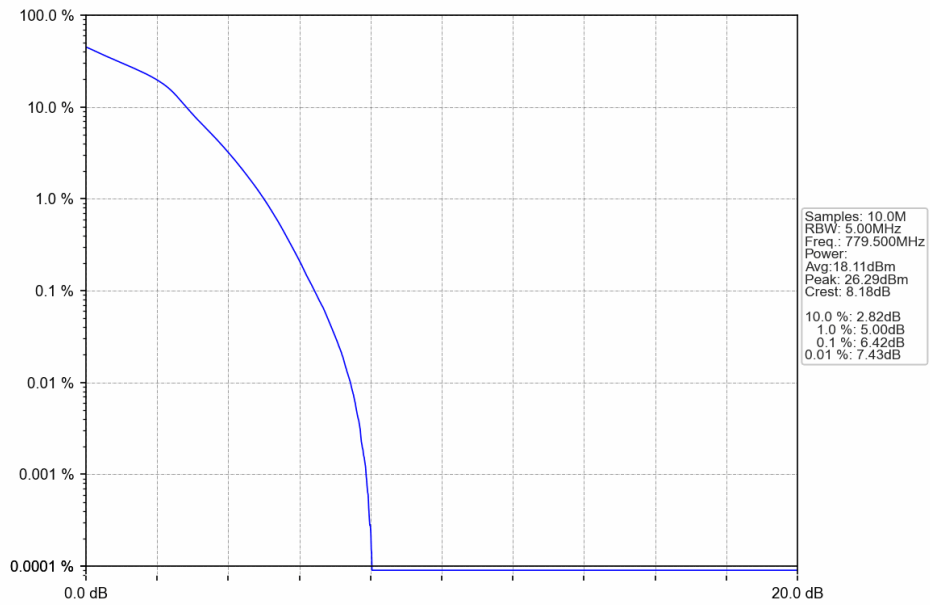
5.1.2 Test Graph



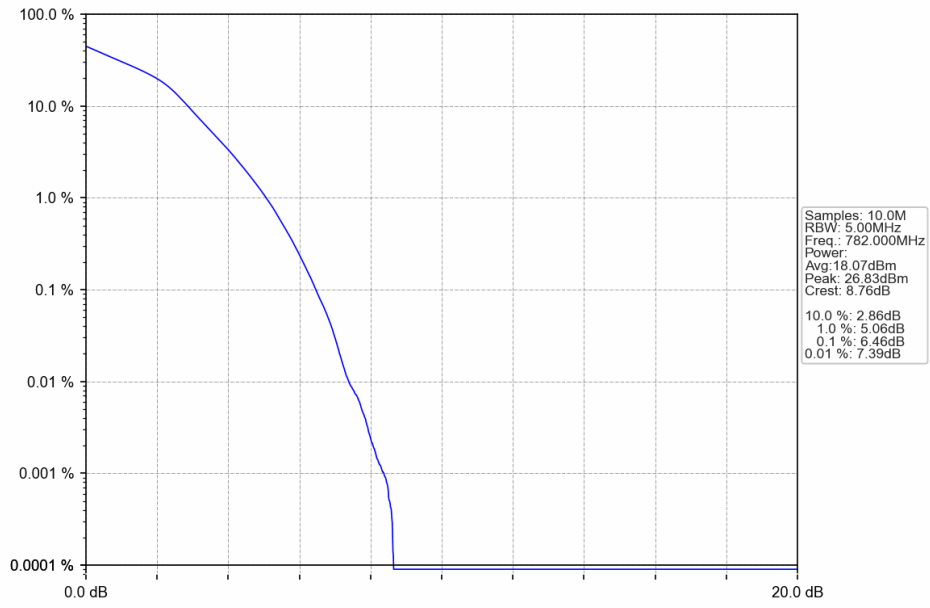
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



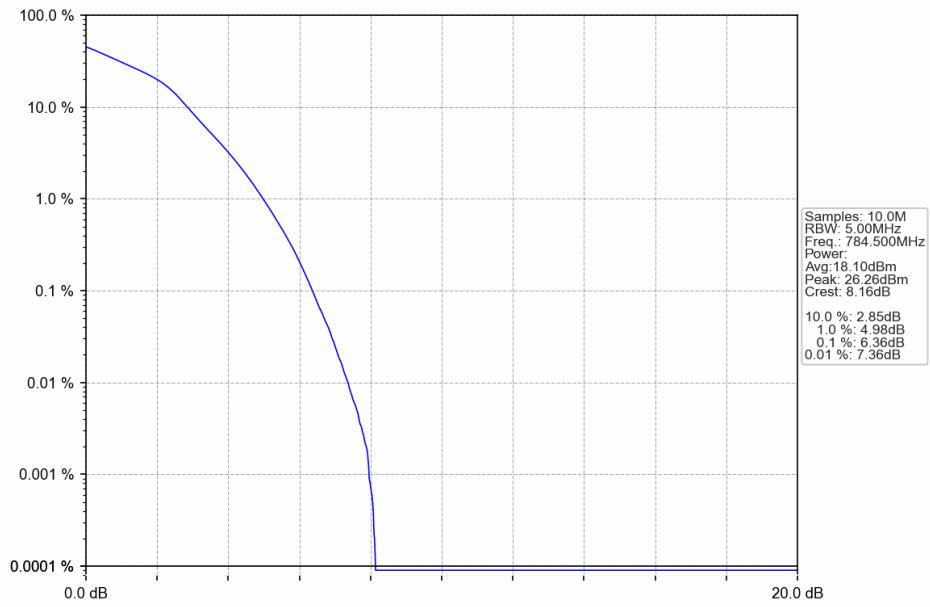
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

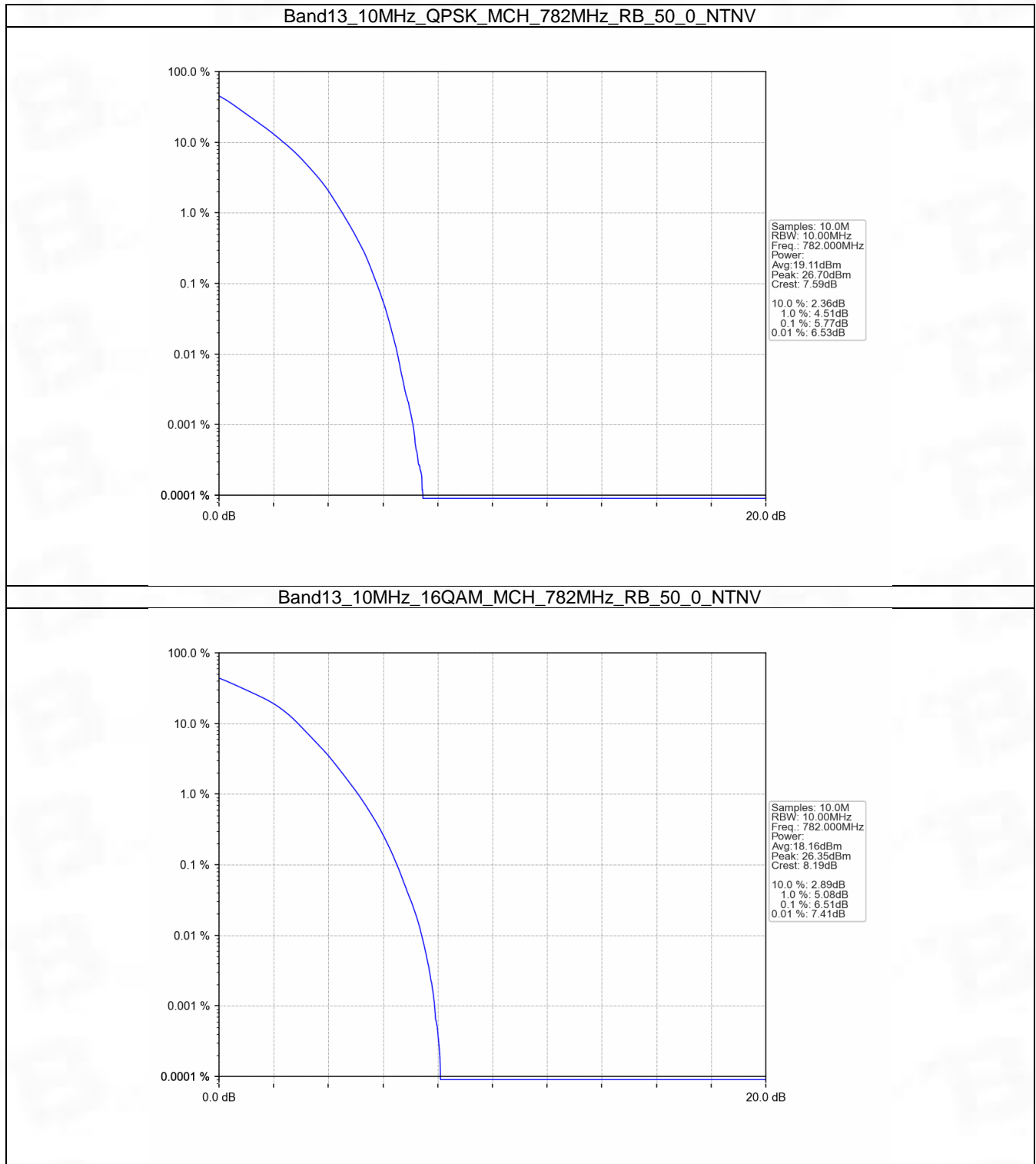


5.2 B13_10MHz

5.2.1 Test Result

| Band: 13 / Bandwidth: 10MHz / NTV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 782 | 50 | 0 | 5.77 | <=13 | Pass |
| 16QAM | 782 | 50 | 0 | 6.51 | <=13 | Pass |

5.2.2 Test Graph



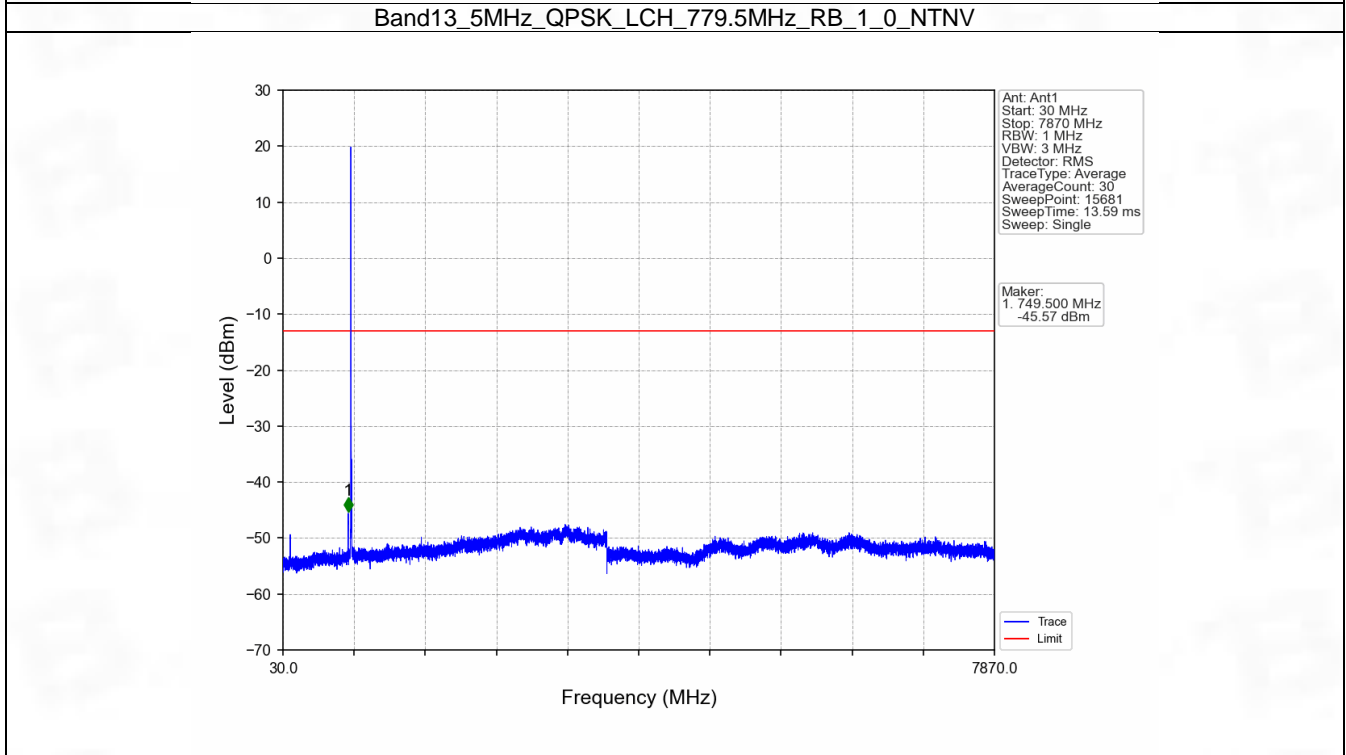
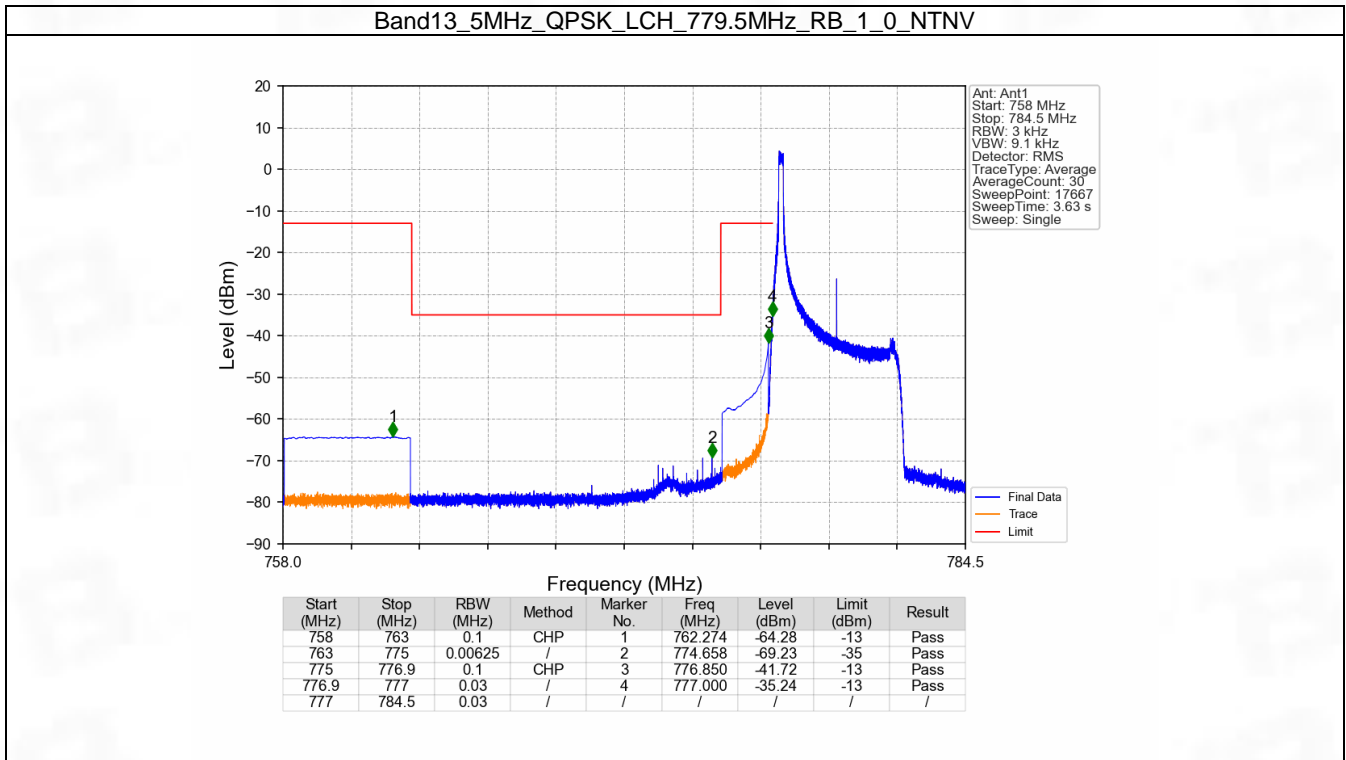
6. Spurious Emission

6.1 B13_5MHz

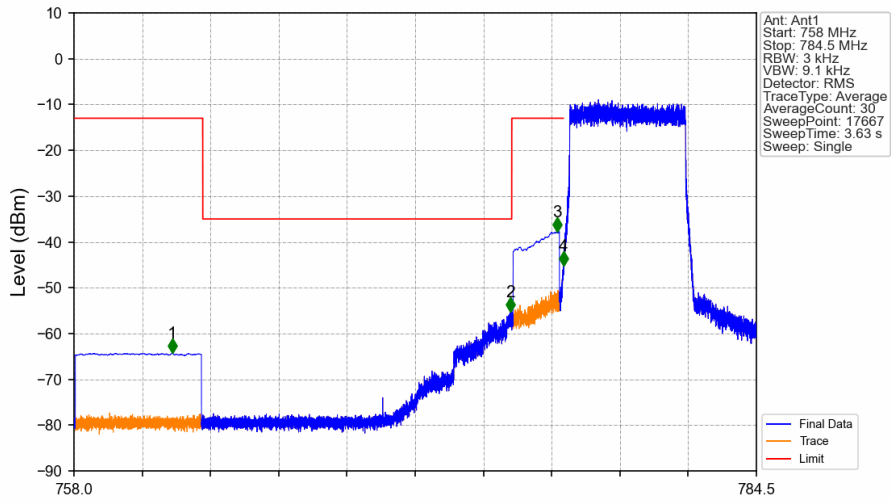
6.1.1 Test Result

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

6.1.2 Test Graph

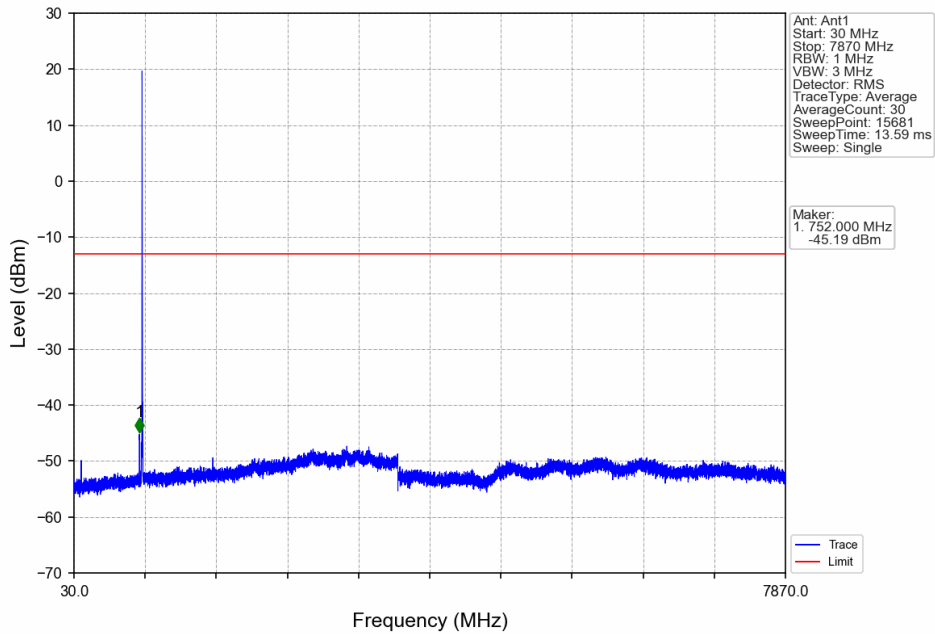


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

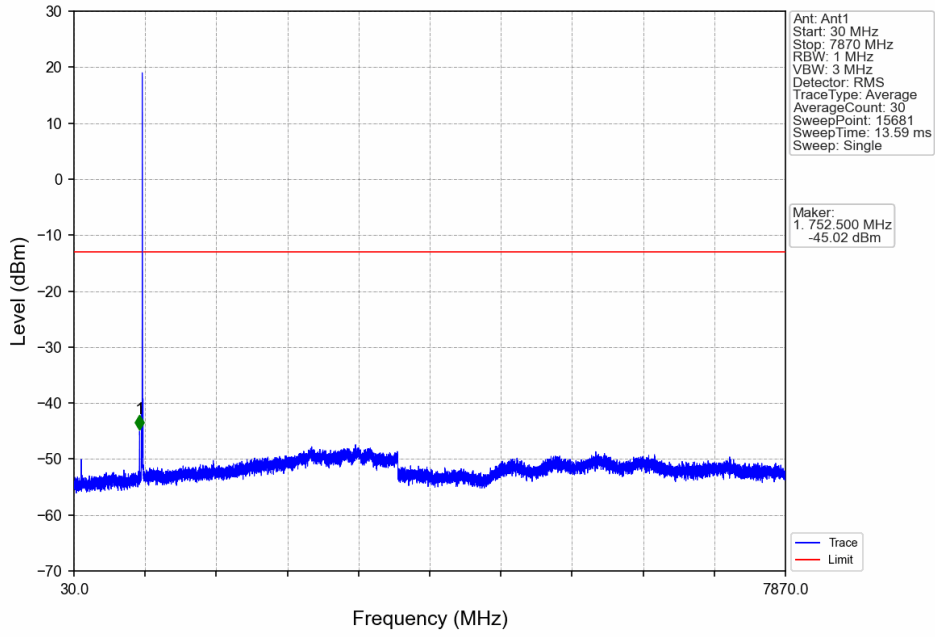


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758 | 763 | 0.1 | CHP | 1 | 761.812 | -64.29 | -13 | Pass |
| 763 | 775 | 0.00625 | / | 2 | 774.946 | -55.25 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.748 | -37.75 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 4 | 777.000 | -45.28 | -13 | Pass |
| 777 | 784.5 | 0.03 | / | / | / | / | / | / |

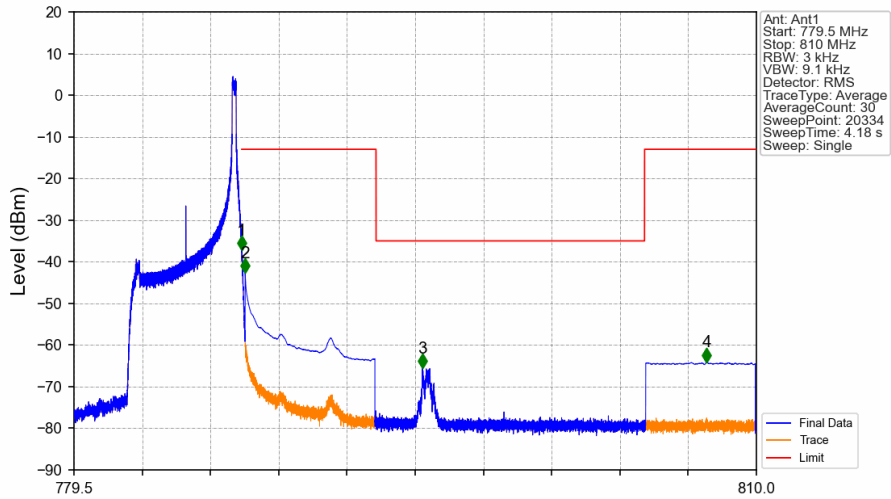
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

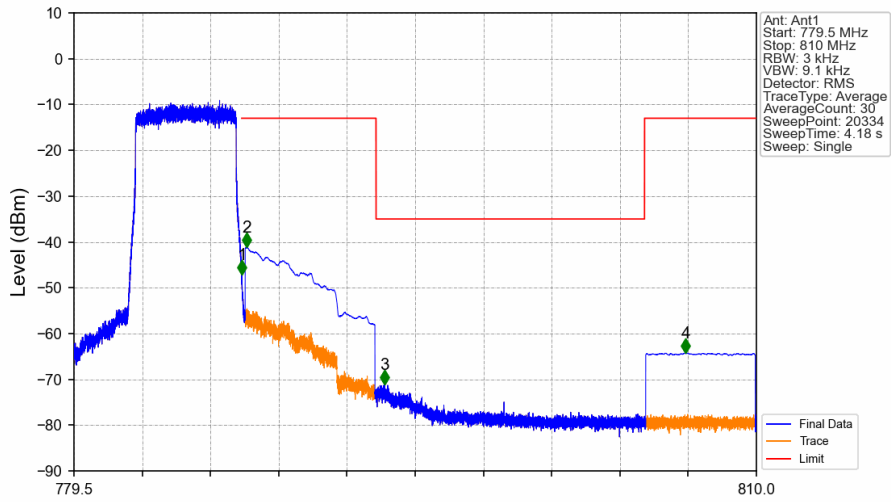


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



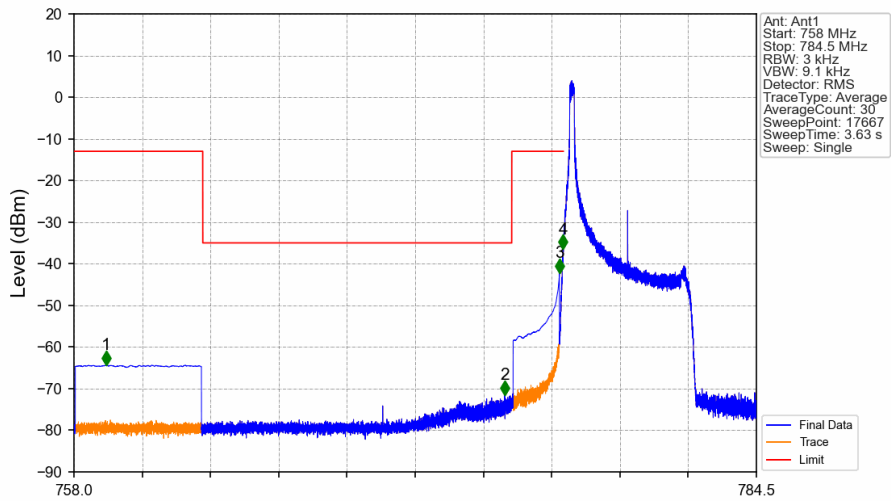
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5 | 787 | 0.03 | / | 1 | 787.000 | -37.19 | -13 | / |
| 787 | 787.1 | 0.03 | / | 2 | 787.150 | -42.65 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 3 | 795.063 | -65.52 | -35 | Pass |
| 793 | 805 | 0.00625 | / | 3 | 795.063 | -65.52 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 807.781 | -64.11 | -13 | Pass |

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



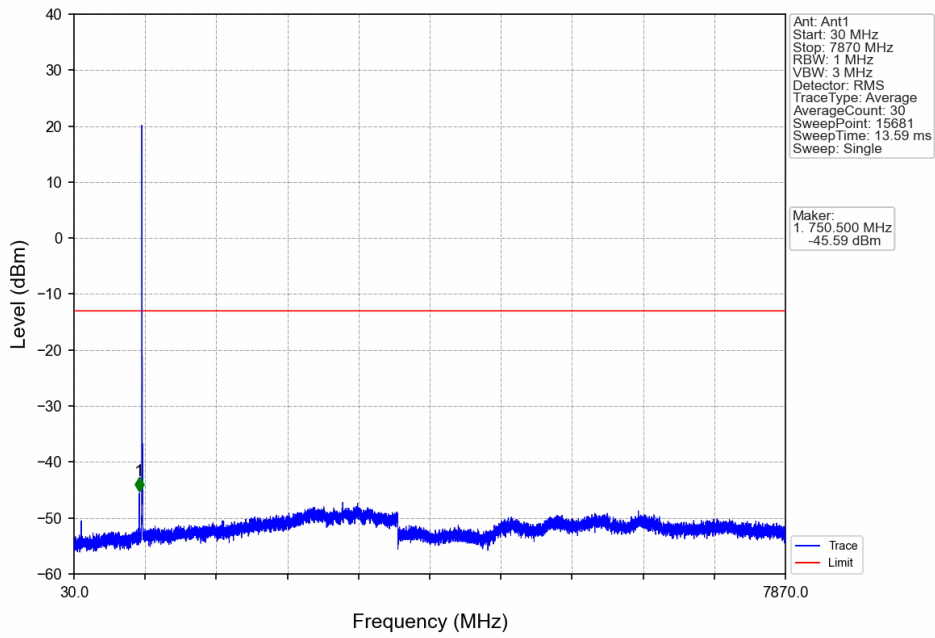
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 1 | 787.002 | -47.22 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.230 | -41.17 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 3 | 793.375 | -71.09 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 806.836 | -64.27 | -13 | Pass |

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

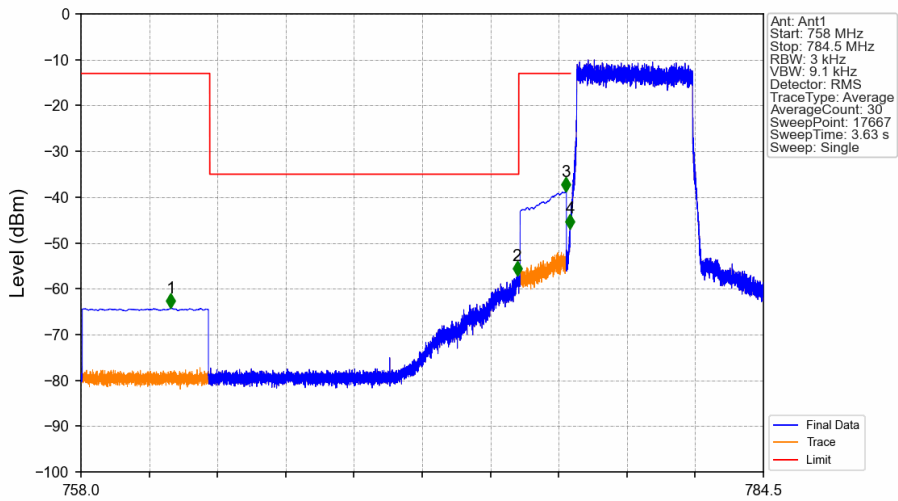


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758 | 763 | 0.1 | CHP | 1 | 759.248 | -64.32 | -13 | Pass |
| 763 | 775 | 0.00625 | / | 2 | 774.726 | -71.47 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.850 | -42.18 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 4 | 776.989 | -36.45 | -13 | Pass |
| 777 | 784.5 | 0.03 | / | / | / | / | / | / |

Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

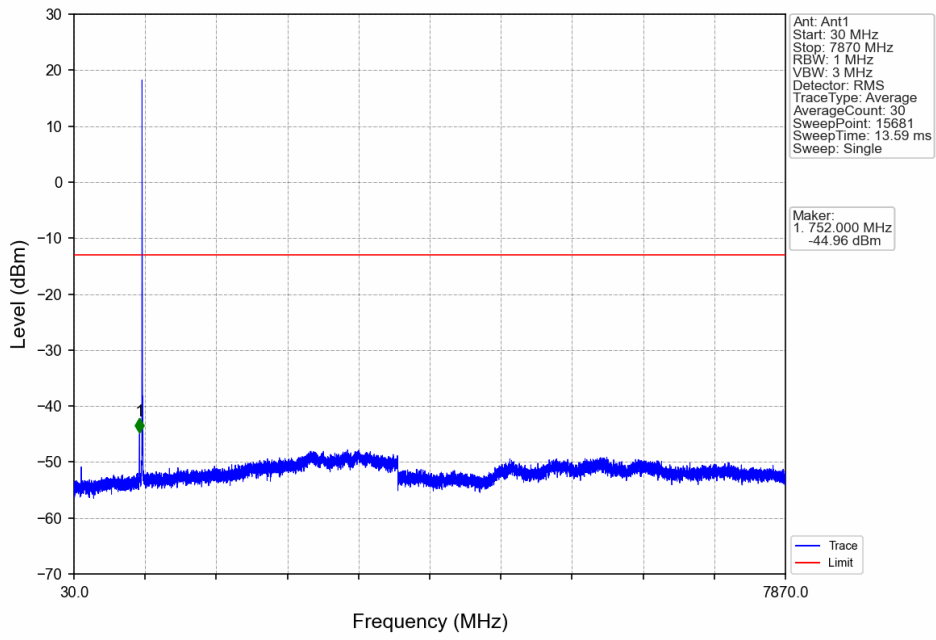


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

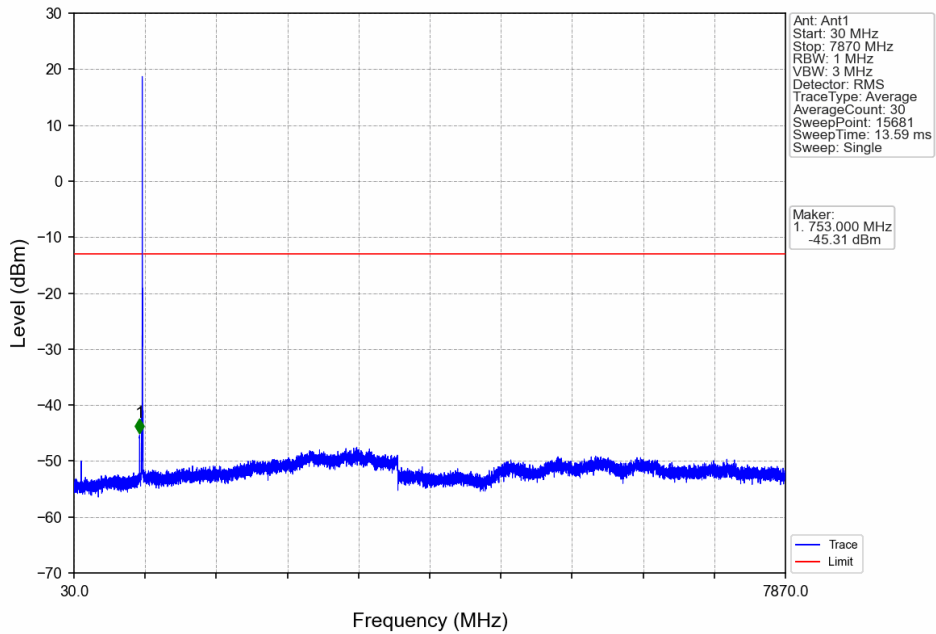


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758 | 763 | 0.1 | CHP | 1 | 761.480 | -64.25 | -13 | Pass |
| 763 | 775 | 0.00625 | / | 2 | 774.933 | -57.13 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 3 | 776.833 | -38.78 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 4 | 776.992 | -46.84 | -13 | Pass |
| 777 | 784.5 | 0.03 | / | / | / | / | / | / |

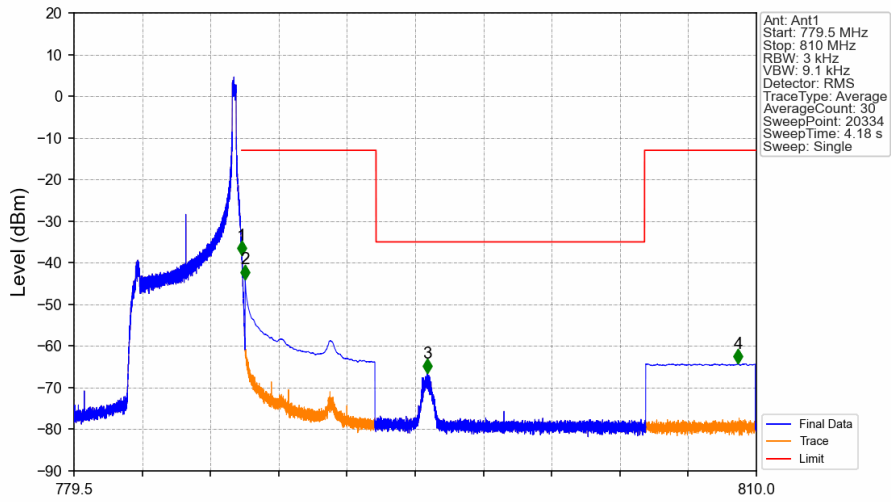
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV

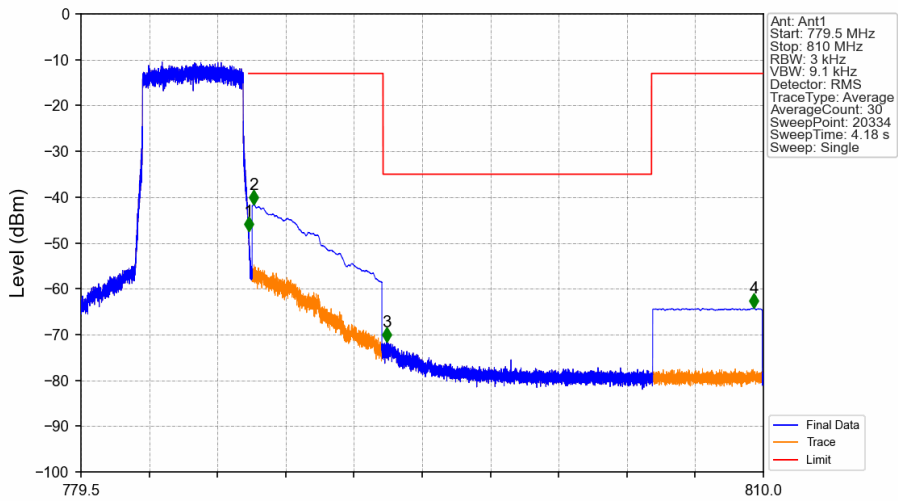


Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_24_NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 1 | 787.000 | -38.14 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.150 | -43.93 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 3 | 795.279 | -66.59 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 809.184 | -64.24 | -13 | Pass |

Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTV



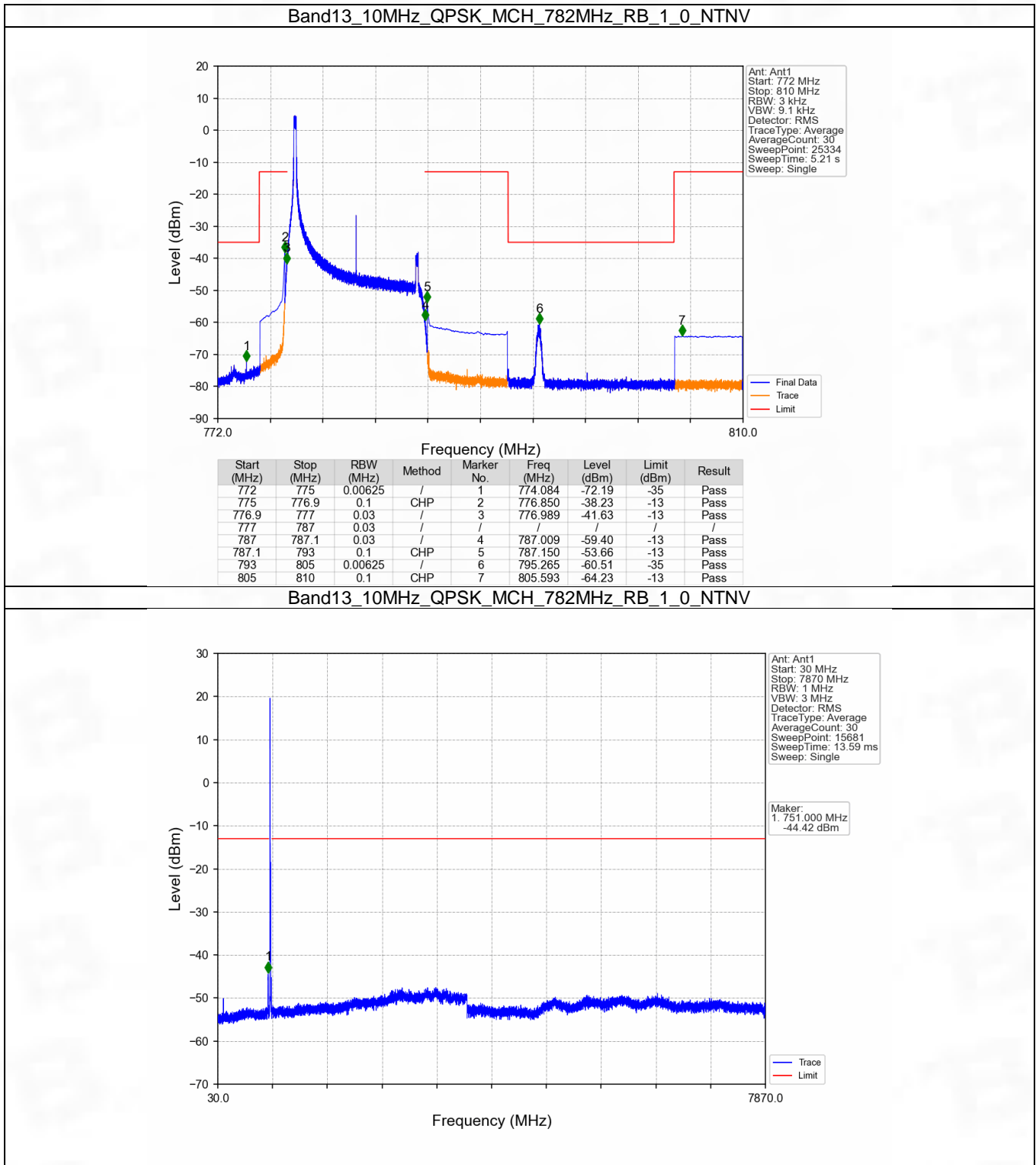
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 1 | 787.000 | -47.46 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 2 | 787.210 | -41.61 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 3 | 793.150 | -71.59 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 4 | 809.575 | -64.23 | -13 | Pass |

6.2 B13_10MHz

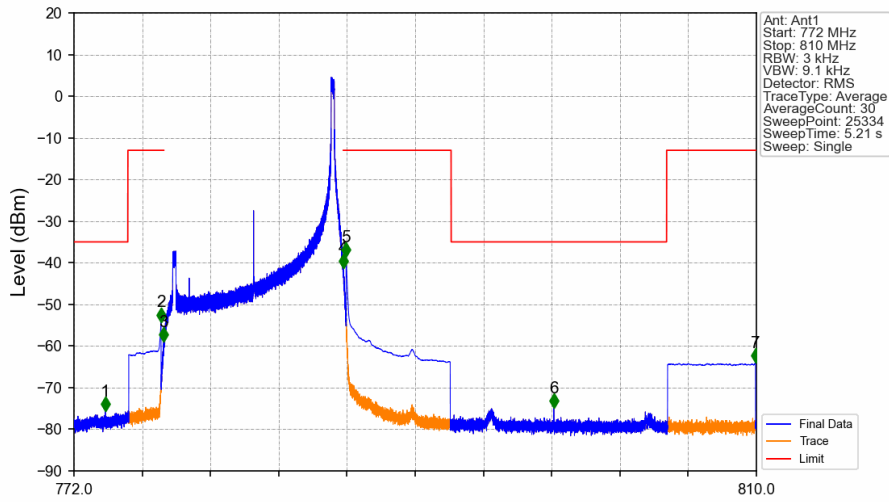
6.2.1 Test Result

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

6.2.2 Test Graph

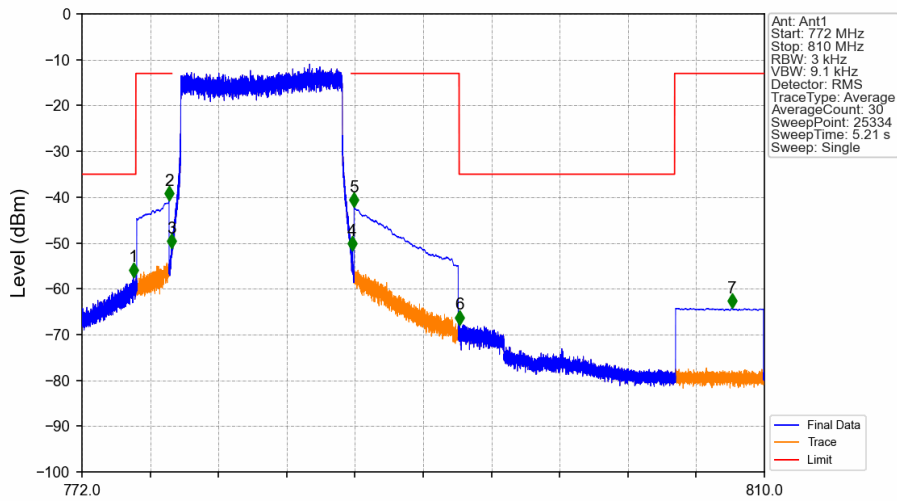


Band13_10MHz_QPSK_MCH_782MHz_RB_1_49_NTNV



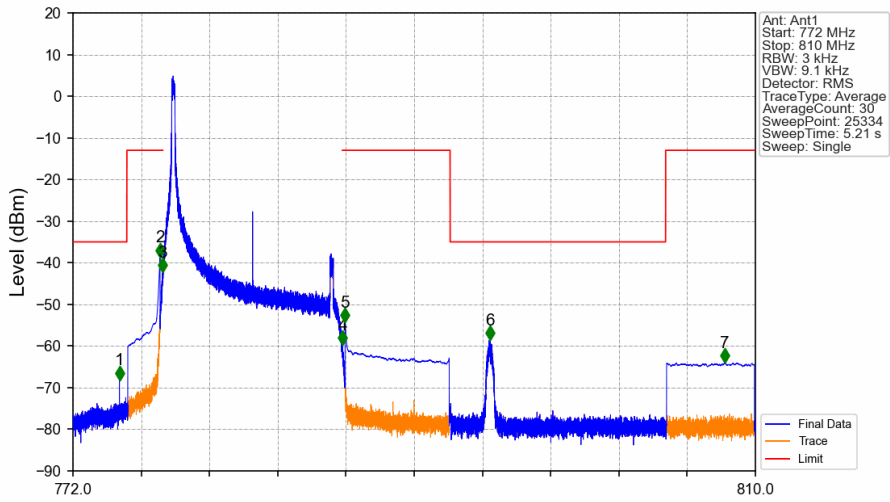
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772 | 775 | 0.00625 | / | 1 | 773.746 | -75.61 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -54.23 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 3 | 776.992 | -58.97 | -13 | Pass |
| 777 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 4 | 787.000 | -41.23 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -38.55 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 6 | 798.720 | -74.89 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 809.940 | -64.07 | -13 | Pass |

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



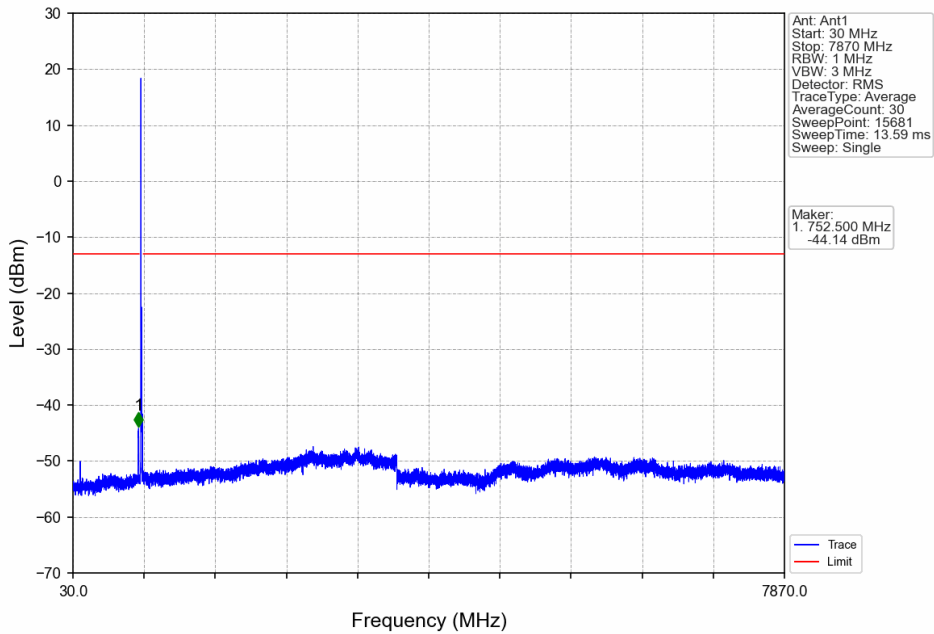
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772 | 775 | 0.00625 | / | 1 | 774.865 | -57.41 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -40.80 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 3 | 776.967 | -51.22 | -13 | Pass |
| 777 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 4 | 787.048 | -51.73 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -42.18 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 6 | 793.030 | -67.82 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 808.183 | -64.26 | -13 | Pass |

Band13_10MHz_16QAM_MCH_782MHz_RB_1_0_NTNV

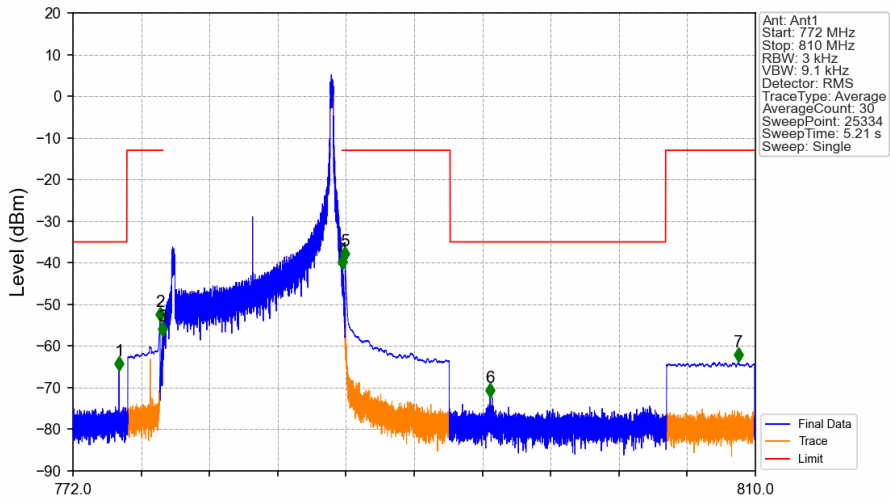


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772 | 775 | 0.00625 | / | 1 | 774.585 | -68.17 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -38.72 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 3 | 777.000 | -42.31 | -13 | Pass |
| 777 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 4 | 787.011 | -59.68 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -54.28 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 6 | 795.240 | -58.57 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 808.288 | -64.00 | -13 | Pass |

Band13_10MHz_16QAM_MCH_782MHz_RB_1_0_NTNV

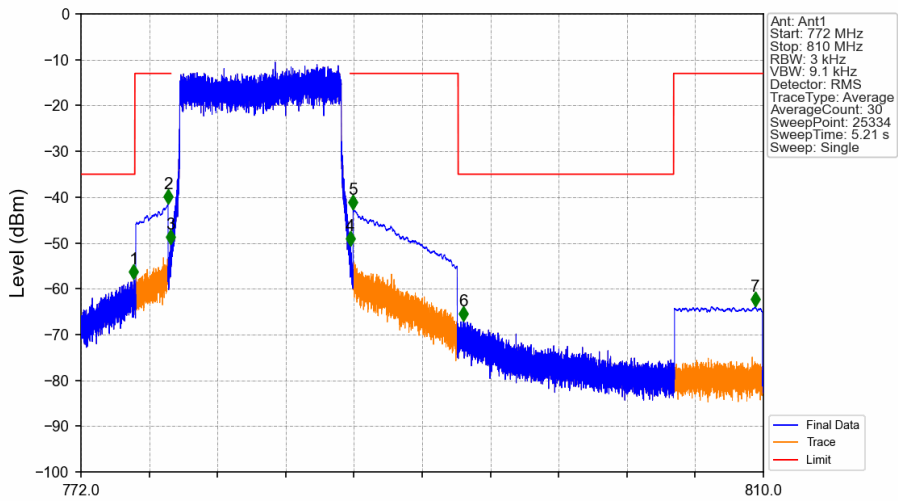


Band13_10MHz_16QAM_MCH_782MHz_RB_1_49_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772 | 775 | 0.00625 | / | 1 | 774.565 | -66.00 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -54.09 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 3 | 776.994 | -57.68 | -13 | Pass |
| 777 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 4 | 787.015 | -41.46 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -39.60 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 6 | 795.226 | -72.32 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 809.047 | -63.89 | -13 | Pass |

Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772 | 775 | 0.00625 | / | 1 | 774.942 | -57.92 | -35 | Pass |
| 775 | 776.9 | 0.1 | CHP | 2 | 776.850 | -41.46 | -13 | Pass |
| 776.9 | 777 | 0.03 | / | 3 | 776.998 | -50.32 | -13 | Pass |
| 777 | 787 | 0.03 | / | / | / | / | / | / |
| 787 | 787.1 | 0.03 | / | 4 | 787.002 | -50.61 | -13 | Pass |
| 787.1 | 793 | 0.1 | CHP | 5 | 787.150 | -42.66 | -13 | Pass |
| 793 | 805 | 0.00625 | / | 6 | 793.272 | -67.06 | -35 | Pass |
| 805 | 810 | 0.1 | CHP | 7 | 809.560 | -63.87 | -13 | Pass |

7. Form731

7.1 Form731_Power

7.1.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 13 | 5 | 779.5 | 784.5 | 0.1531 | 0.0628 | ppm | 4M55G7D | 27F | 21.85 |
| 13 | 5 | 779.5 | 784.5 | 0.1233 | 0.0564 | ppm | 4M57W7D | 27F | 20.91 |
| 13 | 10 | 782 | 782 | 0.1496 | 0.0534 | ppm | 9M07G7D | 27F | 21.75 |
| 13 | 10 | 782 | 782 | 0.1416 | 0.0252 | ppm | 9M08W7D | 27F | 21.51 |

7.2 Form731_ERP

7.2.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|----|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 13 | 5 | 779.5 | 784.5 | 0.1021 | 0.0628 | ppm | 4M55G7D | 27F | 20.09 |
| 13 | 5 | 779.5 | 784.5 | 0.0822 | 0.0564 | ppm | 4M57W7D | 27F | 19.15 |
| 13 | 10 | 782 | 782 | 0.0998 | 0.0534 | ppm | 9M07G7D | 27F | 19.99 |
| 13 | 10 | 782 | 782 | 0.0944 | 0.0252 | ppm | 9M08W7D | 27F | 19.75 |