# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B12_1.4MHz_ERP

| Band: 12 / Bandwidth: 1.4MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 699.7 | 1 | 0 | 23.54 | -6.00 | 15.39 | <=34.77 | Pass |
| | | | 2 | 23.52 | -6.00 | 15.37 | <=34.77 | Pass |
| | | | 5 | 23.32 | -6.00 | 15.17 | <=34.77 | Pass |
| | | 3 | 0 | 23.34 | -6.00 | 15.19 | <=34.77 | Pass |
| | | | 2 | 23.54 | -6.00 | 15.39 | <=34.77 | Pass |
| | | | 3 | 23.54 | -6.00 | 15.39 | <=34.77 | Pass |
| | | 6 | 0 | 22.57 | -6.00 | 14.42 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 23.44 | -6.00 | 15.29 | <=34.77 | Pass |
| | | | 2 | 23.32 | -6.00 | 15.17 | <=34.77 | Pass |
| | | | 5 | 23.46 | -6.00 | 15.31 | <=34.77 | Pass |
| | | 3 | 0 | 23.67 | -6.00 | 15.52 | <=34.77 | Pass |
| | | | 2 | 23.47 | -6.00 | 15.32 | <=34.77 | Pass |
| | | | 3 | 23.45 | -6.00 | 15.30 | <=34.77 | Pass |
| | | 6 | 0 | 22.63 | -6.00 | 14.48 | <=34.77 | Pass |
| | 715.3 | 1 | 0 | 23.41 | -6.00 | 15.26 | <=34.77 | Pass |
| | | | 2 | 23.50 | -6.00 | 15.35 | <=34.77 | Pass |
| | | | 5 | 23.67 | -6.00 | 15.52 | <=34.77 | Pass |
| | | 3 | 0 | 23.32 | -6.00 | 15.17 | <=34.77 | Pass |
| | | | 2 | 23.35 | -6.00 | 15.20 | <=34.77 | Pass |
| | | | 3 | 23.68 | -6.00 | 15.53 | <=34.77 | Pass |
| | | 6 | 0 | 22.68 | -6.00 | 14.53 | <=34.77 | Pass |
| 16QAM | 699.7 | 1 | 0 | 22.73 | -6.00 | 14.58 | <=34.77 | Pass |
| | | | 2 | 22.64 | -6.00 | 14.49 | <=34.77 | Pass |
| | | | 5 | 22.71 | -6.00 | 14.56 | <=34.77 | Pass |
| | | 3 | 0 | 22.26 | -6.00 | 14.11 | <=34.77 | Pass |
| | | | 2 | 22.33 | -6.00 | 14.18 | <=34.77 | Pass |
| | | | 3 | 22.35 | -6.00 | 14.20 | <=34.77 | Pass |
| | | 6 | 0 | 21.53 | -6.00 | 13.38 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 22.90 | -6.00 | 14.75 | <=34.77 | Pass |
| | | | 2 | 22.40 | -6.00 | 14.25 | <=34.77 | Pass |
| | | | 5 | 22.84 | -6.00 | 14.69 | <=34.77 | Pass |
| | | 3 | 0 | 22.28 | -6.00 | 14.13 | <=34.77 | Pass |
| | | | 2 | 22.21 | -6.00 | 14.06 | <=34.77 | Pass |
| | | | 3 | 22.46 | -6.00 | 14.31 | <=34.77 | Pass |
| | | 6 | 0 | 21.71 | -6.00 | 13.56 | <=34.77 | Pass |
| | 715.3 | 1 | 0 | 22.76 | -6.00 | 14.61 | <=34.77 | Pass |
| | | | 2 | 22.81 | -6.00 | 14.66 | <=34.77 | Pass |
| | | | 5 | 22.69 | -6.00 | 14.54 | <=34.77 | Pass |
| | | 3 | 0 | 22.67 | -6.00 | 14.52 | <=34.77 | Pass |
| | | | 2 | 22.50 | -6.00 | 14.35 | <=34.77 | Pass |
| | | | 3 | 22.49 | -6.00 | 14.34 | <=34.77 | Pass |
| | | 6 | 0 | 21.70 | -6.00 | 13.55 | <=34.77 | Pass |
| 64QAM | 699.7 | 1 | 0 | 21.72 | -6.00 | 13.57 | <=34.77 | Pass |
| | | | 2 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | | | 5 | 21.59 | -6.00 | 13.44 | <=34.77 | Pass |
| | | 3 | 0 | 21.37 | -6.00 | 13.22 | <=34.77 | Pass |
| | | | 2 | 21.44 | -6.00 | 13.29 | <=34.77 | Pass |
| | | | 3 | 21.63 | -6.00 | 13.48 | <=34.77 | Pass |
| | | 6 | 0 | 20.43 | -6.00 | 12.28 | <=34.77 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 707.5 | 1 | 0 | 21.57 | -6.00 | 13.42 | <=34.77 | Pass |
| | | | 2 | 21.44 | -6.00 | 13.29 | <=34.77 | Pass |
| | | | 5 | 21.48 | -6.00 | 13.33 | <=34.77 | Pass |
| | | 3 | 0 | 21.70 | -6.00 | 13.55 | <=34.77 | Pass |
| | | | 2 | 21.65 | -6.00 | 13.50 | <=34.77 | Pass |
| | | | 3 | 21.74 | -6.00 | 13.59 | <=34.77 | Pass |
| | | 6 | 0 | 20.64 | -6.00 | 12.49 | <=34.77 | Pass |
| | 715.3 | 1 | 0 | 21.62 | -6.00 | 13.47 | <=34.77 | Pass |
| | | | 2 | 21.51 | -6.00 | 13.36 | <=34.77 | Pass |
| | | | 5 | 21.54 | -6.00 | 13.39 | <=34.77 | Pass |
| | | 3 | 0 | 21.60 | -6.00 | 13.45 | <=34.77 | Pass |
| | | | 2 | 21.68 | -6.00 | 13.53 | <=34.77 | Pass |
| | | | 3 | 21.65 | -6.00 | 13.50 | <=34.77 | Pass |
| | | 6 | 0 | 20.62 | -6.00 | 12.47 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.1.2 B12_3MHz_ERP

| Band: 12 / Bandwidth: 3MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 700.5 | 1 | 0 | 23.60 | -6.00 | 15.45 | <=34.77 | Pass |
| | | | 7 | 23.63 | -6.00 | 15.48 | <=34.77 | Pass |
| | | | 14 | 23.65 | -6.00 | 15.50 | <=34.77 | Pass |
| | | 8 | 0 | 22.58 | -6.00 | 14.43 | <=34.77 | Pass |
| | | | 4 | 22.63 | -6.00 | 14.48 | <=34.77 | Pass |
| | | | 7 | 22.57 | -6.00 | 14.42 | <=34.77 | Pass |
| | | 15 | 0 | 22.58 | -6.00 | 14.43 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 23.64 | -6.00 | 15.49 | <=34.77 | Pass |
| | | | 7 | 23.43 | -6.00 | 15.28 | <=34.77 | Pass |
| | | | 14 | 23.50 | -6.00 | 15.35 | <=34.77 | Pass |
| | | 8 | 0 | 22.61 | -6.00 | 14.46 | <=34.77 | Pass |
| | | | 4 | 22.62 | -6.00 | 14.47 | <=34.77 | Pass |
| | | | 7 | 22.64 | -6.00 | 14.49 | <=34.77 | Pass |
| | | 15 | 0 | 22.64 | -6.00 | 14.49 | <=34.77 | Pass |
| | 714.5 | 1 | 0 | 23.51 | -6.00 | 15.36 | <=34.77 | Pass |
| | | | 7 | 23.48 | -6.00 | 15.33 | <=34.77 | Pass |
| | | | 14 | 23.59 | -6.00 | 15.44 | <=34.77 | Pass |
| | | 8 | 0 | 22.59 | -6.00 | 14.44 | <=34.77 | Pass |
| | | | 4 | 22.66 | -6.00 | 14.51 | <=34.77 | Pass |
| | | | 7 | 22.64 | -6.00 | 14.49 | <=34.77 | Pass |
| | | 15 | 0 | 22.66 | -6.00 | 14.51 | <=34.77 | Pass |
| 16QAM | 700.5 | 1 | 0 | 22.85 | -6.00 | 14.70 | <=34.77 | Pass |
| | | | 7 | 22.88 | -6.00 | 14.73 | <=34.77 | Pass |
| | | | 14 | 22.60 | -6.00 | 14.45 | <=34.77 | Pass |
| | | 8 | 0 | 21.51 | -6.00 | 13.36 | <=34.77 | Pass |
| | | | 4 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | | | 7 | 21.69 | -6.00 | 13.54 | <=34.77 | Pass |
| | | 15 | 0 | 21.56 | -6.00 | 13.41 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 22.75 | -6.00 | 14.60 | <=34.77 | Pass |
| | | | 7 | 22.69 | -6.00 | 14.54 | <=34.77 | Pass |
| | | | 14 | 22.73 | -6.00 | 14.58 | <=34.77 | Pass |
| | | 8 | 0 | 21.63 | -6.00 | 13.48 | <=34.77 | Pass |
| | | | 4 | 21.71 | -6.00 | 13.56 | <=34.77 | Pass |
| | | | 7 | 21.55 | -6.00 | 13.40 | <=34.77 | Pass |
| | | 15 | 0 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | 714.5 | 1 | 0 | 22.81 | -6.00 | 14.66 | <=34.77 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 7 | 22.78 | -6.00 | 14.63 | <=34.77 | Pass |
| | | | 14 | 22.72 | -6.00 | 14.57 | <=34.77 | Pass |
| | | 8 | 0 | 21.62 | -6.00 | 13.47 | <=34.77 | Pass |
| | | | 4 | 21.49 | -6.00 | 13.34 | <=34.77 | Pass |
| | | | 7 | 21.61 | -6.00 | 13.46 | <=34.77 | Pass |
| | | 15 | 0 | 21.67 | -6.00 | 13.52 | <=34.77 | Pass |
| 64QAM | 700.5 | 1 | 0 | 21.45 | -6.00 | 13.30 | <=34.77 | Pass |
| | | | 7 | 21.63 | -6.00 | 13.48 | <=34.77 | Pass |
| | | | 14 | 21.75 | -6.00 | 13.60 | <=34.77 | Pass |
| | | 8 | 0 | 20.64 | -6.00 | 12.49 | <=34.77 | Pass |
| | | | 4 | 20.63 | -6.00 | 12.48 | <=34.77 | Pass |
| | | | 7 | 20.61 | -6.00 | 12.46 | <=34.77 | Pass |
| | | 15 | 0 | 20.55 | -6.00 | 12.40 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 20.86 | -6.00 | 12.71 | <=34.77 | Pass |
| | | | 7 | 21.49 | -6.00 | 13.34 | <=34.77 | Pass |
| | | | 14 | 21.65 | -6.00 | 13.50 | <=34.77 | Pass |
| | | 8 | 0 | 20.69 | -6.00 | 12.54 | <=34.77 | Pass |
| | | | 4 | 20.69 | -6.00 | 12.54 | <=34.77 | Pass |
| | | | 7 | 20.68 | -6.00 | 12.53 | <=34.77 | Pass |
| | | 15 | 0 | 20.50 | -6.00 | 12.35 | <=34.77 | Pass |
| | 714.5 | 1 | 0 | 21.14 | -6.00 | 12.99 | <=34.77 | Pass |
| | | | 7 | 21.93 | -6.00 | 13.78 | <=34.77 | Pass |
| | | | 14 | 21.80 | -6.00 | 13.65 | <=34.77 | Pass |
| | | 8 | 0 | 20.71 | -6.00 | 12.56 | <=34.77 | Pass |
| | | | 4 | 20.67 | -6.00 | 12.52 | <=34.77 | Pass |
| | | | 7 | 20.72 | -6.00 | 12.57 | <=34.77 | Pass |
| | | 15 | 0 | 20.50 | -6.00 | 12.35 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.1.3 B12_5MHz_ERP

| Band: 12 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 701.5 | 1 | 0 | 23.67 | -6.00 | 15.52 | <=34.77 | Pass |
| | | | 13 | 23.68 | -6.00 | 15.53 | <=34.77 | Pass |
| | | | 24 | 23.69 | -6.00 | 15.54 | <=34.77 | Pass |
| | | 12 | 0 | 22.67 | -6.00 | 14.52 | <=34.77 | Pass |
| | | | 6 | 22.75 | -6.00 | 14.60 | <=34.77 | Pass |
| | | | 13 | 22.71 | -6.00 | 14.56 | <=34.77 | Pass |
| | | 25 | 0 | 22.68 | -6.00 | 14.53 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 23.65 | -6.00 | 15.50 | <=34.77 | Pass |
| | | | 13 | 23.51 | -6.00 | 15.36 | <=34.77 | Pass |
| | | | 24 | 23.53 | -6.00 | 15.38 | <=34.77 | Pass |
| | | 12 | 0 | 22.71 | -6.00 | 14.56 | <=34.77 | Pass |
| | | | 6 | 22.69 | -6.00 | 14.54 | <=34.77 | Pass |
| | | | 13 | 22.71 | -6.00 | 14.56 | <=34.77 | Pass |
| | | 25 | 0 | 22.74 | -6.00 | 14.59 | <=34.77 | Pass |
| | 713.5 | 1 | 0 | 23.66 | -6.00 | 15.51 | <=34.77 | Pass |
| | | | 13 | 23.50 | -6.00 | 15.35 | <=34.77 | Pass |
| | | | 24 | 23.65 | -6.00 | 15.50 | <=34.77 | Pass |
| | | 12 | 0 | 22.76 | -6.00 | 14.61 | <=34.77 | Pass |
| | | | 6 | 22.72 | -6.00 | 14.57 | <=34.77 | Pass |
| | | | 13 | 22.74 | -6.00 | 14.59 | <=34.77 | Pass |
| | | 25 | 0 | 22.75 | -6.00 | 14.60 | <=34.77 | Pass |
| 16QAM | 701.5 | 1 | 0 | 22.72 | -6.00 | 14.57 | <=34.77 | Pass |
| | | | 13 | 22.83 | -6.00 | 14.68 | <=34.77 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 24 | 22.40 | -6.00 | 14.25 | <=34.77 | Pass |
| | | 12 | 0 | 21.62 | -6.00 | 13.47 | <=34.77 | Pass |
| | | | 6 | 21.68 | -6.00 | 13.53 | <=34.77 | Pass |
| | | | 13 | 21.72 | -6.00 | 13.57 | <=34.77 | Pass |
| | | 25 | 0 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 22.66 | -6.00 | 14.51 | <=34.77 | Pass |
| | | | 13 | 22.94 | -6.00 | 14.79 | <=34.77 | Pass |
| | | | 24 | 22.89 | -6.00 | 14.74 | <=34.77 | Pass |
| | | 12 | 0 | 21.73 | -6.00 | 13.58 | <=34.77 | Pass |
| | | | 6 | 21.71 | -6.00 | 13.56 | <=34.77 | Pass |
| | | | 13 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | | 25 | 0 | 21.75 | -6.00 | 13.60 | <=34.77 | Pass |
| | 713.5 | 1 | 0 | 22.81 | -6.00 | 14.66 | <=34.77 | Pass |
| | | | 13 | 22.46 | -6.00 | 14.31 | <=34.77 | Pass |
| | | | 24 | 22.81 | -6.00 | 14.66 | <=34.77 | Pass |
| | | 12 | 0 | 21.73 | -6.00 | 13.58 | <=34.77 | Pass |
| | | | 6 | 21.67 | -6.00 | 13.52 | <=34.77 | Pass |
| | | | 13 | 21.59 | -6.00 | 13.44 | <=34.77 | Pass |
| | | 25 | 0 | 21.40 | -6.00 | 13.25 | <=34.77 | Pass |
| 64QAM | 701.5 | 1 | 0 | 21.46 | -6.00 | 13.31 | <=34.77 | Pass |
| | | | 13 | 21.19 | -6.00 | 13.04 | <=34.77 | Pass |
| | | | 24 | 21.72 | -6.00 | 13.57 | <=34.77 | Pass |
| | | 12 | 0 | 20.66 | -6.00 | 12.51 | <=34.77 | Pass |
| | | | 6 | 20.68 | -6.00 | 12.53 | <=34.77 | Pass |
| | | | 13 | 20.63 | -6.00 | 12.48 | <=34.77 | Pass |
| | | 25 | 0 | 20.44 | -6.00 | 12.29 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 21.84 | -6.00 | 13.69 | <=34.77 | Pass |
| | | | 13 | 21.59 | -6.00 | 13.44 | <=34.77 | Pass |
| | | | 24 | 21.63 | -6.00 | 13.48 | <=34.77 | Pass |
| | | 12 | 0 | 20.73 | -6.00 | 12.58 | <=34.77 | Pass |
| | | | 6 | 20.77 | -6.00 | 12.62 | <=34.77 | Pass |
| | | | 13 | 20.51 | -6.00 | 12.36 | <=34.77 | Pass |
| | | 25 | 0 | 20.71 | -6.00 | 12.56 | <=34.77 | Pass |
| | 713.5 | 1 | 0 | 21.85 | -6.00 | 13.70 | <=34.77 | Pass |
| | | | 13 | 21.78 | -6.00 | 13.63 | <=34.77 | Pass |
| | | | 24 | 21.82 | -6.00 | 13.67 | <=34.77 | Pass |
| | | 12 | 0 | 20.77 | -6.00 | 12.62 | <=34.77 | Pass |
| | | | 6 | 20.71 | -6.00 | 12.56 | <=34.77 | Pass |
| | | | 13 | 20.72 | -6.00 | 12.57 | <=34.77 | Pass |
| | | 25 | 0 | 20.68 | -6.00 | 12.53 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

## 1.1.4 B12_10MHz_ERP

| Band: 12 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 704 | 1 | 0 | 23.59 | -6.00 | 15.44 | <=34.77 | Pass |
| | | | 25 | 23.59 | -6.00 | 15.44 | <=34.77 | Pass |
| | | | 49 | 23.70 | -6.00 | 15.55 | <=34.77 | Pass |
| | | 25 | 0 | 22.67 | -6.00 | 14.52 | <=34.77 | Pass |
| | | | 13 | 22.64 | -6.00 | 14.49 | <=34.77 | Pass |
| | | | 25 | 22.67 | -6.00 | 14.52 | <=34.77 | Pass |
| | | 50 | 0 | 22.69 | -6.00 | 14.54 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 23.06 | -6.00 | 14.91 | <=34.77 | Pass |
| | | | 25 | 23.27 | -6.00 | 15.12 | <=34.77 | Pass |
| | | | 49 | 23.51 | -6.00 | 15.36 | <=34.77 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 25 | 0 | 22.68 | -6.00 | 14.53 | <=34.77 | Pass |
| | | | 13 | 22.67 | -6.00 | 14.52 | <=34.77 | Pass |
| | | | 25 | 22.64 | -6.00 | 14.49 | <=34.77 | Pass |
| | | 50 | 0 | 22.65 | -6.00 | 14.50 | <=34.77 | Pass |
| | 711 | 1 | 0 | 23.66 | -6.00 | 15.51 | <=34.77 | Pass |
| | | | 25 | 23.72 | -6.00 | 15.57 | <=34.77 | Pass |
| | | | 49 | 23.67 | -6.00 | 15.52 | <=34.77 | Pass |
| | | 25 | 0 | 22.63 | -6.00 | 14.48 | <=34.77 | Pass |
| | | | 13 | 22.65 | -6.00 | 14.50 | <=34.77 | Pass |
| | | | 25 | 22.62 | -6.00 | 14.47 | <=34.77 | Pass |
| | | 50 | 0 | 22.65 | -6.00 | 14.50 | <=34.77 | Pass |
| 16QAM | 704 | 1 | 0 | 22.69 | -6.00 | 14.54 | <=34.77 | Pass |
| | | | 25 | 22.27 | -6.00 | 14.12 | <=34.77 | Pass |
| | | | 49 | 22.87 | -6.00 | 14.72 | <=34.77 | Pass |
| | | 25 | 0 | 21.67 | -6.00 | 13.52 | <=34.77 | Pass |
| | | | 13 | 21.66 | -6.00 | 13.51 | <=34.77 | Pass |
| | | | 25 | 21.68 | -6.00 | 13.53 | <=34.77 | Pass |
| | | 50 | 0 | 21.69 | -6.00 | 13.54 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 22.54 | -6.00 | 14.39 | <=34.77 | Pass |
| | | | 25 | 22.58 | -6.00 | 14.43 | <=34.77 | Pass |
| | | | 49 | 22.67 | -6.00 | 14.52 | <=34.77 | Pass |
| | | 25 | 0 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | | | 13 | 21.67 | -6.00 | 13.52 | <=34.77 | Pass |
| | | | 25 | 21.56 | -6.00 | 13.41 | <=34.77 | Pass |
| | | 50 | 0 | 21.68 | -6.00 | 13.53 | <=34.77 | Pass |
| | 711 | 1 | 0 | 22.92 | -6.00 | 14.77 | <=34.77 | Pass |
| | | | 25 | 22.74 | -6.00 | 14.59 | <=34.77 | Pass |
| | | | 49 | 22.89 | -6.00 | 14.74 | <=34.77 | Pass |
| | | 25 | 0 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| | | | 13 | 21.54 | -6.00 | 13.39 | <=34.77 | Pass |
| | | | 25 | 21.52 | -6.00 | 13.37 | <=34.77 | Pass |
| | | 50 | 0 | 21.64 | -6.00 | 13.49 | <=34.77 | Pass |
| 64QAM | 704 | 1 | 0 | 21.28 | -6.00 | 13.13 | <=34.77 | Pass |
| | | | 25 | 21.22 | -6.00 | 13.07 | <=34.77 | Pass |
| | | | 49 | 21.40 | -6.00 | 13.25 | <=34.77 | Pass |
| | | 25 | 0 | 20.59 | -6.00 | 12.44 | <=34.77 | Pass |
| | | | 13 | 20.64 | -6.00 | 12.49 | <=34.77 | Pass |
| | | | 25 | 20.71 | -6.00 | 12.56 | <=34.77 | Pass |
| | | 50 | 0 | 20.67 | -6.00 | 12.52 | <=34.77 | Pass |
| | 707.5 | 1 | 0 | 21.15 | -6.00 | 13.00 | <=34.77 | Pass |
| | | | 25 | 21.33 | -6.00 | 13.18 | <=34.77 | Pass |
| | | | 49 | 21.36 | -6.00 | 13.21 | <=34.77 | Pass |
| | | 25 | 0 | 20.67 | -6.00 | 12.52 | <=34.77 | Pass |
| | | | 13 | 20.67 | -6.00 | 12.52 | <=34.77 | Pass |
| | | | 25 | 20.64 | -6.00 | 12.49 | <=34.77 | Pass |
| | | 50 | 0 | 20.66 | -6.00 | 12.51 | <=34.77 | Pass |
| | 711 | 1 | 0 | 21.43 | -6.00 | 13.28 | <=34.77 | Pass |
| | | | 25 | 21.78 | -6.00 | 13.63 | <=34.77 | Pass |
| | | | 49 | 21.79 | -6.00 | 13.64 | <=34.77 | Pass |
| | | 25 | 0 | 20.59 | -6.00 | 12.44 | <=34.77 | Pass |
| | | | 13 | 20.63 | -6.00 | 12.48 | <=34.77 | Pass |
| | | | 25 | 20.63 | -6.00 | 12.48 | <=34.77 | Pass |
| | | 50 | 0 | 20.63 | -6.00 | 12.48 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 | | | | | | | | |

# 2. Frequency Stability

## 2.1 Test Result

### 2.1.1 B12_1.4MHz

| Band: 12 / 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 | 699.7 | 6 | 0 | 20 | 3.3 | -6.300 | -0.0090 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -8.000 | -0.0114 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -5.400 | -0.0077 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -3.900 | -0.0056 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 6.800 | 0.0097 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 6.300 | 0.0090 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 3.300 | 0.0047 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.500 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | 707.5 | 6 | 0 | 20 | 3.3 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.200 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -3.100 | -0.0044 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -3.800 | -0.0054 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.500 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -3.300 | -0.0047 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | 715.3 | 6 | 0 | 20 | 3.3 | -0.800 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -4.700 | -0.0066 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -5.000 | -0.0070 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 1.700 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.000 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| 16QAM | 699.7 | 6 | 0 | 20 | 3.3 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -3.500 | -0.0050 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.700 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 1.200 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -4.300 | -0.0061 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.400 | 0.0020 | -2.5 to 2.5 | Pass |
| | 707.5 | 6 | 0 | 20 | 3.3 | -2.500 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -2.500 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.800 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.100 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.100 | -0.0030 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.92 | -4.300 | -0.0061 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.100 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.800 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.800 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -2.200 | -0.0031 | -2.5 to 2.5 | Pass |
| | 715.3 | 6 | 0 | 20 | 3.3 | 2.700 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -2.500 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.500 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 2.300 | 0.0032 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.200 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 2.100 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -3.300 | -0.0046 | -2.5 to 2.5 | Pass |
| 64QAM | 699.7 | 6 | 0 | 20 | 3.3 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.500 | 0.0036 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.600 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.600 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.000 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.800 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
| | 707.5 | 6 | 0 | 20 | 3.3 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.700 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 1.000 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.500 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -1.200 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 2.700 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 1.300 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.200 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | 715.3 | 6 | 0 | 20 | 3.3 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.400 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 2.000 | 0.0028 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 2.700 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 2.900 | 0.0041 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.200 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.300 | 0.0004 | -2.5 to 2.5 | Pass |

### 2.1.2 B12_3MHz

| Band: 12 / Bandwidth: 3MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 700.5 | 15 | 0 | 20 | 3.3 | 1.000 | 0.0014 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3.92 | 0.500 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.900 | 0.0027 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 2.500 | 0.0036 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 2.900 | 0.0041 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -1.200 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.700 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.300 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.600 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.300 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 2.600 | 0.0037 | -2.5 to 2.5 | Pass |
| | 707.5 | 15 | 0 | 20 | 3.3 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.900 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.800 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -3.300 | -0.0047 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -3.100 | -0.0044 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.900 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | 714.5 | 15 | 0 | 20 | 3.3 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -3.400 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -5.000 | -0.0070 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -3.000 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.400 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.100 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.100 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.100 | 0.0015 | -2.5 to 2.5 | Pass |
| 16QAM | 700.5 | 15 | 0 | 20 | 3.3 | 2.600 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 2.400 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.400 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.000 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.300 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.200 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.800 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | 707.5 | 15 | 0 | 20 | 3.3 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 2.400 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.900 | 0.0041 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 2.300 | 0.0033 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -3.200 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.300 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -3.900 | -0.0055 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.600 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | 714.5 | 15 | 0 | 20 | 3.3 | 0.900 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.500 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.900 | 0.0027 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -3.000 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.600 | -0.0036 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.600 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 2.300 | 0.0032 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.300 | 0.0018 | -2.5 to 2.5 | Pass |
| 64QAM | 700.5 | 15 | 0 | 20 | 3.3 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.000 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.000 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.700 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.800 | -0.0026 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -2.200 | -0.0031 | -2.5 to 2.5 | Pass |
| | 707.5 | 15 | 0 | 20 | 3.3 | 0.800 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.300 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.600 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -0.800 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.100 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | 714.5 | 15 | 0 | 20 | 3.3 | -2.100 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.900 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.600 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.100 | -0.0029 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -1.900 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.300 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.400 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |

### 2.1.3 B12_5MHz

| Band: 12 / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 701.5 | 25 | 0 | 20 | 3.3 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.800 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -2.300 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -0.800 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.800 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 0.900 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.500 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.300 | 0.0019 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | 707.5 | 25 | 0 | 20 | 3.3 | -3.600 | -0.0051 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3.92 | -4.800 | -0.0068 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -4.400 | -0.0062 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -0.700 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -0.600 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.000 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.800 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -3.200 | -0.0045 | -2.5 to 2.5 | Pass |
| | 713.5 | 25 | 0 | 20 | 3.3 | -5.500 | -0.0077 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -6.200 | -0.0087 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 1.000 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.600 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 2.100 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| 16QAM | 701.5 | 25 | 0 | 20 | 3.3 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -2.800 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -2.400 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.300 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 2.700 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 3.300 | 0.0047 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.400 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 2.200 | 0.0031 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.600 | 0.0023 | -2.5 to 2.5 | Pass |
| | 707.5 | 25 | 0 | 20 | 3.3 | -0.600 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 1.300 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -3.000 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -3.600 | -0.0051 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -3.900 | -0.0055 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -3.400 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -3.700 | -0.0052 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.500 | 0.0021 | -2.5 to 2.5 | Pass |
| | 713.5 | 25 | 0 | 20 | 3.3 | -2.600 | -0.0036 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 2.300 | 0.0032 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 2.900 | 0.0041 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 3.100 | 0.0043 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -1.300 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.000 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -0.600 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.300 | 0.0004 | -2.5 to 2.5 | Pass |
| 64QAM | 701.5 | 25 | 0 | 20 | 3.3 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.500 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 2.000 | 0.0029 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.000 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -3.500 | -0.0050 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -2.600 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | 707.5 | 25 | 0 | 20 | 3.3 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.000 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 4.600 | 0.0065 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 4.000 | 0.0057 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 2.600 | 0.0037 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.100 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.200 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | 713.5 | 25 | 0 | 20 | 3.3 | -2.400 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -5.200 | -0.0073 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -4.900 | -0.0069 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.300 | -0.0032 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -3.100 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -3.600 | -0.0050 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -3.600 | -0.0050 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -2.200 | -0.0031 | -2.5 to 2.5 | Pass |

## 2.1.4 B12_10MHz

| Band: 12 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 704 | 50 | 0 | 20 | 3.3 | -2.100 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -3.500 | -0.0050 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -3.300 | -0.0047 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.700 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 1.600 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -3.200 | -0.0045 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.500 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
| | 707.5 | 50 | 0 | 20 | 3.3 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -3.300 | -0.0047 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.800 | -0.0040 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.400 | -0.0034 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -1.800 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.300 | -0.0033 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 1.600 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -3.000 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | 711 | 50 | 0 | 20 | 3.3 | -1.100 | -0.0015 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 1.100 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.900 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.800 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.600 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 1.800 | 0.0025 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.200 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| 16QAM | 704 | 50 | 0 | 20 | 3.3 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.400 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -4.400 | -0.0063 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.200 | -0.0031 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -4.900 | -0.0070 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -3.400 | -0.0048 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -1.000 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -3.000 | -0.0043 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -3.100 | -0.0044 | -2.5 to 2.5 | Pass |
| | 707.5 | 50 | 0 | 20 | 3.3 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -1.200 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -1.900 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 1.500 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -2.600 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -2.500 | -0.0035 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -1.400 | -0.0020 | -2.5 to 2.5 | Pass |
| | 711 | 50 | 0 | 20 | 3.3 | -2.800 | -0.0039 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 1.600 | 0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 0.200 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 0.700 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.900 | -0.0041 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -3.900 | -0.0055 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | 0.300 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 3.600 | 0.0051 | -2.5 to 2.5 | Pass |
| 64QAM | 704 | 50 | 0 | 20 | 3.3 | -0.600 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.900 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -5.000 | -0.0071 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -1.000 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.600 | -0.0037 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | -2.100 | -0.0030 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -0.200 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -1.900 | -0.0027 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.000 | -0.0028 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -0.600 | -0.0009 | -2.5 to 2.5 | Pass |
| | 707.5 | 50 | 0 | 20 | 3.3 | -0.400 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | -1.800 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | 2.100 | 0.0030 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -2.600 | -0.0037 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -10 | 3.92 | -0.500 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | -0.800 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | -3.000 | -0.0042 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -0.900 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | 1.300 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | -1.200 | -0.0017 | -2.5 to 2.5 | Pass |
| | 711 | 50 | 0 | 20 | 3.3 | 1.400 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 3.92 | 0.800 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 4.53 | 2.700 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.92 | -3.300 | -0.0046 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.92 | 2.400 | 0.0034 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.92 | 2.700 | 0.0038 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.92 | 0.600 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.92 | -2.700 | -0.0038 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.92 | -1.600 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.92 | 1.200 | 0.0017 | -2.5 to 2.5 | Pass |

# 3. 99% & 26dB Bandwidth

## 3.1 Test Result

### 3.1.1 Band12_OBW

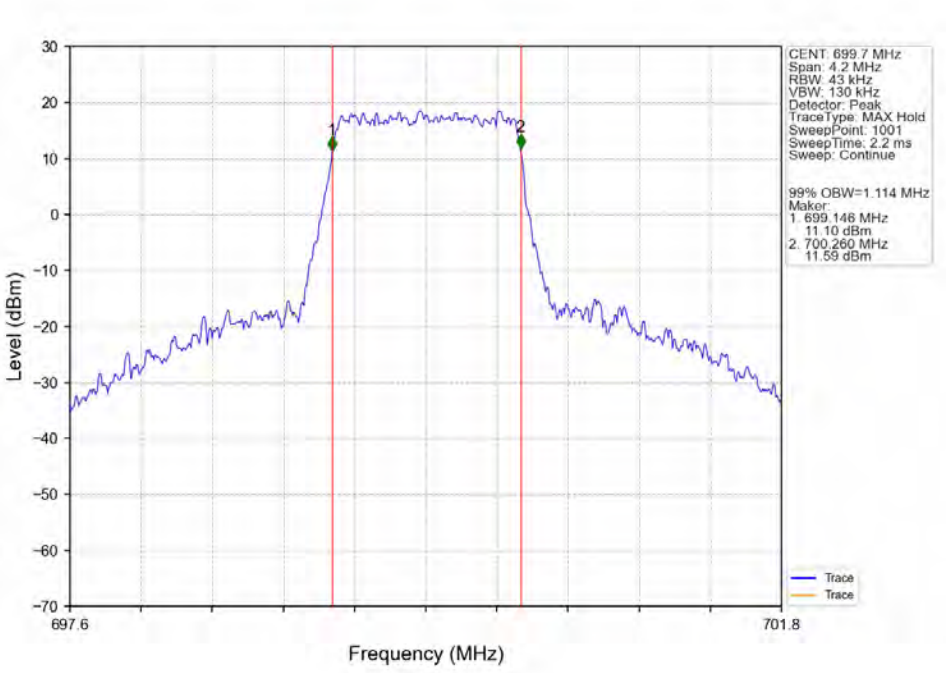
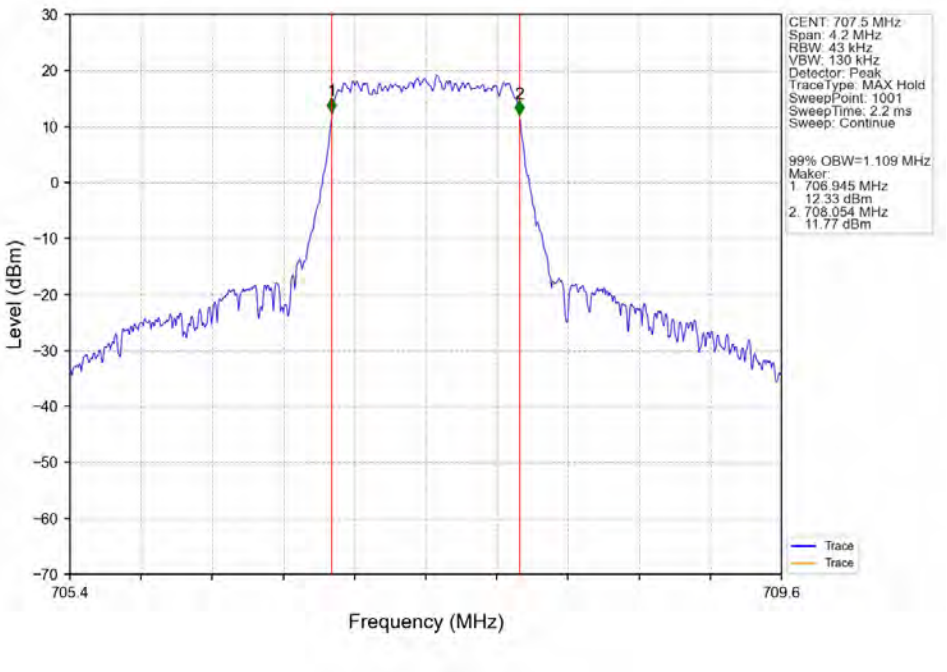
| Band: 12 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 699.7 | 6 | 0 | 1.114 | / | Pass |
| | | 707.5 | 6 | 0 | 1.109 | / | Pass |
| | | 715.3 | 6 | 0 | 1.109 | / | Pass |
| | 16QAM | 699.7 | 6 | 0 | 1.110 | / | Pass |
| | | 707.5 | 6 | 0 | 1.115 | / | Pass |
| | | 715.3 | 6 | 0 | 1.112 | / | Pass |
| | 64QAM | 699.7 | 6 | 0 | 1.113 | / | Pass |
| | | 707.5 | 6 | 0 | 1.118 | / | Pass |
| | | 715.3 | 6 | 0 | 1.112 | / | Pass |
| 3 | QPSK | 700.5 | 15 | 0 | 2.726 | / | Pass |
| | | 707.5 | 15 | 0 | 2.721 | / | Pass |
| | | 714.5 | 15 | 0 | 2.728 | / | Pass |
| | 16QAM | 700.5 | 15 | 0 | 2.721 | / | Pass |
| | | 707.5 | 15 | 0 | 2.726 | / | Pass |
| | | 714.5 | 15 | 0 | 2.728 | / | Pass |
| | 64QAM | 700.5 | 15 | 0 | 2.727 | / | Pass |
| | | 707.5 | 15 | 0 | 2.721 | / | Pass |
| | | 714.5 | 15 | 0 | 2.725 | / | Pass |
| 5 | QPSK | 701.5 | 25 | 0 | 4.556 | / | Pass |
| | | 707.5 | 25 | 0 | 4.534 | / | Pass |
| | | 713.5 | 25 | 0 | 4.539 | / | Pass |
| | 16QAM | 701.5 | 25 | 0 | 4.534 | / | Pass |
| | | 707.5 | 25 | 0 | 4.531 | / | Pass |
| | | 713.5 | 25 | 0 | 4.524 | / | Pass |
| | 64QAM | 701.5 | 25 | 0 | 4.543 | / | Pass |
| | | 707.5 | 25 | 0 | 4.530 | / | Pass |
| | | 713.5 | 25 | 0 | 4.553 | / | Pass |
| 10 | QPSK | 704 | 50 | 0 | 9.041 | / | Pass |
| | | 707.5 | 50 | 0 | 9.064 | / | Pass |
| | | 711 | 50 | 0 | 9.112 | / | Pass |
| | 16QAM | 704 | 50 | 0 | 9.026 | / | Pass |
| | | 707.5 | 50 | 0 | 9.022 | / | Pass |
| | | 711 | 50 | 0 | 9.020 | / | Pass |
| | 64QAM | 704 | 50 | 0 | 9.027 | / | Pass |
| | | 707.5 | 50 | 0 | 9.045 | / | Pass |
| | | 711 | 50 | 0 | 9.053 | / | Pass |

### 3.1.2 Band12_XDB

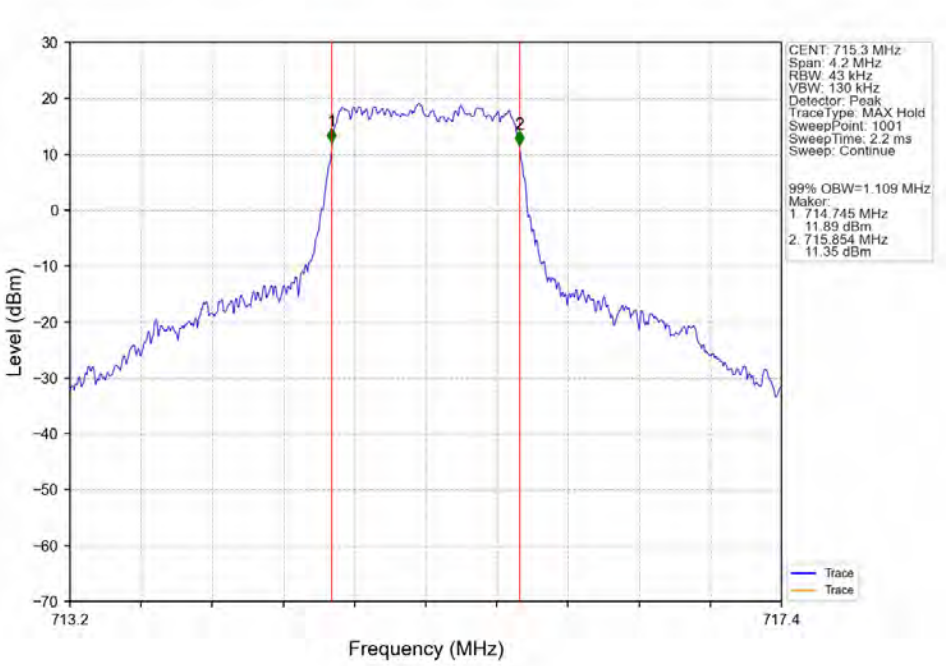
| Band: 12 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 699.7 | 6 | 0 | 1.330 | / | Pass |
| | | 707.5 | 6 | 0 | 1.307 | / | Pass |
| | | 715.3 | 6 | 0 | 1.320 | / | Pass |
| | 16QAM | 699.7 | 6 | 0 | 1.321 | / | Pass |
| | | 707.5 | 6 | 0 | 1.319 | / | Pass |
| | | 715.3 | 6 | 0 | 1.339 | / | Pass |
| | 64QAM | 699.7 | 6 | 0 | 1.316 | / | Pass |
| | | 707.5 | 6 | 0 | 1.313 | / | Pass |
| | | 715.3 | 6 | 0 | 1.315 | / | Pass |
| 3 | QPSK | 700.5 | 15 | 0 | 3.013 | / | Pass |
| | | 707.5 | 15 | 0 | 3.011 | / | Pass |
| | | 714.5 | 15 | 0 | 3.041 | / | Pass |
| | 16QAM | 700.5 | 15 | 0 | 3.008 | / | Pass |
| | | 707.5 | 15 | 0 | 3.017 | / | Pass |
| | | 714.5 | 15 | 0 | 3.033 | / | Pass |
| | 64QAM | 700.5 | 15 | 0 | 3.001 | / | Pass |
| | | 707.5 | 15 | 0 | 2.992 | / | Pass |
| | | 714.5 | 15 | 0 | 3.004 | / | Pass |
| 5 | QPSK | 701.5 | 25 | 0 | 5.028 | / | Pass |
| | | 707.5 | 25 | 0 | 5.046 | / | Pass |
| | | 713.5 | 25 | 0 | 5.050 | / | Pass |
| | 16QAM | 701.5 | 25 | 0 | 5.044 | / | Pass |
| | | 707.5 | 25 | 0 | 5.038 | / | Pass |
| | | 713.5 | 25 | 0 | 5.079 | / | Pass |
| | 64QAM | 701.5 | 25 | 0 | 5.074 | / | Pass |
| | | 707.5 | 25 | 0 | 5.020 | / | Pass |
| | | 713.5 | 25 | 0 | 5.371 | / | Pass |
| 10 | QPSK | 704 | 50 | 0 | 9.949 | / | Pass |
| | | 707.5 | 50 | 0 | 10.019 | / | Pass |
| | | 711 | 50 | 0 | 9.864 | / | Pass |
| | 16QAM | 704 | 50 | 0 | 9.859 | / | Pass |
| | | 707.5 | 50 | 0 | 9.862 | / | Pass |
| | | 711 | 50 | 0 | 9.904 | / | Pass |
| | 64QAM | 704 | 50 | 0 | 9.979 | / | Pass |
| | | 707.5 | 50 | 0 | 9.939 | / | Pass |
| | | 711 | 50 | 0 | 10.014 | / | Pass |

## 3.2 Test Graph

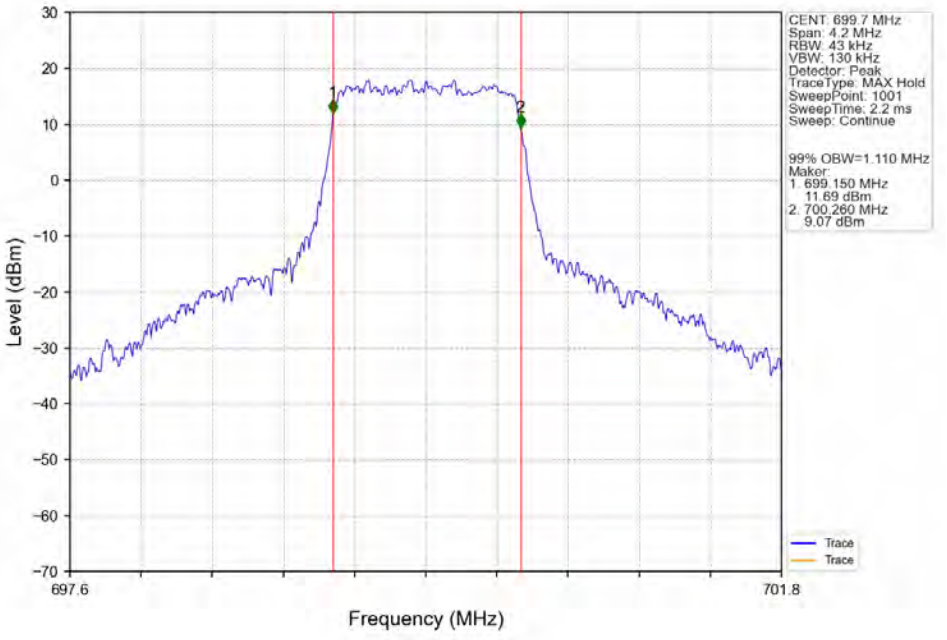
### 3.2.1 Band12_OBW

| Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV |
| --- |
|  |
| Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV |
|  |

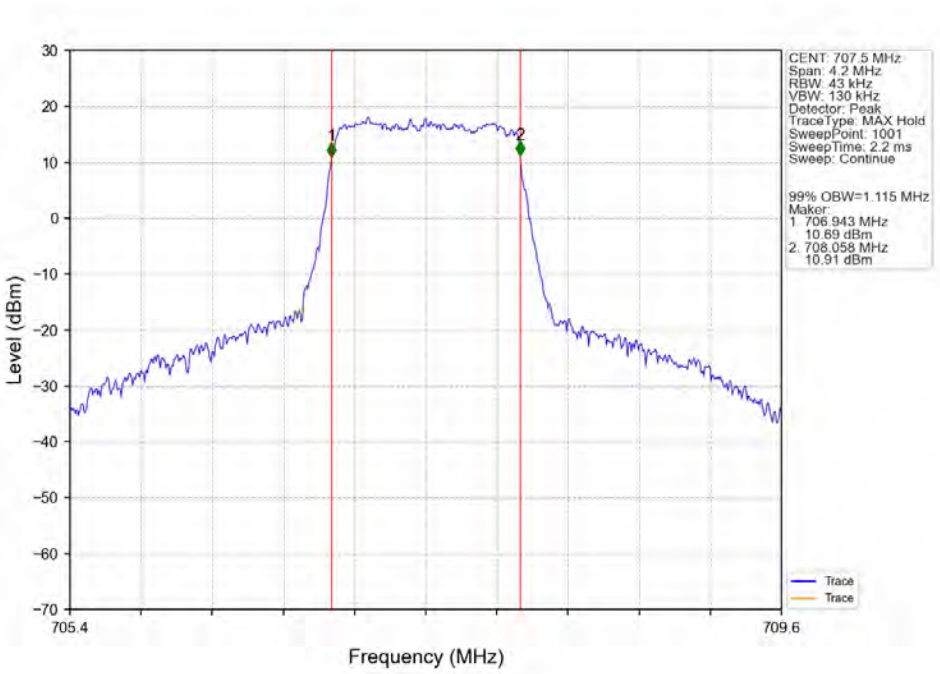
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



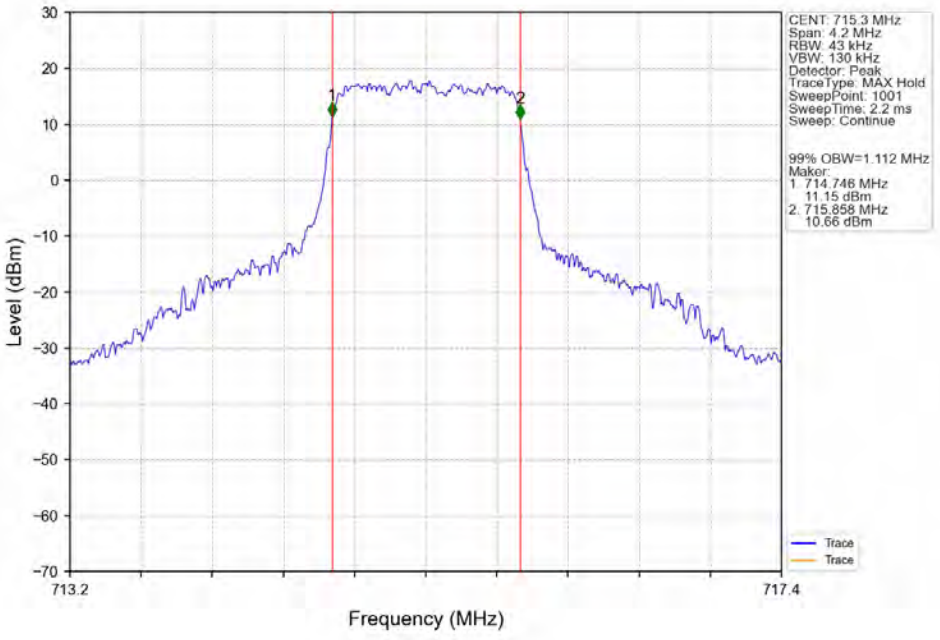

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



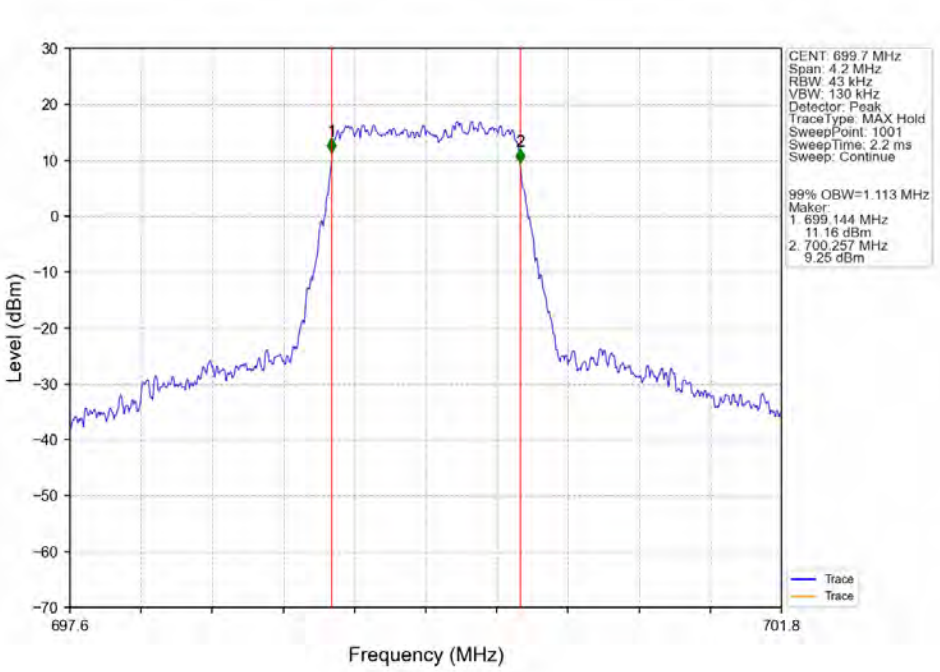
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV




Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV

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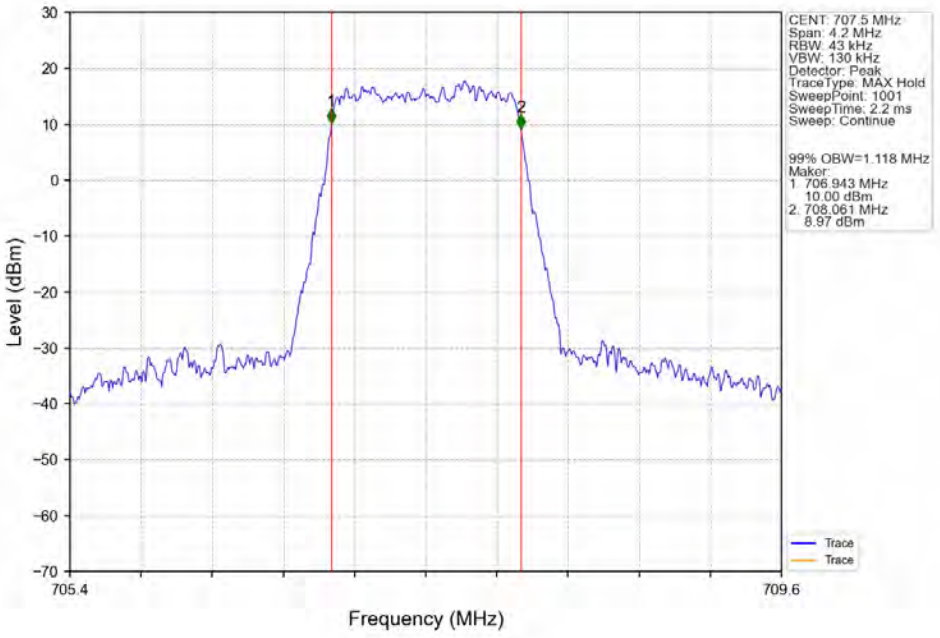
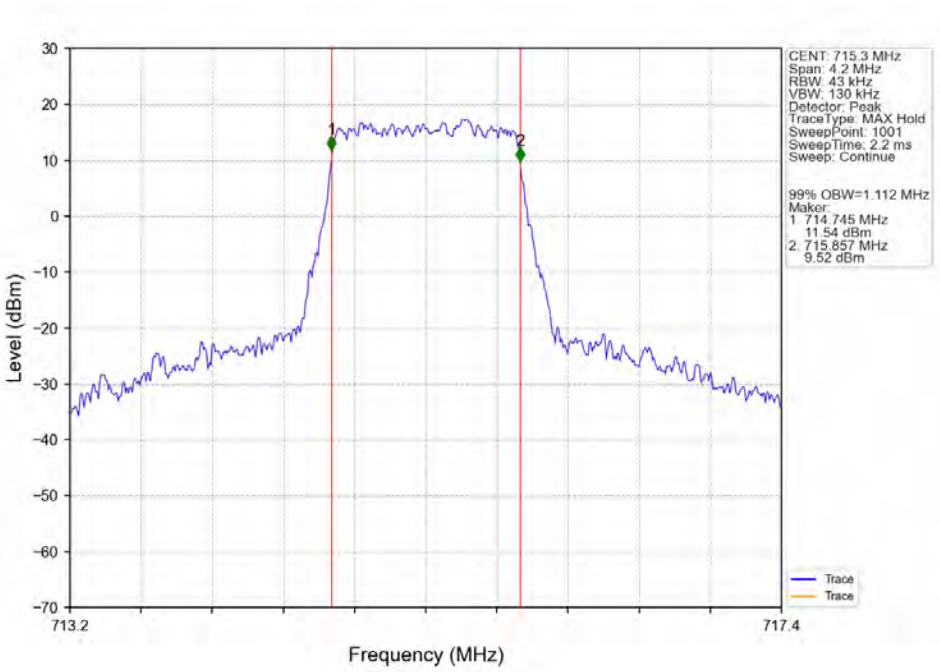
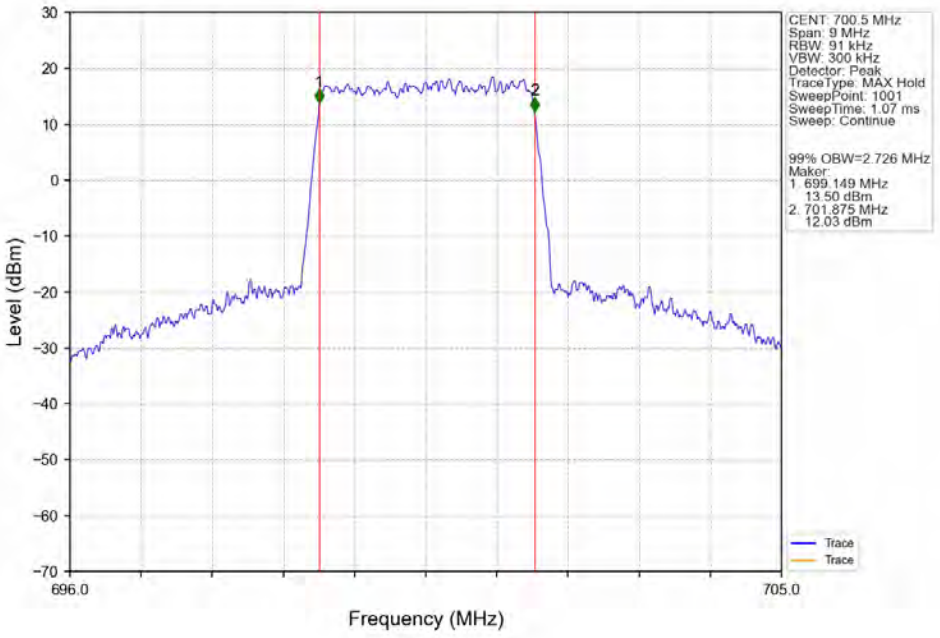


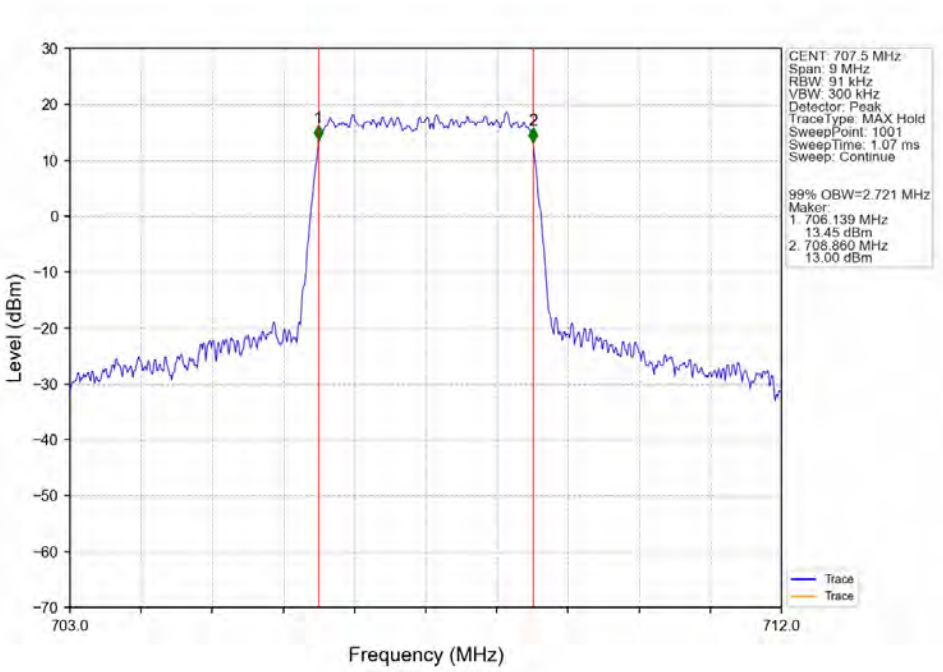
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



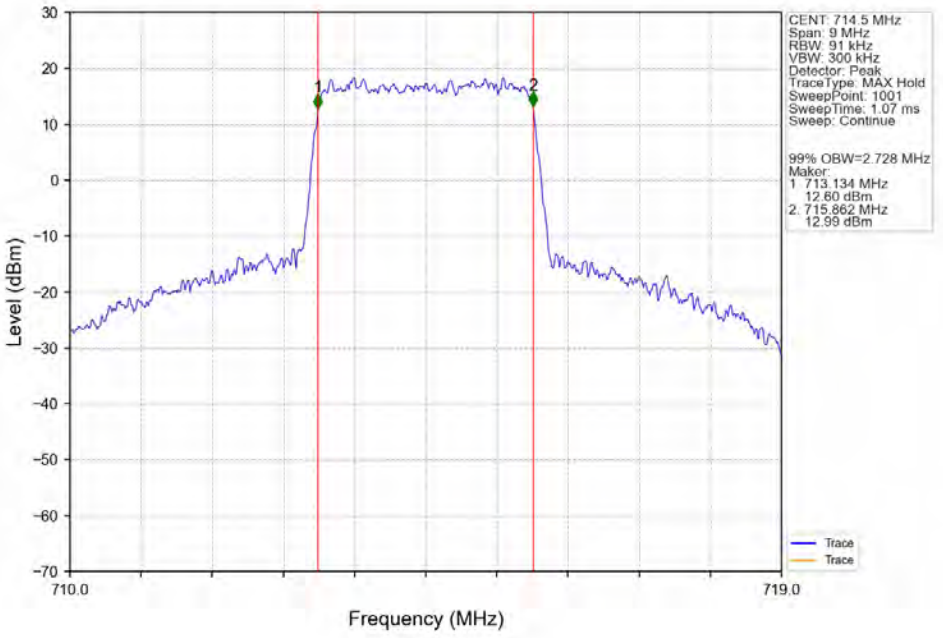

Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



| Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV |
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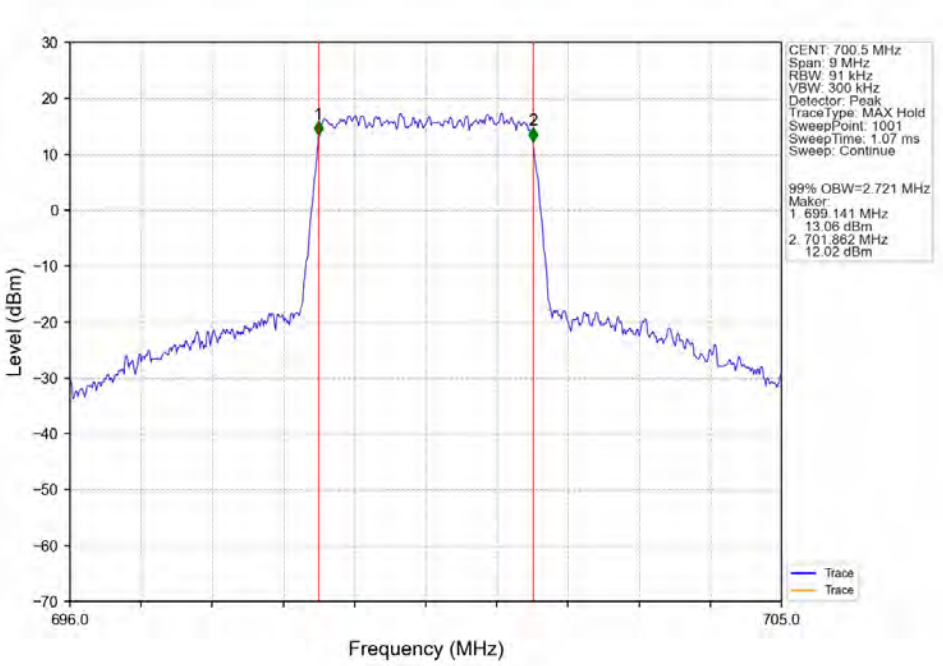
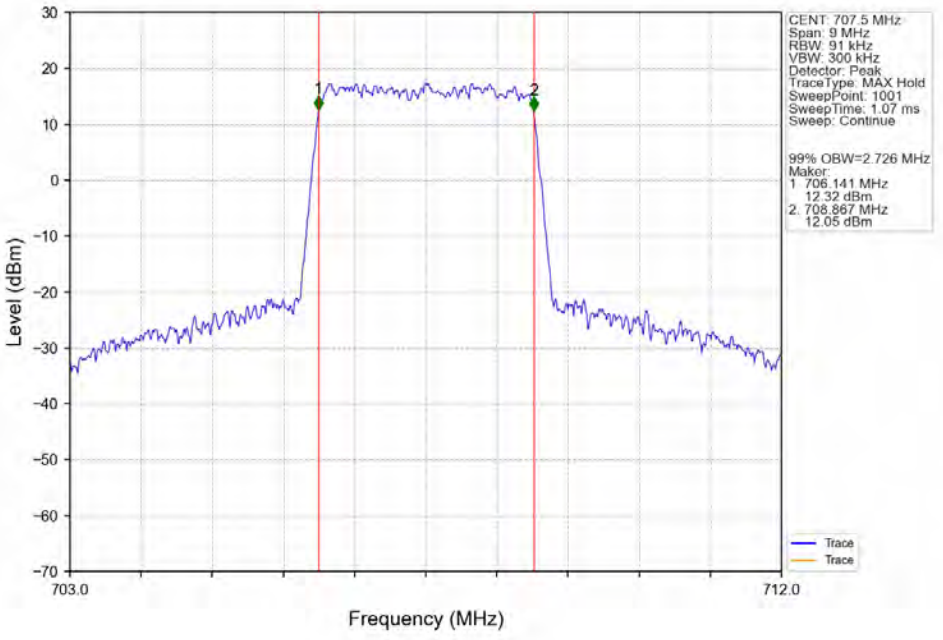
|  |
| Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV |
|  |

| Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV |
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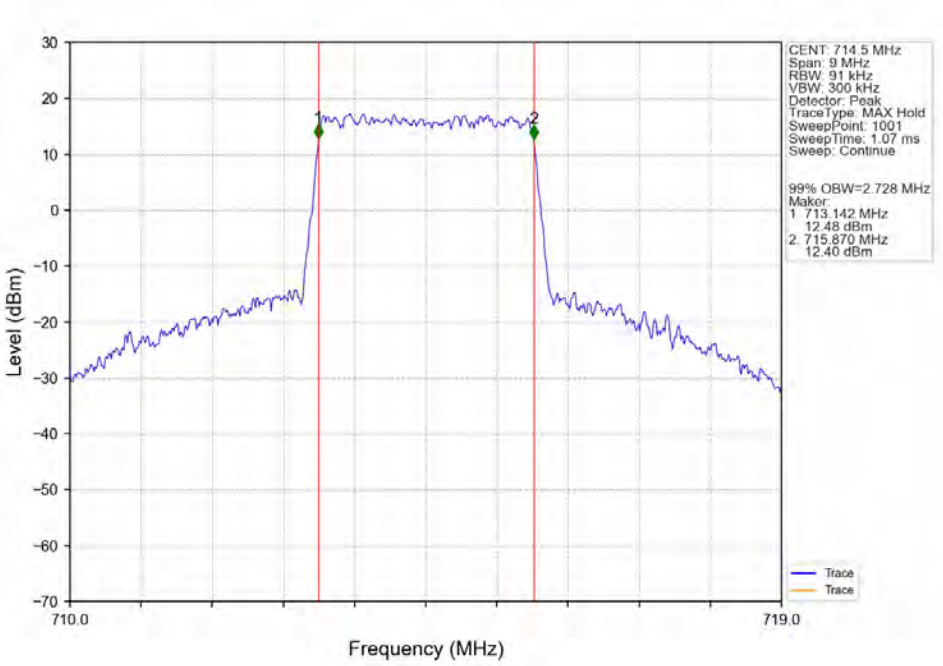
|  |



| Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV |
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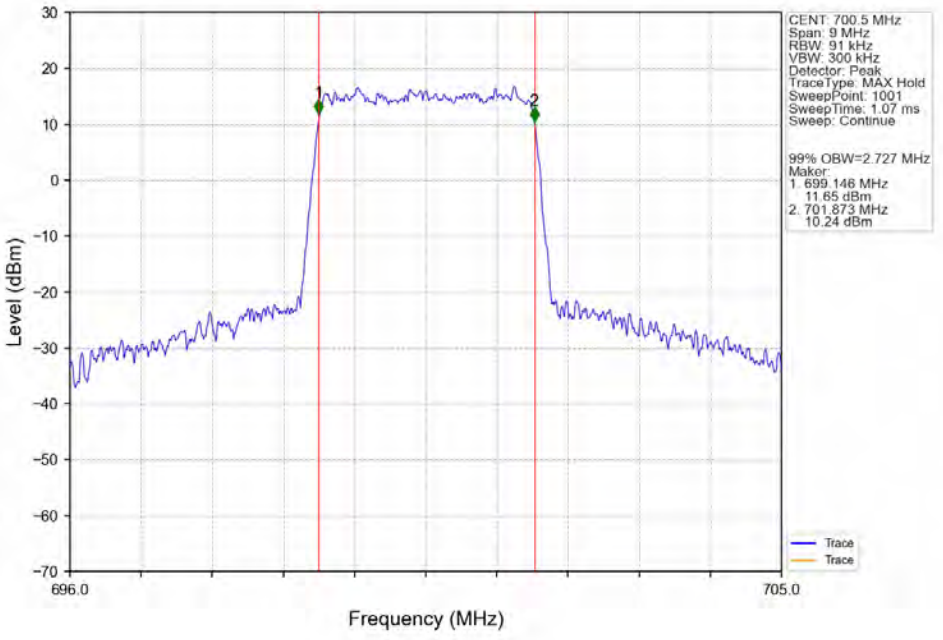
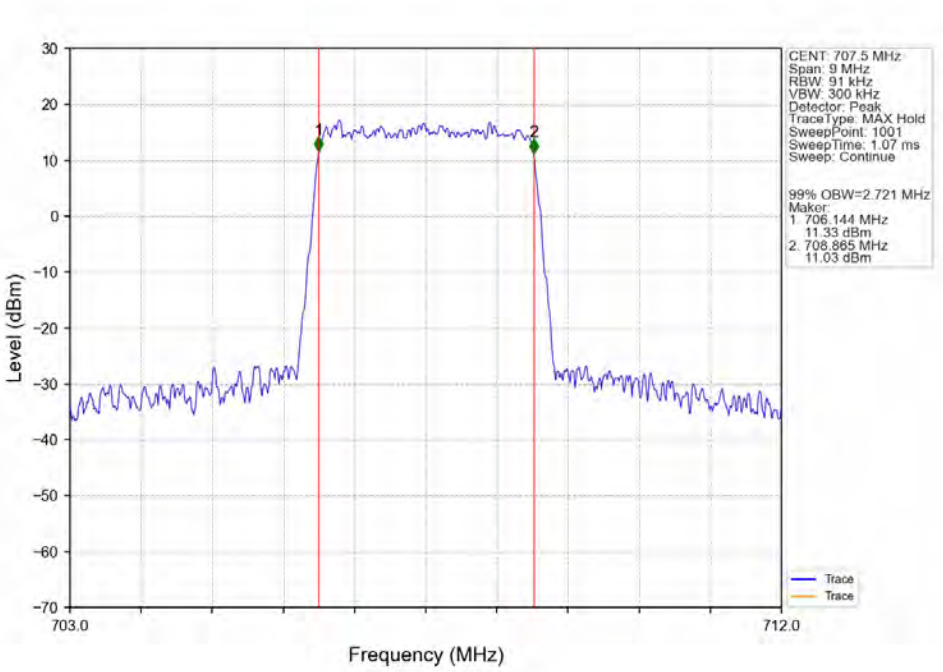
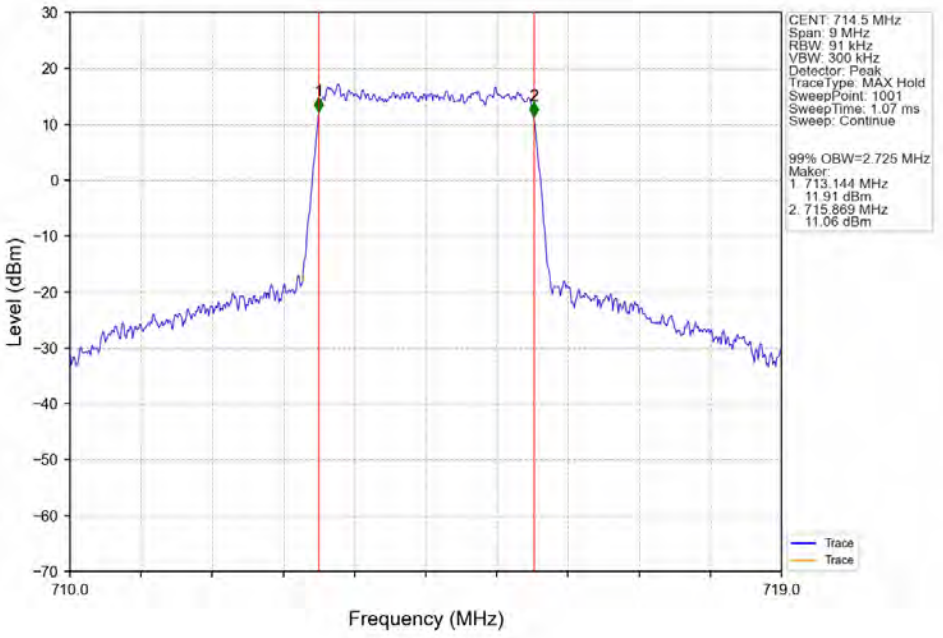
|  |

Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV




Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



| Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV |
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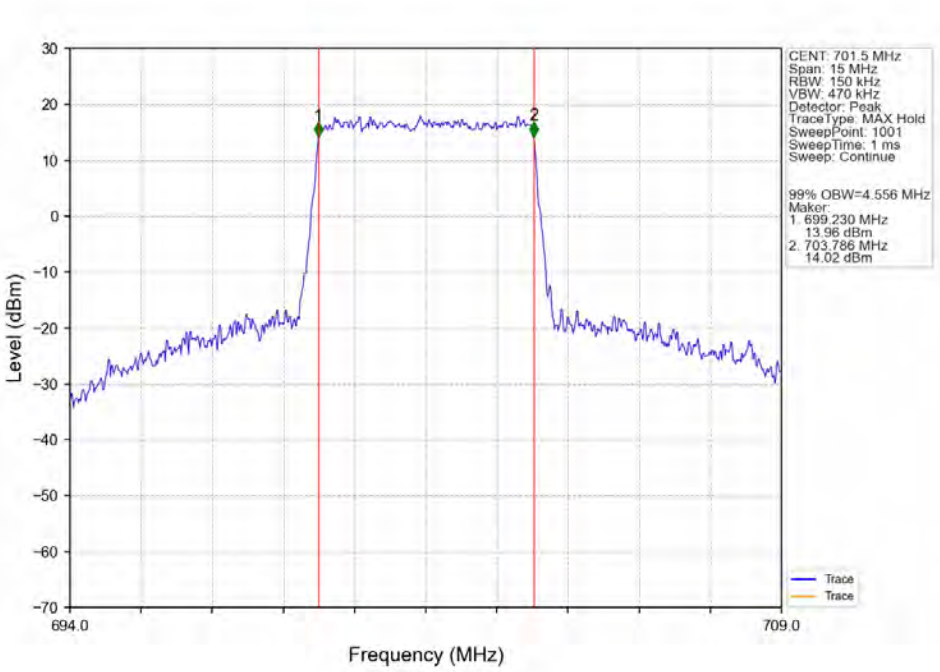
|  |
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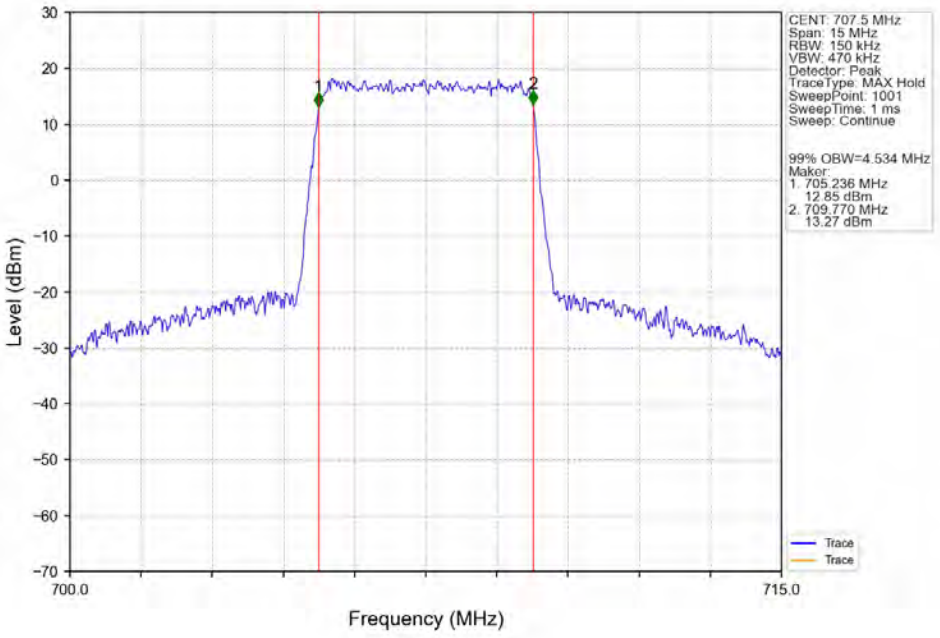
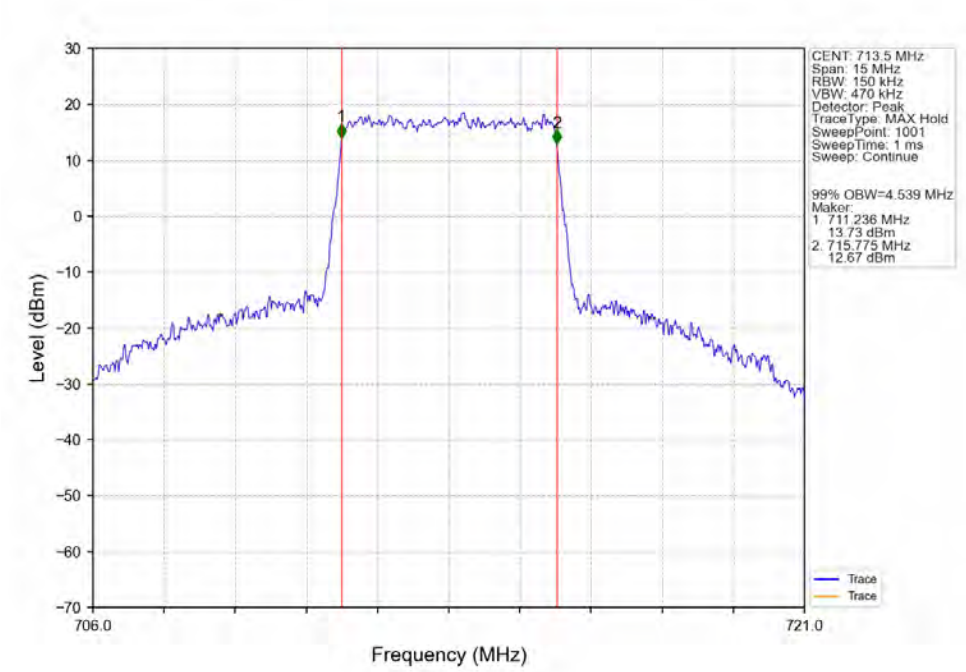
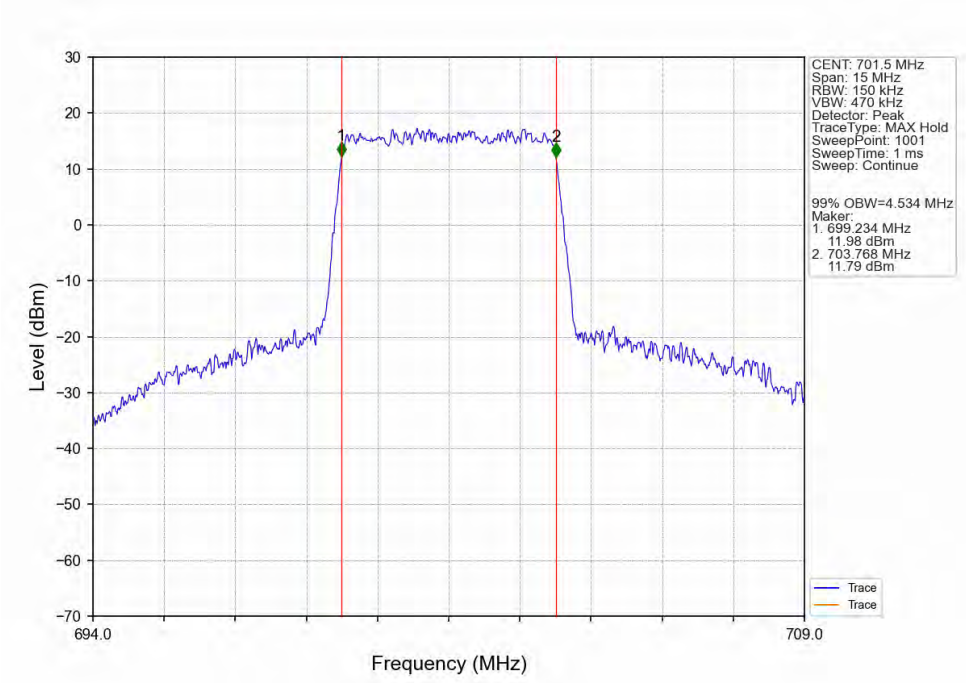
|  |

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV




Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



| Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV |
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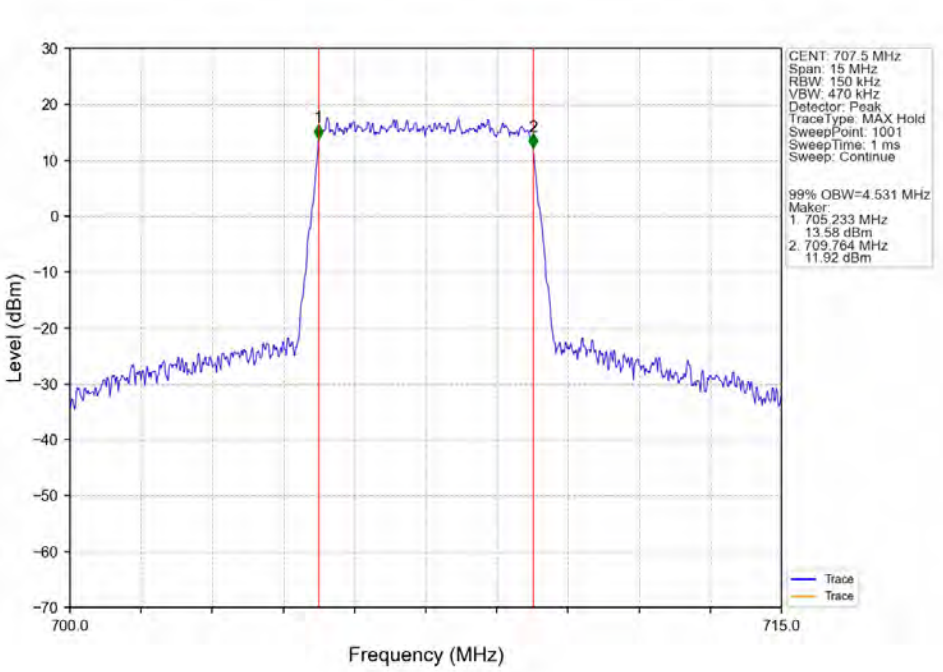
|  |



| Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV |
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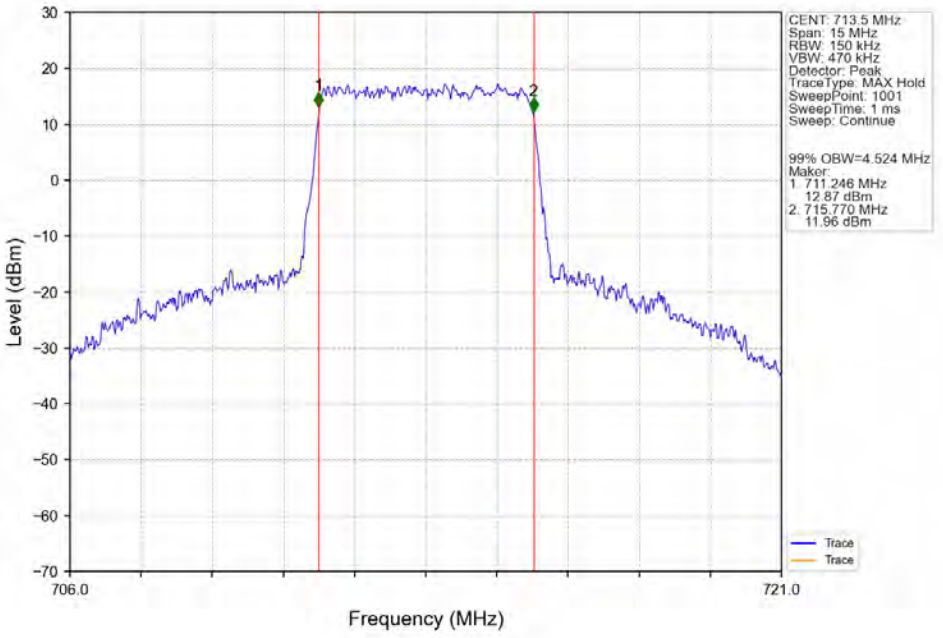
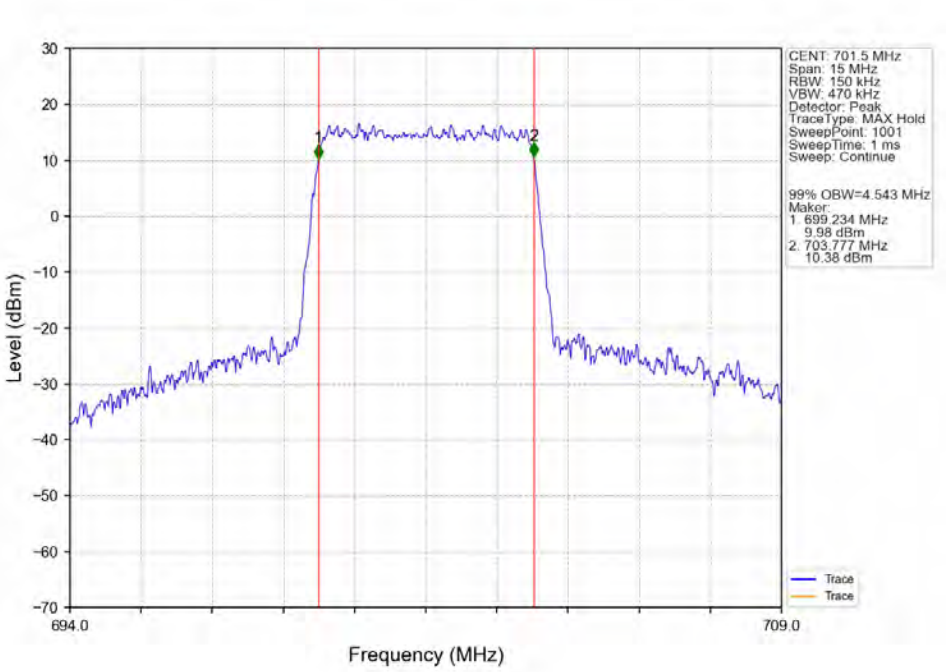
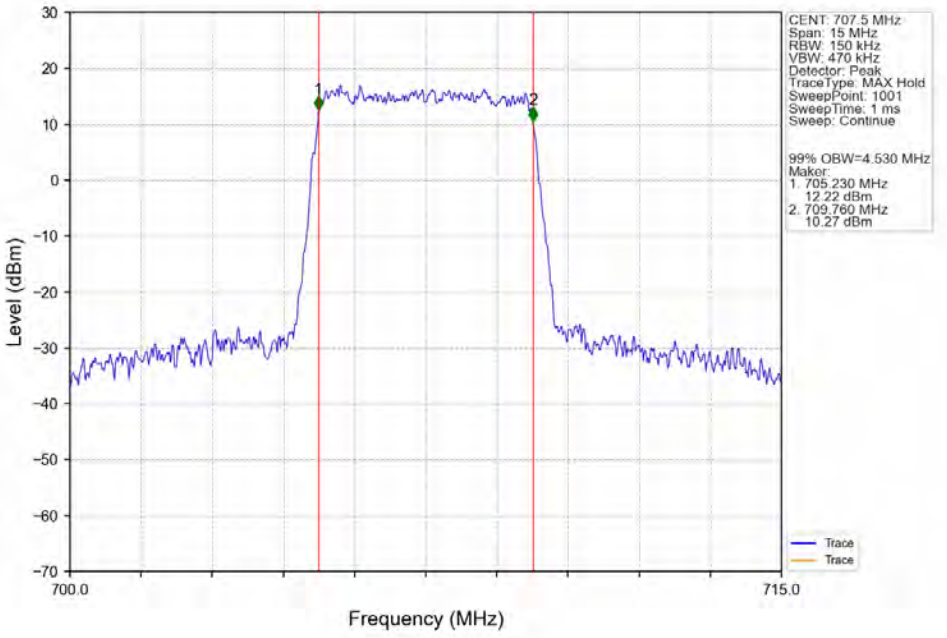
|  |

Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV




Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



| Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV |
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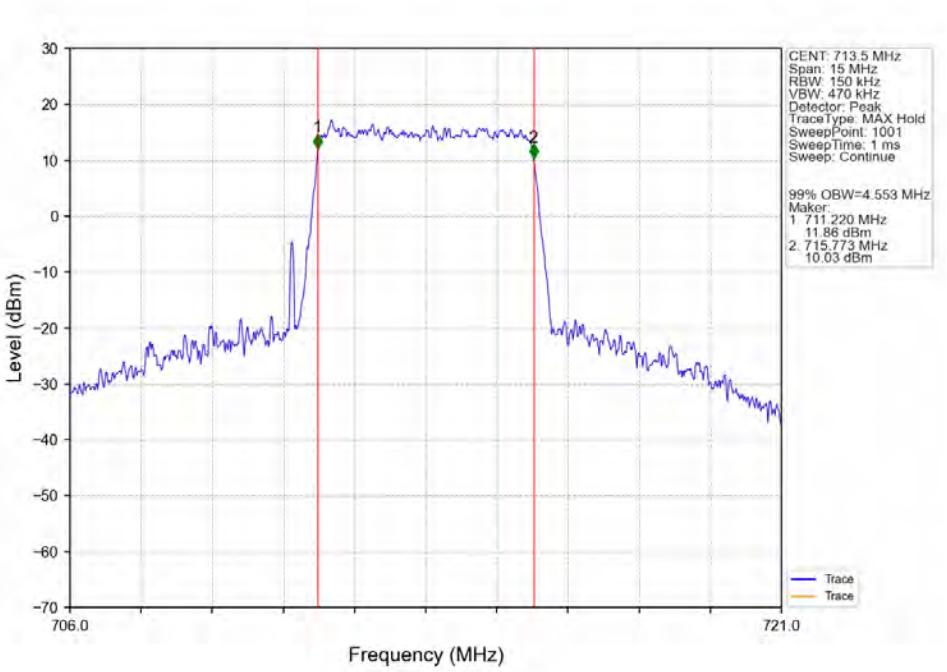
|  |



| Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV |
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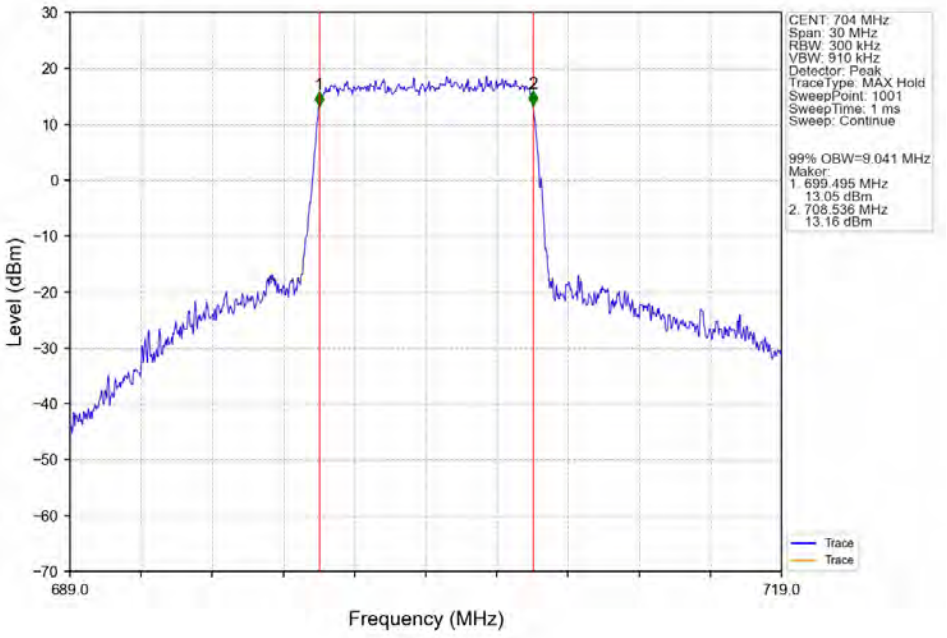
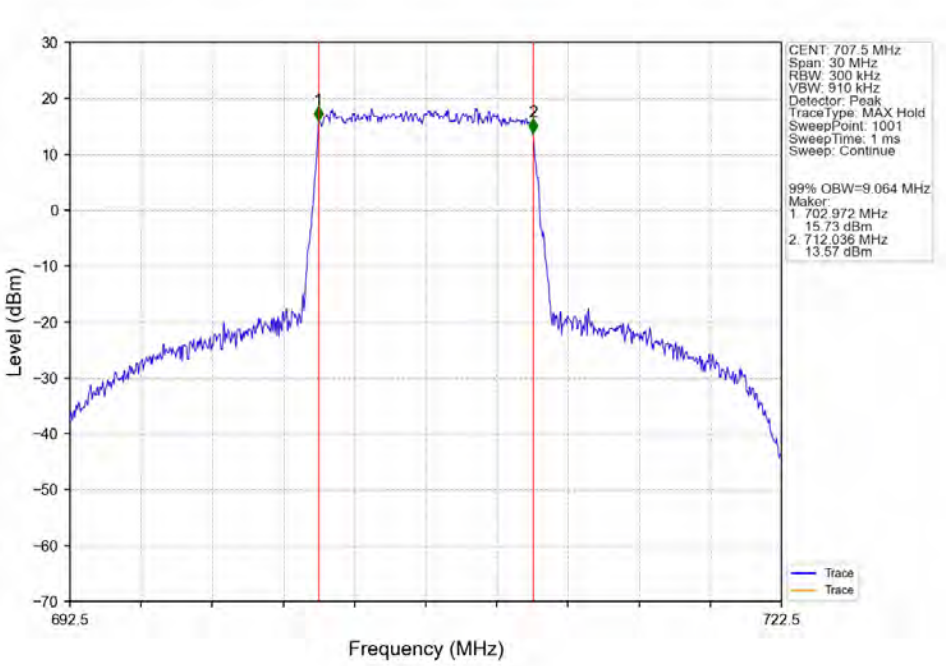
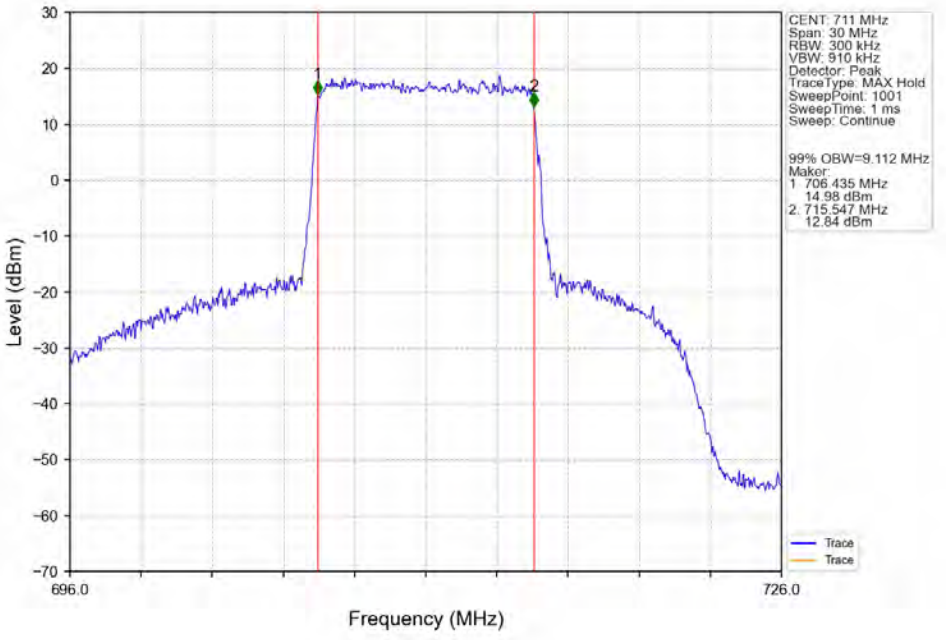
|  |

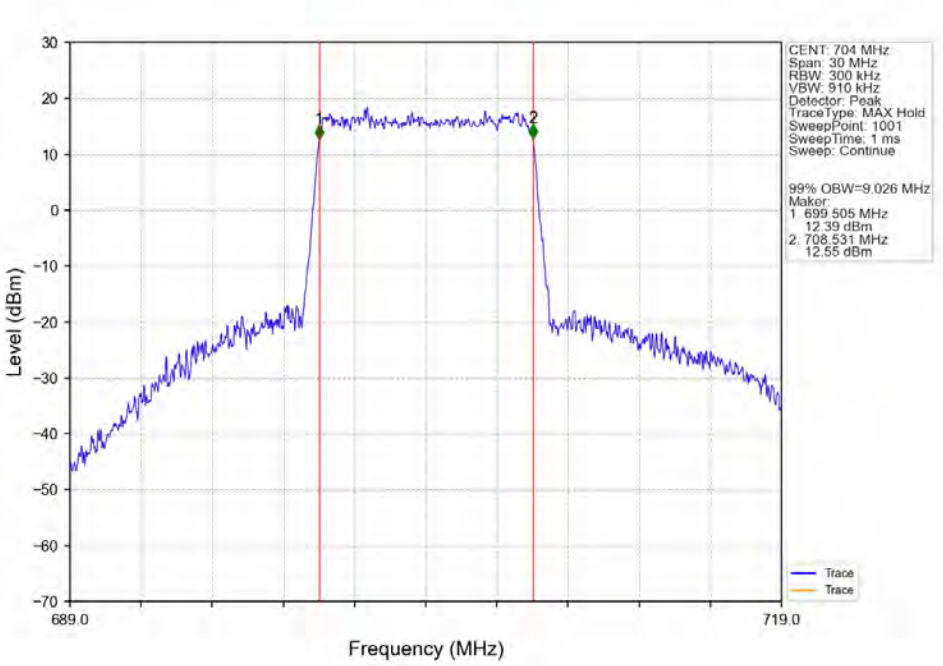
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



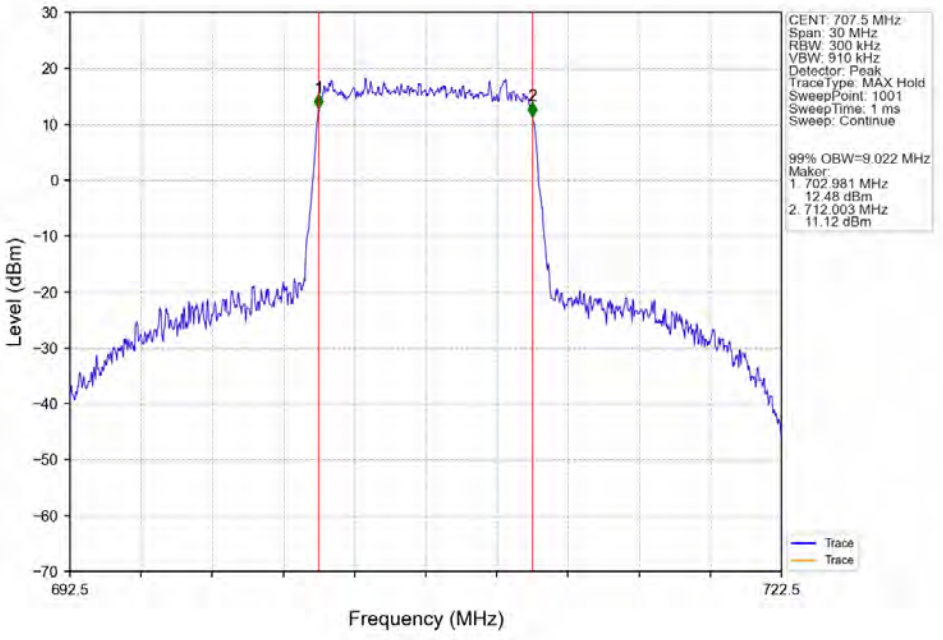

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



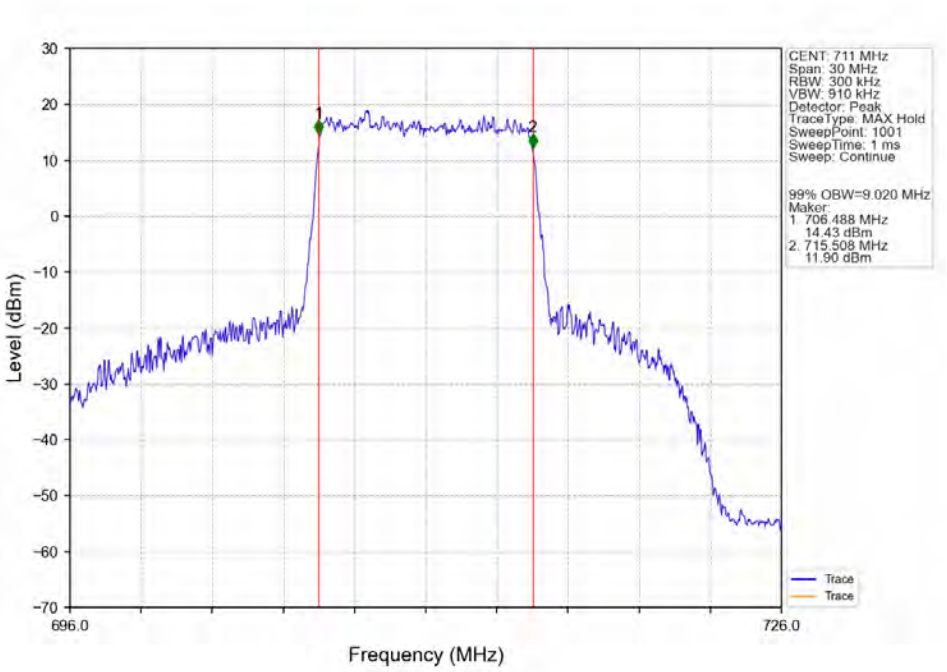
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



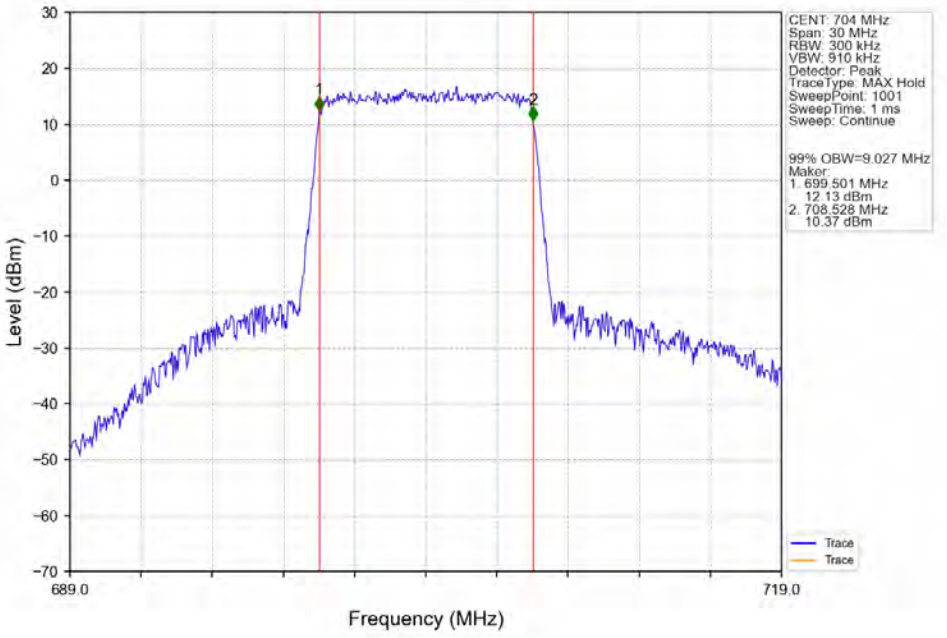

Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



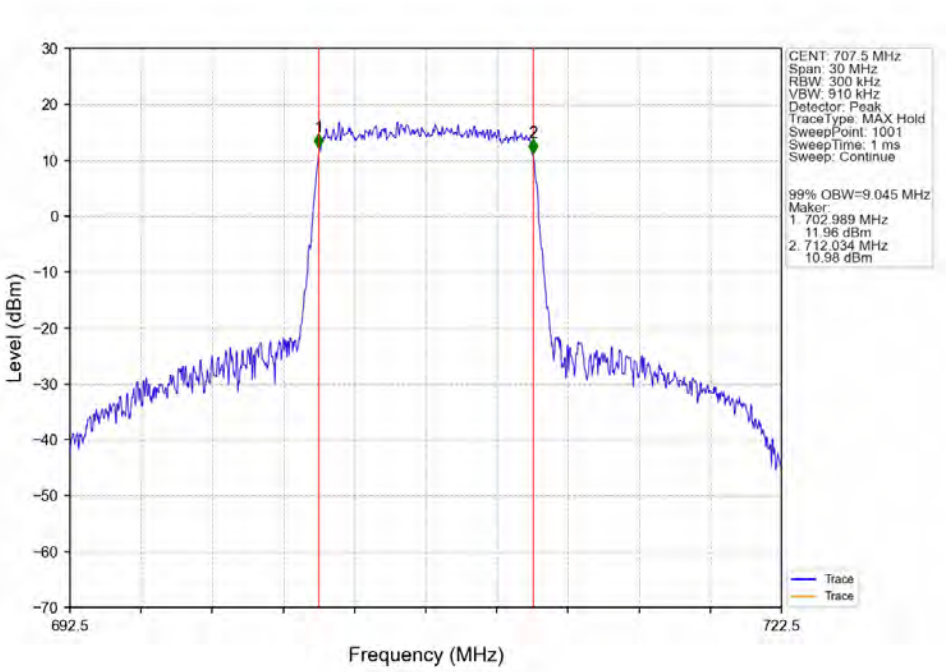
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



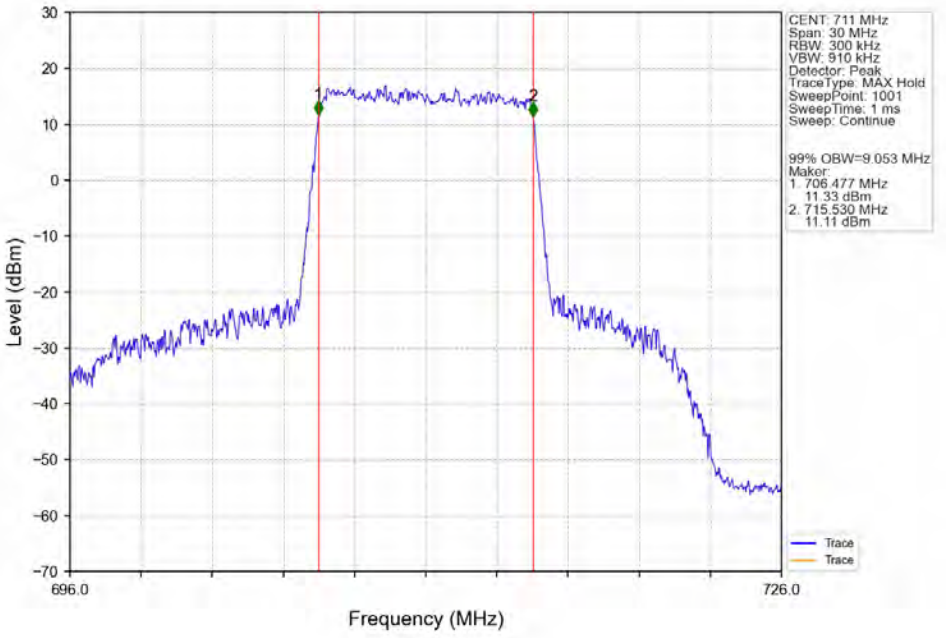

Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV




Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



## 3.2.2 Band12_XDB

| Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV |
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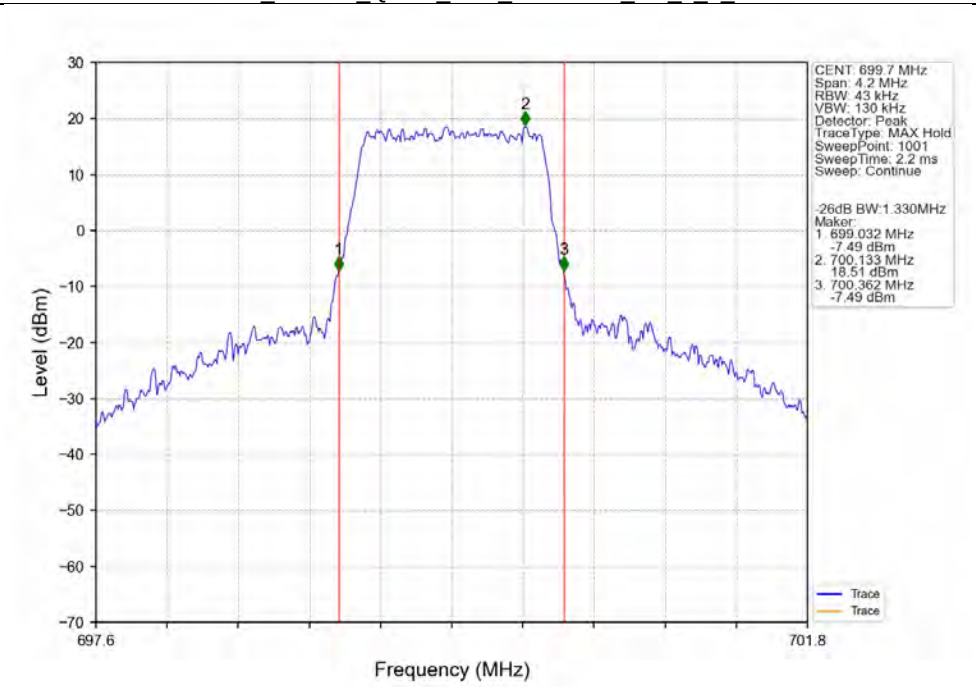
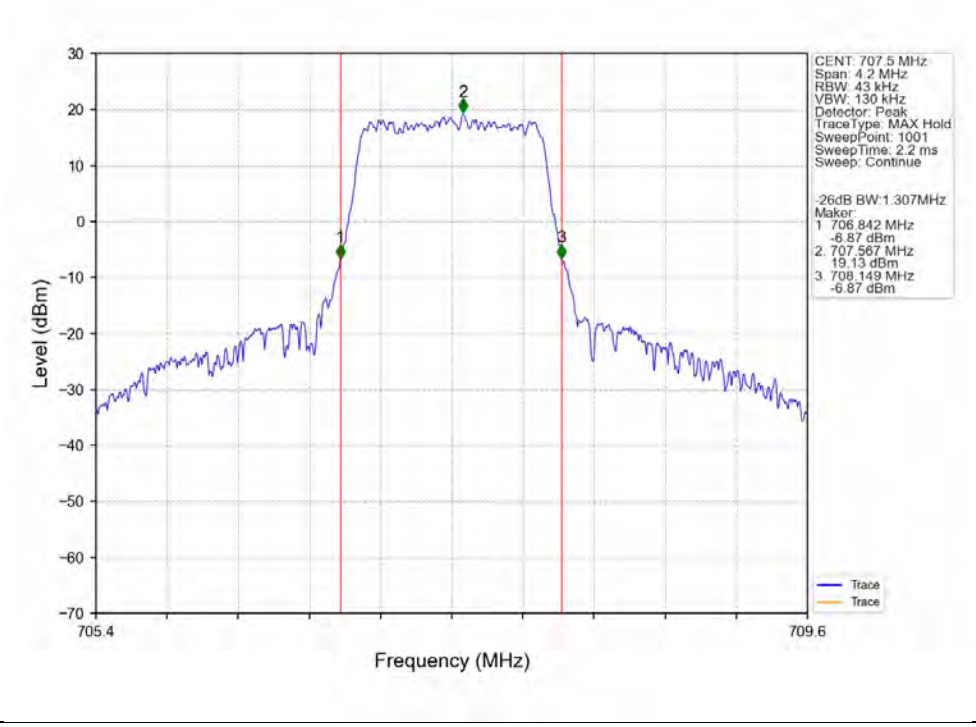
|  |
| Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV |
|  |

| Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV |
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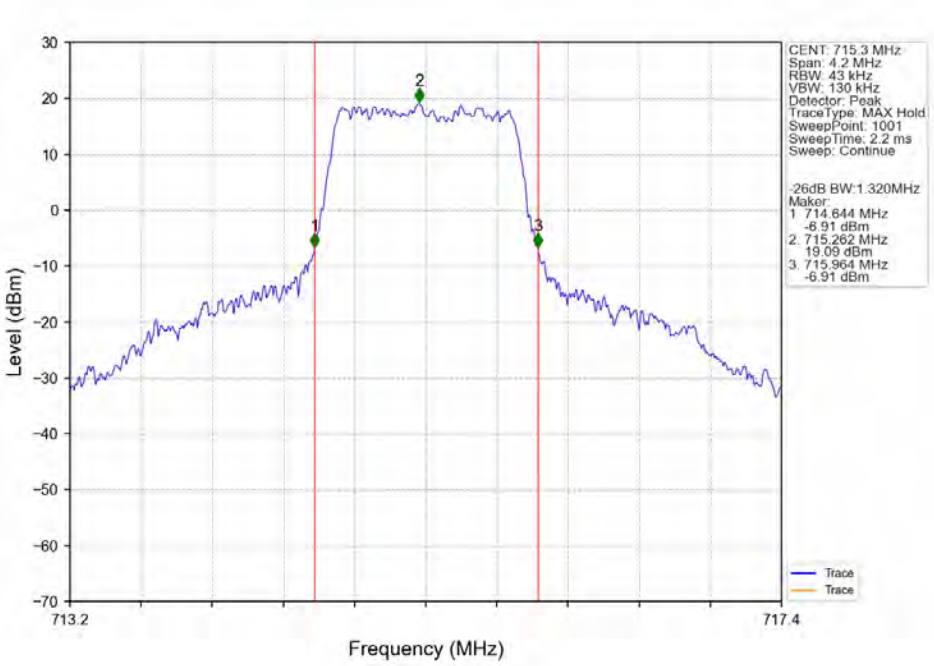
|  |



| Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV |
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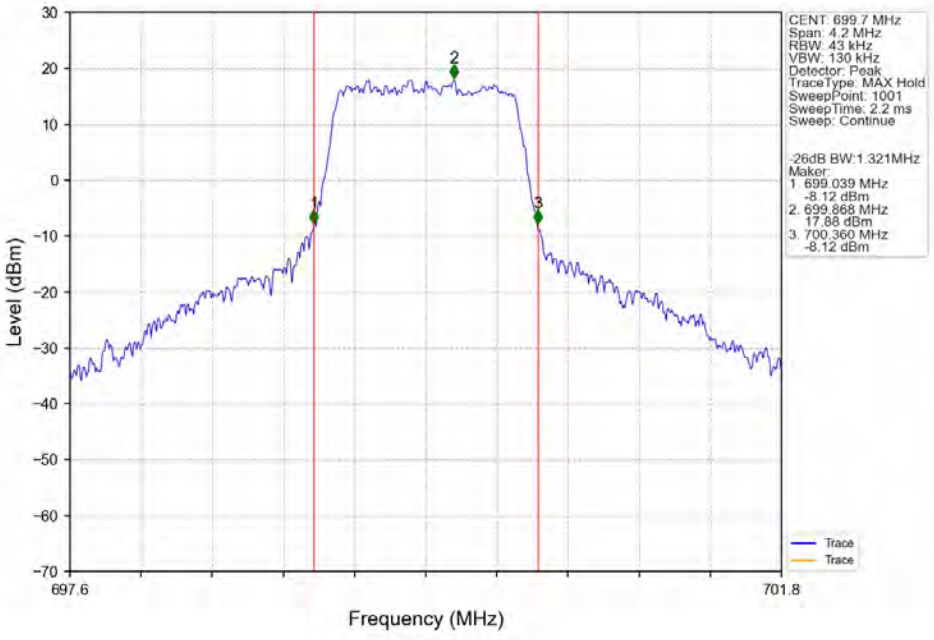
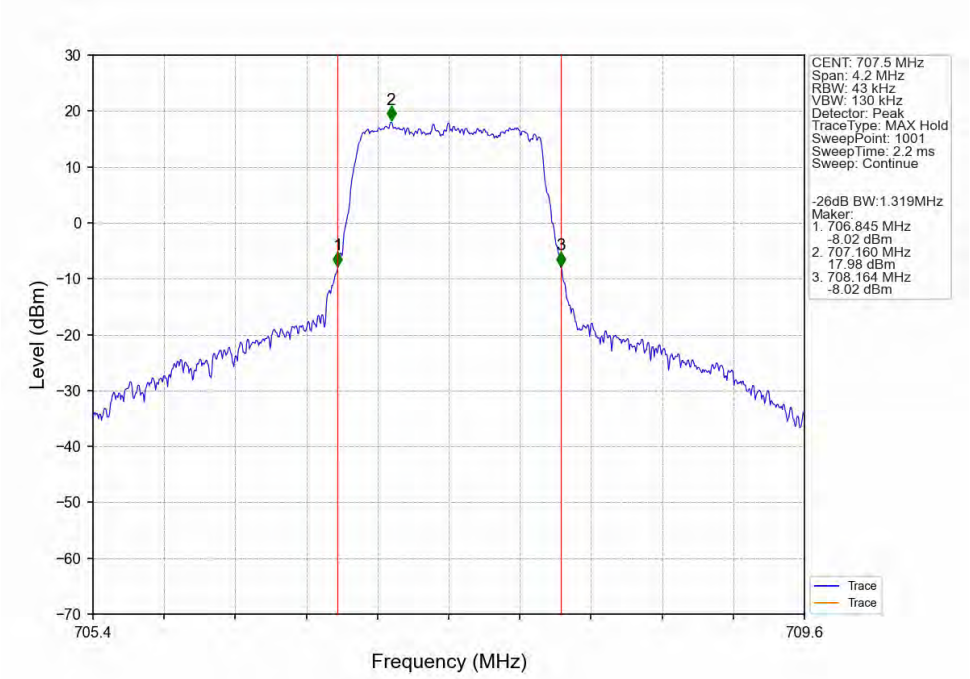
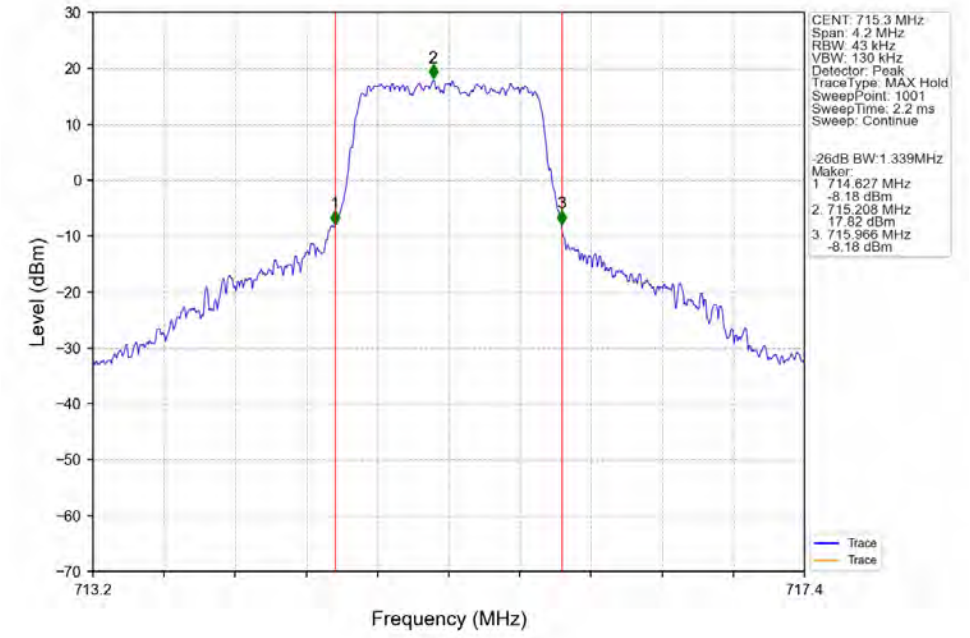
|  |

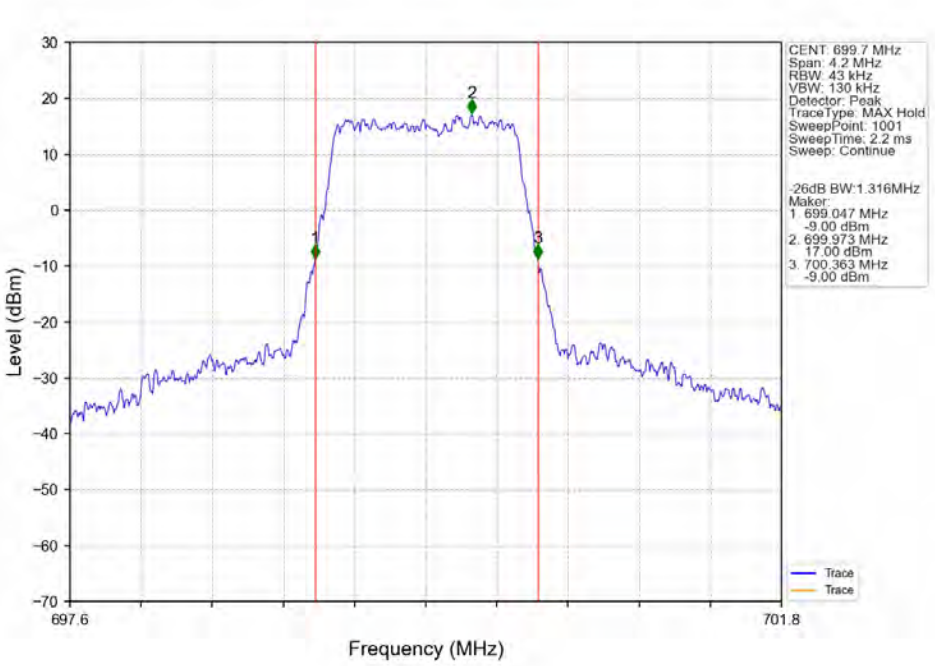
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



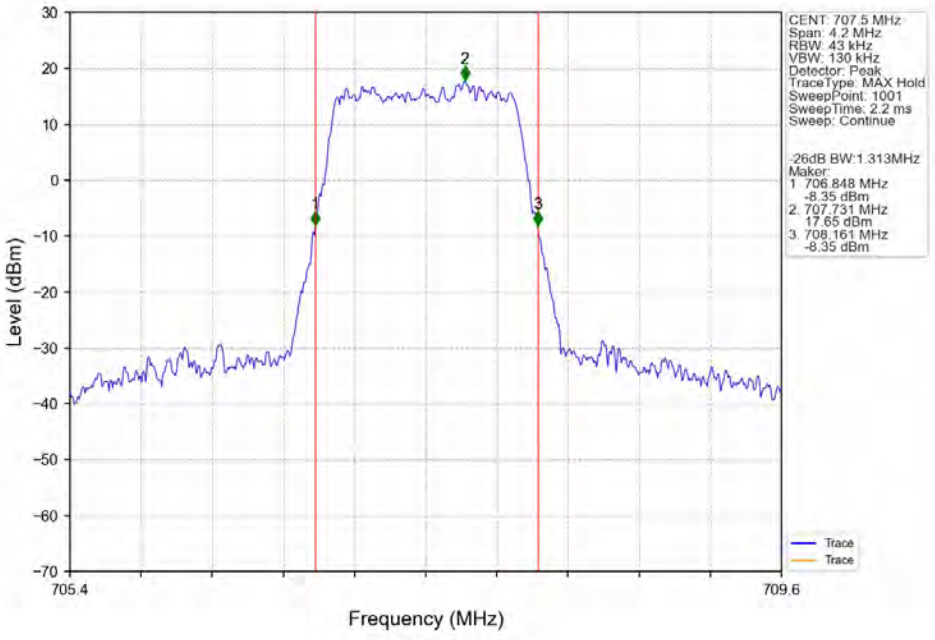

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



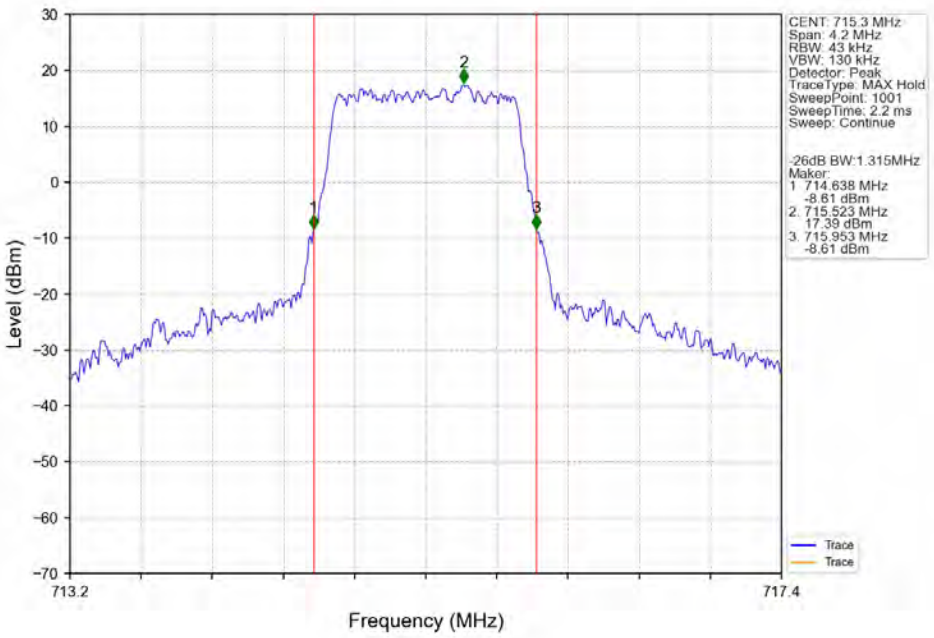
Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV



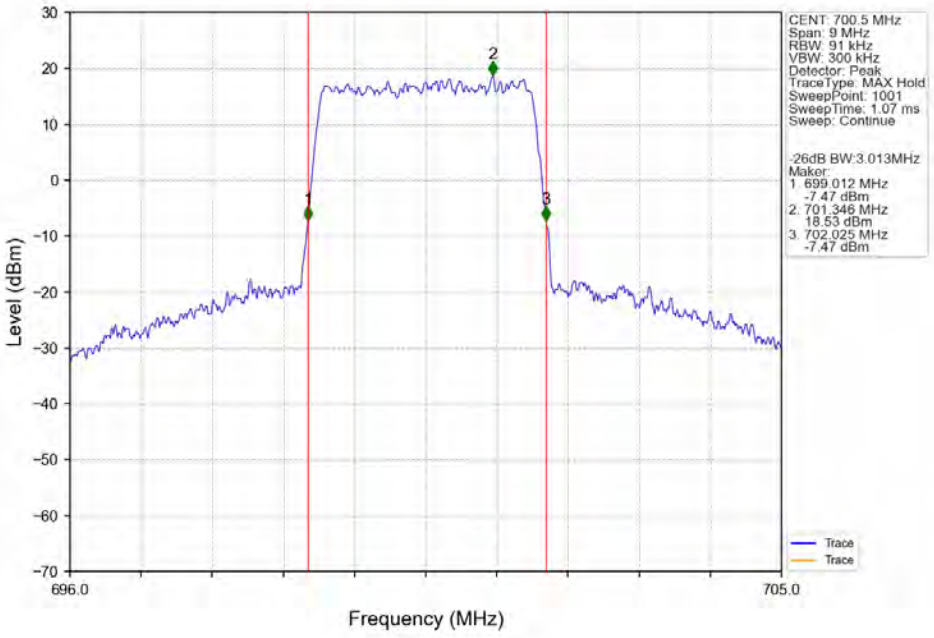

Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



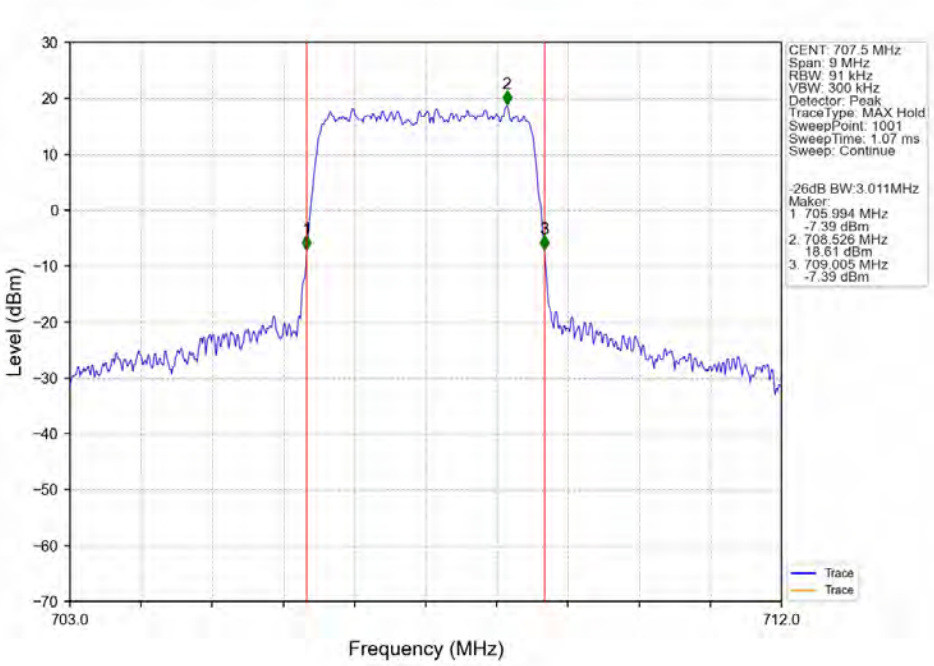
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



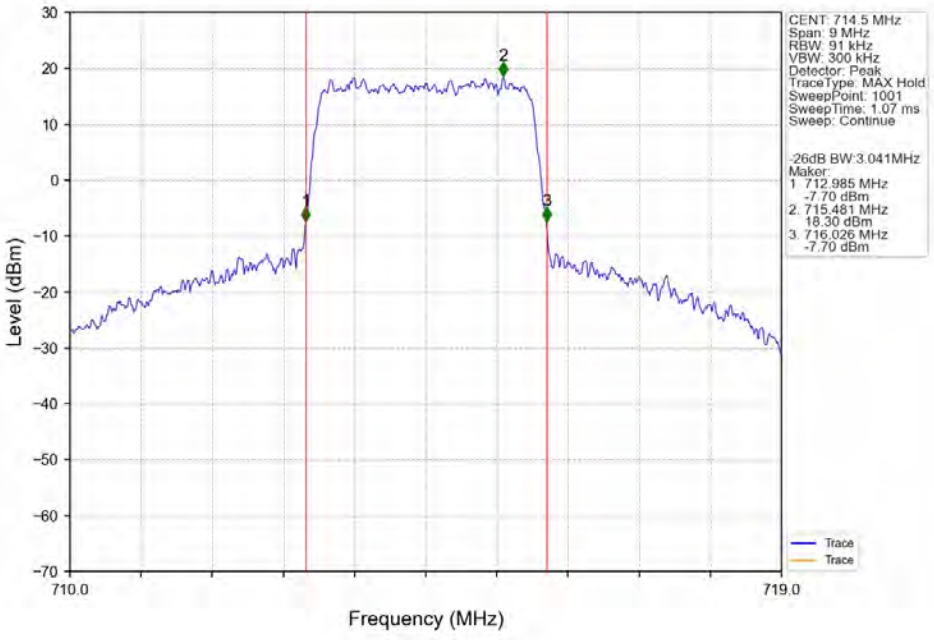

Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



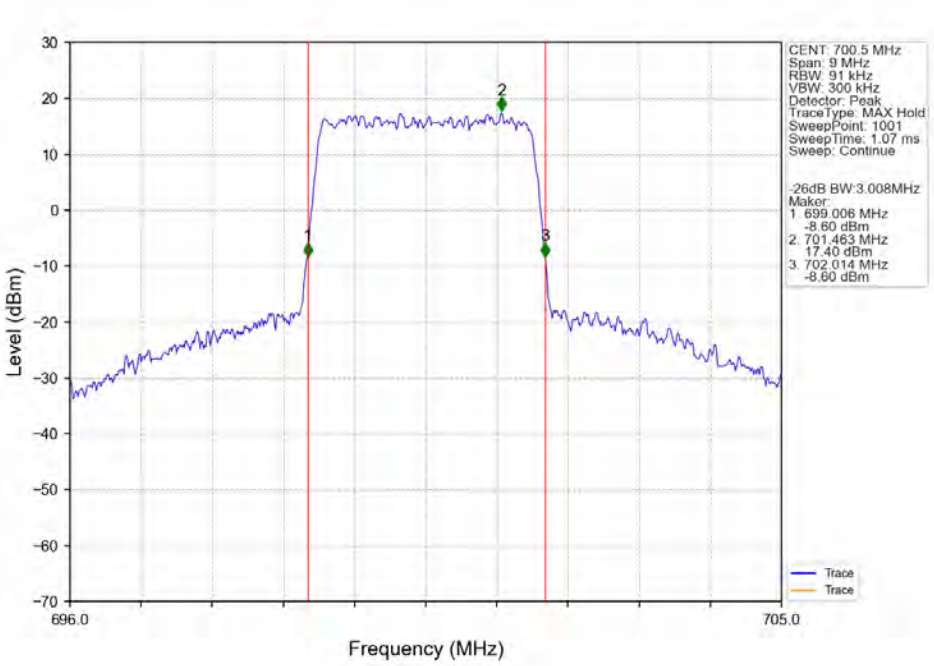
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



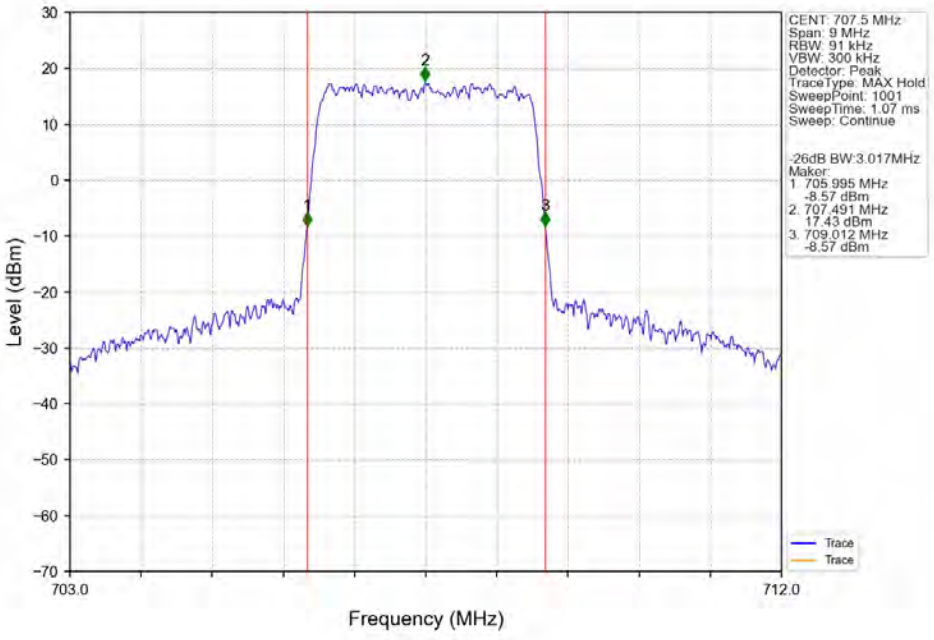

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



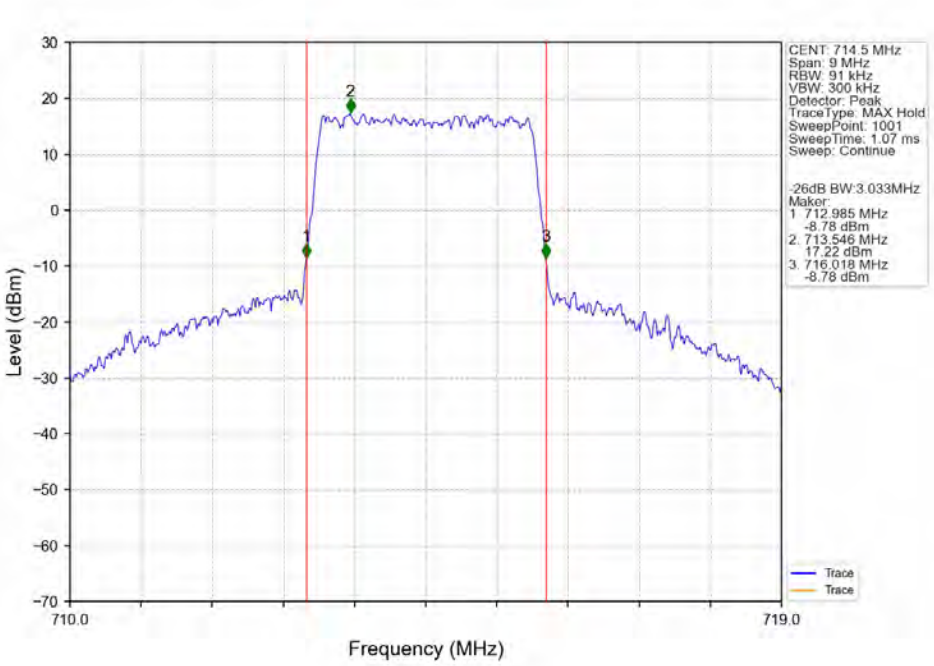
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



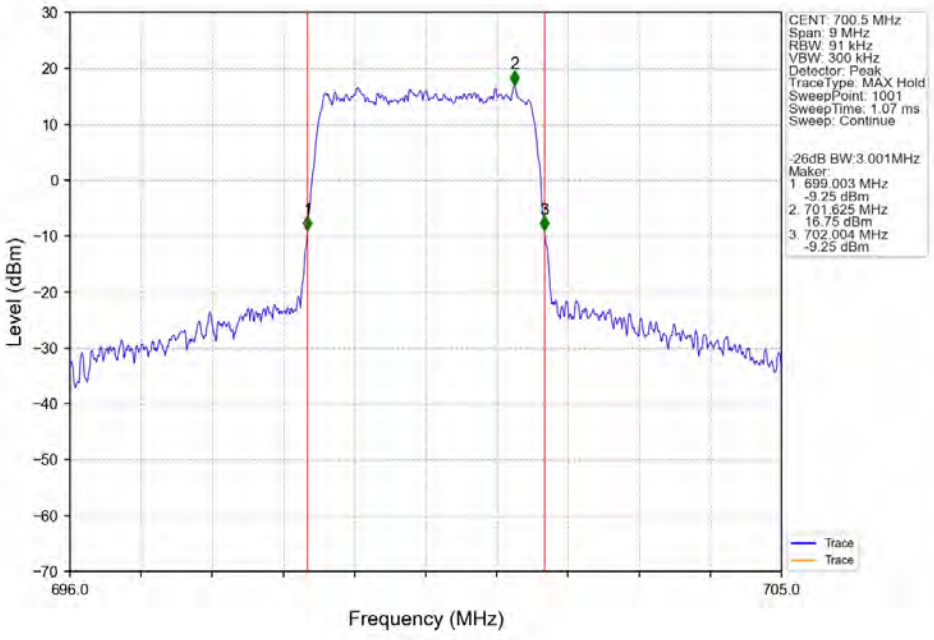

Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



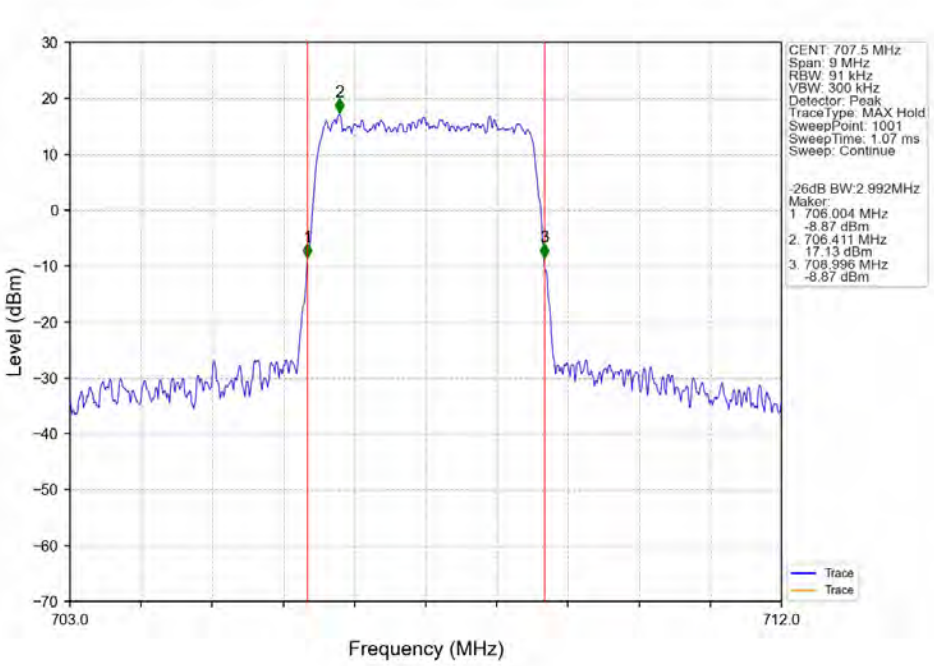
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



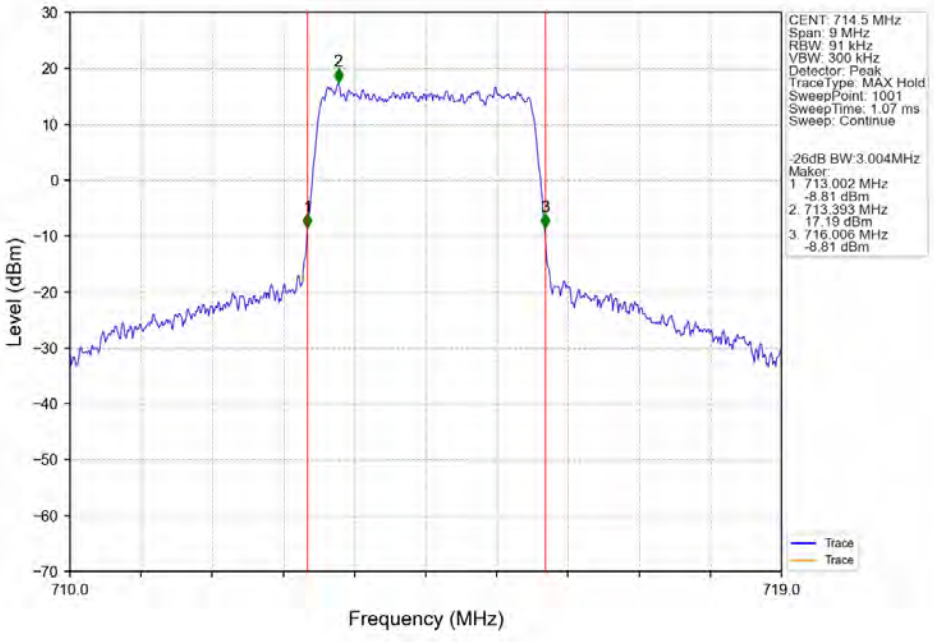

Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



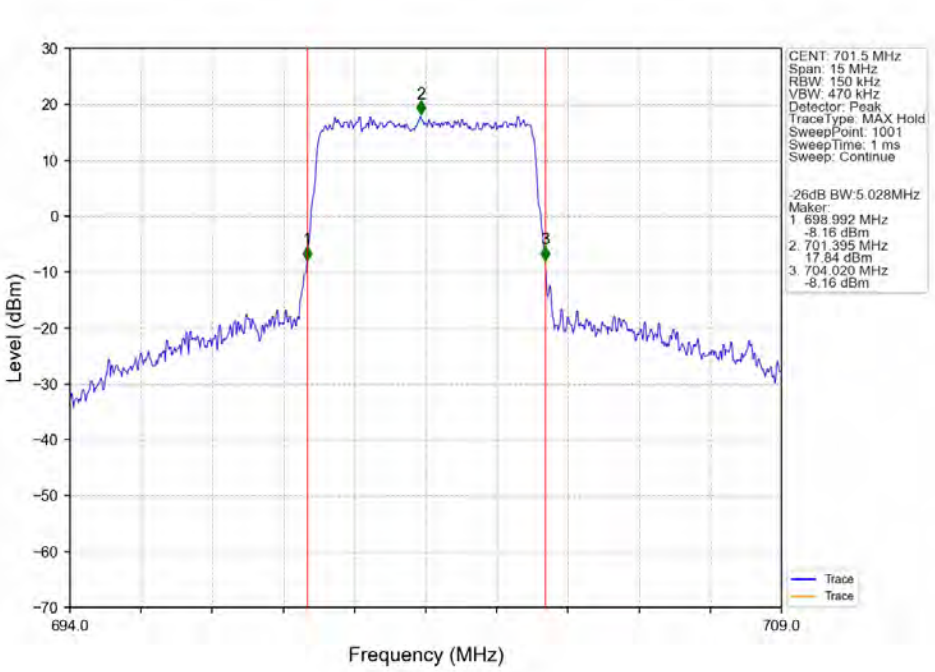
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



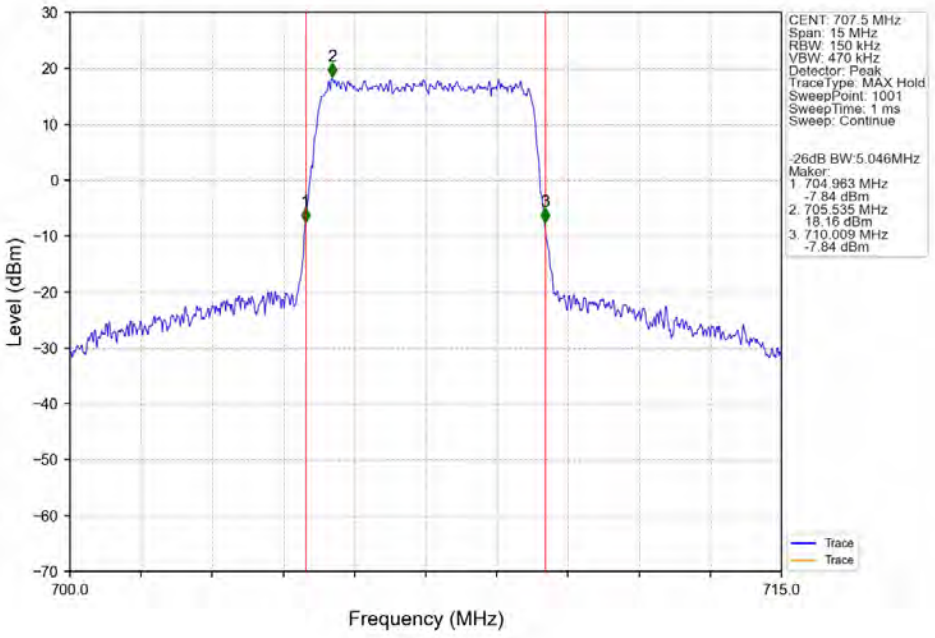

Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV

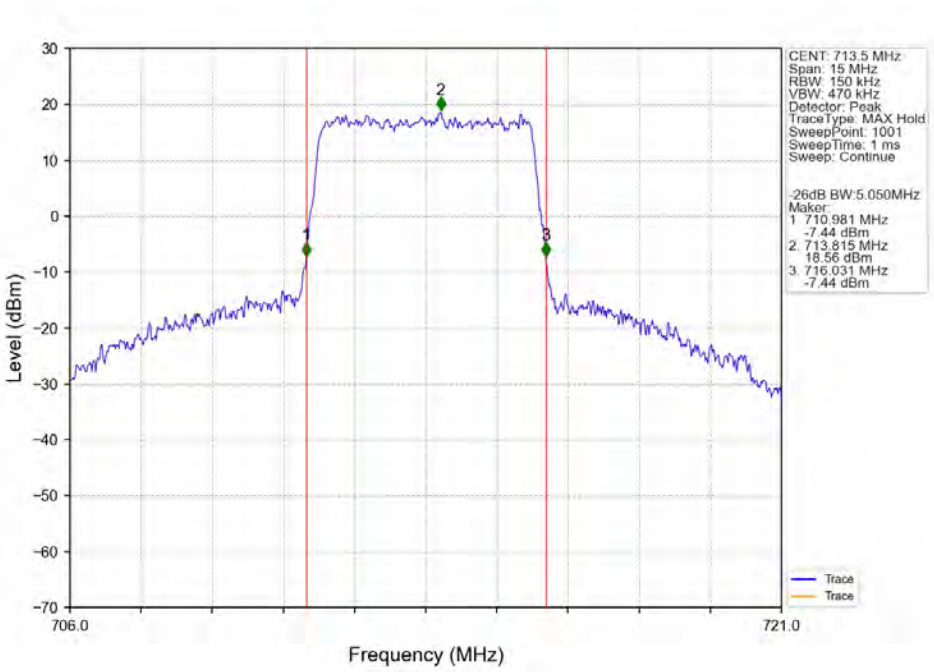
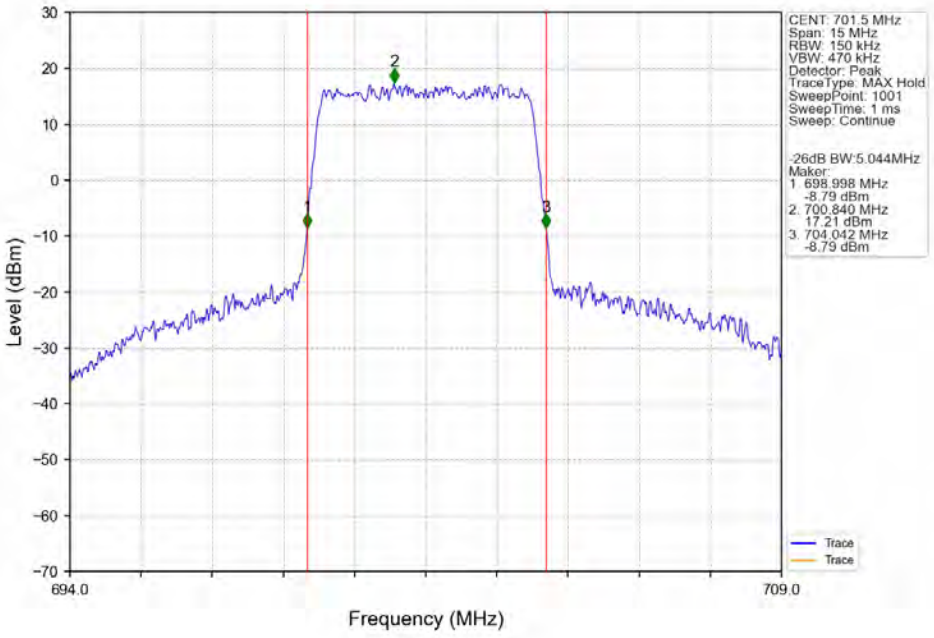


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

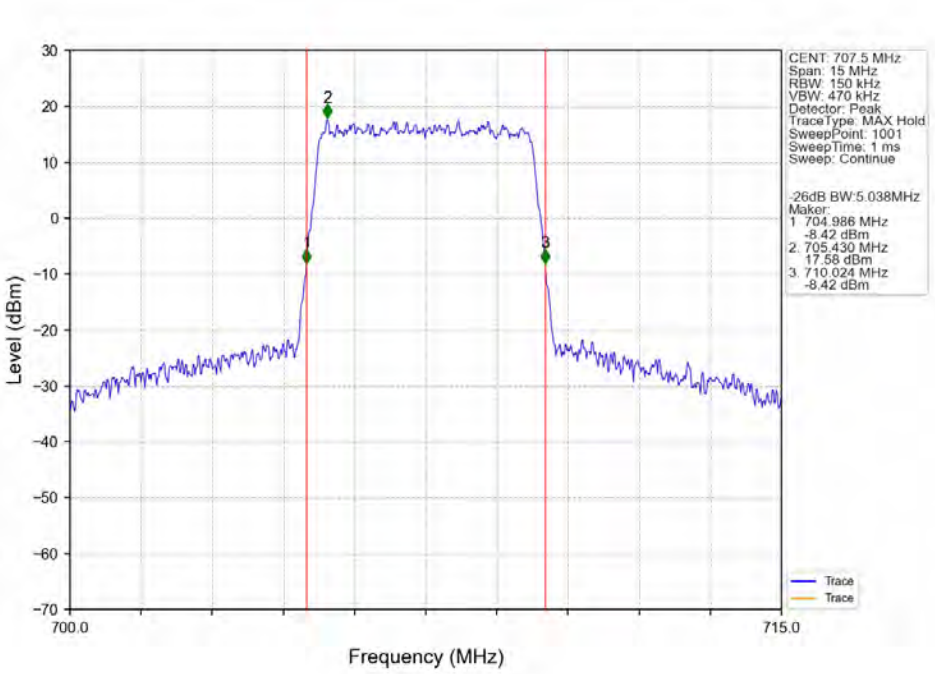



Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

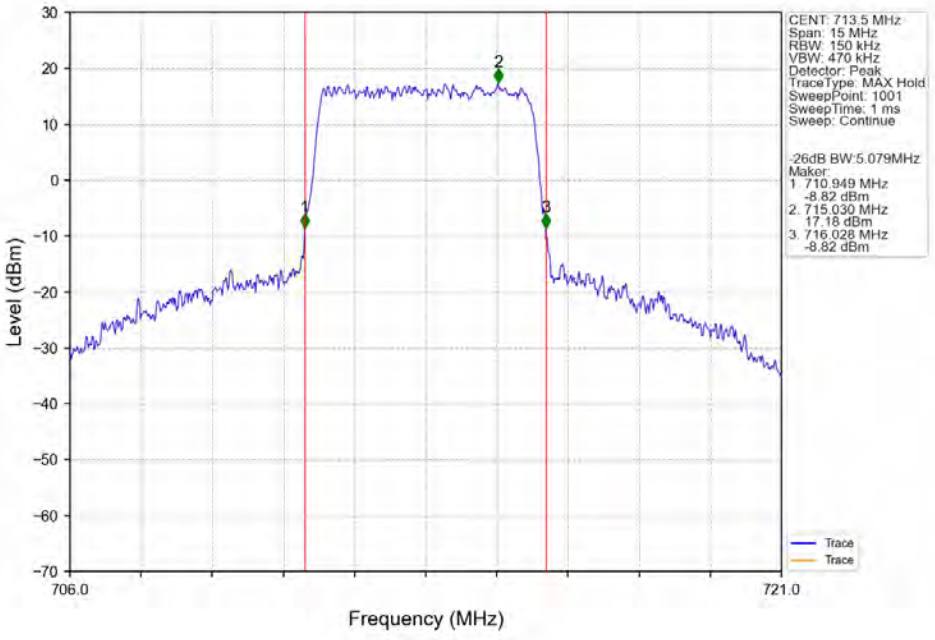


| Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV |
| --- |
|  |
| Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV |
|  |

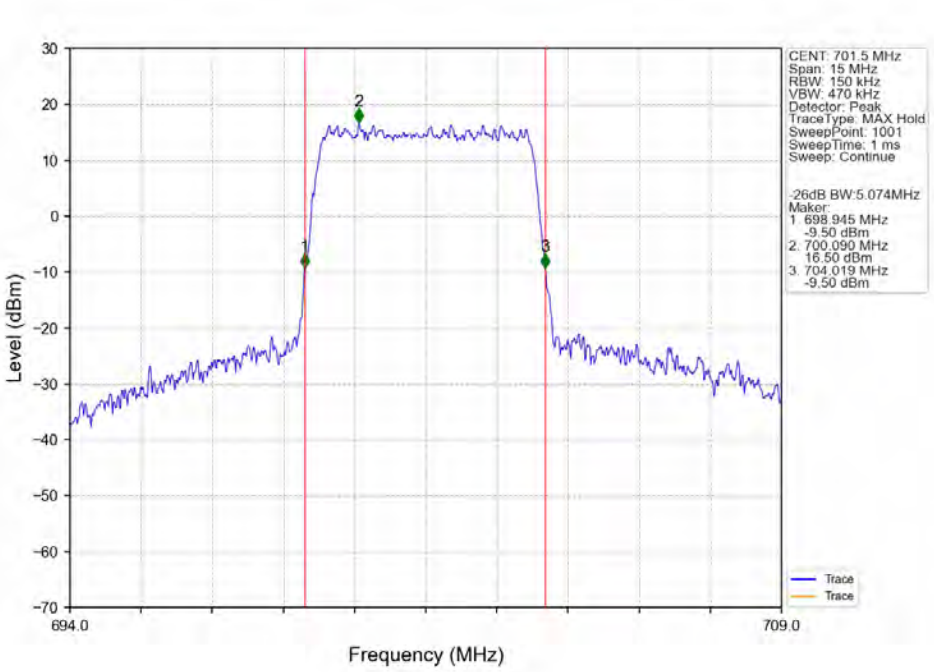
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



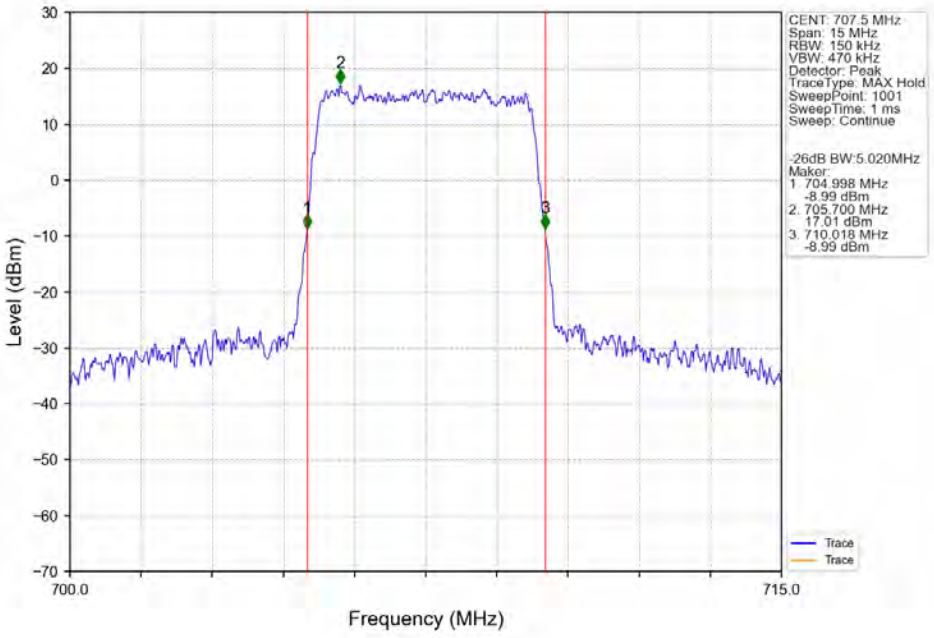

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



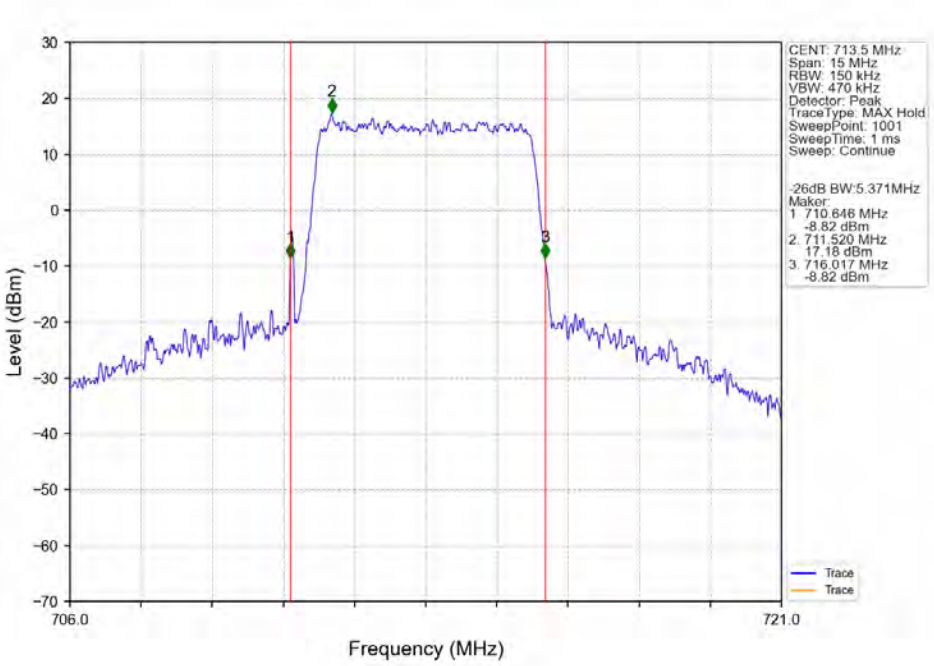
Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



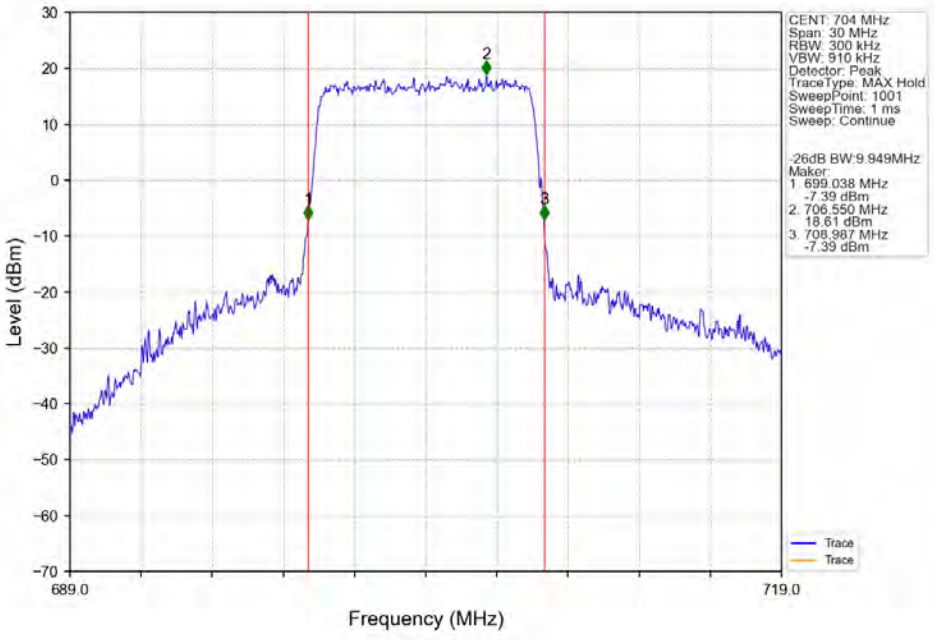

Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



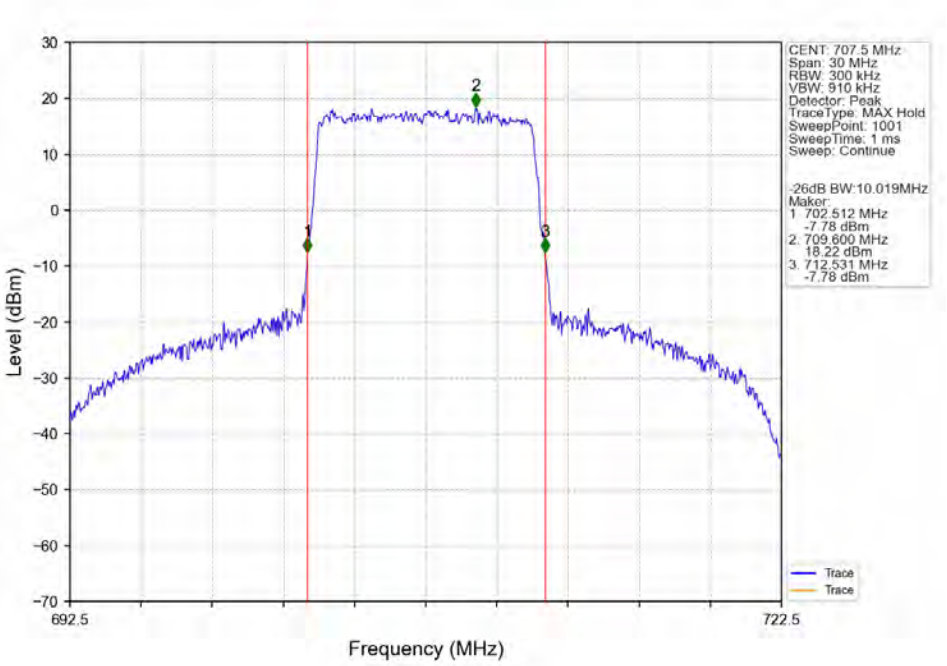
Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



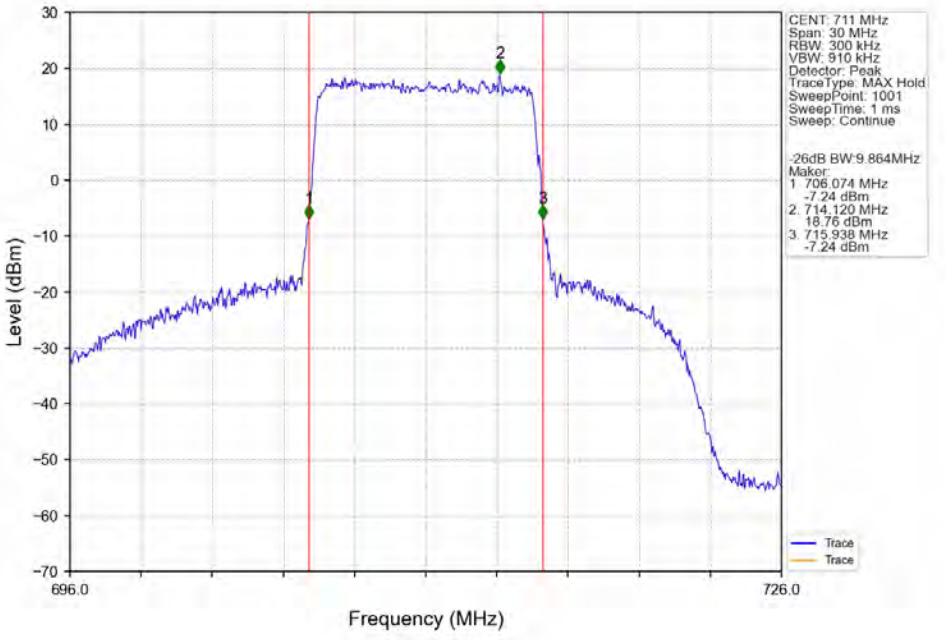

Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

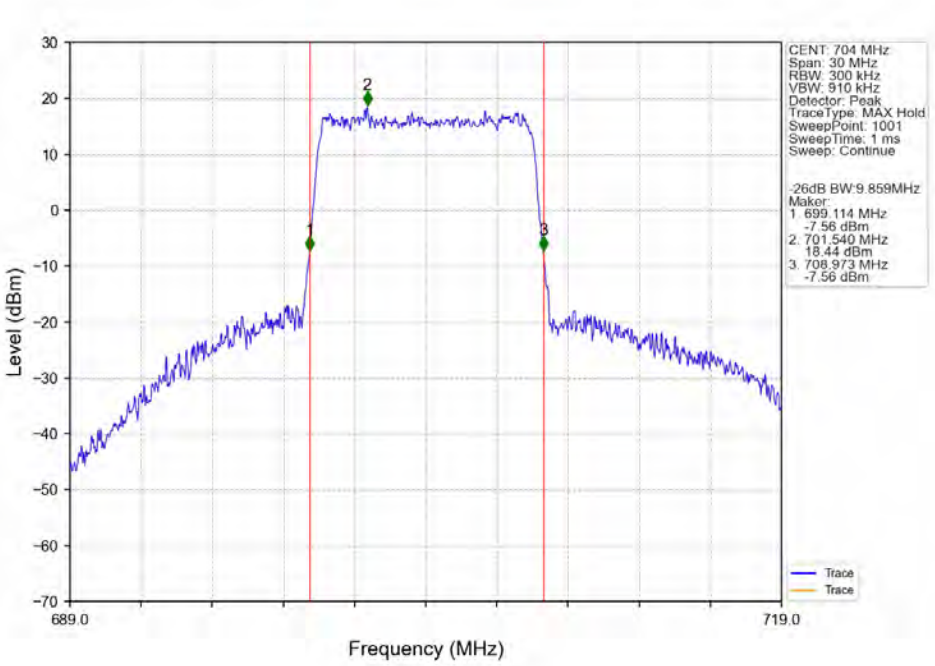
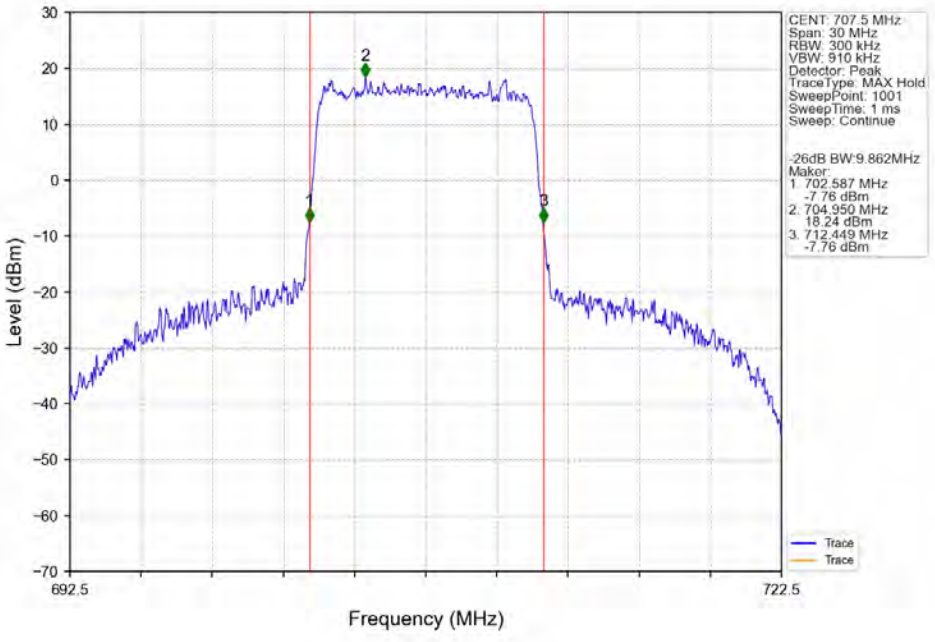


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

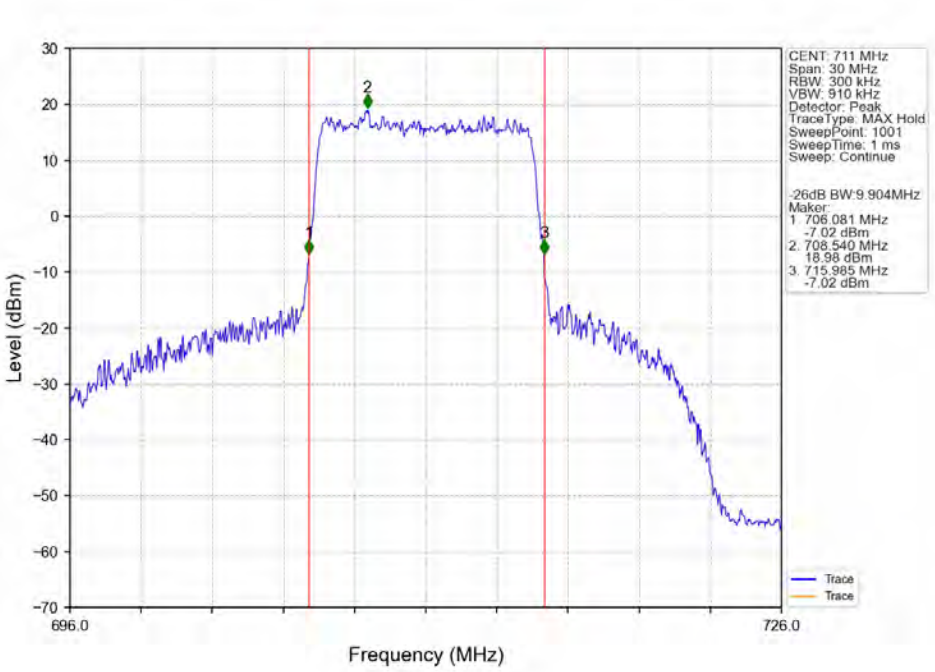



Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

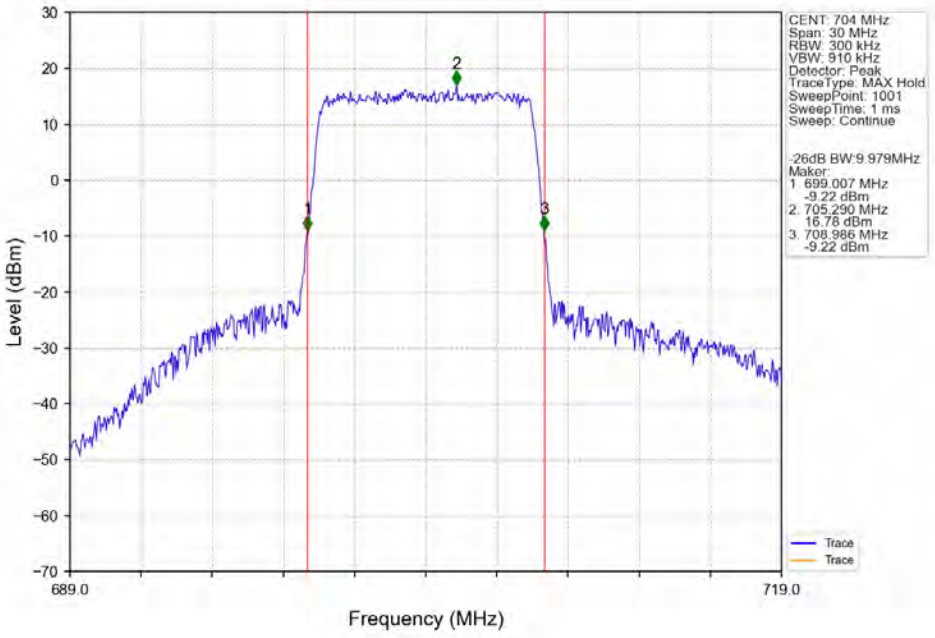


| Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV |
| --- |
|  |
| Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV |
|  |

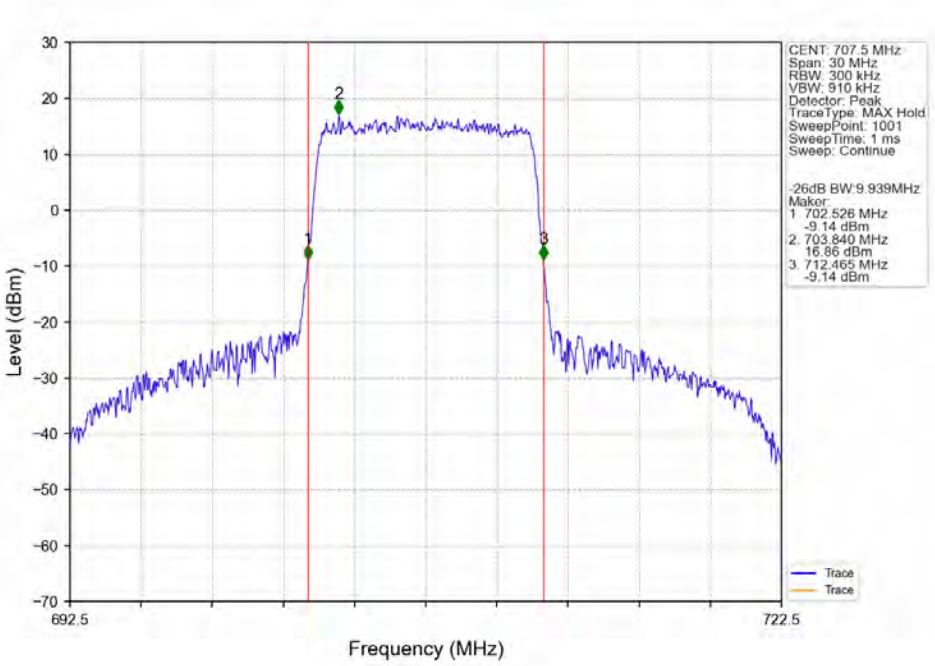
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



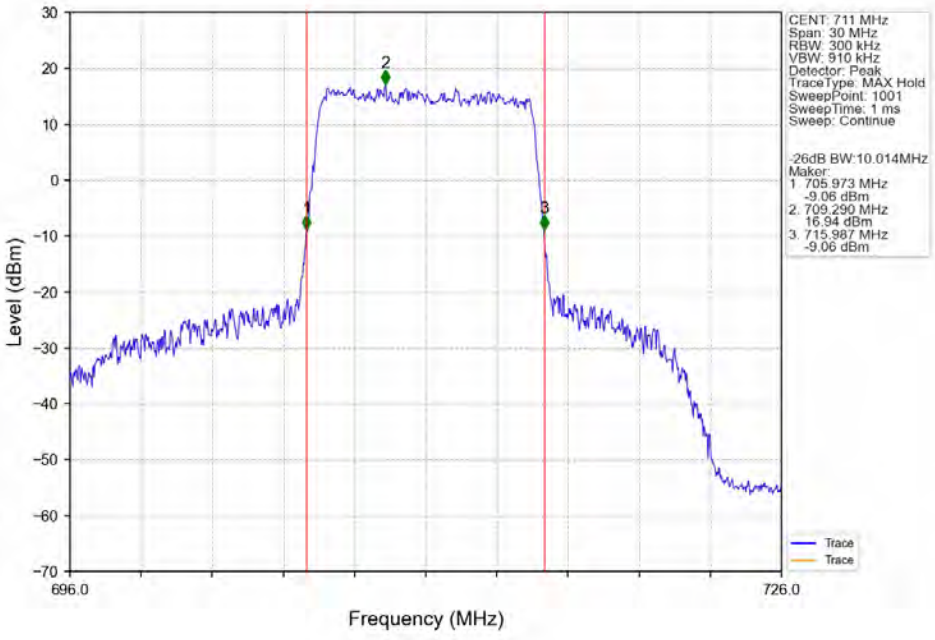

Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV




Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



# 4. Peak-Average Ratio

## 4.1 Test Result

### 4.1.1 B12_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 699.7 | 6 | 0 | 4.91 | <=13 | Pass |
| | 707.5 | 6 | 0 | 5.44 | <=13 | Pass |
| | 715.3 | 6 | 0 | 4.51 | <=13 | Pass |
| 16QAM | 699.7 | 6 | 0 | 5.71 | <=13 | Pass |
| | 707.5 | 6 | 0 | 6.23 | <=13 | Pass |
| | 715.3 | 6 | 0 | 5.31 | <=13 | Pass |
| 64QAM | 699.7 | 6 | 0 | 6.22 | <=13 | Pass |
| | 707.5 | 6 | 0 | 6.56 | <=13 | Pass |
| | 715.3 | 6 | 0 | 5.85 | <=13 | Pass |

### 4.1.2 B12_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 700.5 | 15 | 0 | 5.03 | <=13 | Pass |
| | 707.5 | 15 | 0 | 5.49 | <=13 | Pass |
| | 714.5 | 15 | 0 | 4.71 | <=13 | Pass |
| 16QAM | 700.5 | 15 | 0 | 5.89 | <=13 | Pass |
| | 707.5 | 15 | 0 | 6.30 | <=13 | Pass |
| | 714.5 | 15 | 0 | 5.51 | <=13 | Pass |
| 64QAM | 700.5 | 15 | 0 | 6.28 | <=13 | Pass |
| | 707.5 | 15 | 0 | 6.54 | <=13 | Pass |
| | 714.5 | 15 | 0 | 5.96 | <=13 | Pass |

### 4.1.3 B12_5MHz

| Band: 12 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 701.5 | 25 | 0 | 5.15 | <=13 | Pass |
| | 707.5 | 25 | 0 | 5.49 | <=13 | Pass |
| | 713.5 | 25 | 0 | 5.05 | <=13 | Pass |
| 16QAM | 701.5 | 25 | 0 | 5.91 | <=13 | Pass |
| | 707.5 | 25 | 0 | 6.18 | <=13 | Pass |
| | 713.5 | 25 | 0 | 5.72 | <=13 | Pass |
| 64QAM | 701.5 | 25 | 0 | 6.33 | <=13 | Pass |
| | 707.5 | 25 | 0 | 6.50 | <=13 | Pass |
| | 713.5 | 25 | 0 | 6.18 | <=13 | Pass |

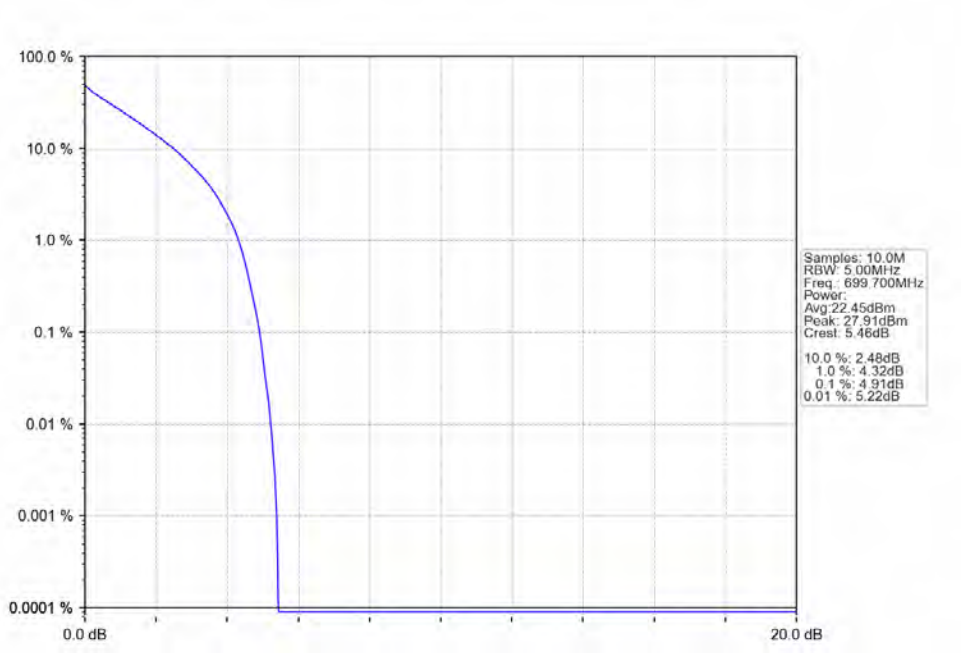
### 4.1.4 B12_10MHz

| Band: 12 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 704 | 50 | 0 | 5.43 | <=13 | Pass |
| | 707.5 | 50 | 0 | 5.34 | <=13 | Pass |
| | 711 | 50 | 0 | 5.37 | <=13 | Pass |
| 16QAM | 704 | 50 | 0 | 6.08 | <=13 | Pass |
| | 707.5 | 50 | 0 | 6.07 | <=13 | Pass |
| | 711 | 50 | 0 | 6.05 | <=13 | Pass |
| 64QAM | 704 | 50 | 0 | 6.42 | <=13 | Pass |
| | 707.5 | 50 | 0 | 6.38 | <=13 | Pass |
| | 711 | 50 | 0 | 6.40 | <=13 | Pass |

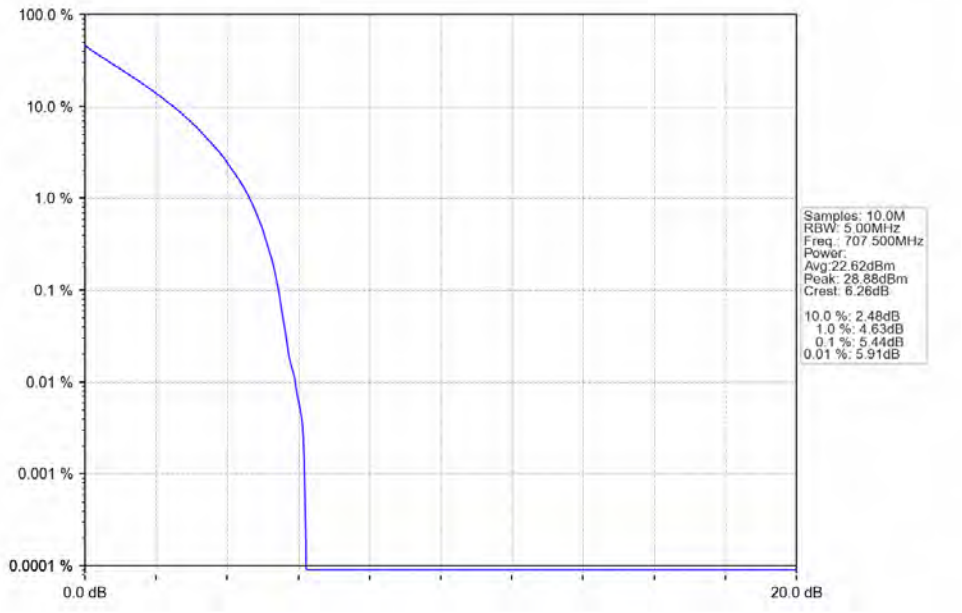
## 4.2 Test Graph

### 4.2.1 B12_1.4MHz

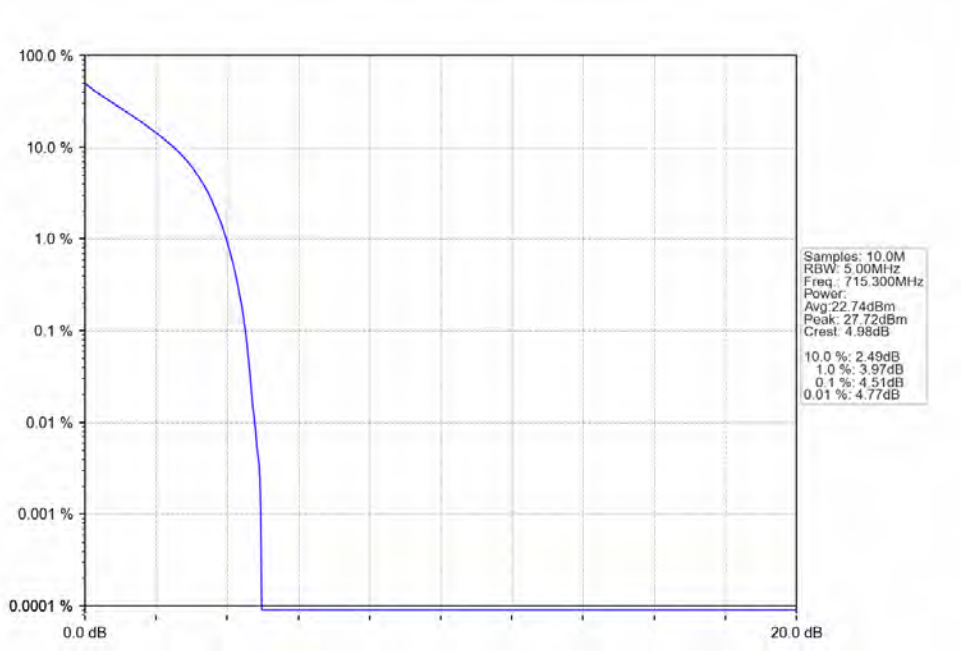
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



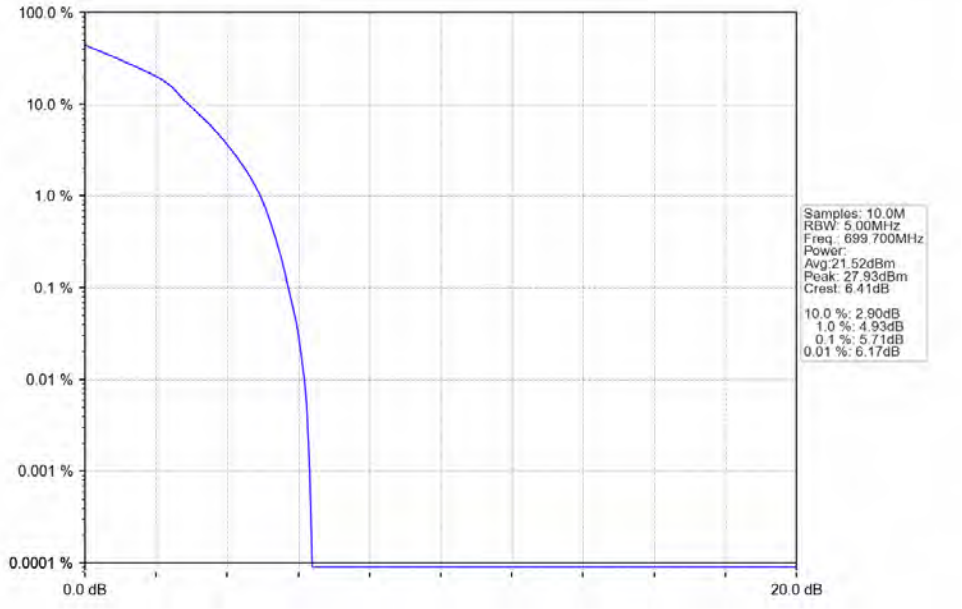

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



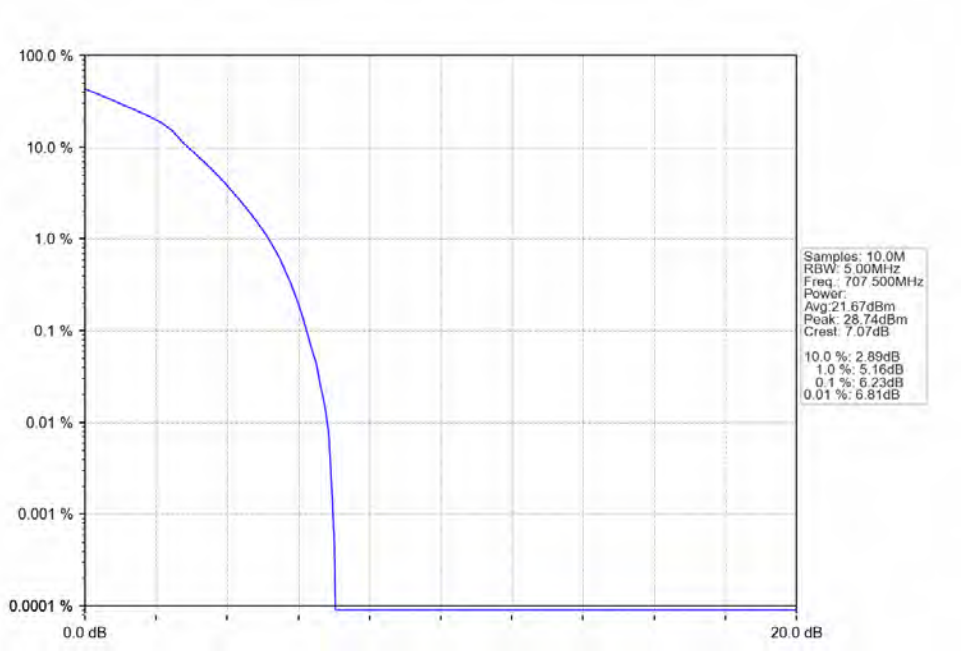
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



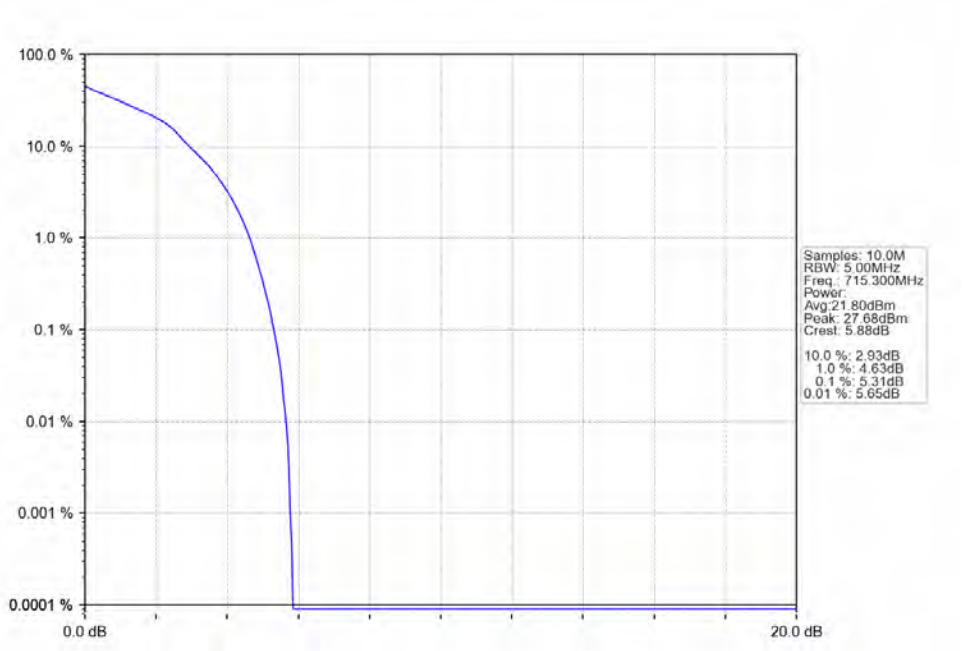

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



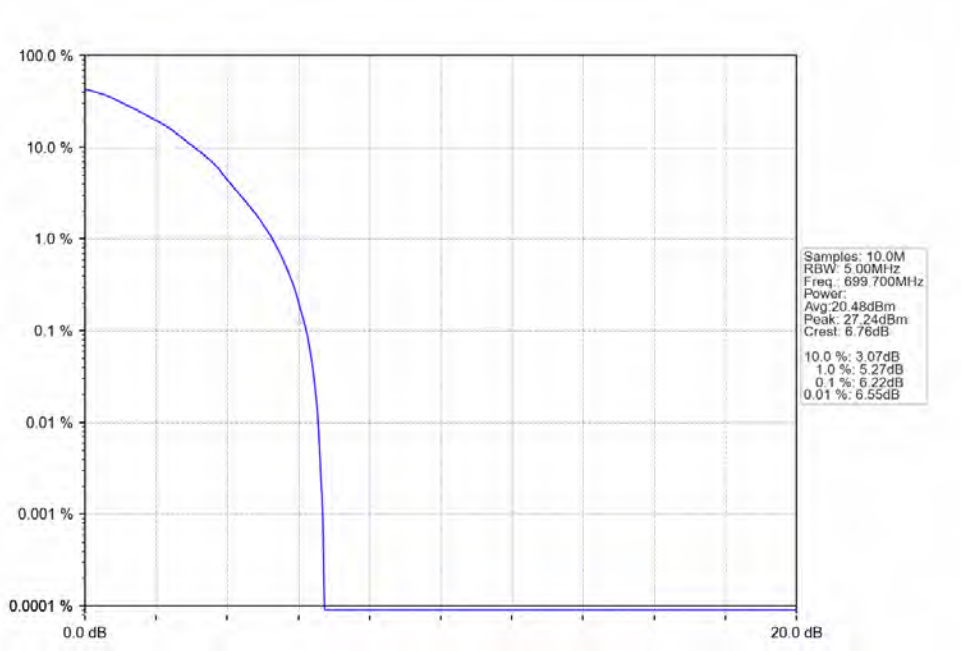
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



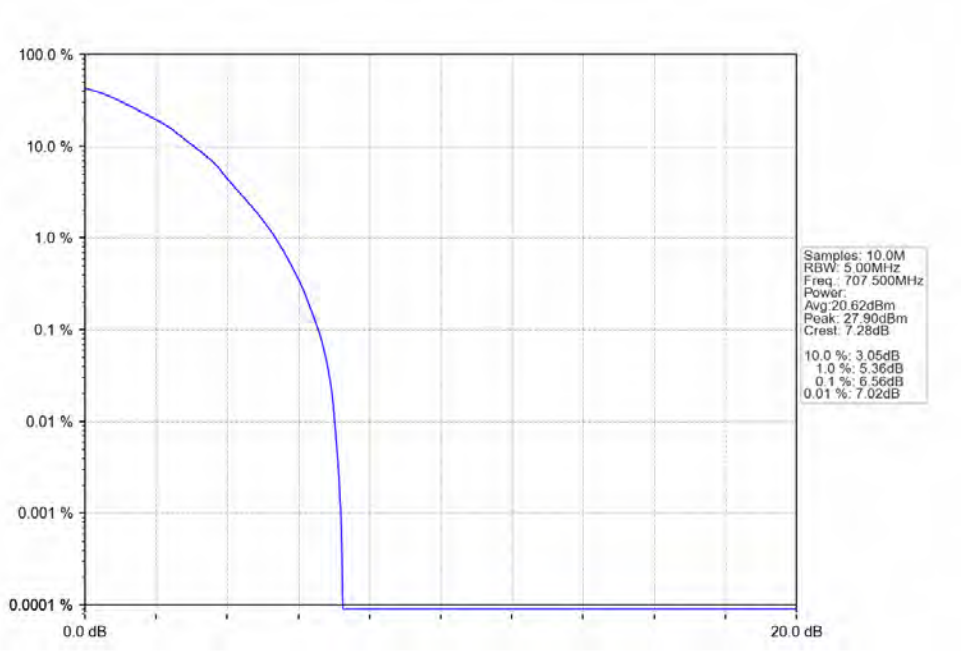

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



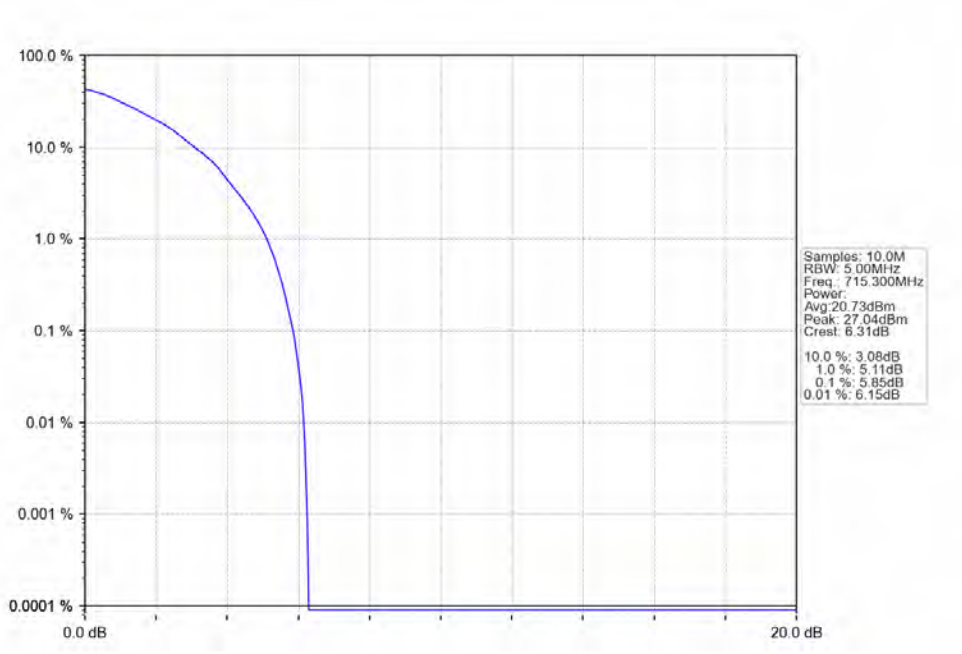
Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV



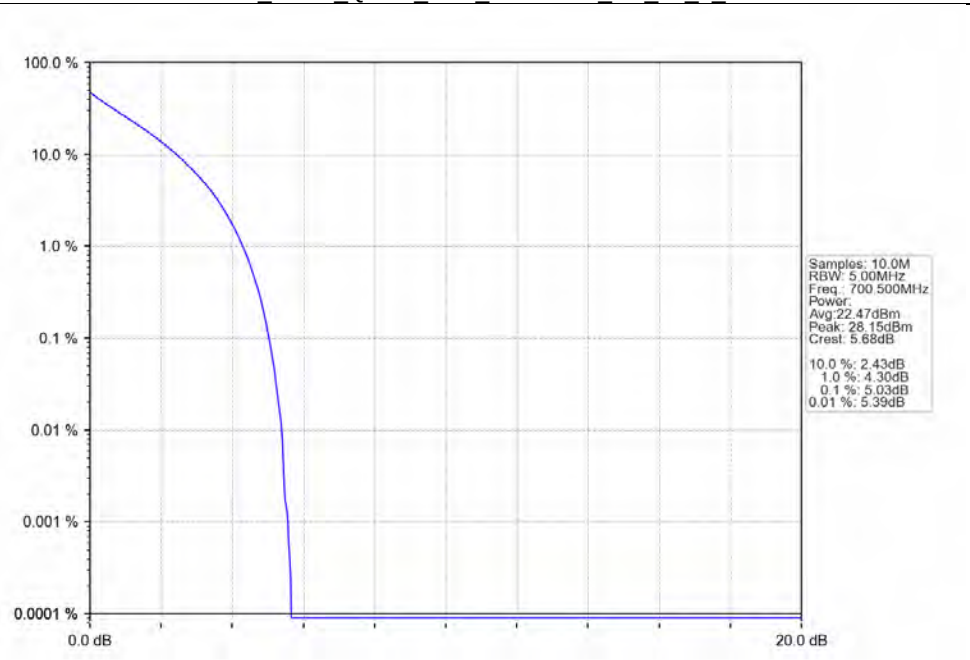
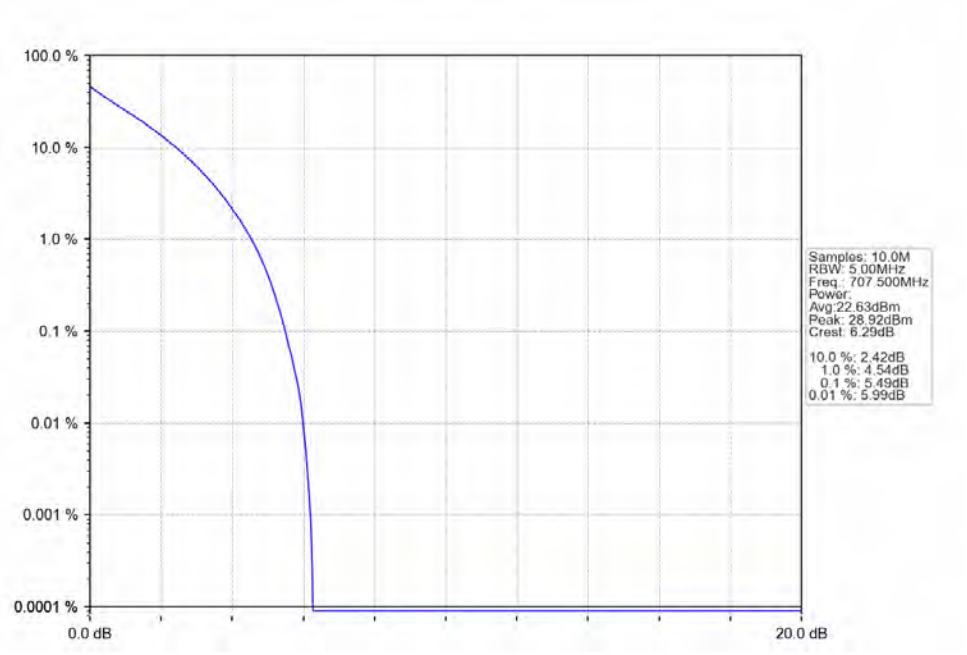

Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



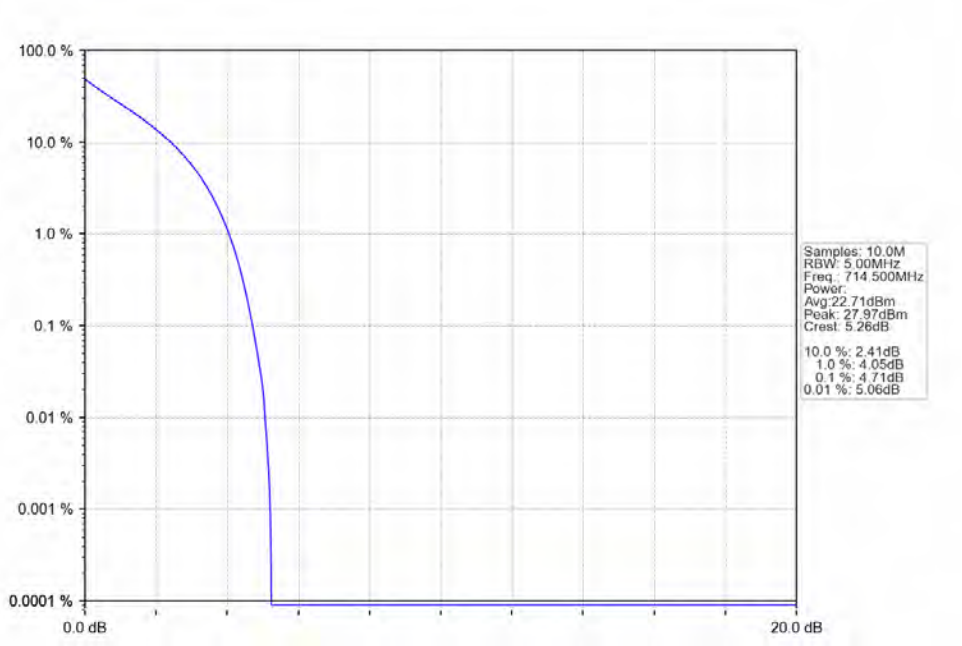
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



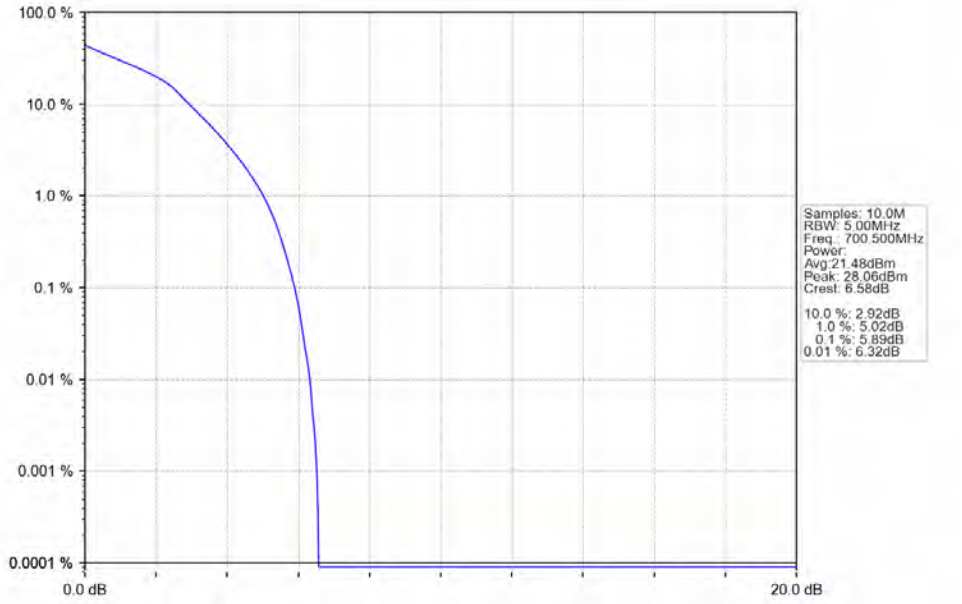
## 4.2.2 B12_3MHz

| Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV |
| --- |
|  |
| Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV |
|  |

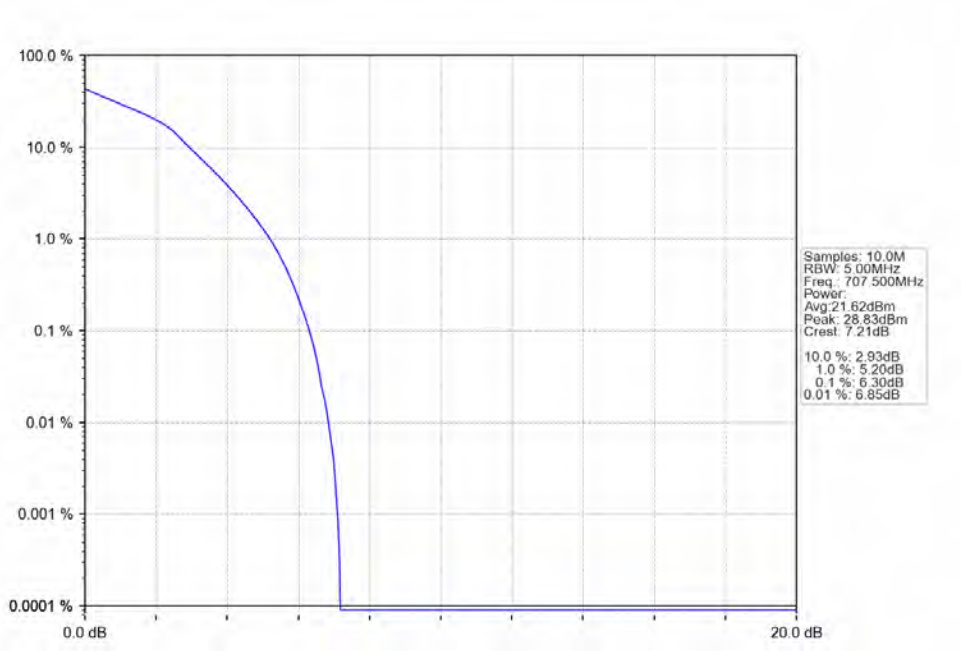
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



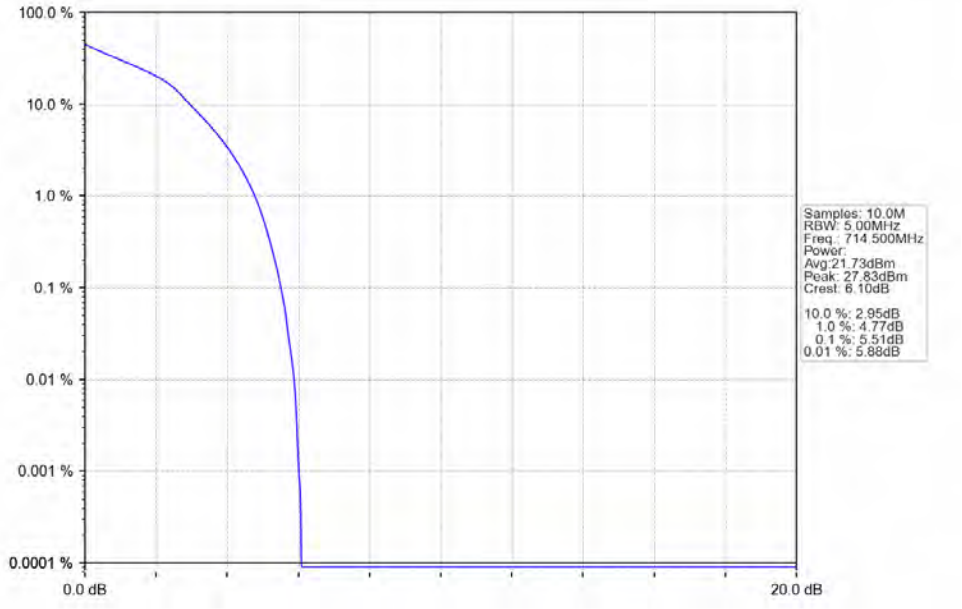

Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



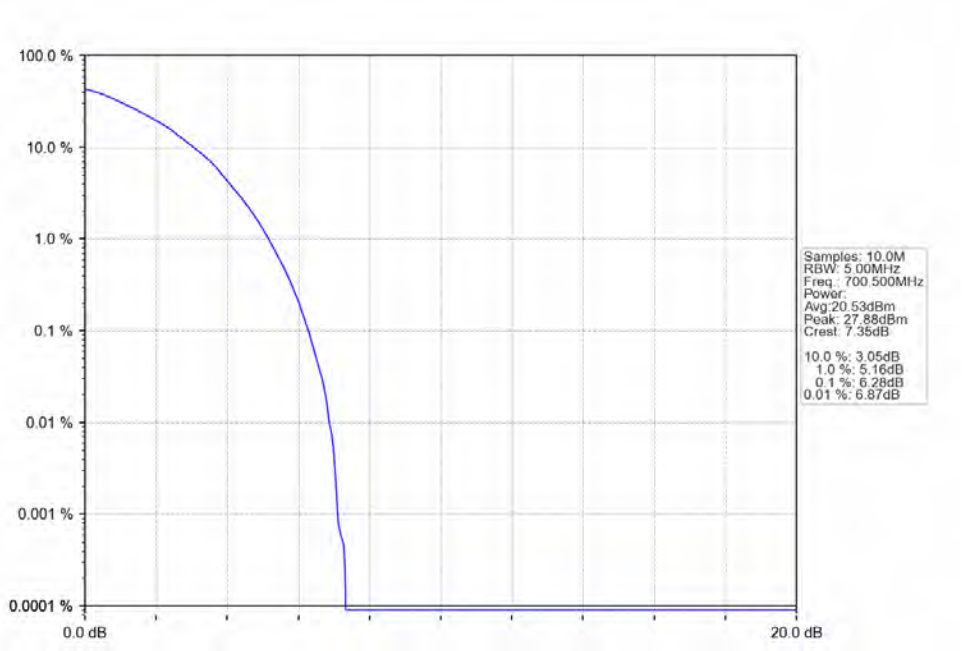
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



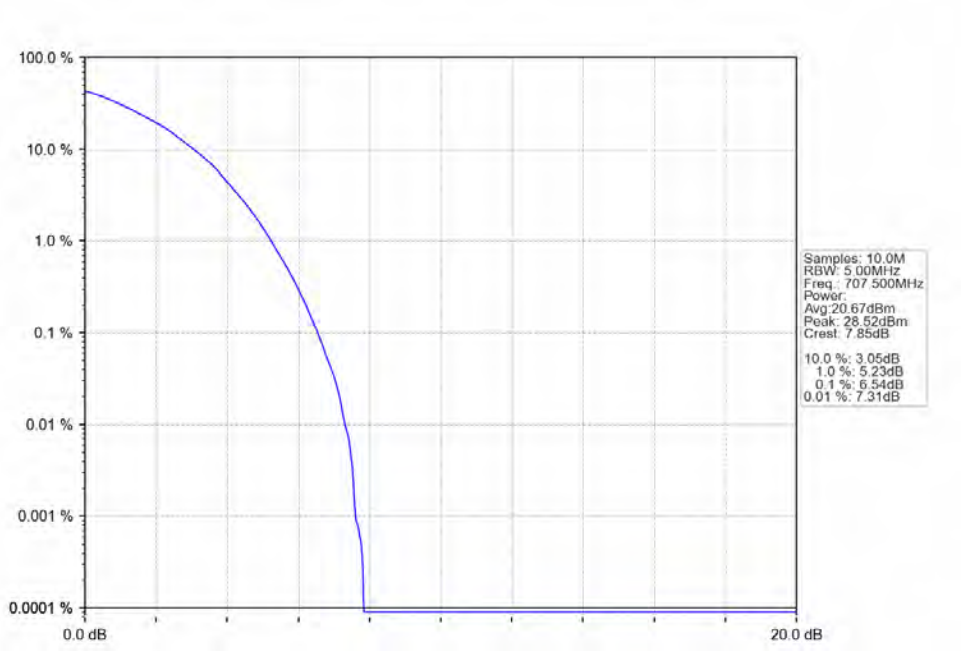

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



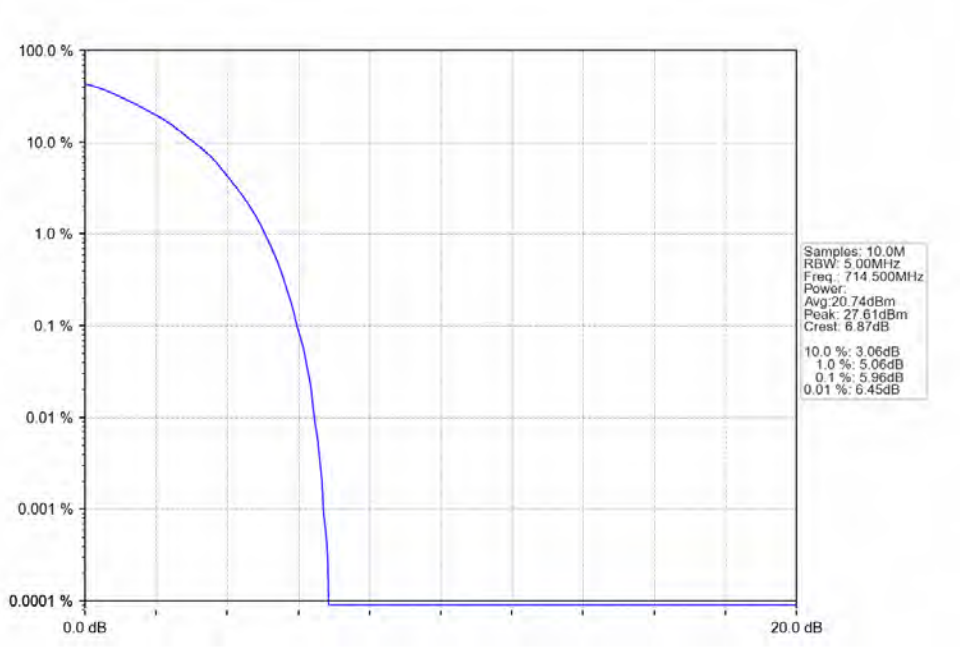
Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



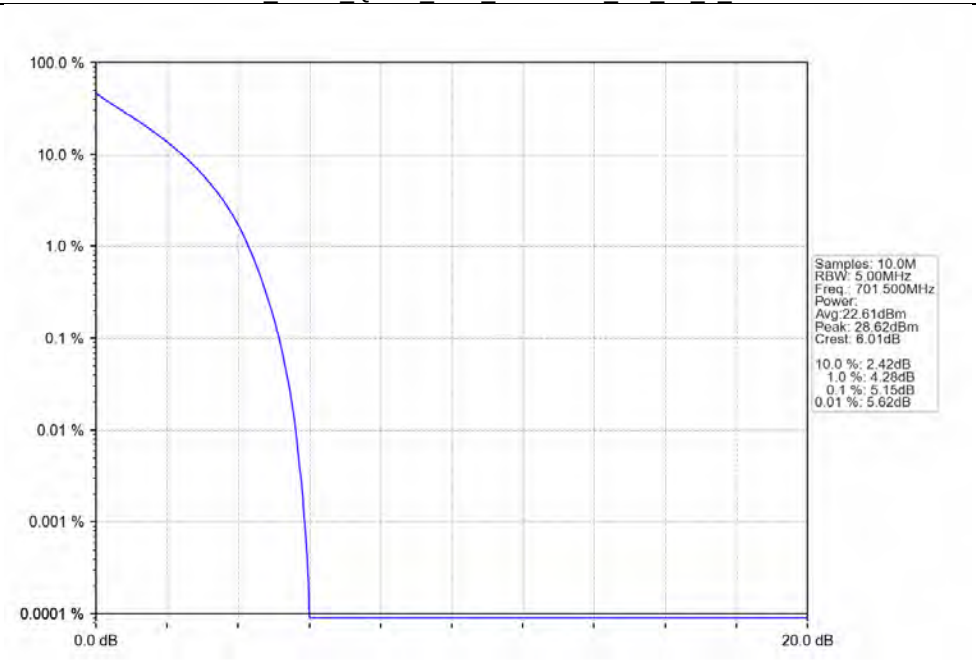
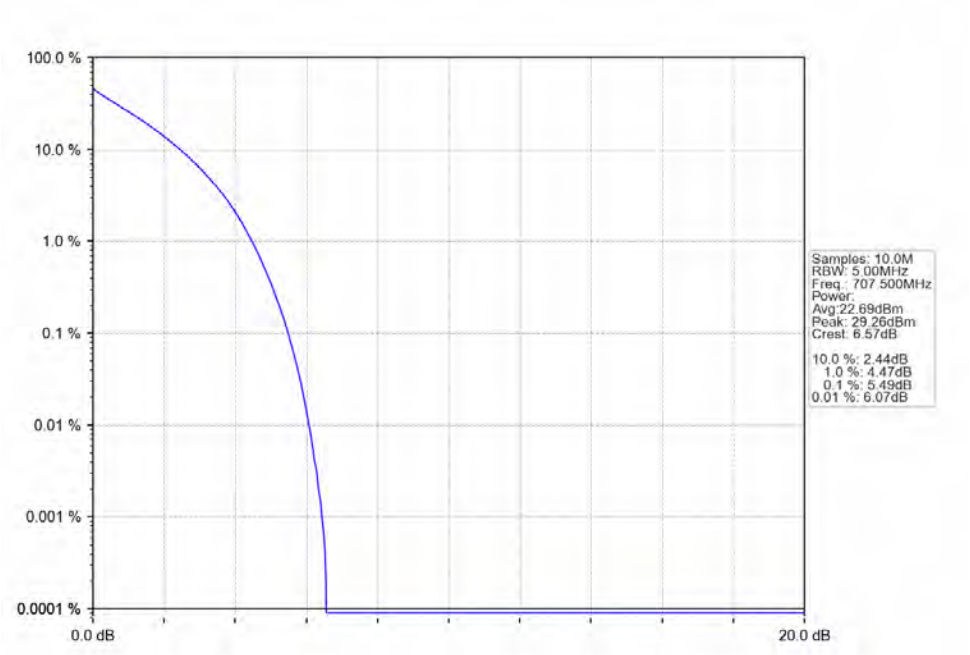

Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



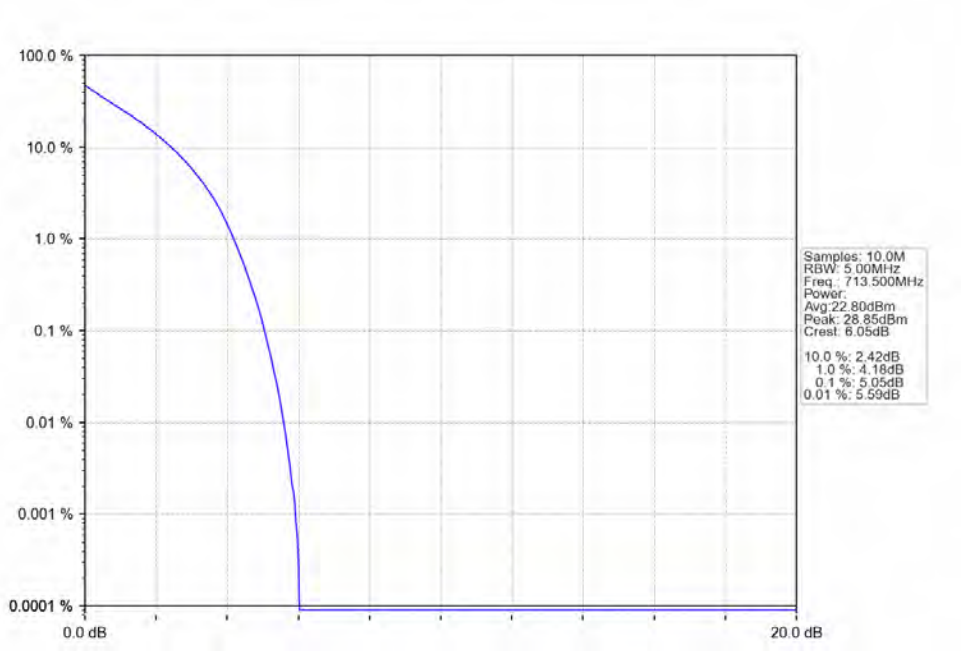
Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



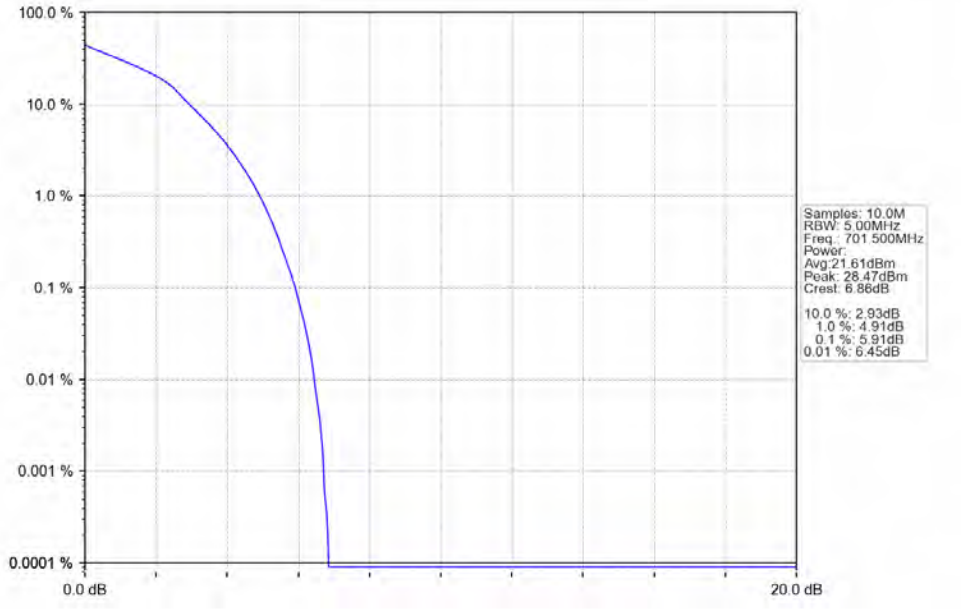
## 4.2.3 B12_5MHz

| Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV |
| --- |
|  |
| Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV |
|  |

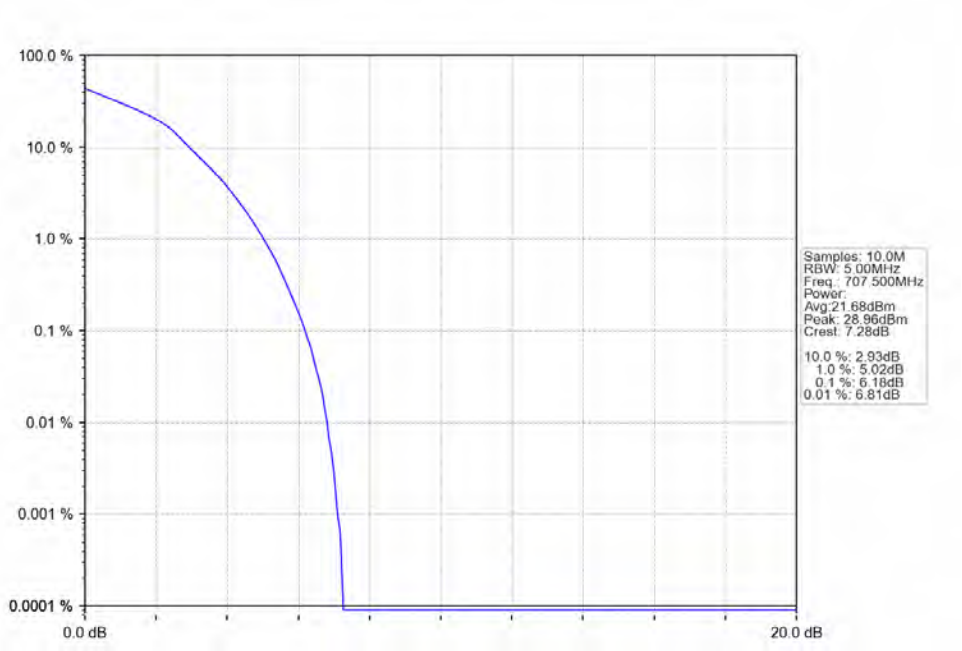
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



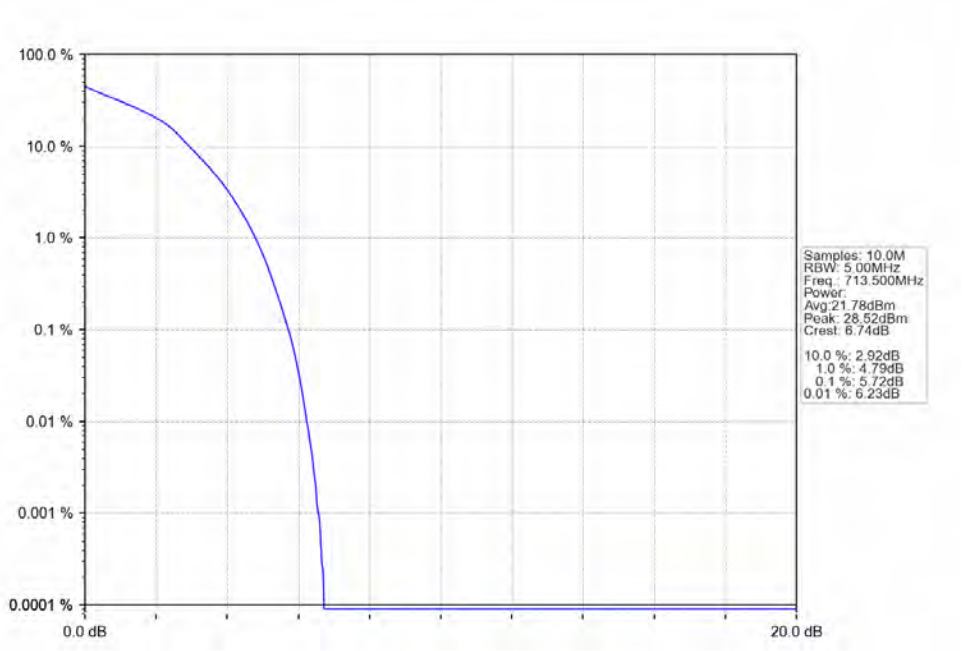

Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



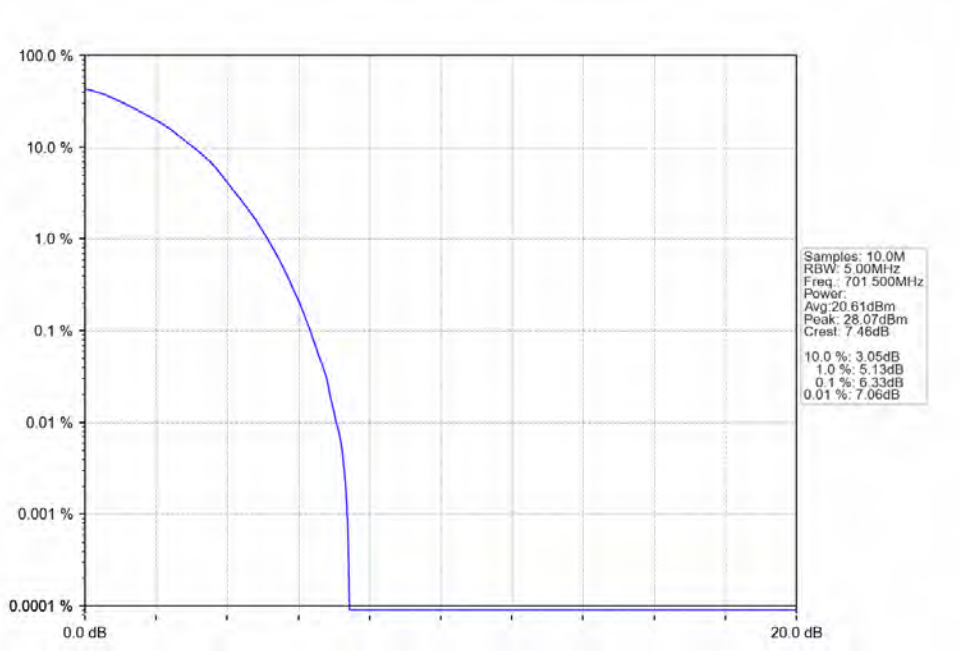
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



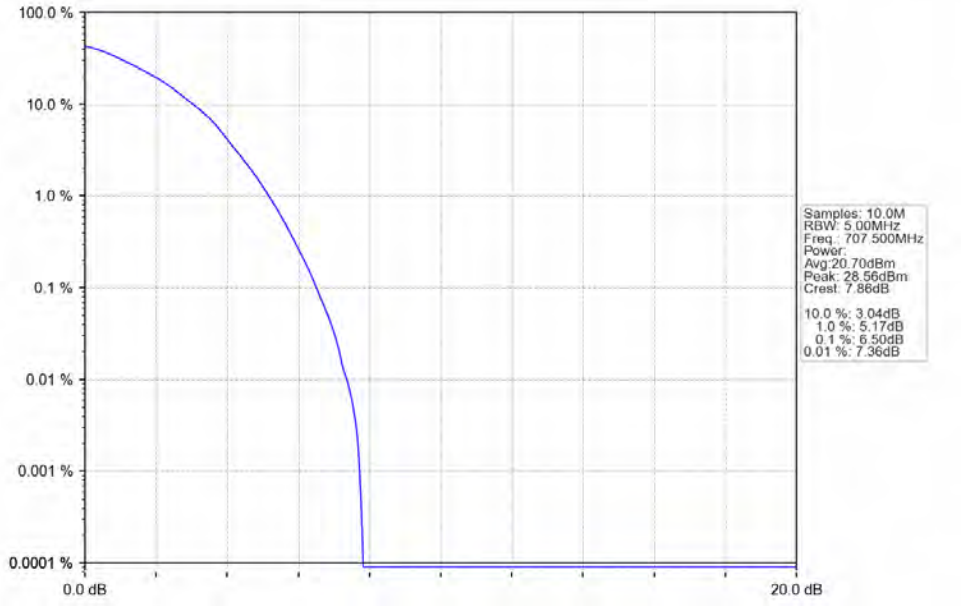

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



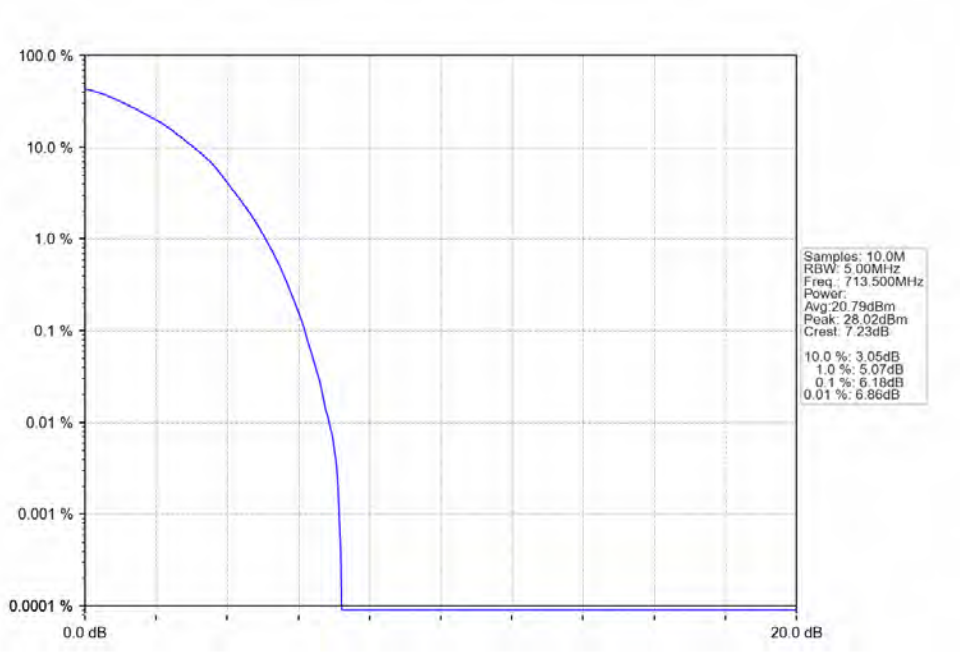
Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



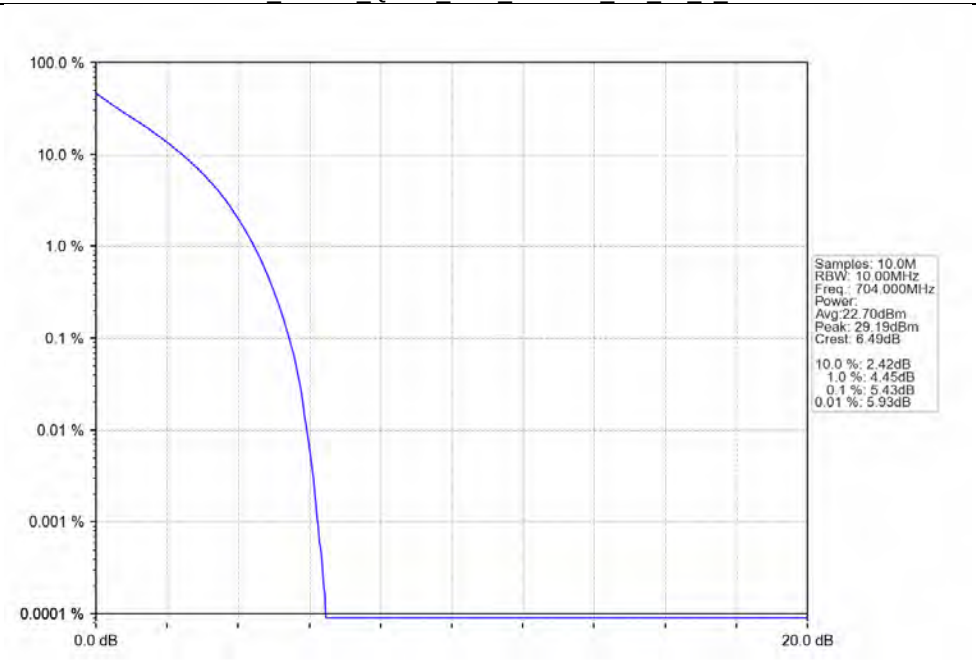
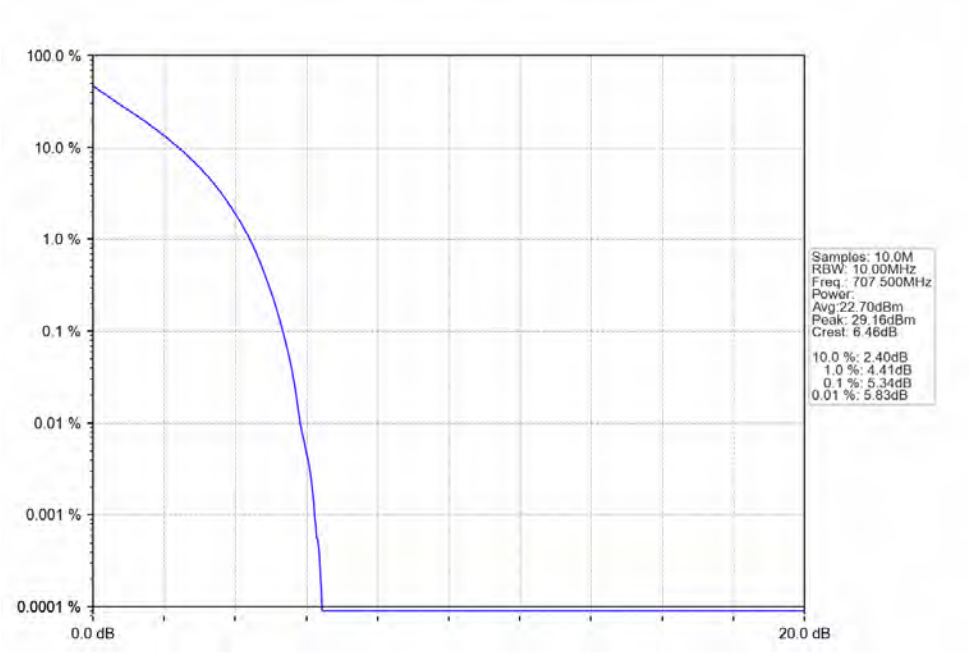

Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



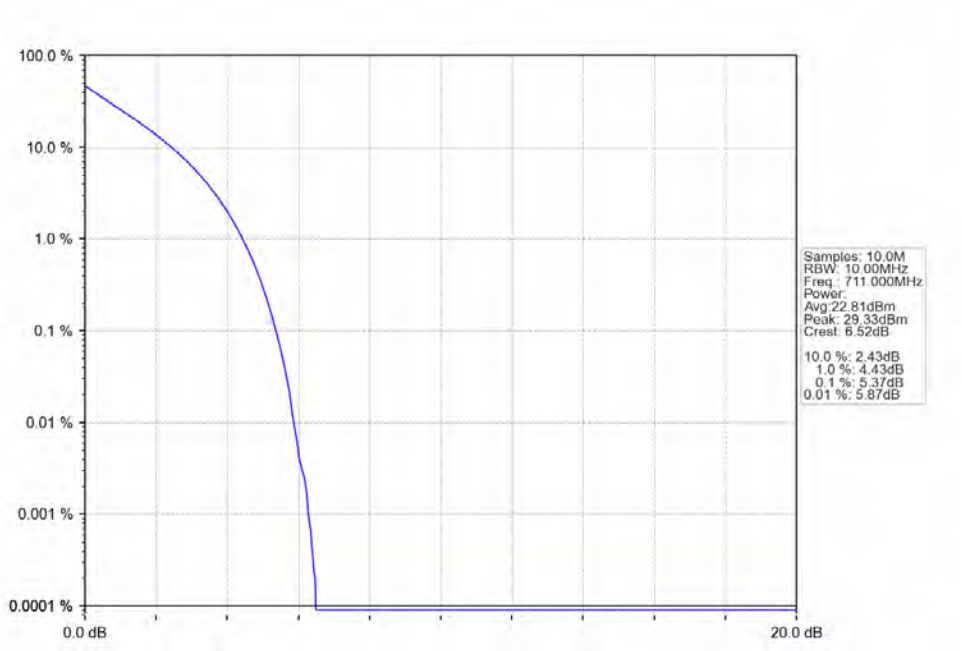
Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



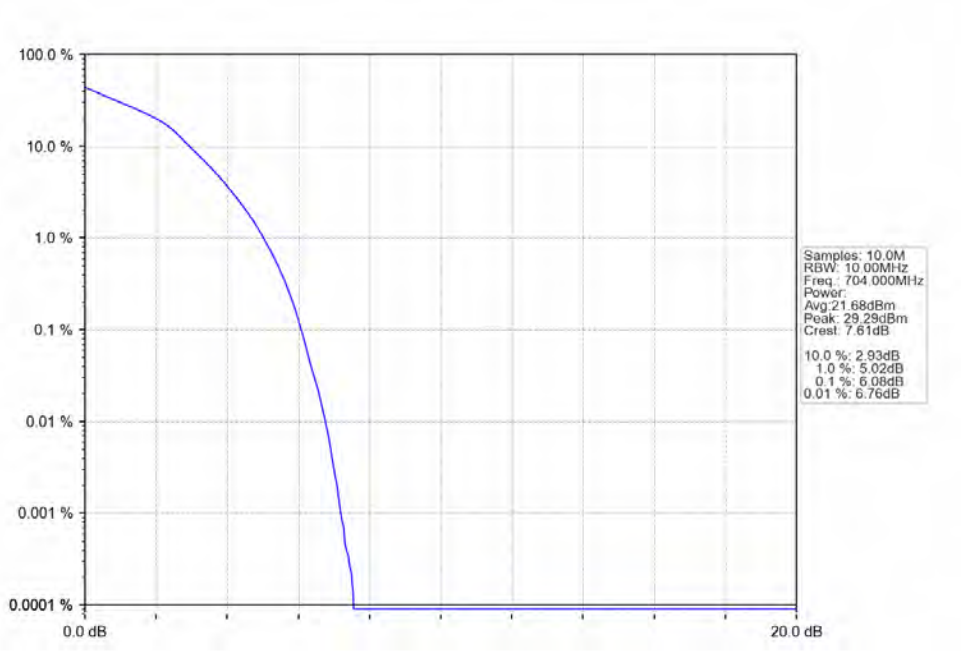
## 4.2.4 B12_10MHz

| Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV |
| --- |
|  |
| Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV |
|  |

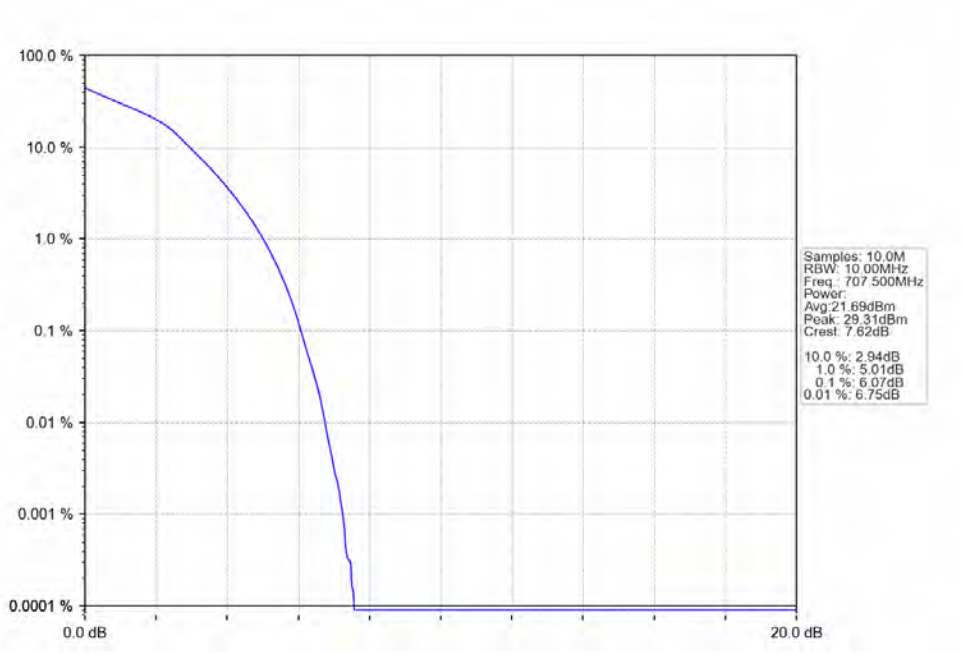
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



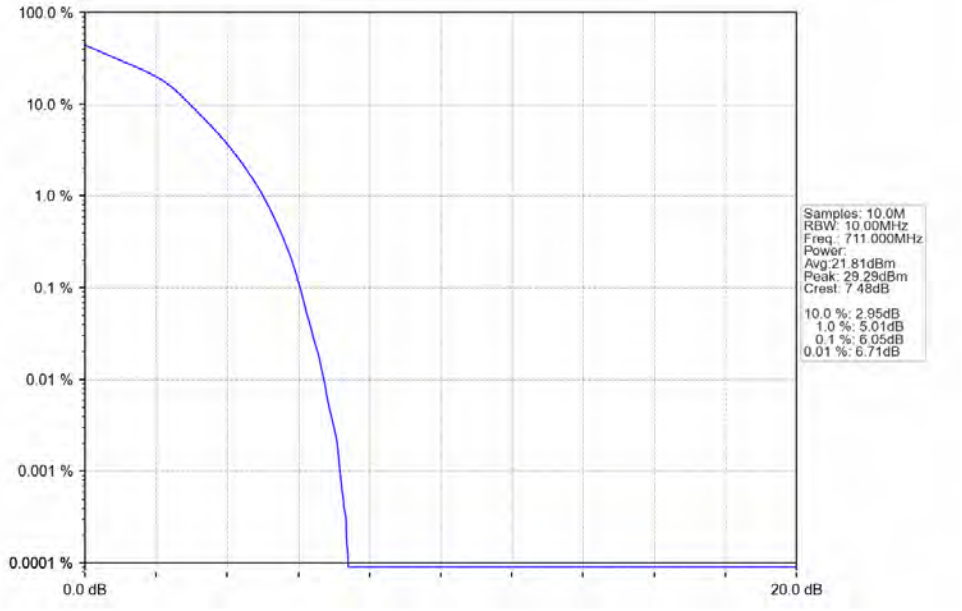

Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



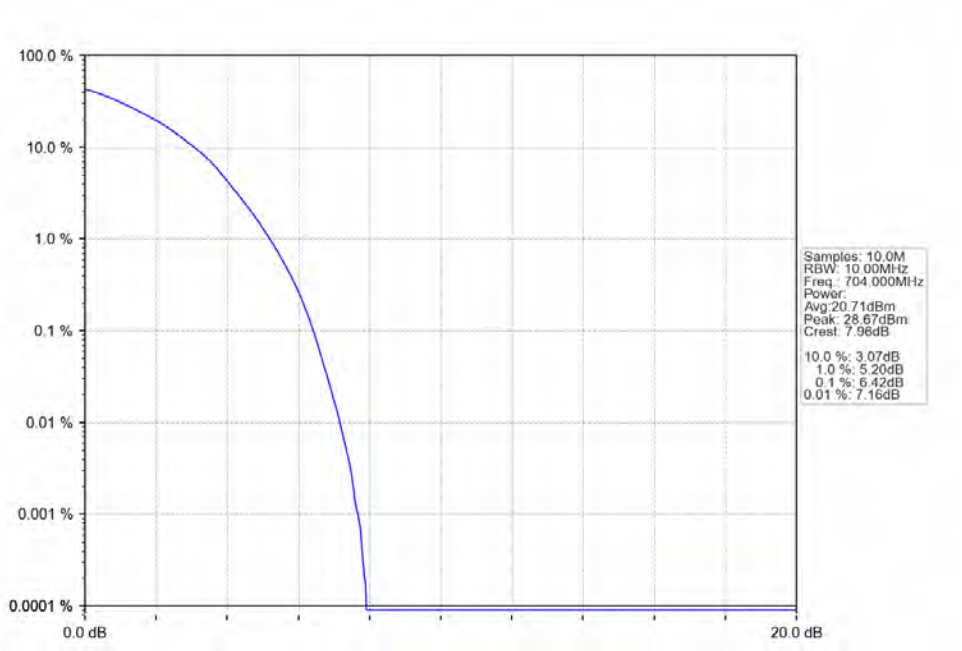
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



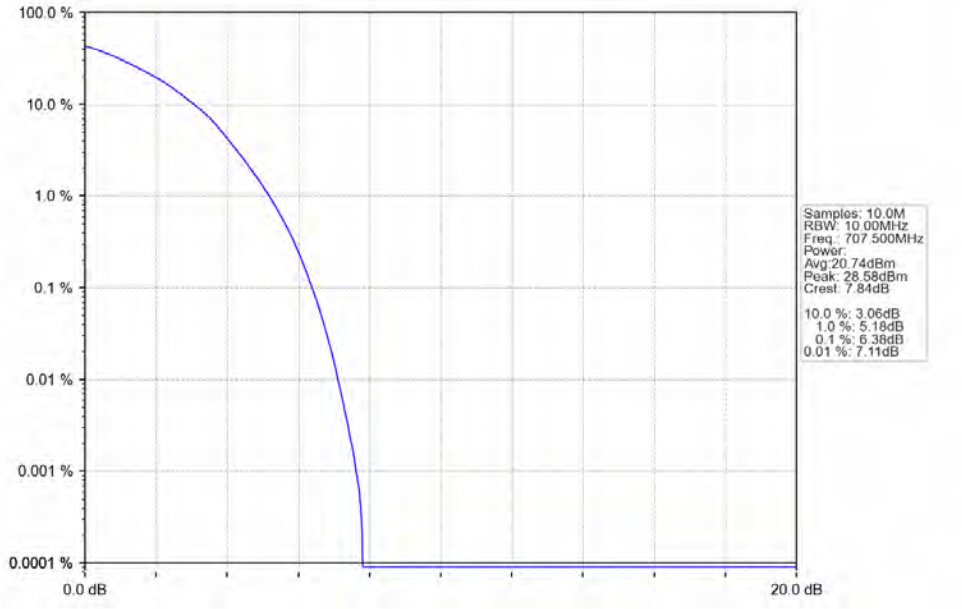

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



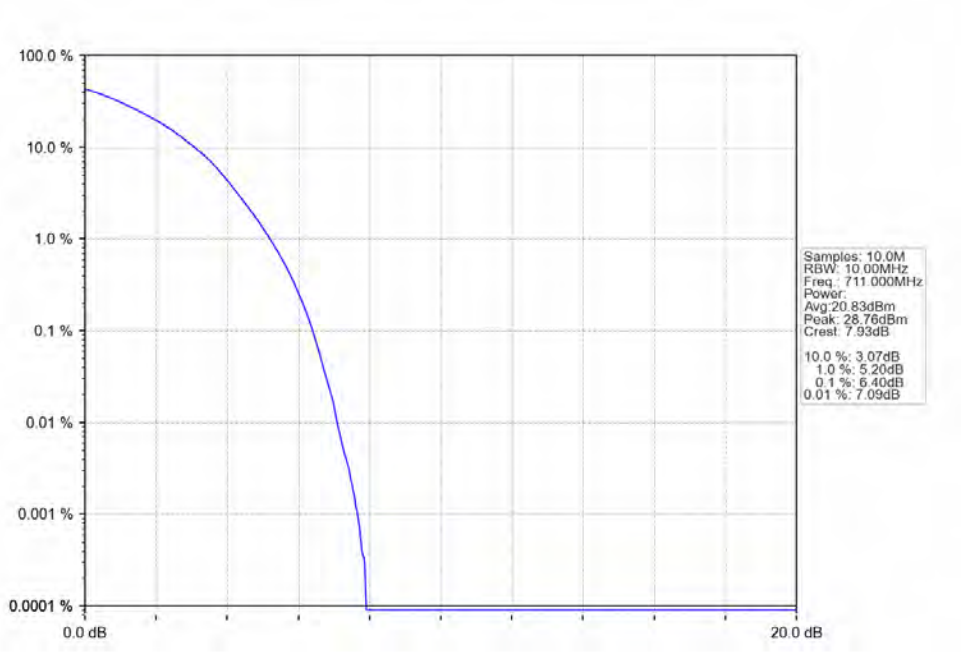
Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV




Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



# 5. Spurious Emission

## 5.1 Test Result

### 5.1.1 B12_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 699.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 715.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 699.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 715.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 699.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 715.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

### 5.1.2 B12_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 700.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 714.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 700.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 714.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 700.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 714.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

### 5.1.3 B12_5MHz

| Band: 12 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 701.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 713.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 701.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 713.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 701.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 713.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

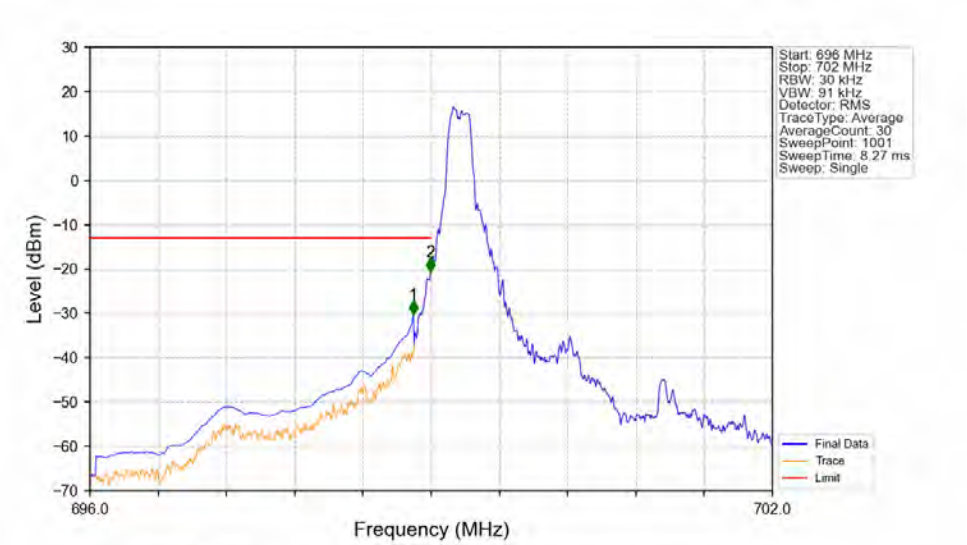
## 5.1.4 B12_10MHz

| Band: 12 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 704 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 711 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 704 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 711 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 704 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 707.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 711 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |

## 5.2 Test Graph

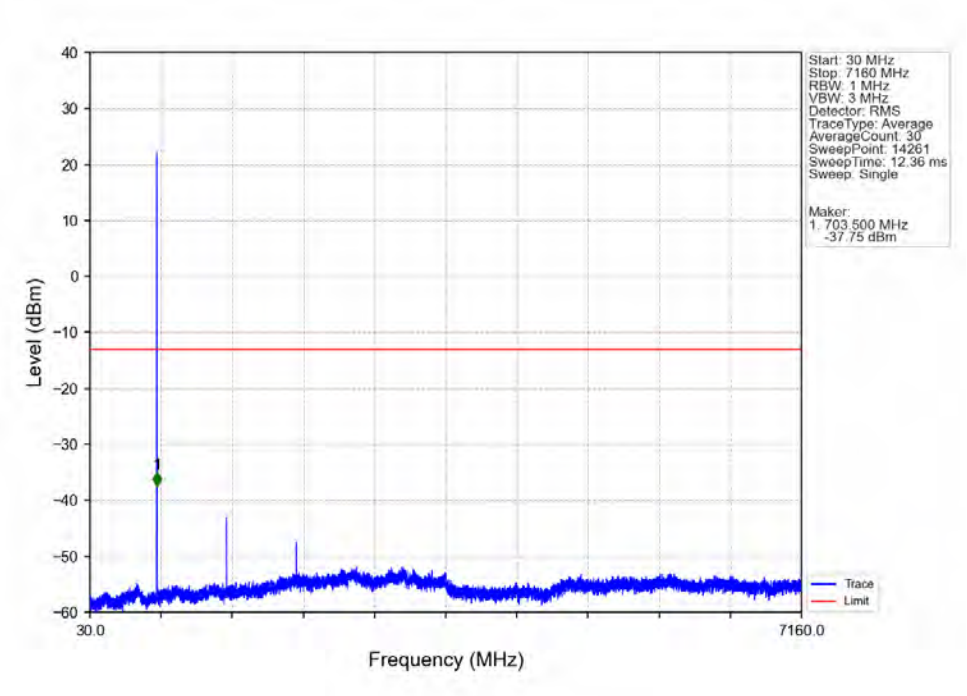
### 5.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

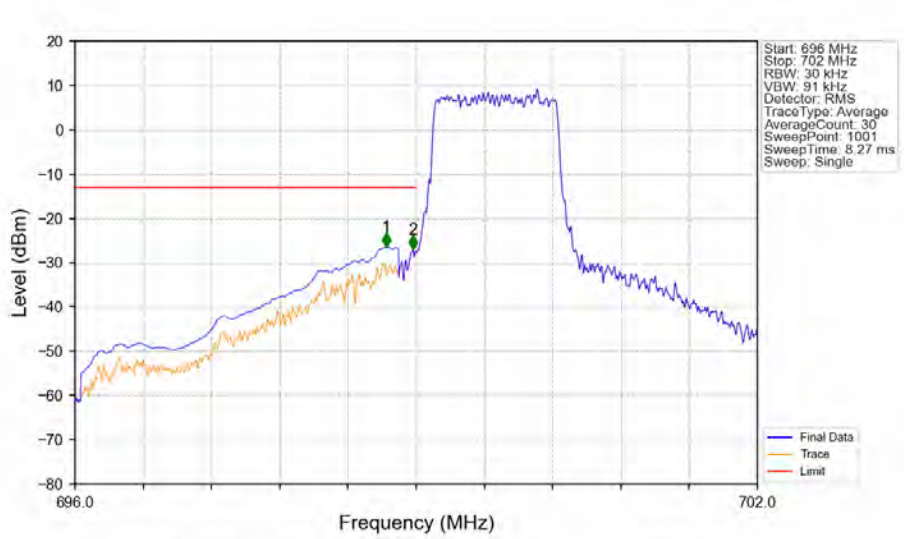



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -30.32 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -20.63 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

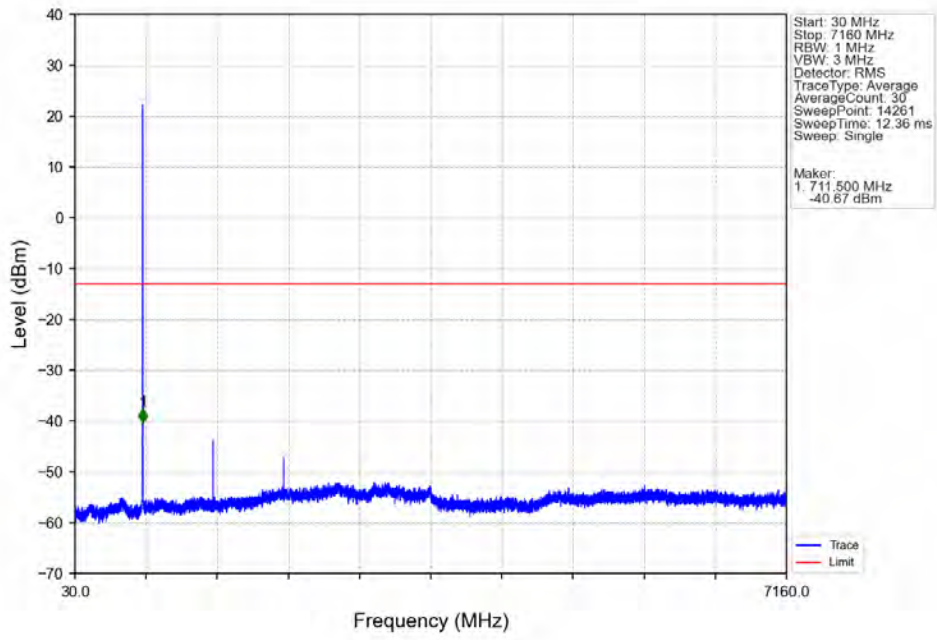


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

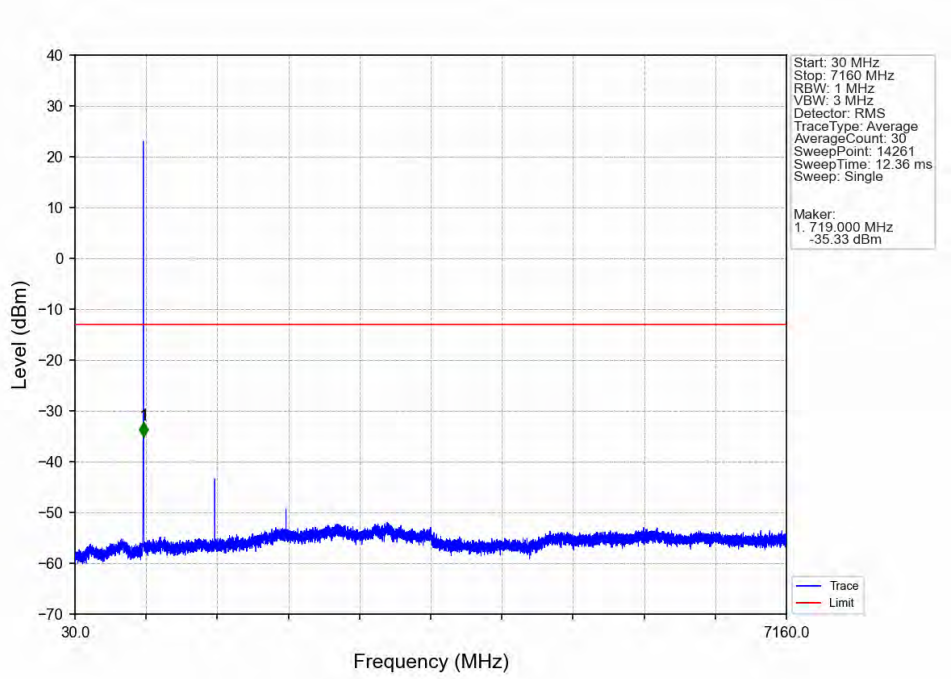



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.736 | -26.47 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.970 | -26.86 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

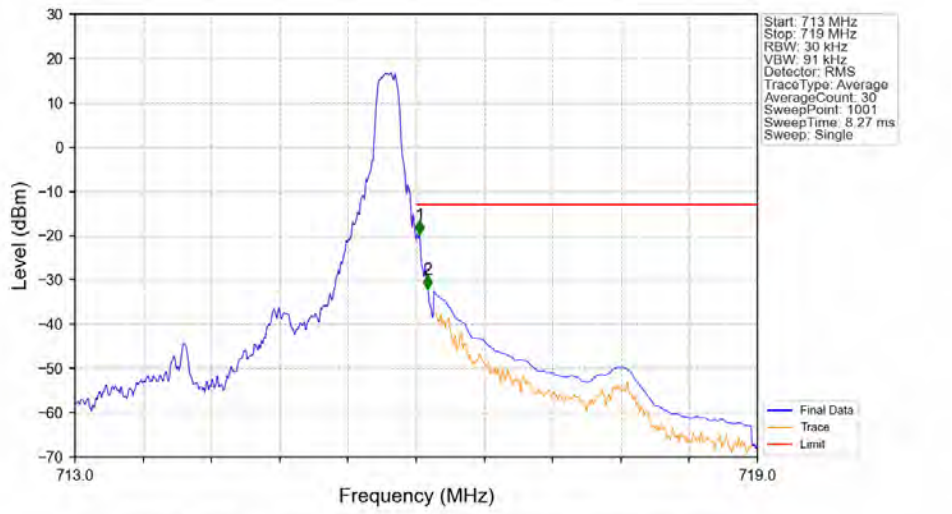
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

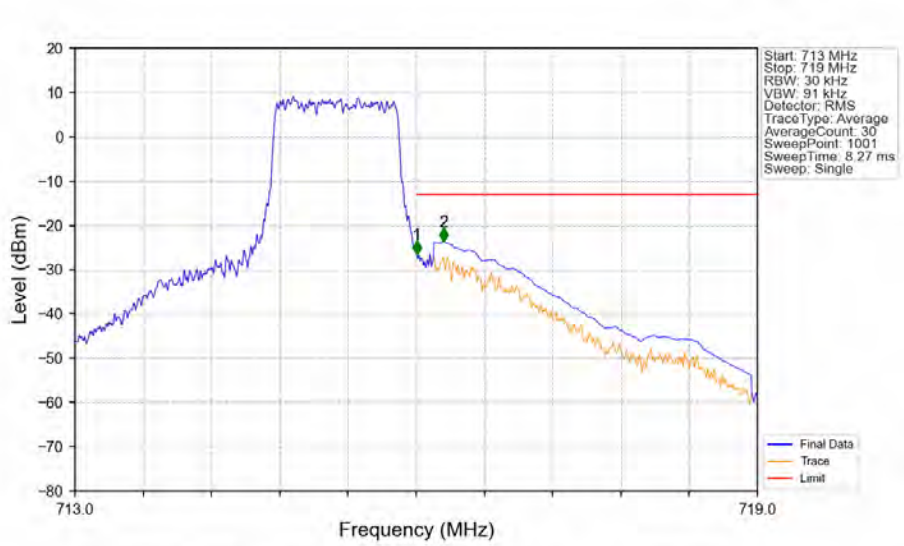



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



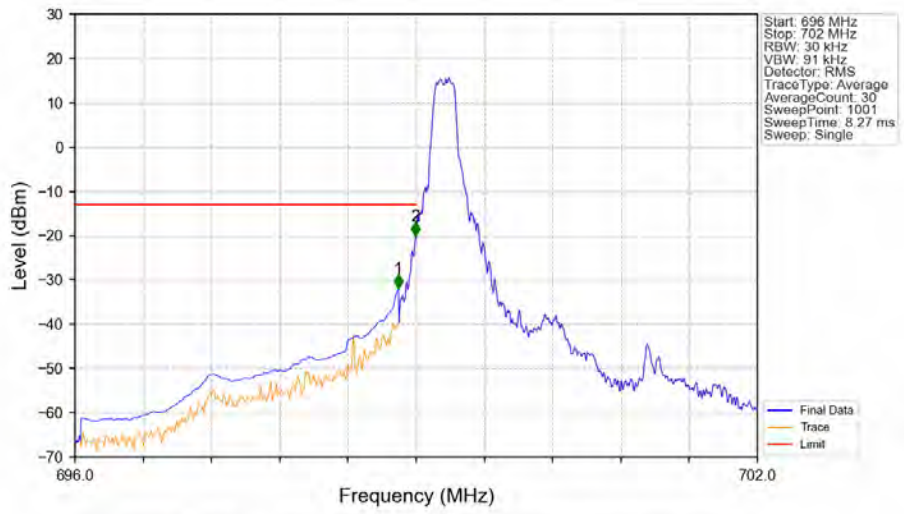

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.030 | -19.61 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.102 | -32.08 | -13 | Pass |

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



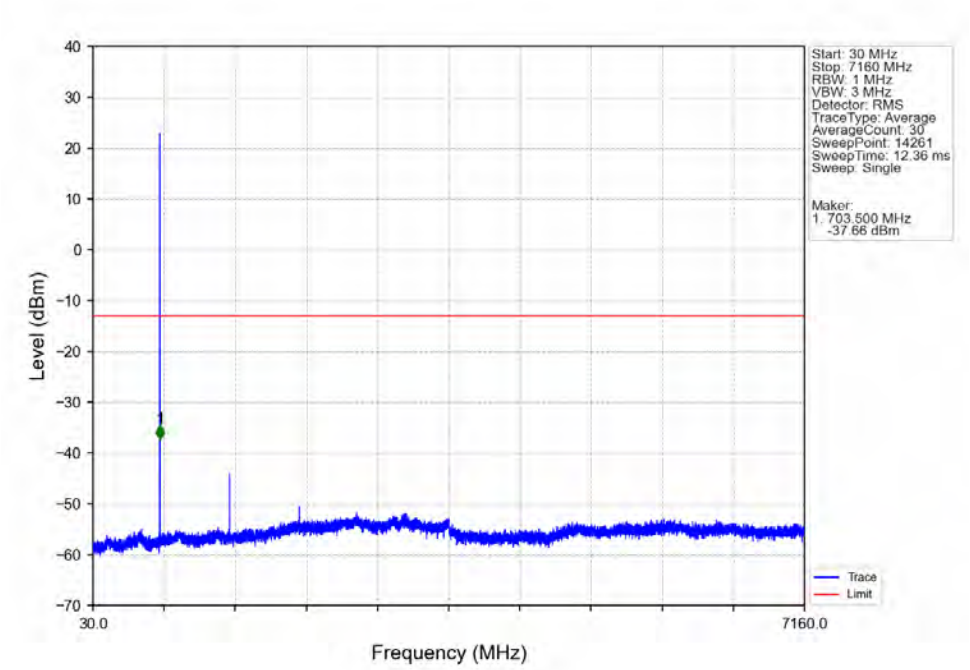

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -26.50 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.240 | -23.64 | -13 | Pass |

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

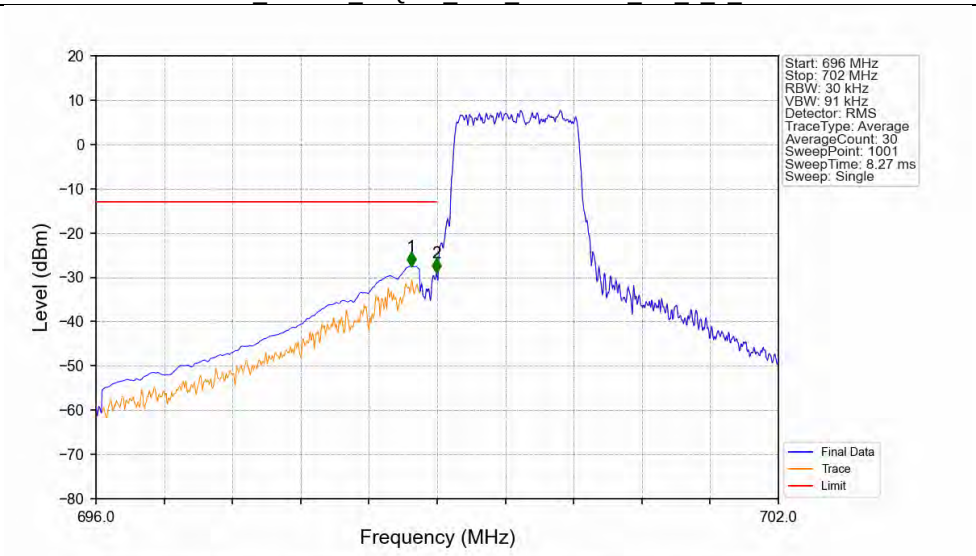



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -31.92 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -20.04 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

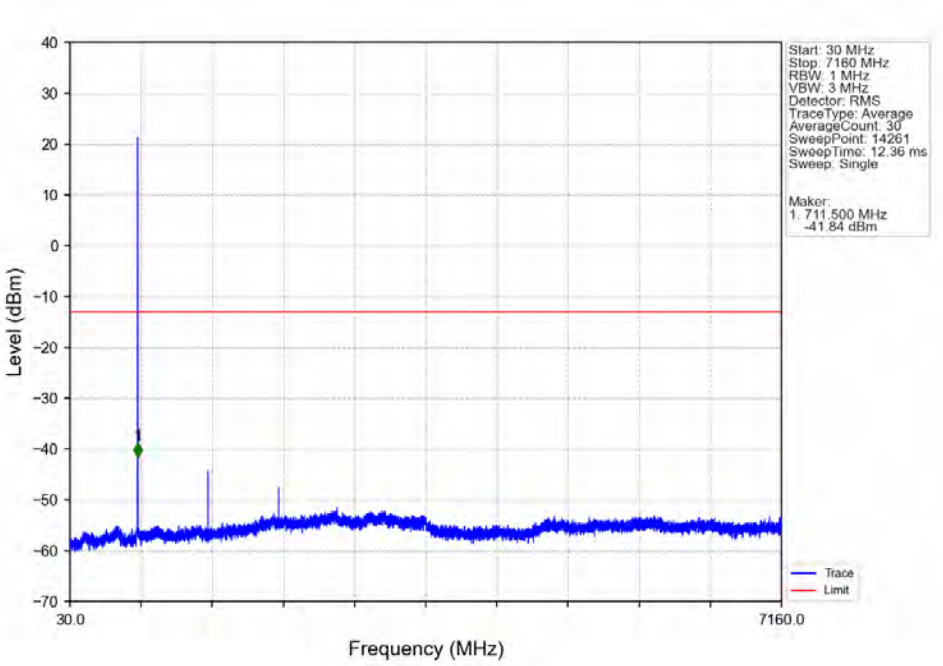



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

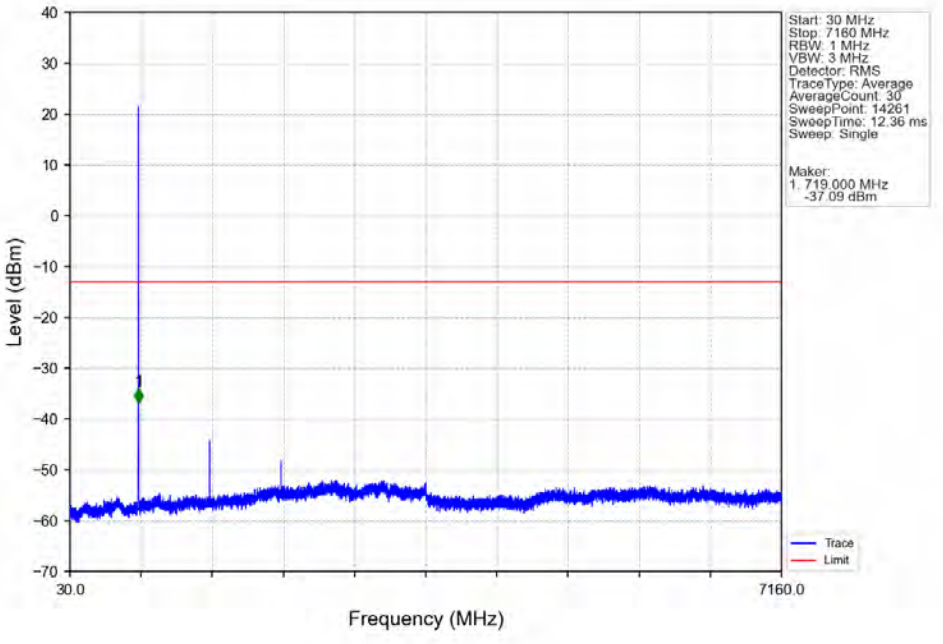



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.772 | -27.45 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -28.99 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

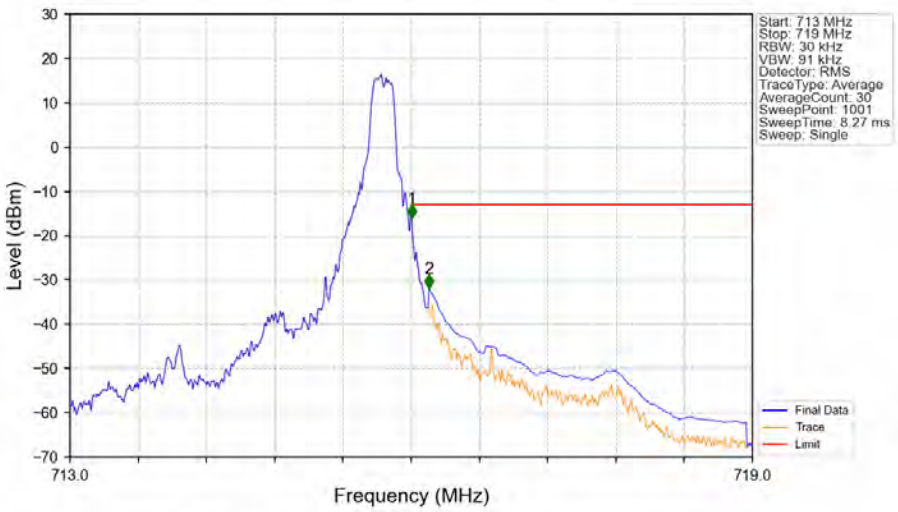
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV




Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

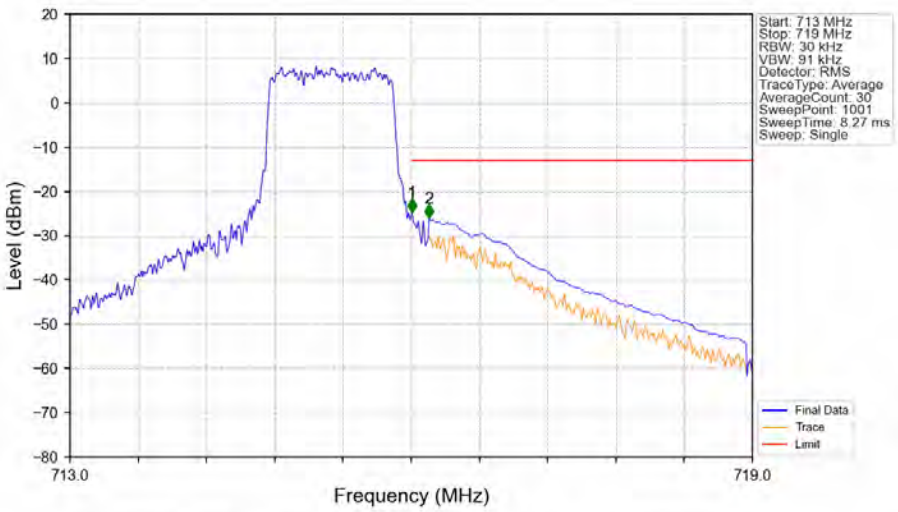


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



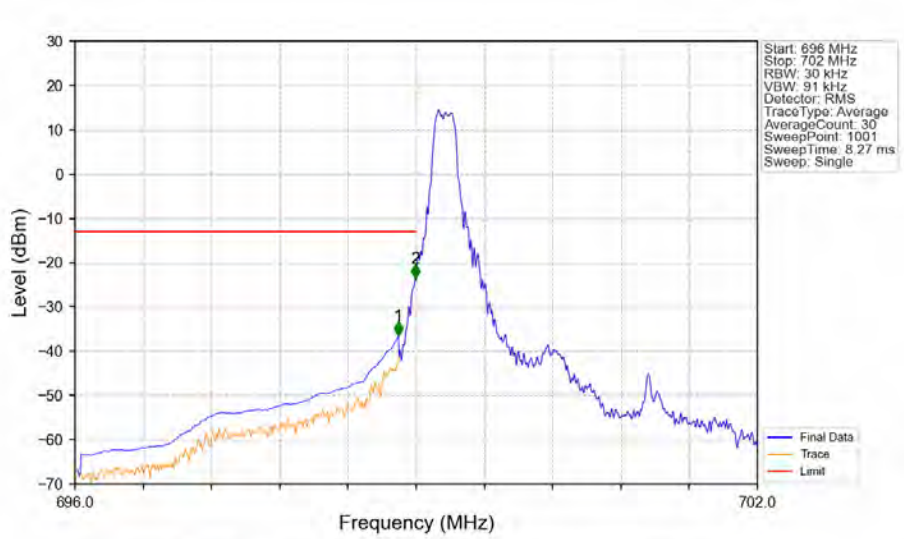

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -16.08 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.156 | -31.84 | -13 | Pass |

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



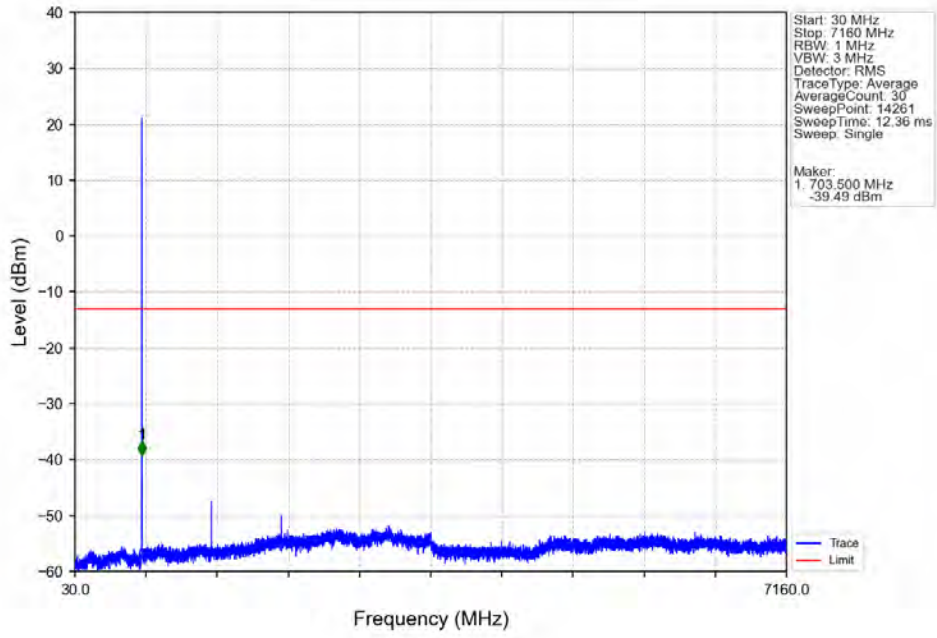

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -24.82 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.156 | -26.07 | -13 | Pass |

Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_1_0_NTNV

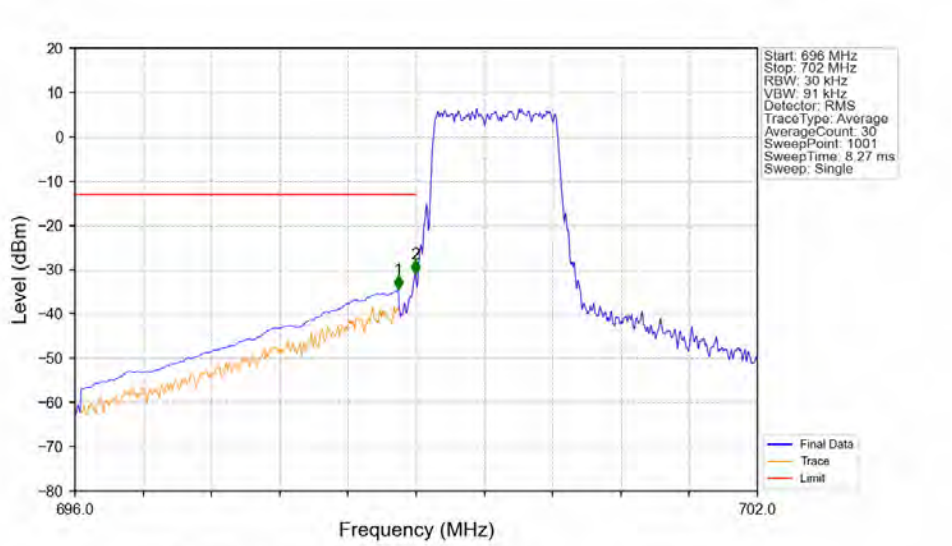



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -36.42 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -23.57 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_1_0_NTNV

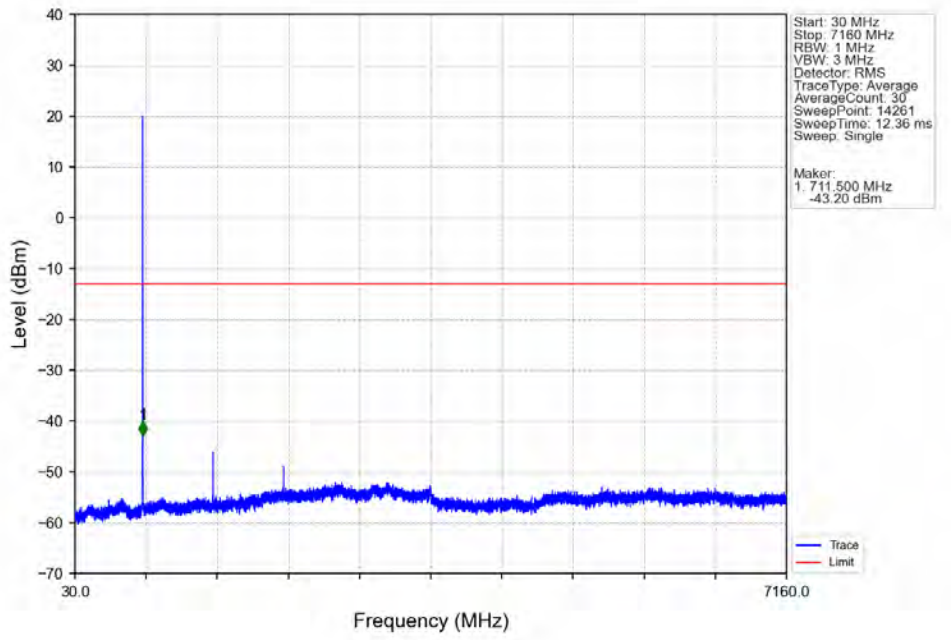


Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV

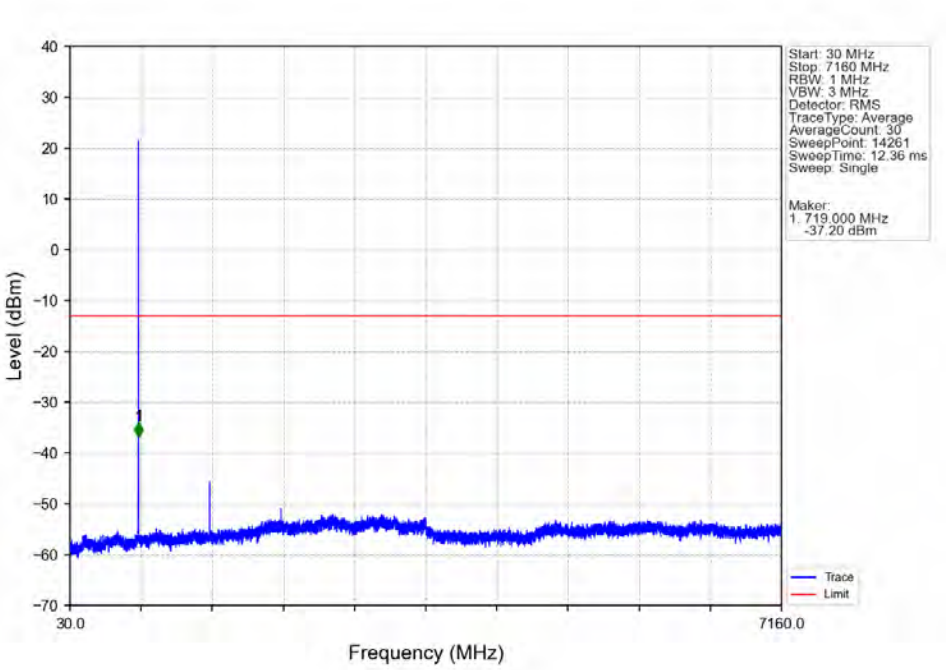



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -34.41 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -31.00 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

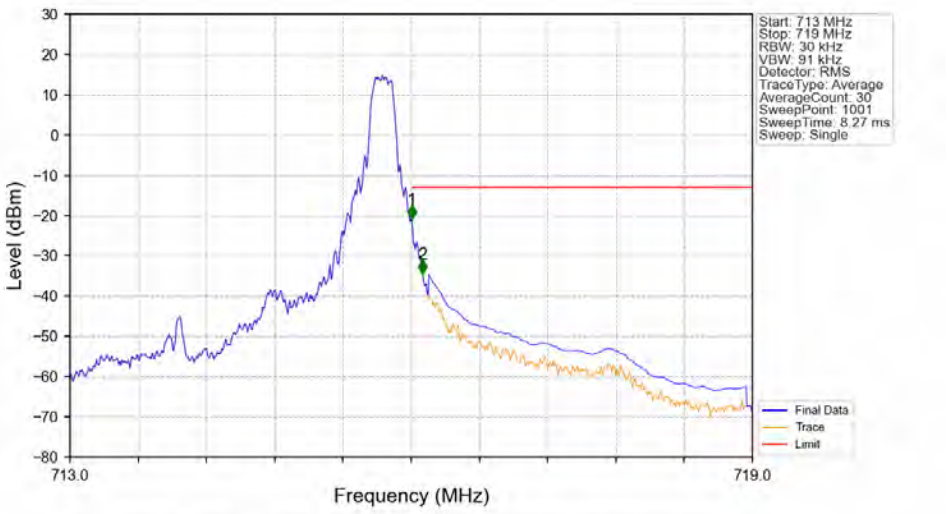
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_1_0_NTNV

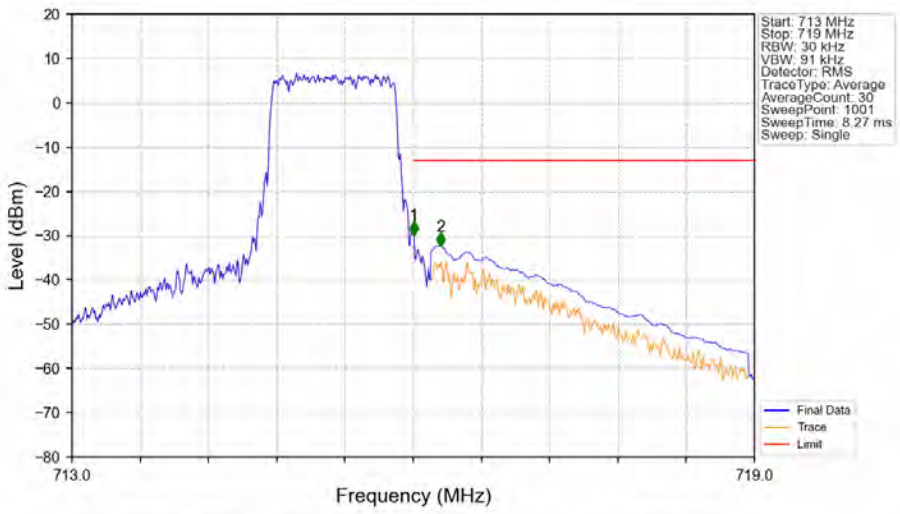



Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_1_5_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -20.75 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.102 | -34.52 | -13 | Pass |

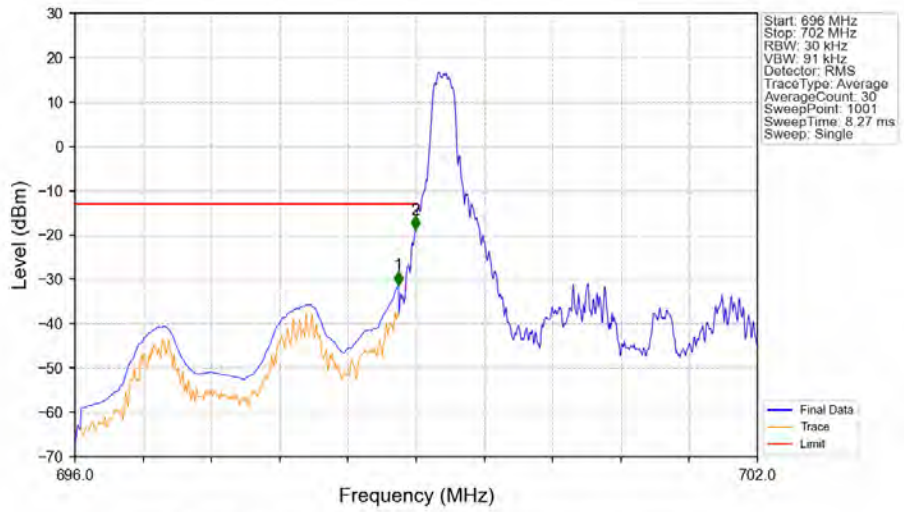
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -29.80 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.240 | -32.32 | -13 | Pass |

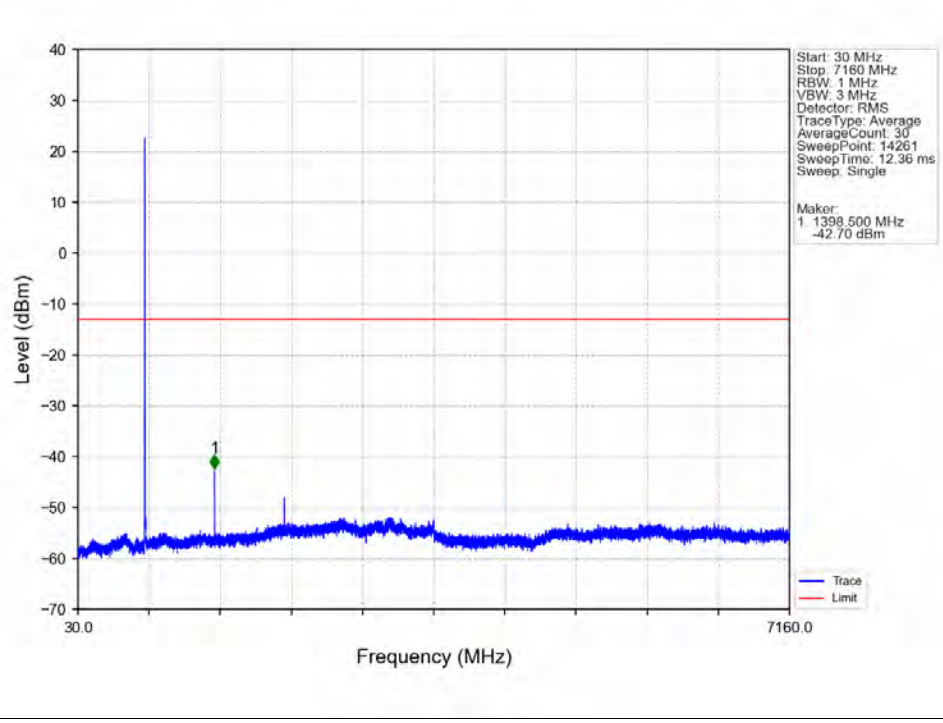
## 5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

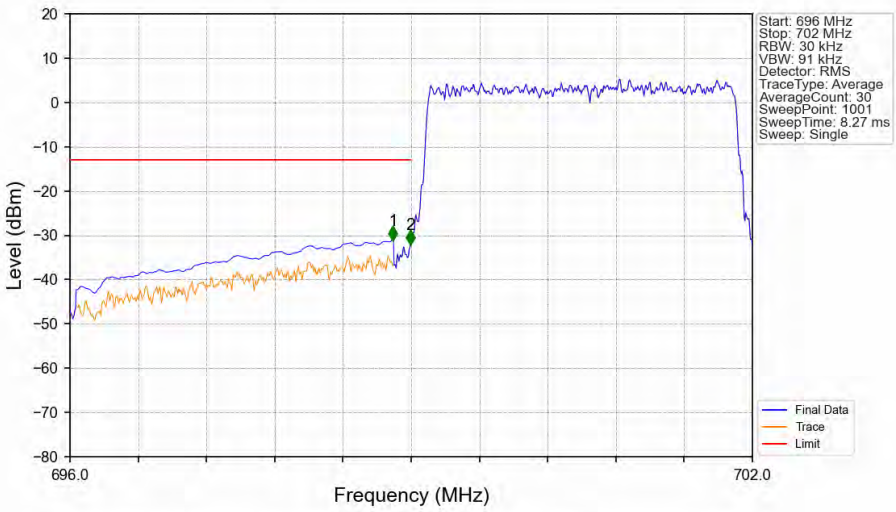



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -31.24 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -18.80 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

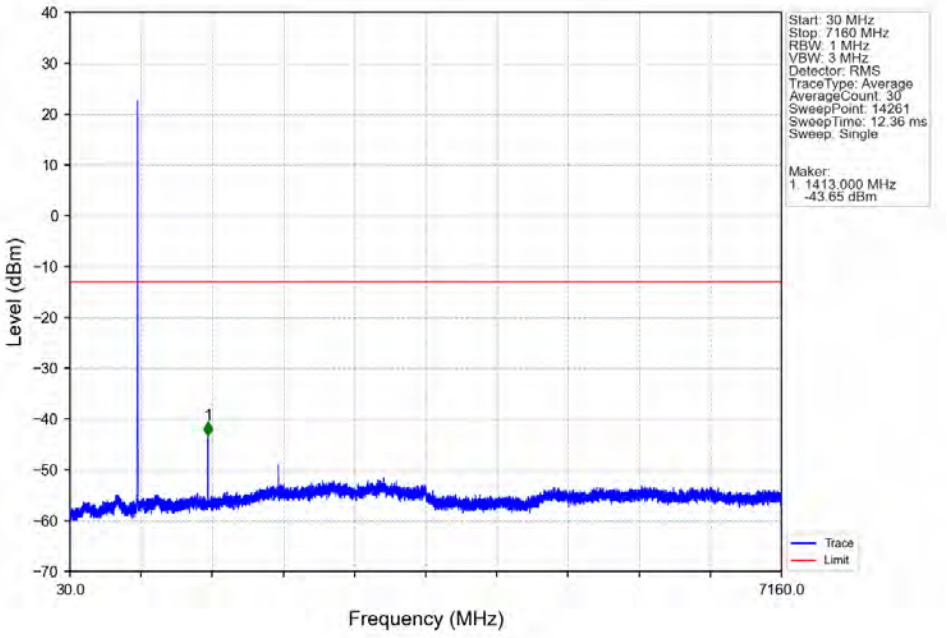


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

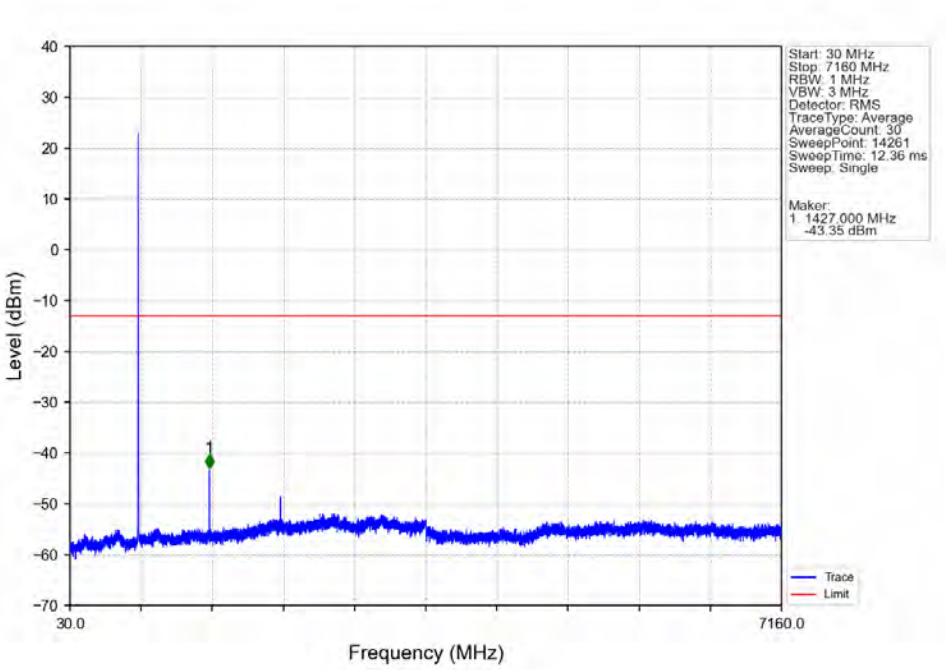



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.838 | -31.08 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -32.11 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

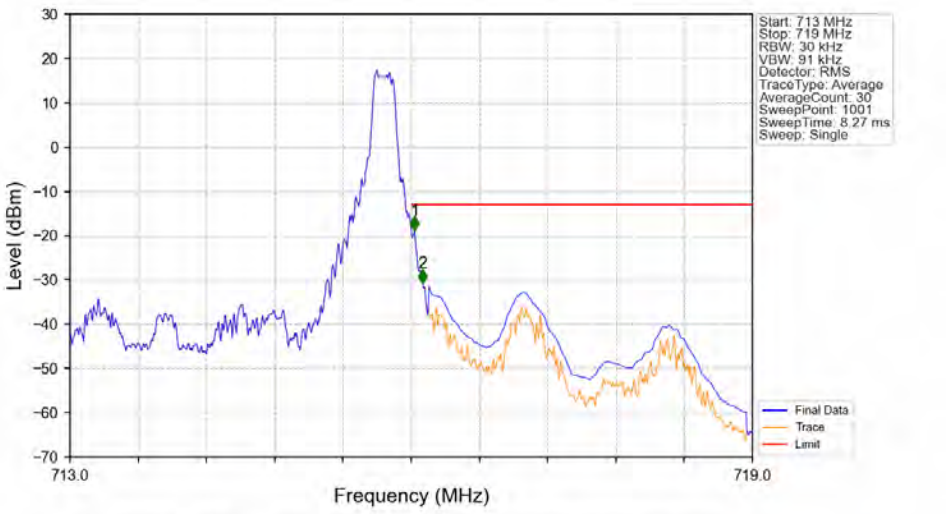
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

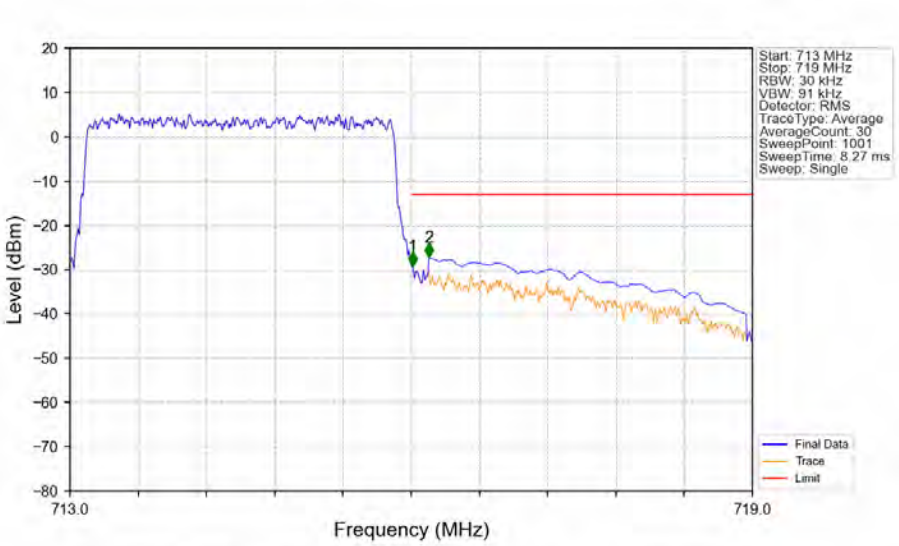



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



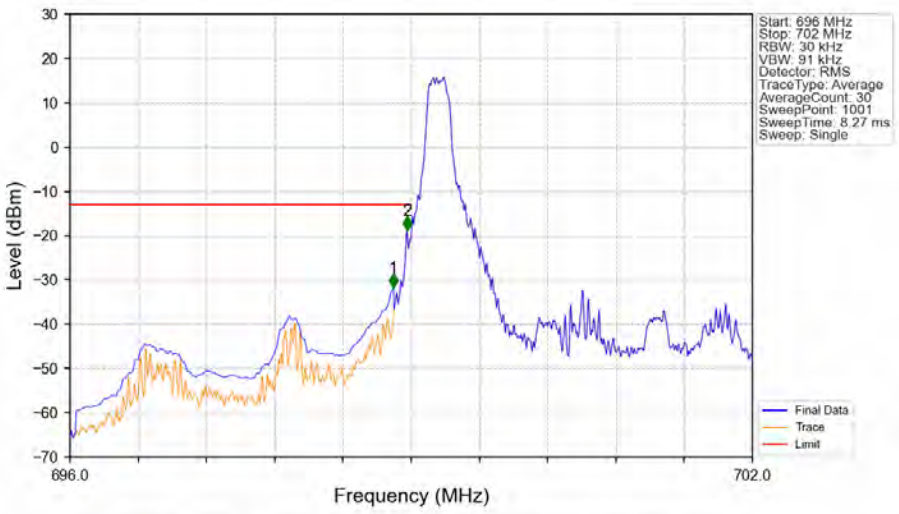

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.030 | -18.69 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.102 | -30.70 | -13 | Pass |

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



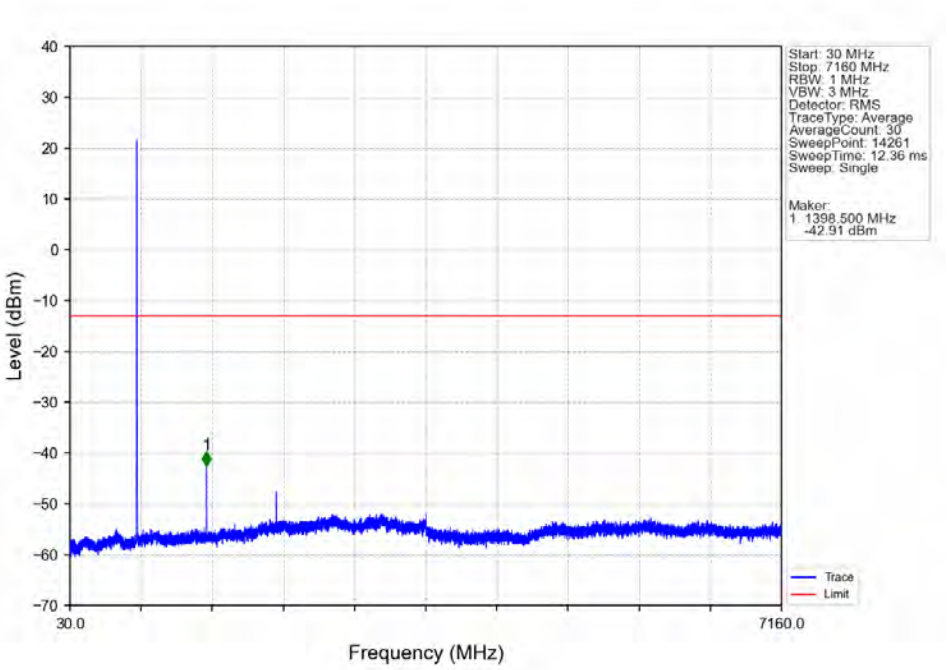

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.012 | -29.17 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.156 | -27.17 | -13 | Pass |

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

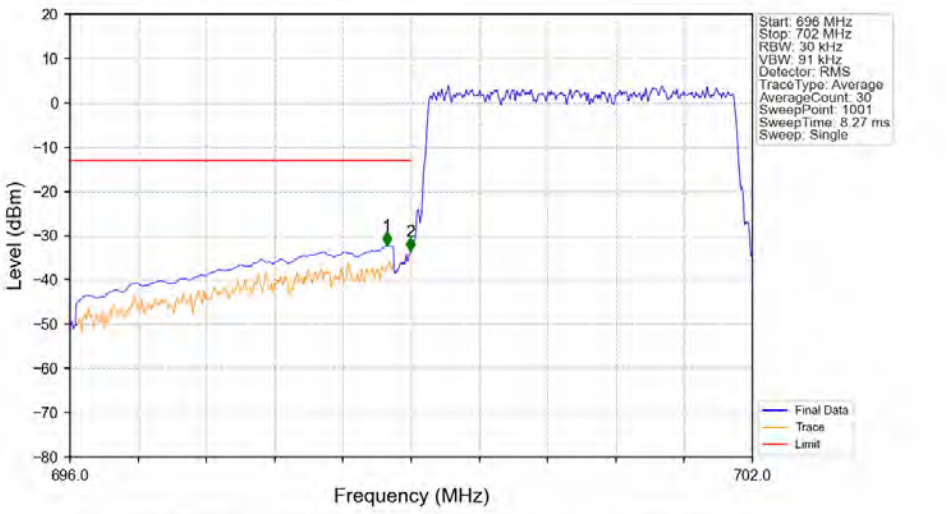



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -31.62 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.964 | -18.84 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

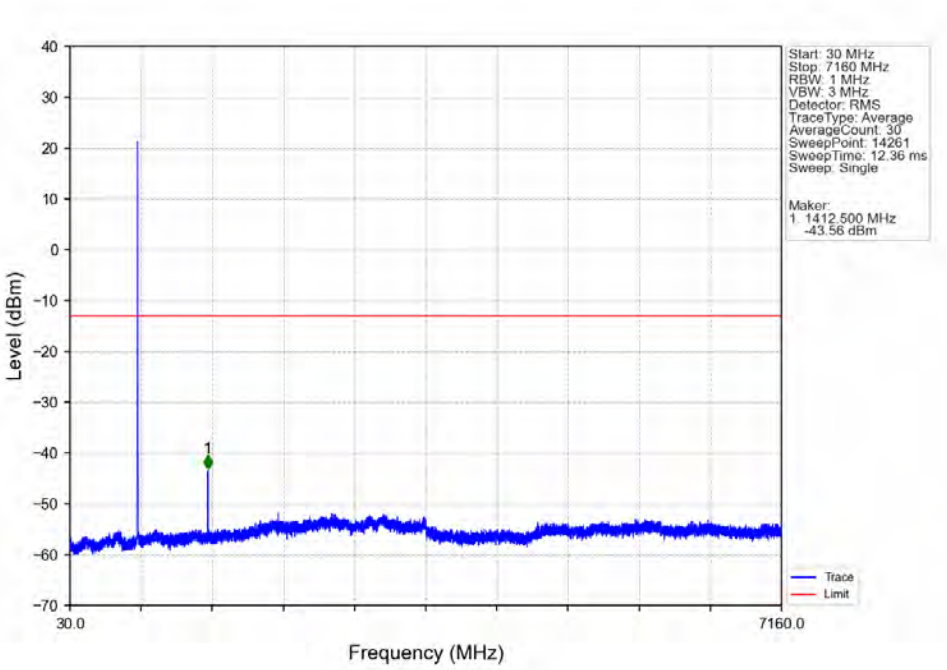



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

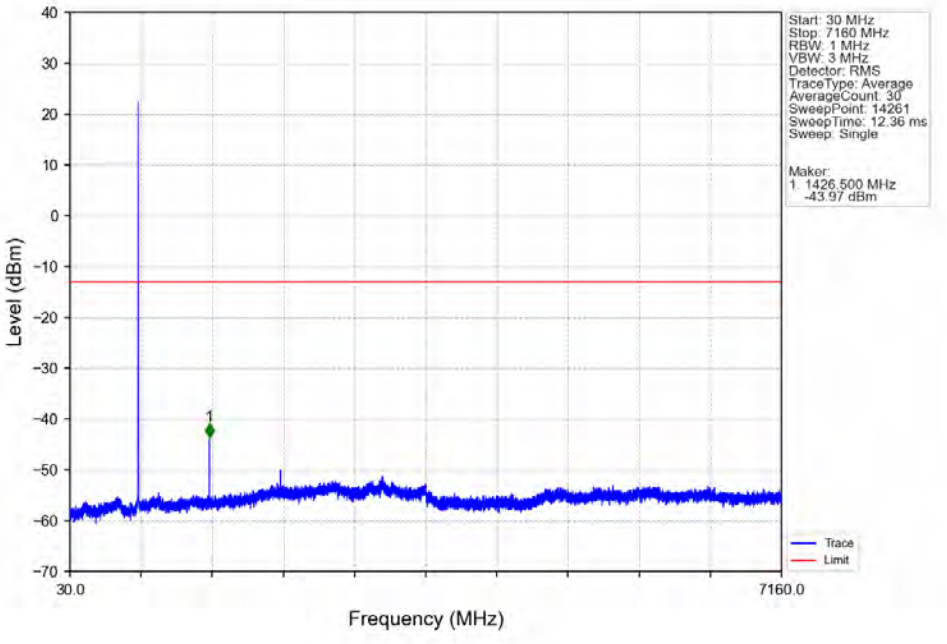



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.784 | -32.29 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -33.51 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

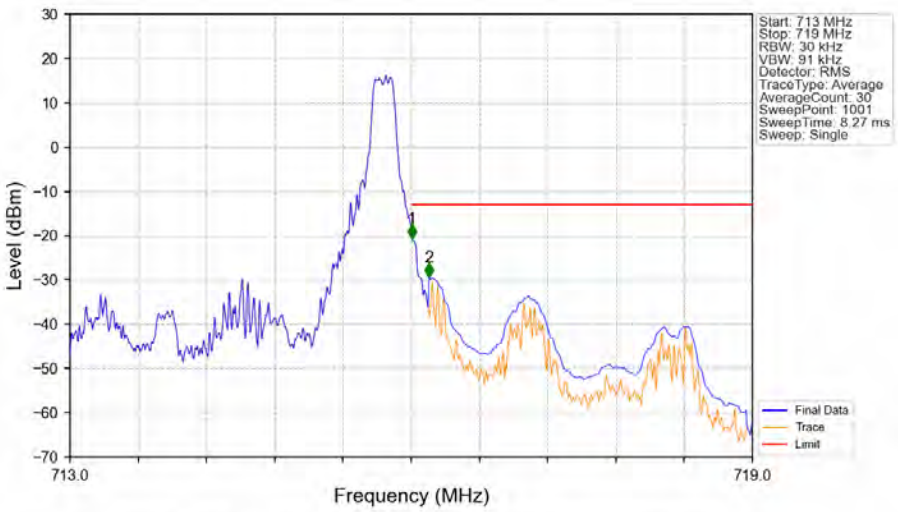
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV




Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV

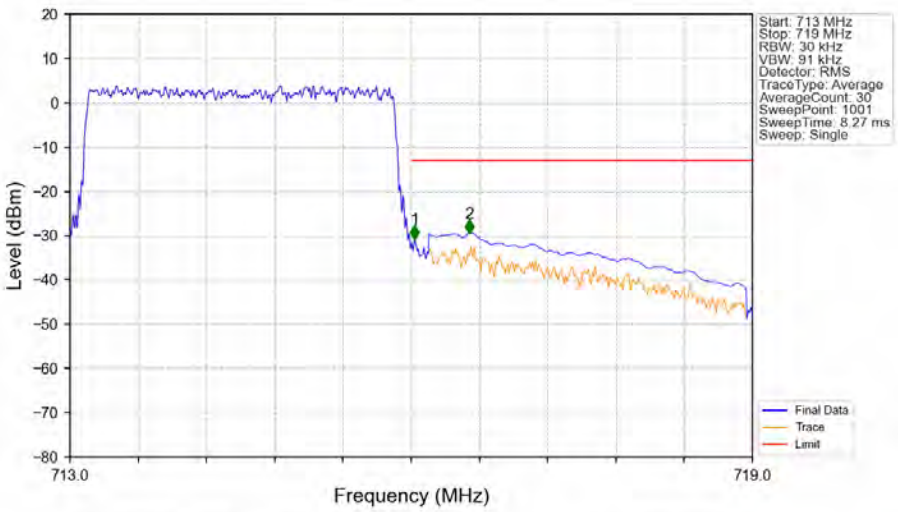


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



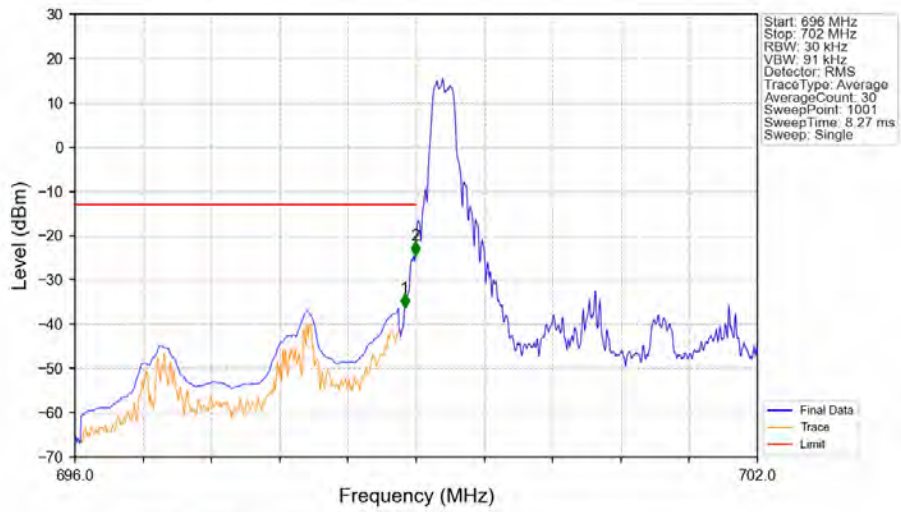

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -20.61 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.156 | -29.31 | -13 | Pass |

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



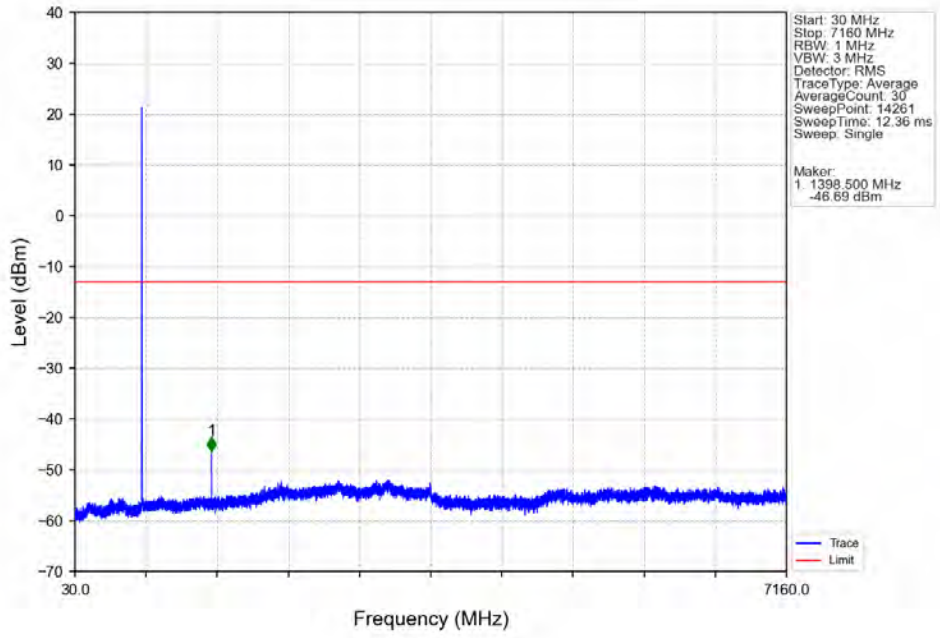

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.030 | -30.81 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.510 | -29.42 | -13 | Pass |

Band12_3MHz_64QAM_LCH_700.5MHz_RB_1_0_NTNV

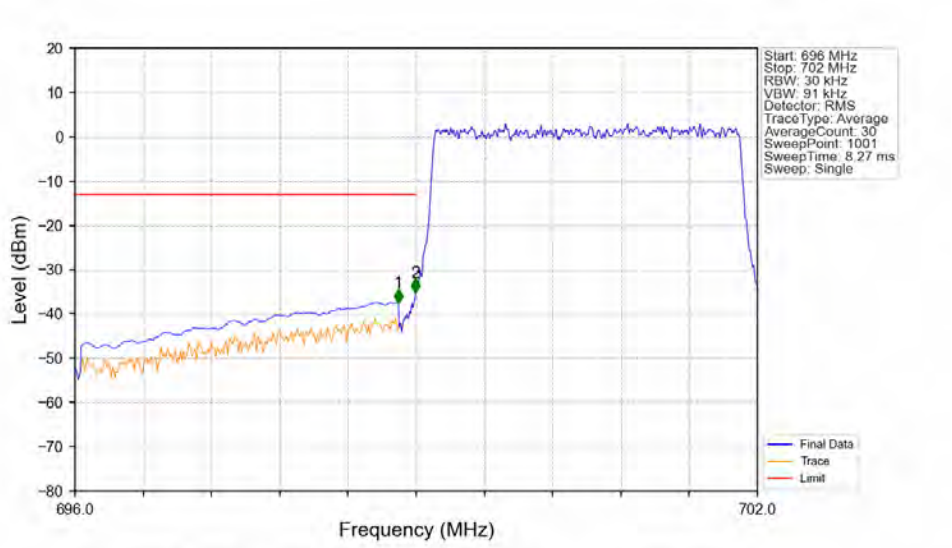



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.898 | -36.31 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -24.46 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

Band12_3MHz_64QAM_LCH_700.5MHz_RB_1_0_NTNV

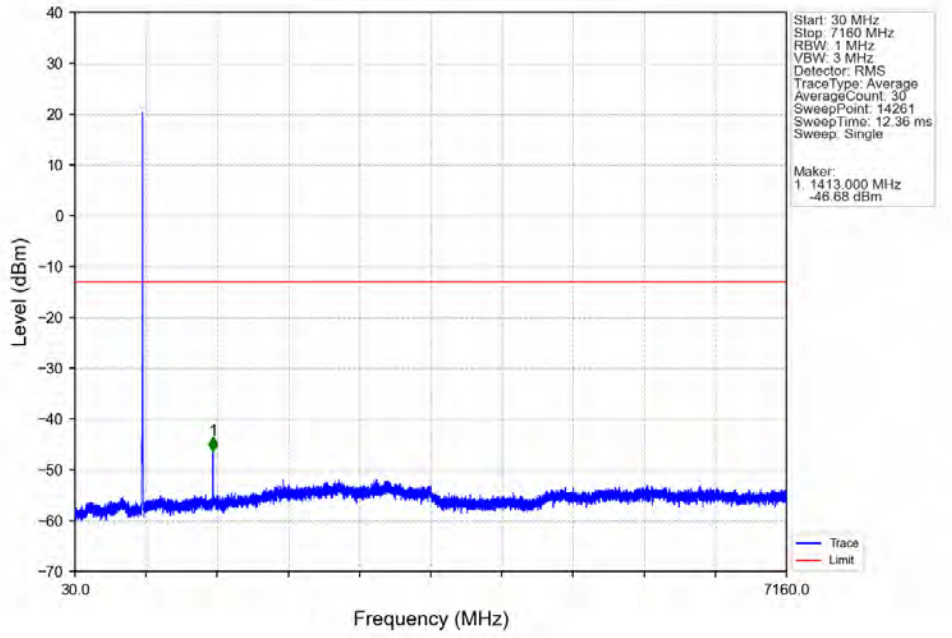


Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV

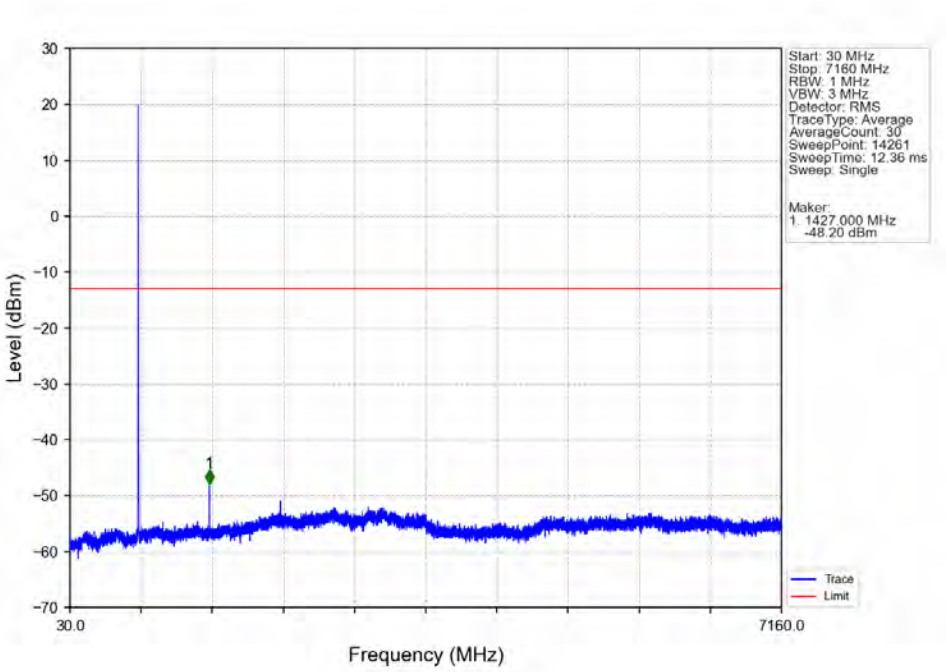



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 696 | 698.9 | 0.1 | CHP | 1 | 698.844 | -37.41 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.994 | -35.20 | -13 | Pass |
| 699 | 702 | 0.03 | / | / | / | / | / | / |

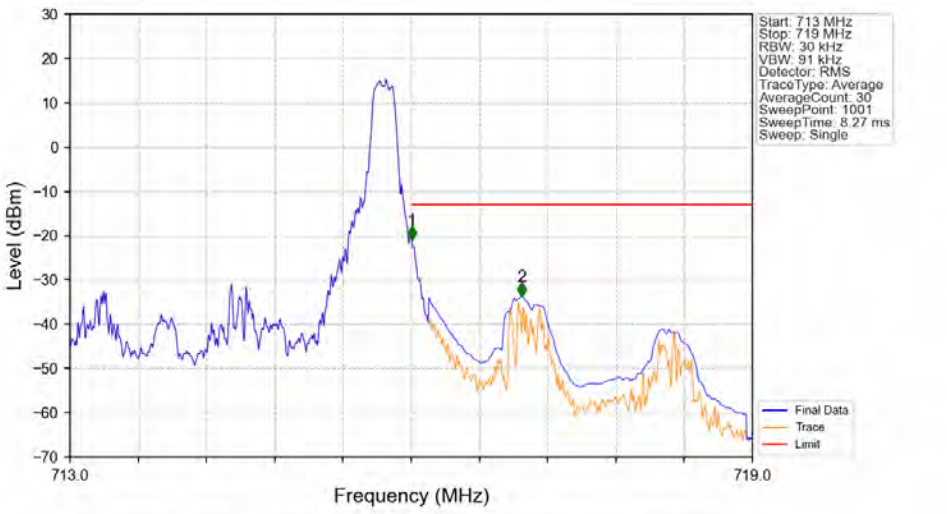
Band12_3MHz_64QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_64QAM_HCH_714.5MHz_RB_1_0_NTNV

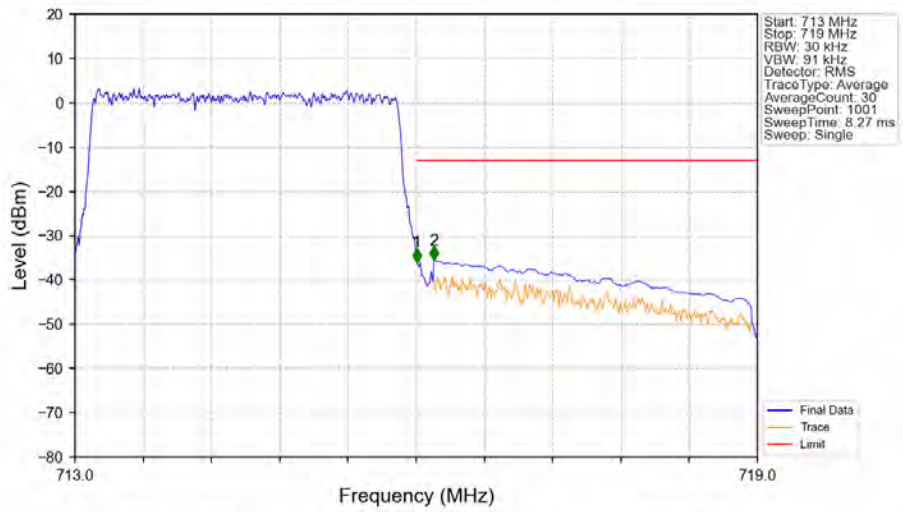



Band12_3MHz_64QAM_HCH_714.5MHz_RB_1_14_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -20.96 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.972 | -33.69 | -13 | Pass |

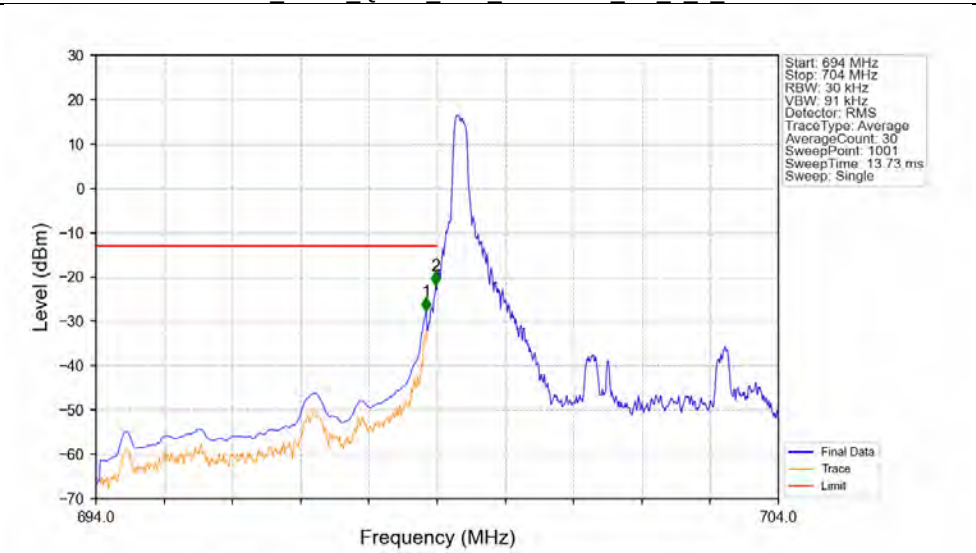
Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 713 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.006 | -35.96 | -13 | Pass |
| 716.1 | 719 | 0.1 | CHP | 2 | 716.156 | -35.51 | -13 | Pass |

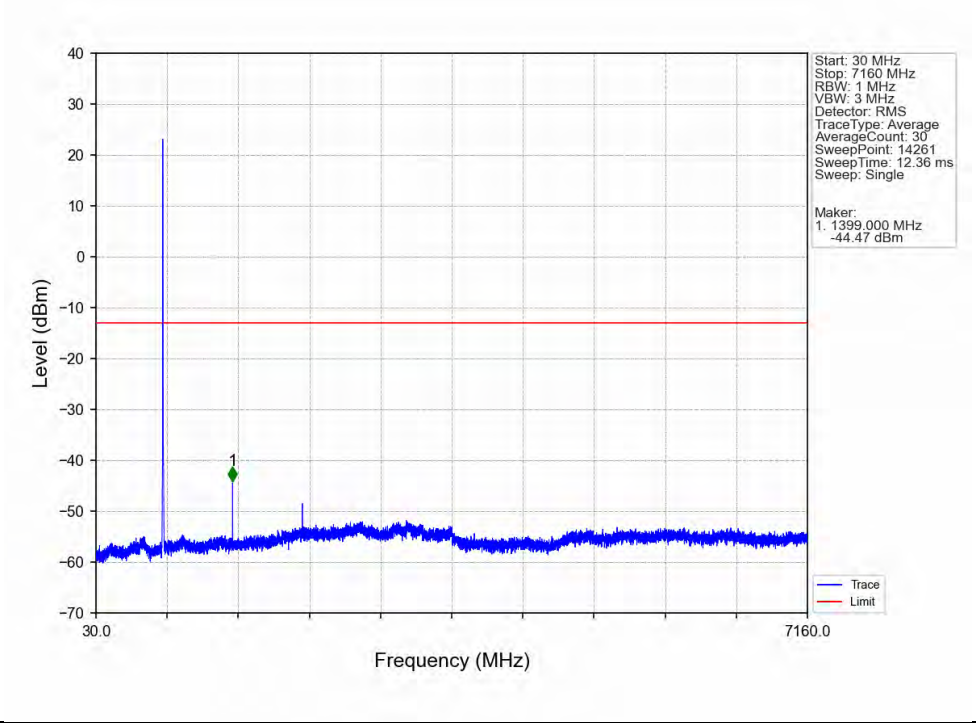
## 5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

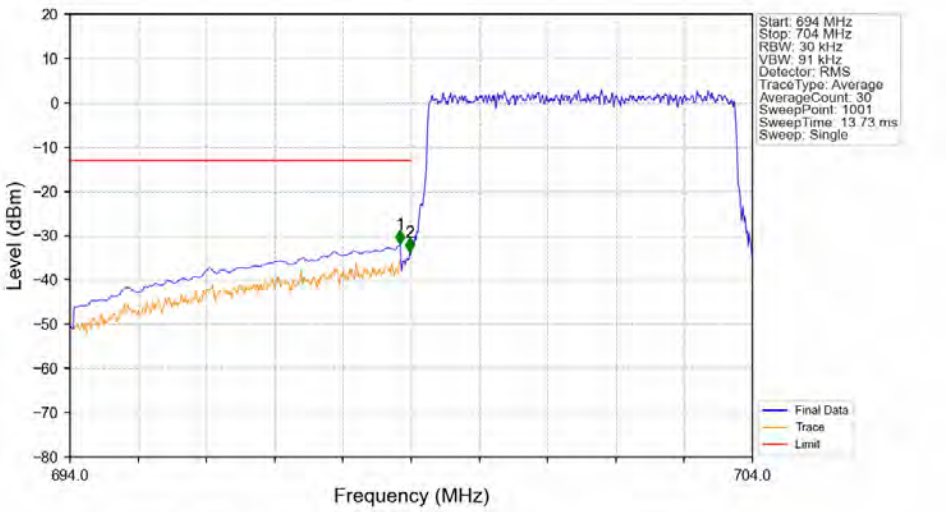



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.840 | -27.70 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.980 | -21.89 | -13 | Pass |
| 699 | 704 | 0.03 | / | / | / | / | / | / |

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

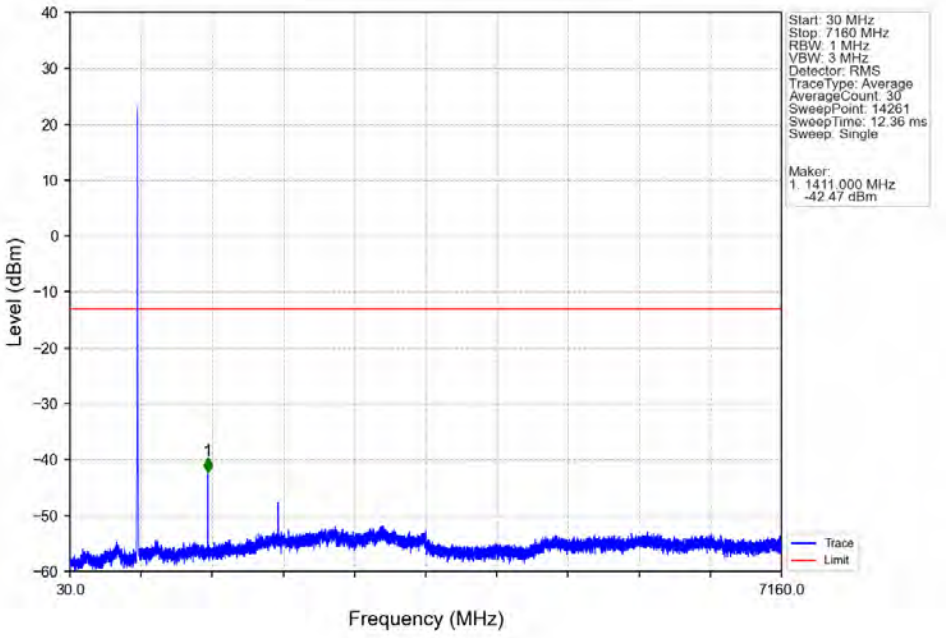


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

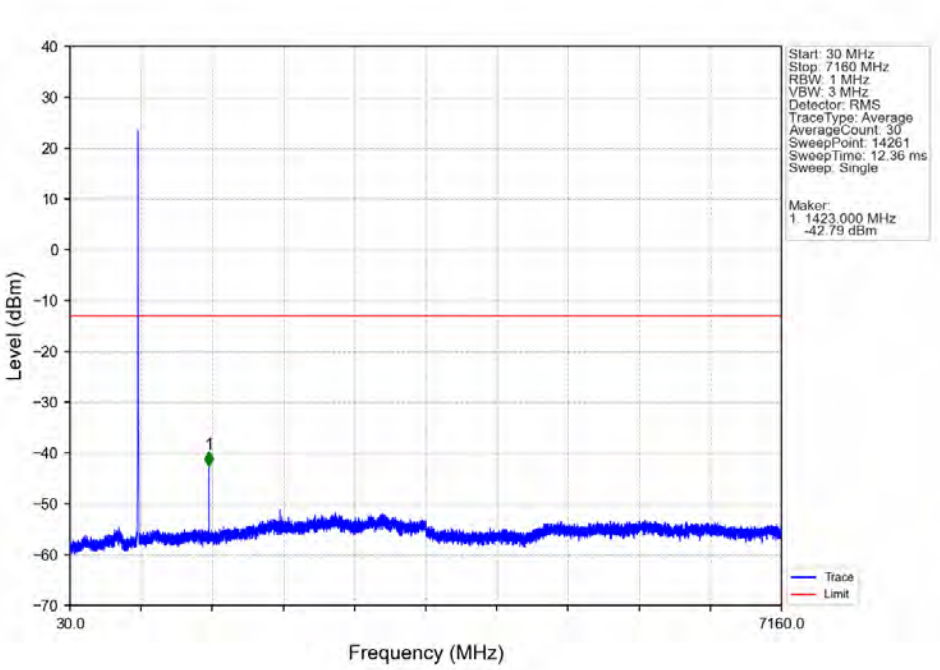



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.840 | -31.91 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.980 | -33.60 | -13 | Pass |
| 699 | 704 | 0.03 | / | / | / | / | / | / |

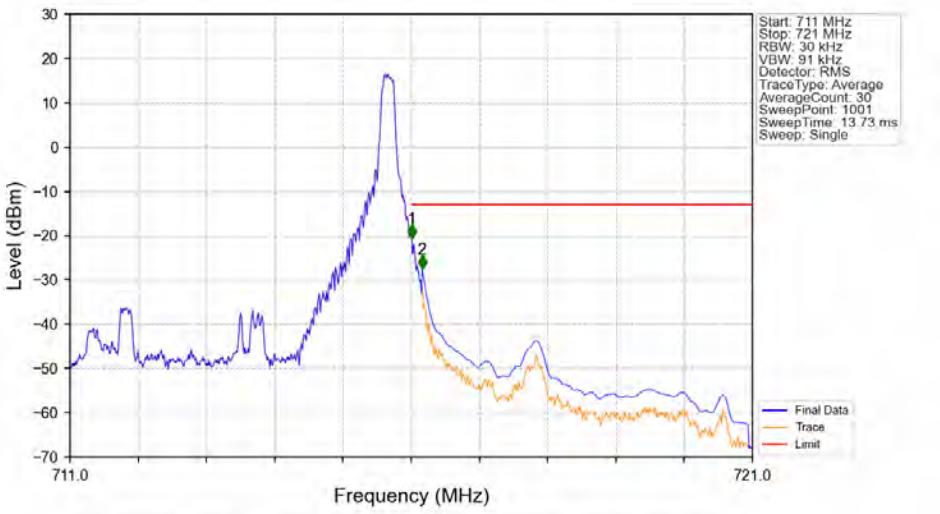
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

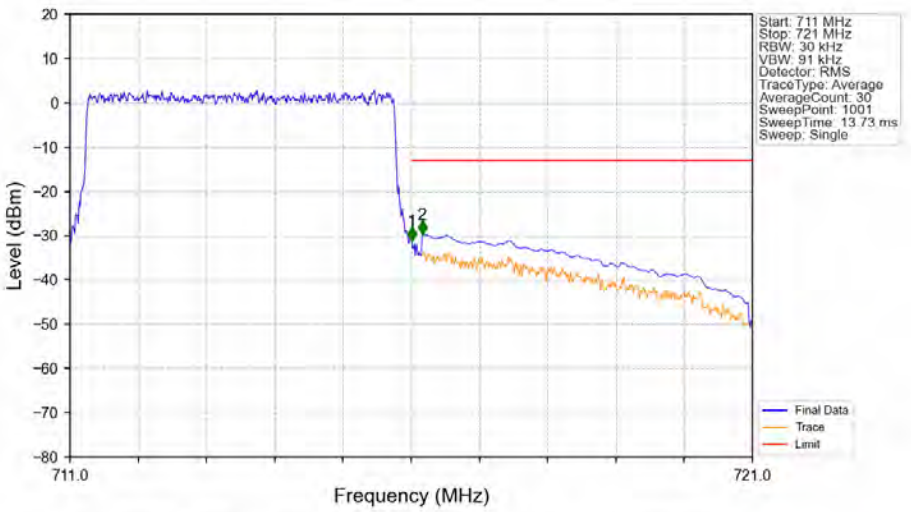



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



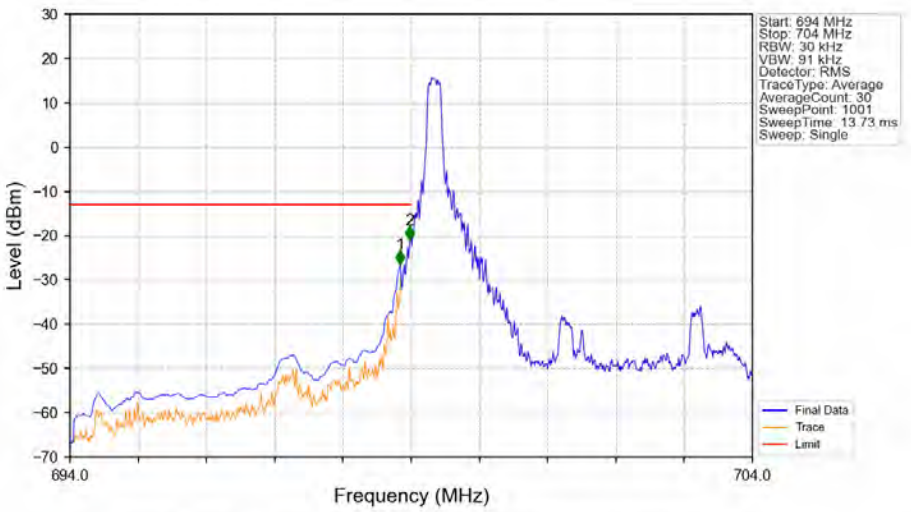

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 711 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.010 | -20.62 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.160 | -27.59 | -13 | Pass |

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



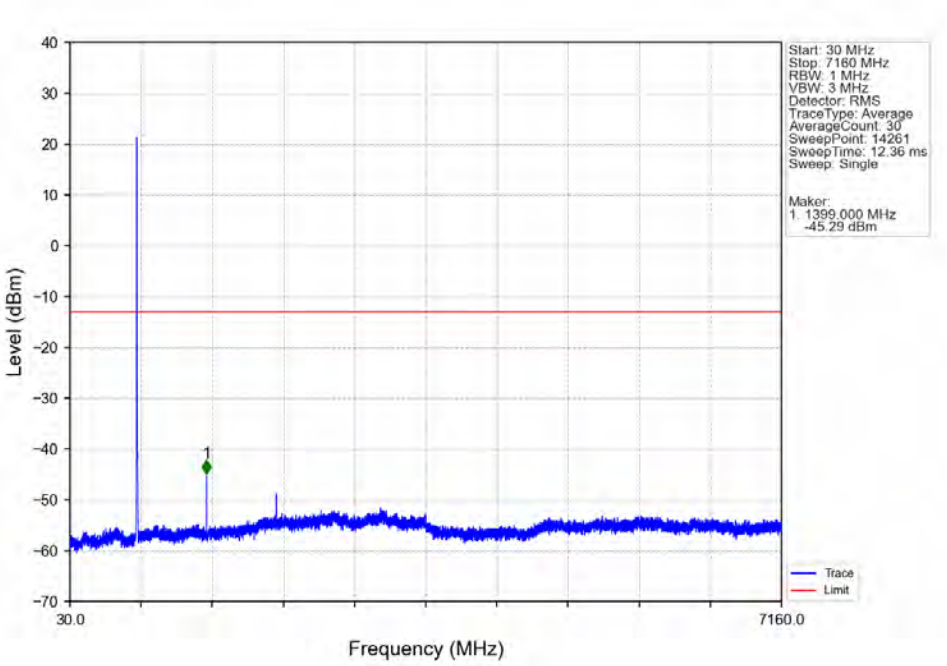

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 711 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.010 | -31.13 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.160 | -29.63 | -13 | Pass |

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

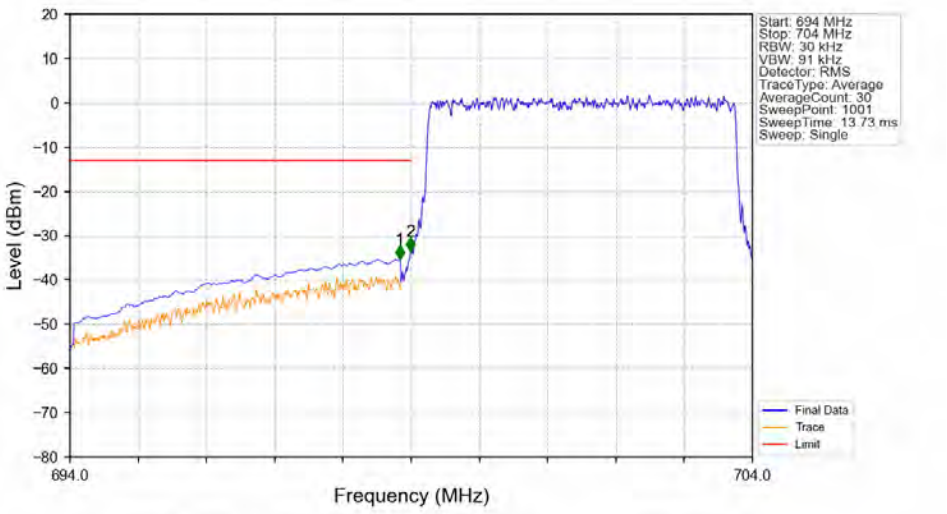



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.840 | -26.39 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.980 | -20.90 | -13 | Pass |
| 699 | 704 | 0.03 | / | / | / | / | / | / |

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

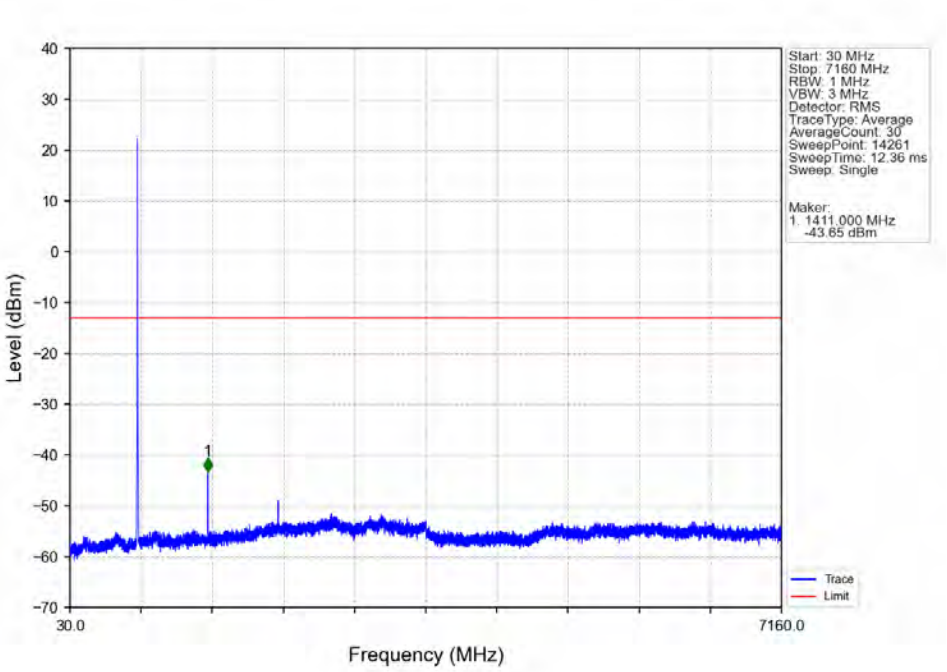



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

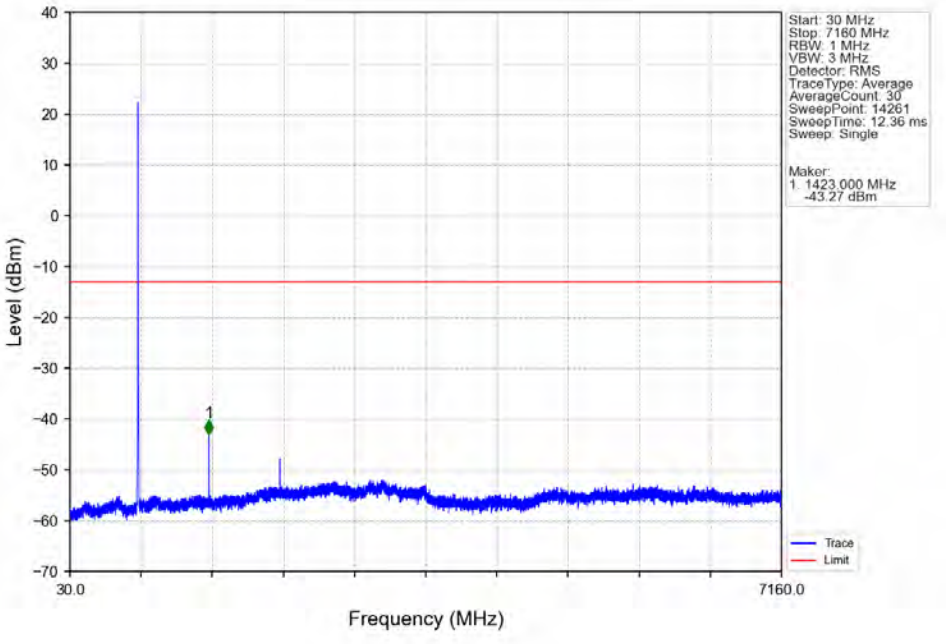



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.830 | -35.30 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.990 | -33.48 | -13 | Pass |
| 699 | 704 | 0.03 | / | / | / | / | / | / |

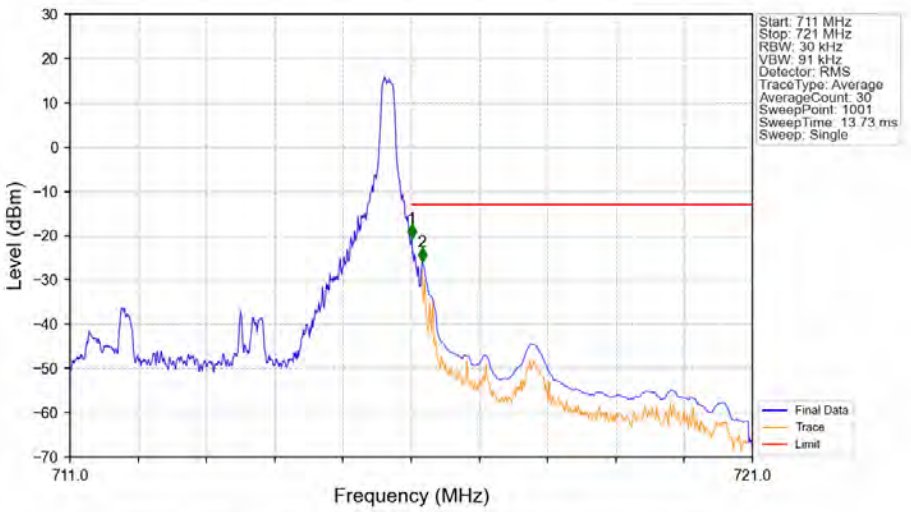
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV




Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

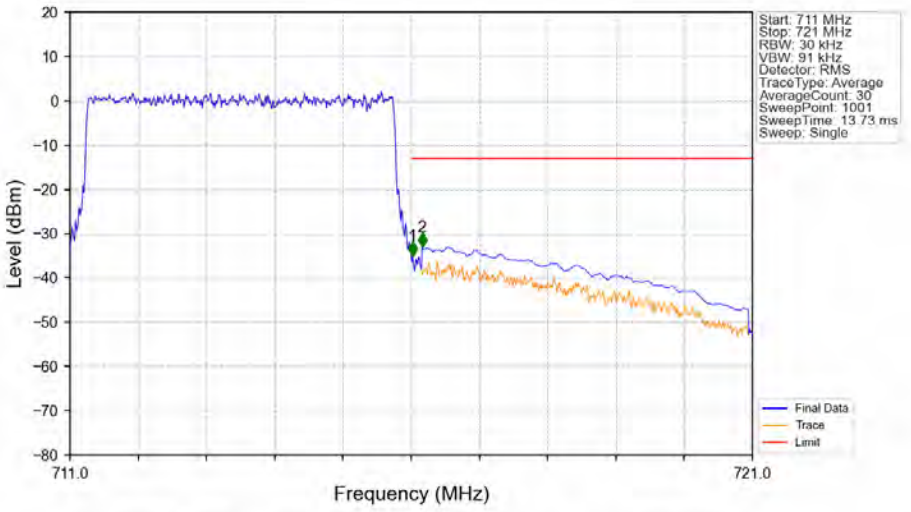


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



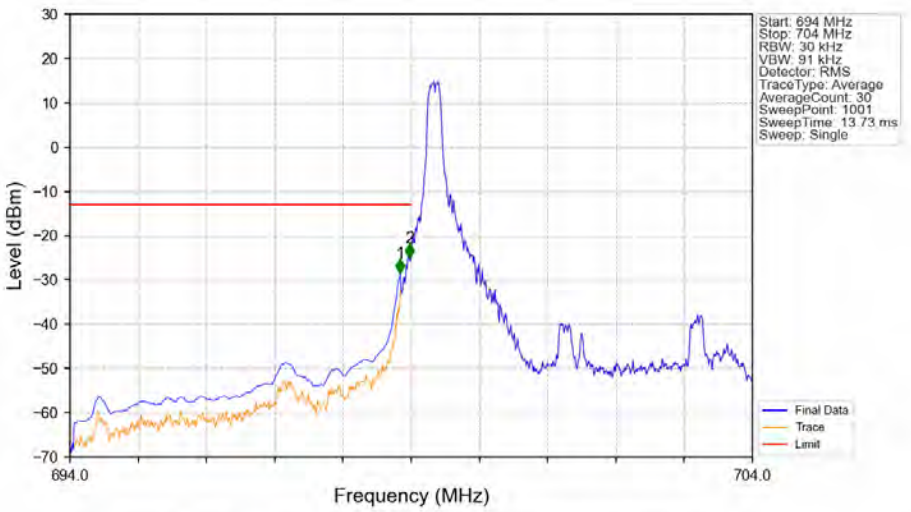

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 711 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.010 | -20.53 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.160 | -25.84 | -13 | Pass |

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



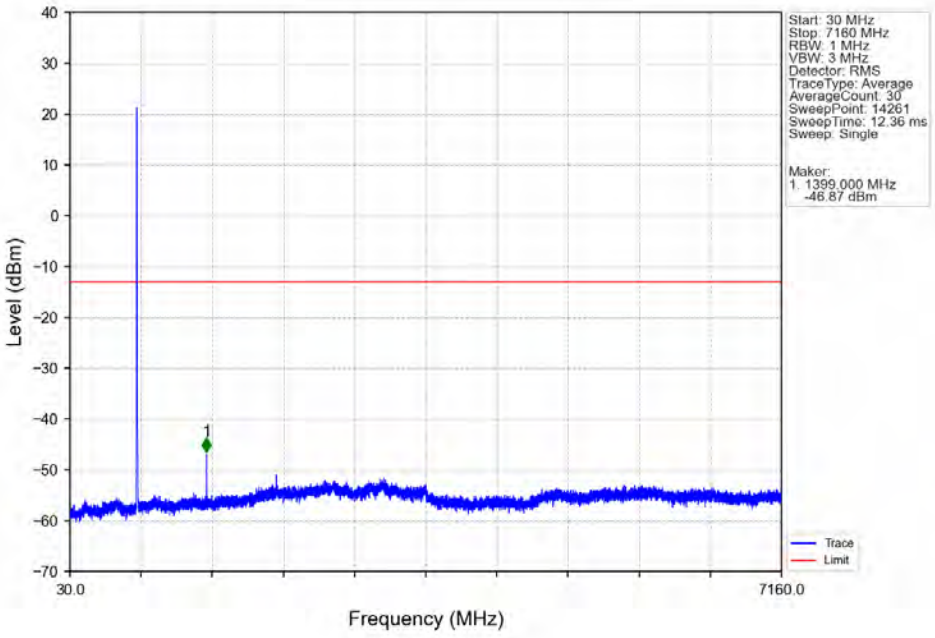

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 711 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.020 | -34.94 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.160 | -32.94 | -13 | Pass |

Band12_5MHz_64QAM_LCH_701.5MHz_RB_1_0_NTNV

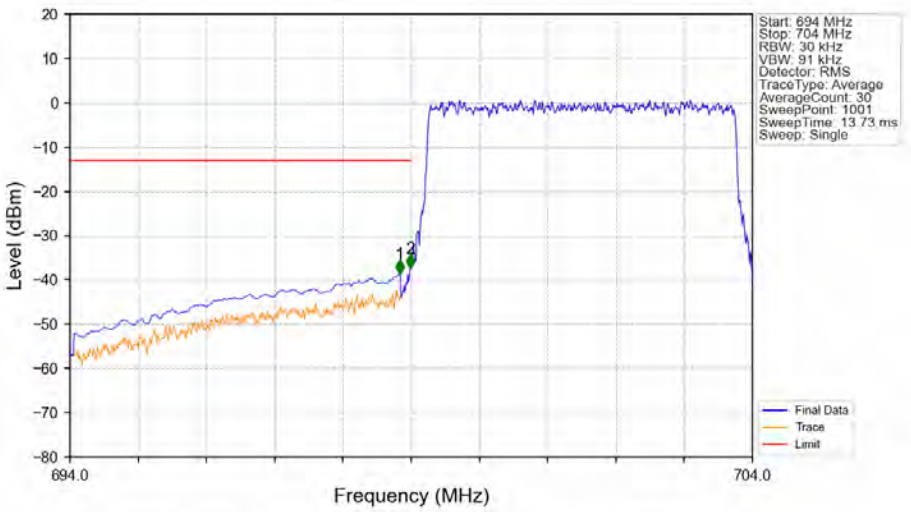



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.840 | -28.50 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.980 | -24.87 | -13 | Pass |
| 699 | 704 | 0.03 | / | / | / | / | / | / |

Band12_5MHz_64QAM_LCH_701.5MHz_RB_1_0_NTNV

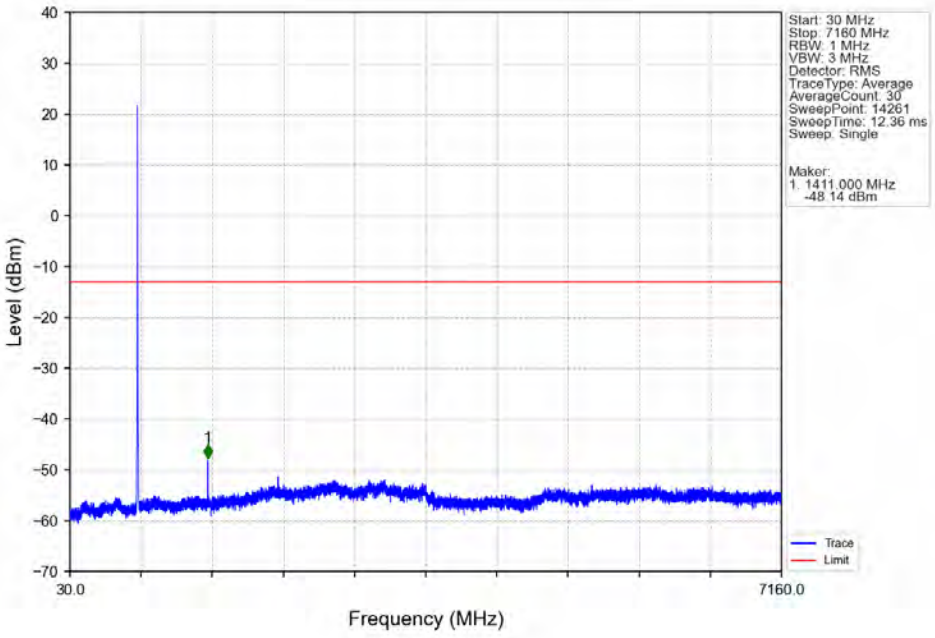


Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV

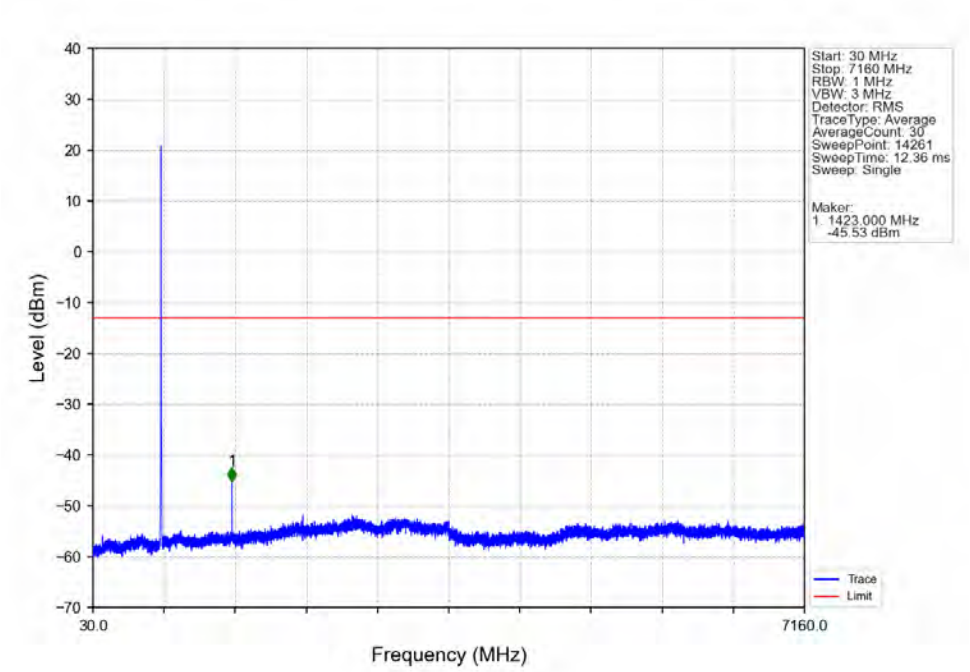



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 694 | 698.9 | 0.1 | CHP | 1 | 698.830 | -38.68 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.990 | -37.27 | -13 | Pass |
| 699 | 704 | 0.03 | / | / | / | / | / | / |

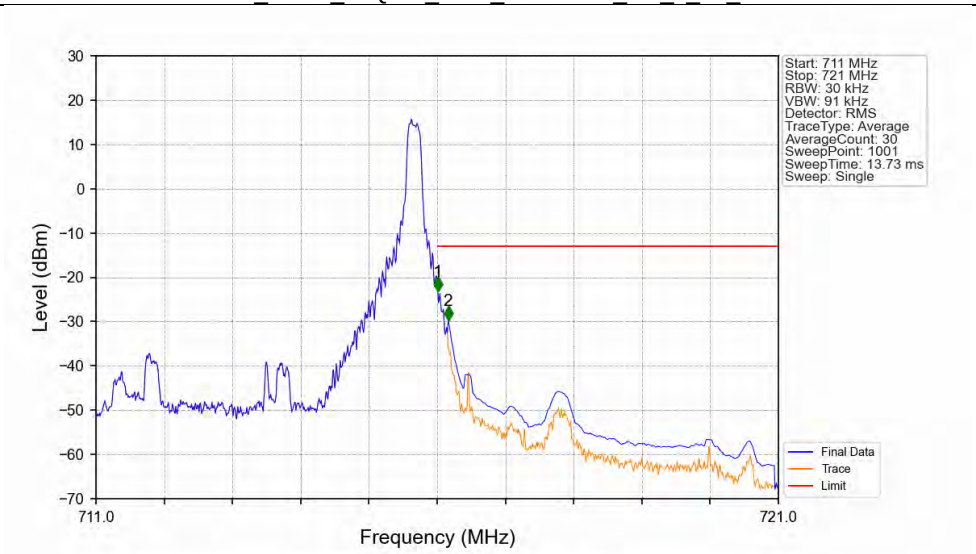
Band12_5MHz_64QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_64QAM_HCH_713.5MHz_RB_1_0_NTNV

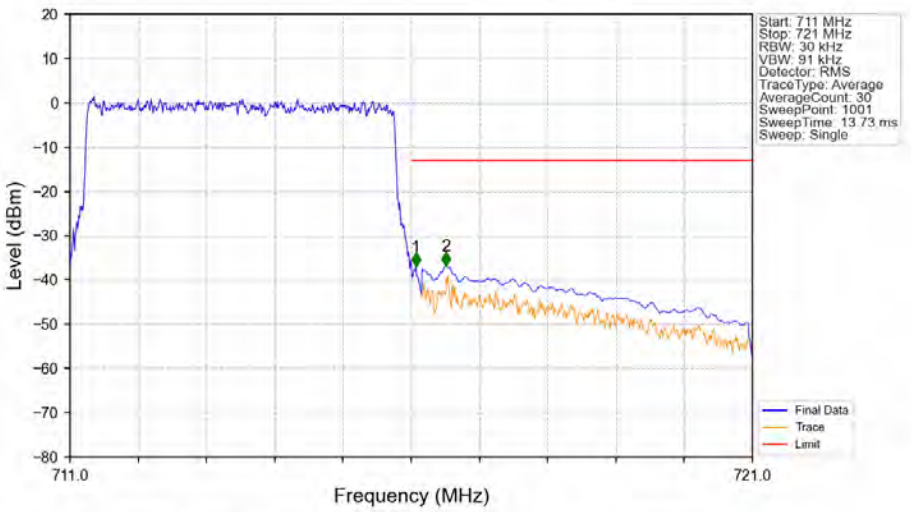



Band12_5MHz_64QAM_HCH_713.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 711 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.010 | -23.09 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.160 | -29.72 | -13 | Pass |

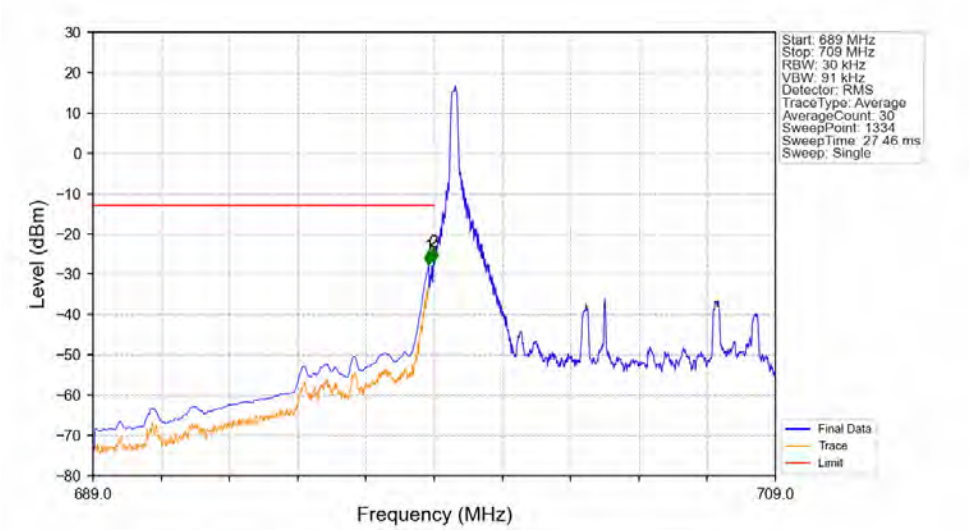
Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 711 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.070 | -37.01 | -13 | Pass |
| 716.1 | 721 | 0.1 | CHP | 2 | 716.510 | -36.78 | -13 | Pass |

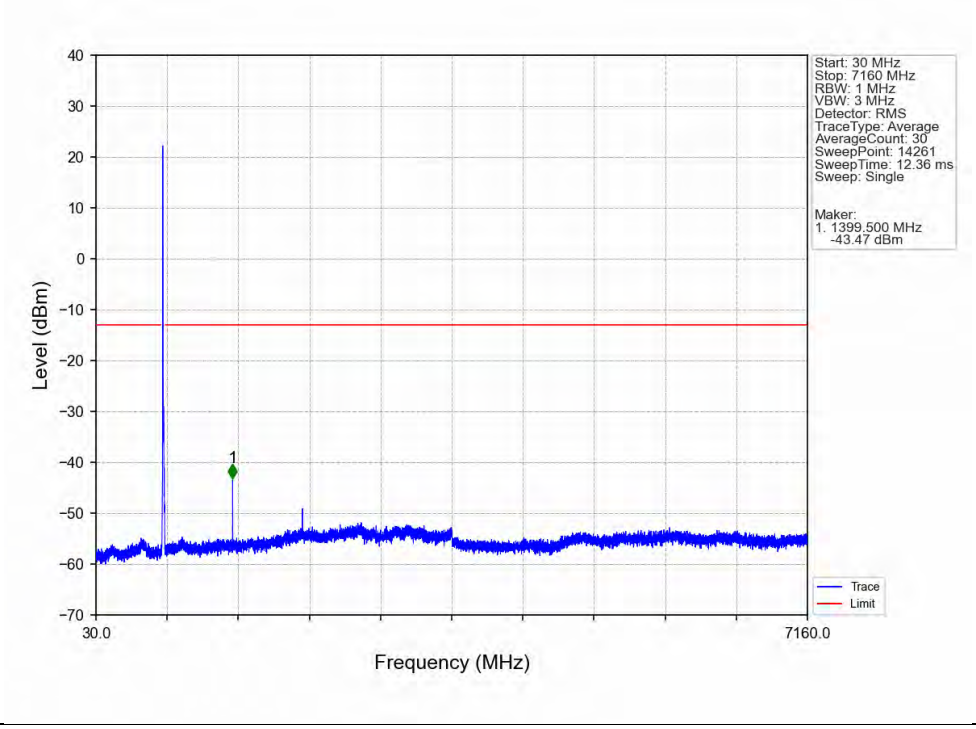
## 5.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

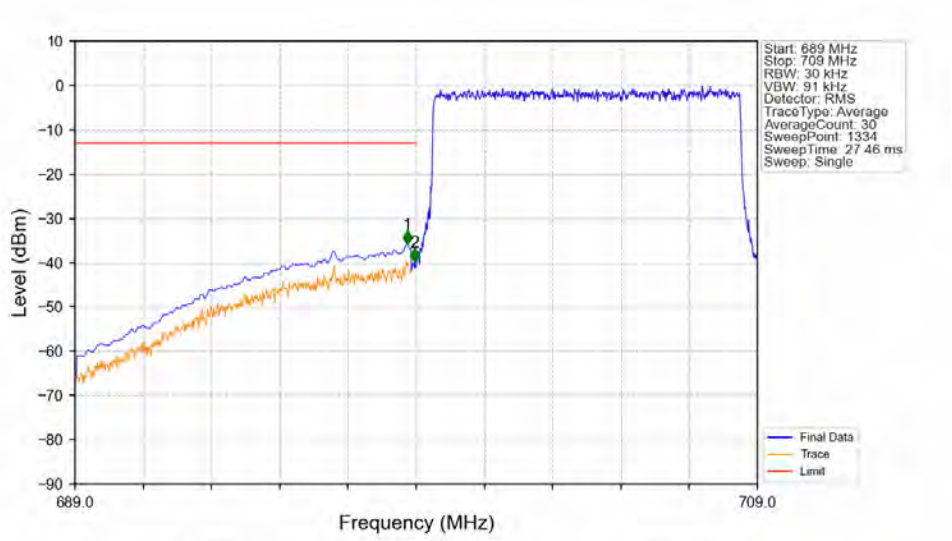



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 689 | 698.9 | 0.1 | CHP | 1 | 698.842 | -27.70 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.977 | -26.77 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

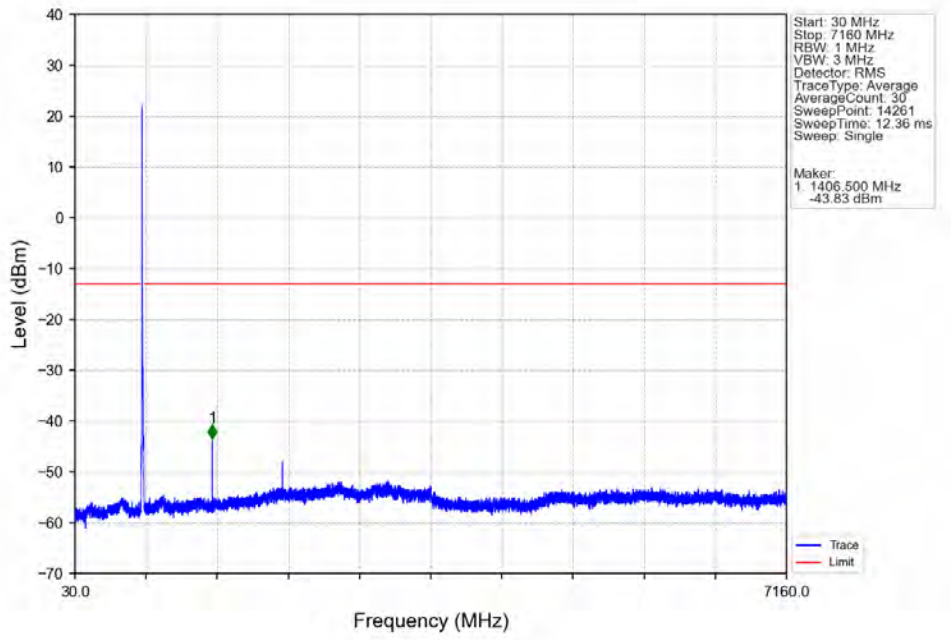


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

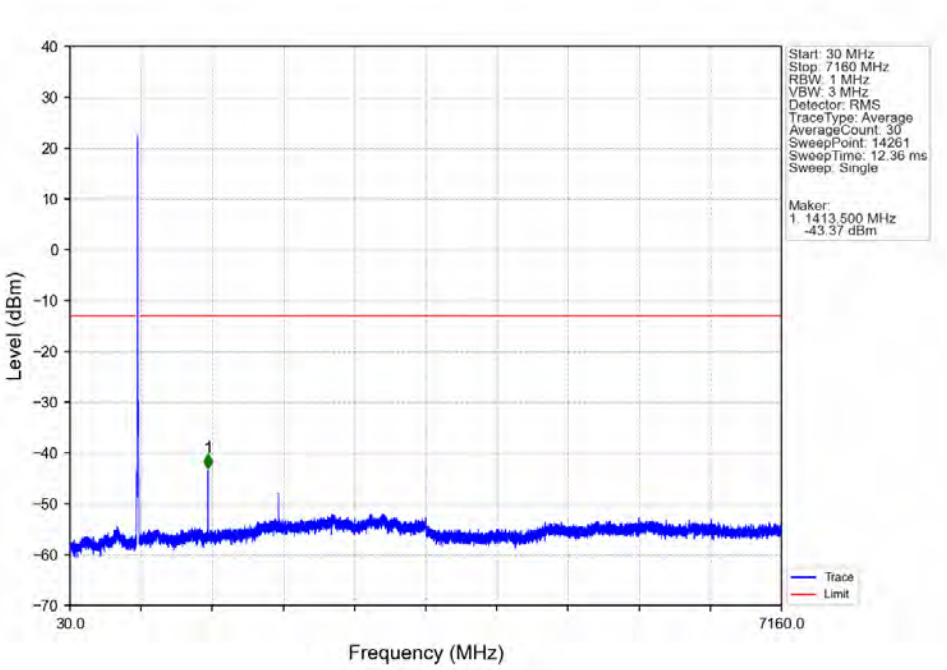



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 689 | 698.9 | 0.1 | CHP | 1 | 698.737 | -35.79 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.962 | -39.83 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

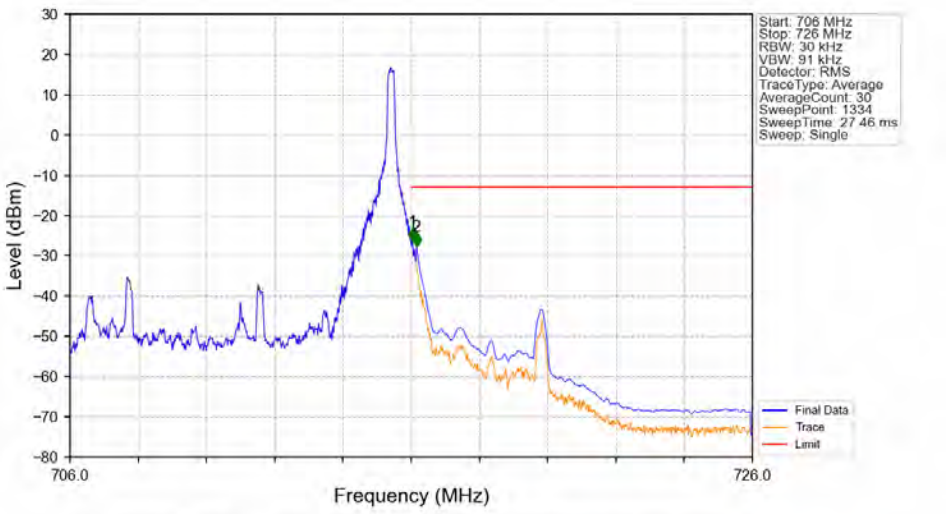
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

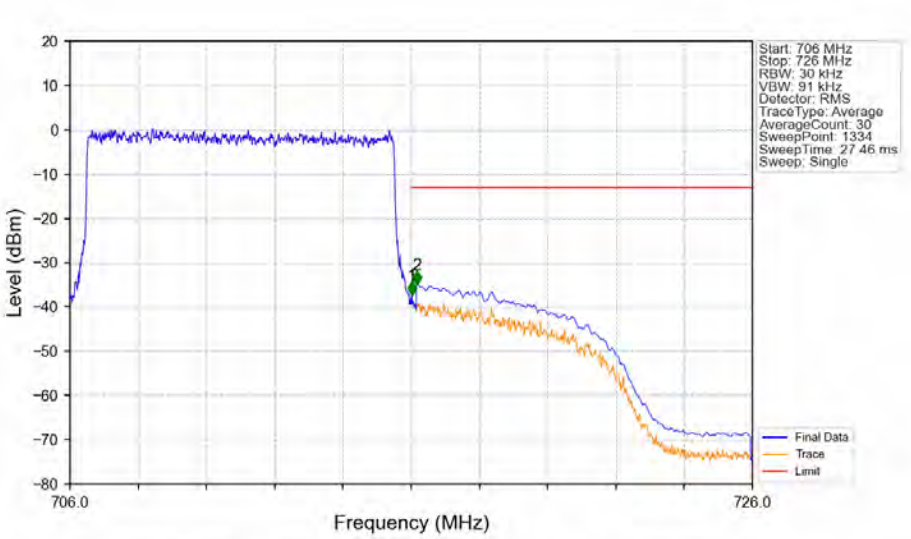



Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



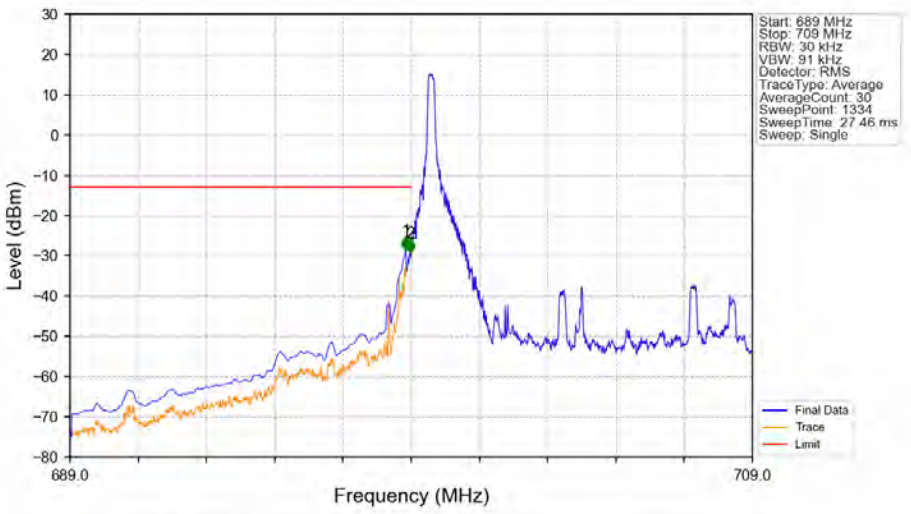

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.038 | -26.37 | -13 | Pass |
| 716.1 | 726 | 0.1 | CHP | 2 | 716.158 | -27.72 | -13 | Pass |

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



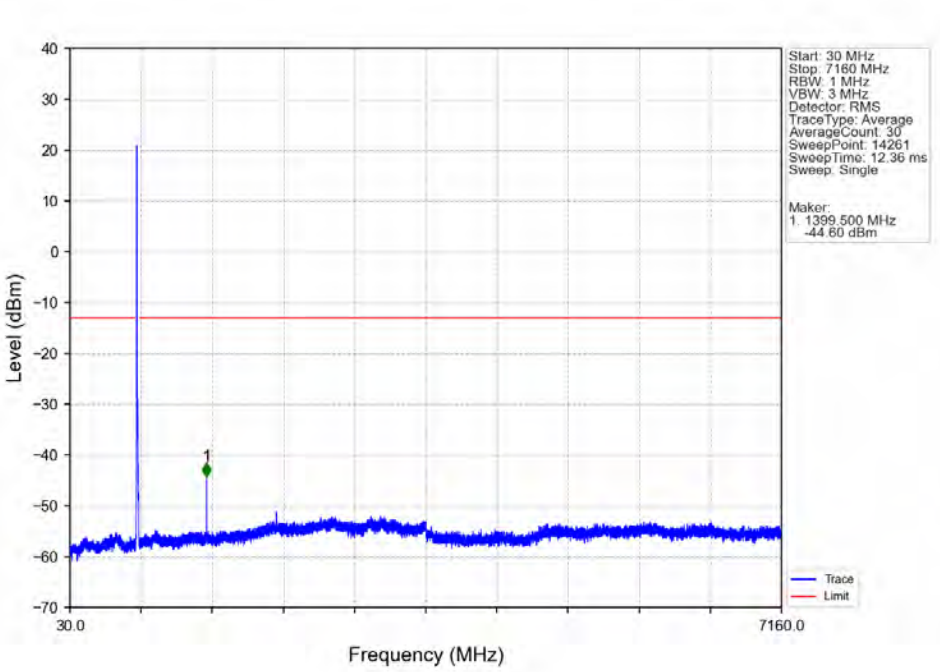

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.023 | -37.29 | -13 | Pass |
| 716.1 | 726 | 0.1 | CHP | 2 | 716.173 | -35.02 | -13 | Pass |

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

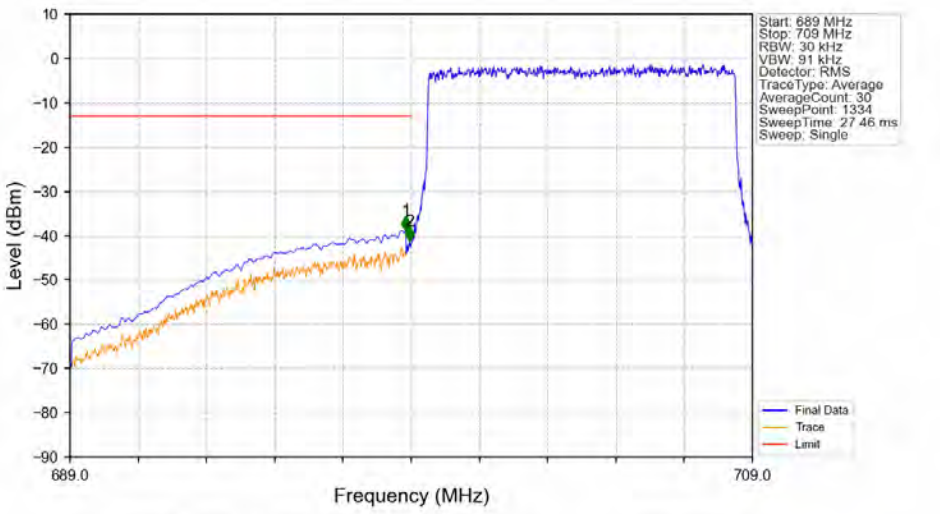



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 689 | 698.9 | 0.1 | CHP | 1 | 698.842 | -28.67 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.977 | -29.28 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

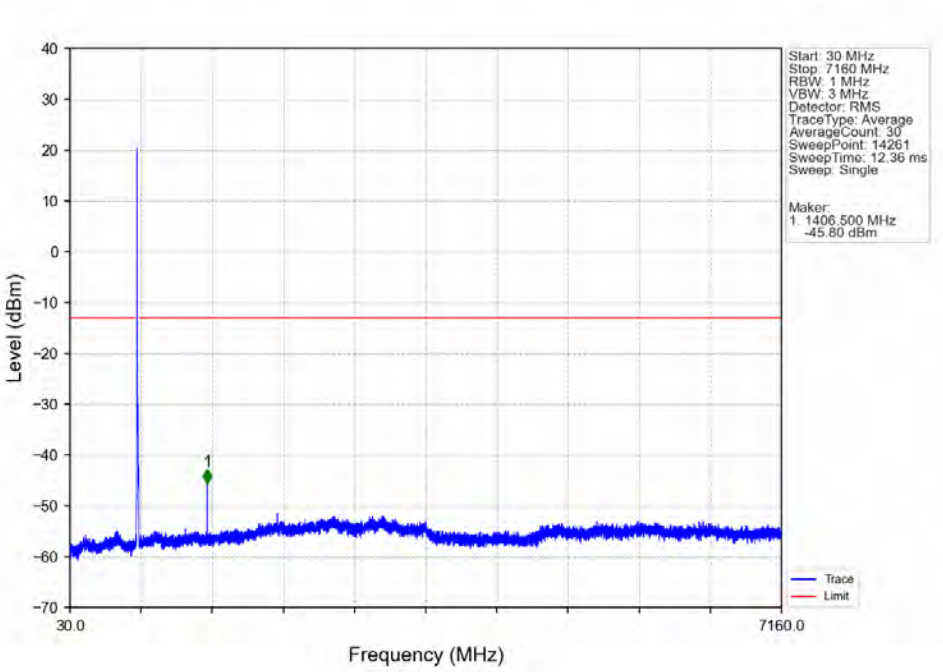



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

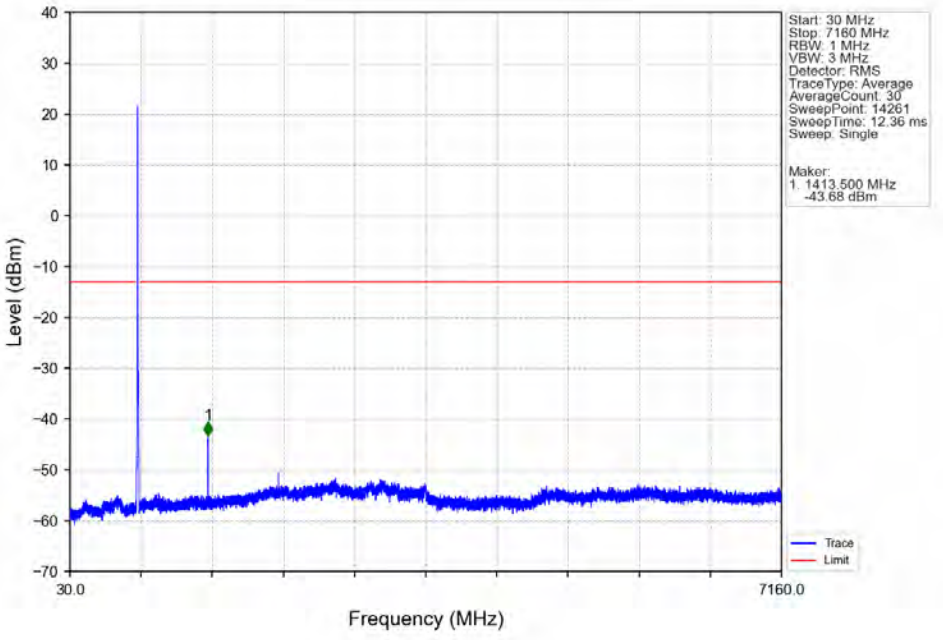



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 689 | 698.9 | 0.1 | CHP | 1 | 698.842 | -38.74 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.947 | -41.16 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

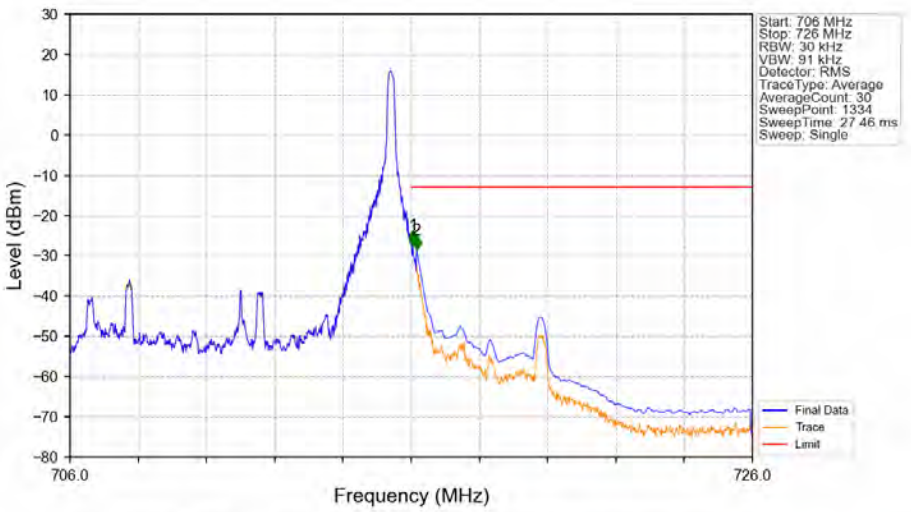
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV




Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

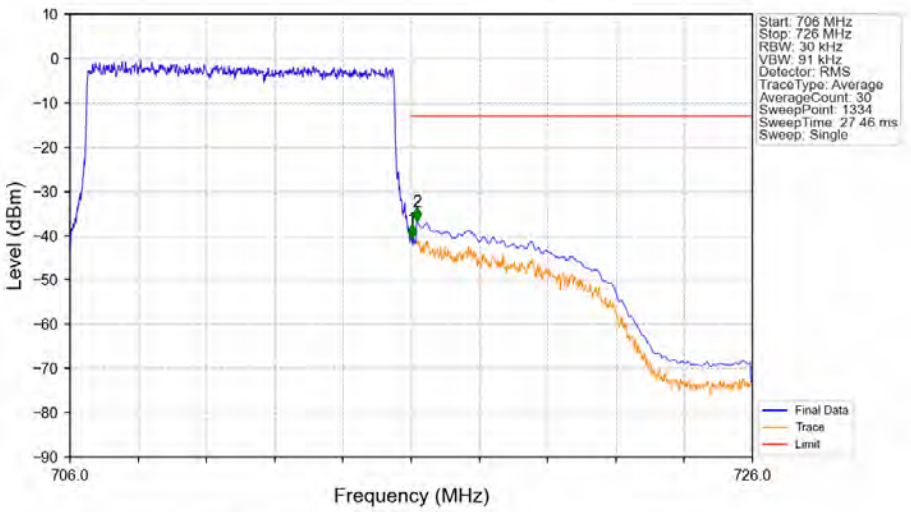


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



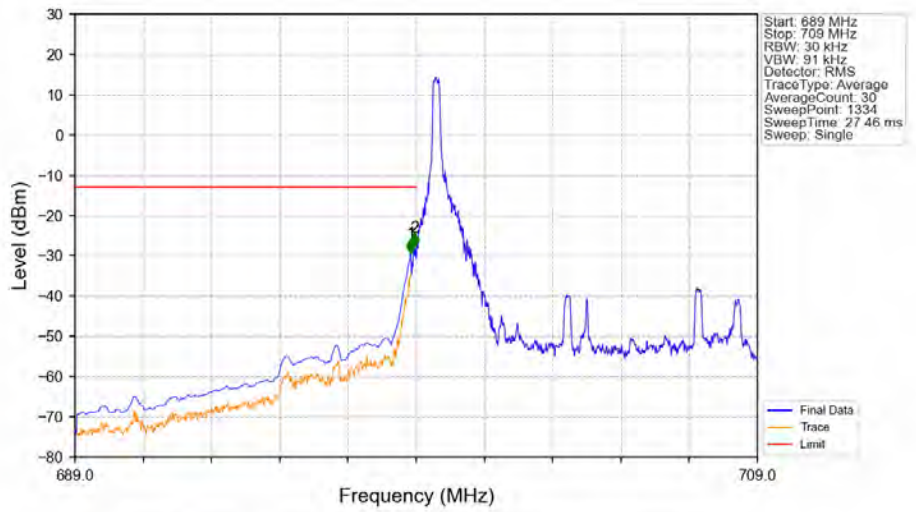

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.053 | -27.23 | -13 | Pass |
| 716.1 | 726 | 0.1 | CHP | 2 | 716.158 | -28.53 | -13 | Pass |

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



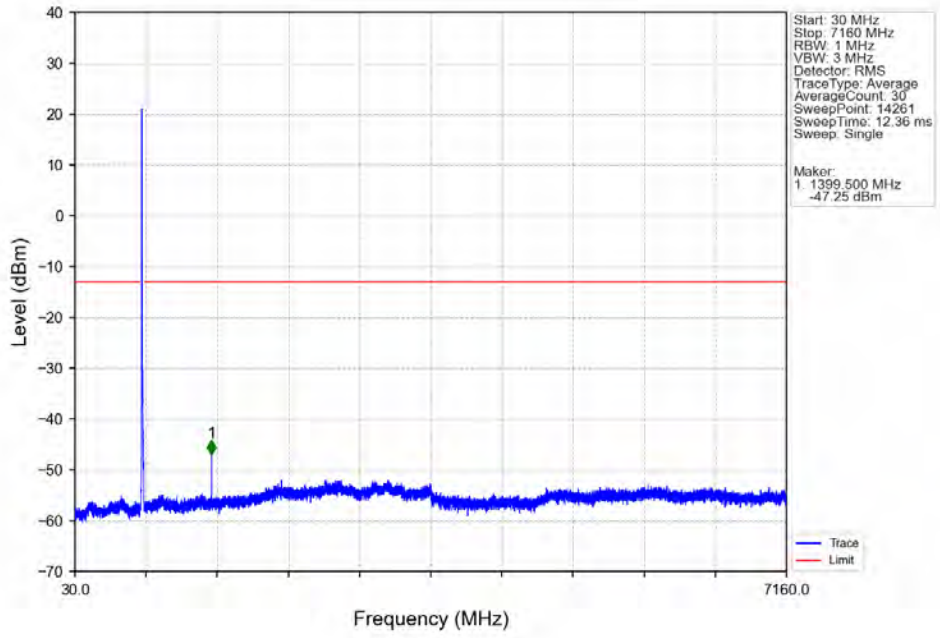

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.023 | -40.52 | -13 | Pass |
| 716.1 | 726 | 0.1 | CHP | 2 | 716.173 | -36.79 | -13 | Pass |

Band12_10MHz_64QAM_LCH_704MHz_RB_1_0_NTNV

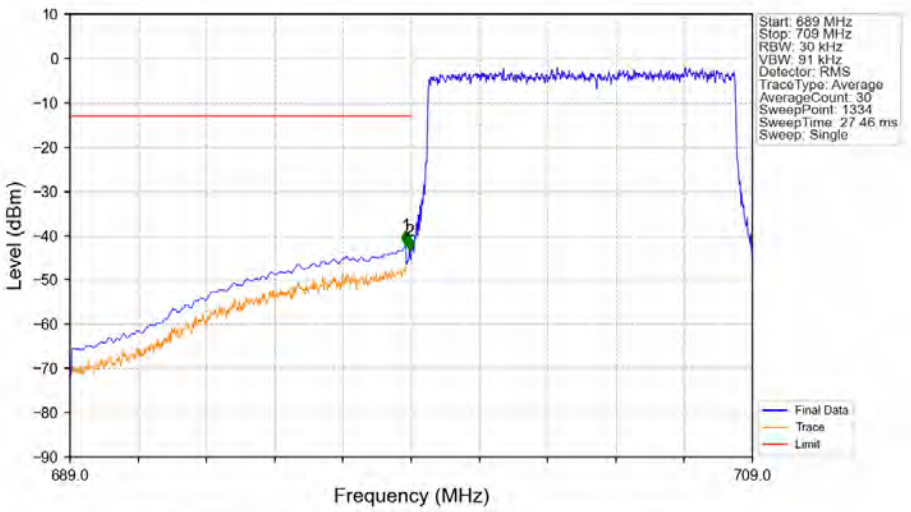



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 689 | 698.9 | 0.1 | CHP | 1 | 698.842 | -29.27 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.962 | -27.87 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

Band12_10MHz_64QAM_LCH_704MHz_RB_1_0_NTNV

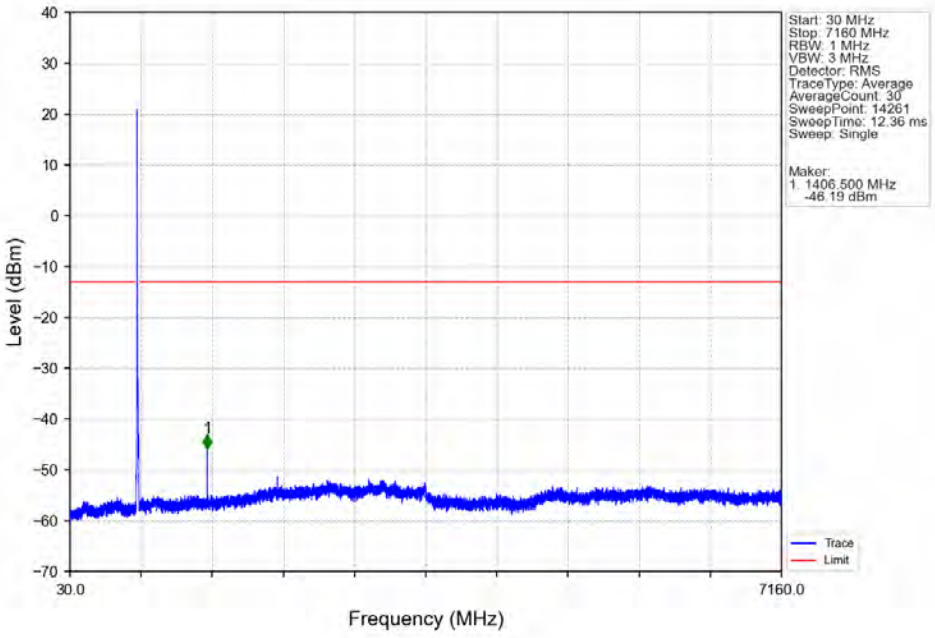


Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV

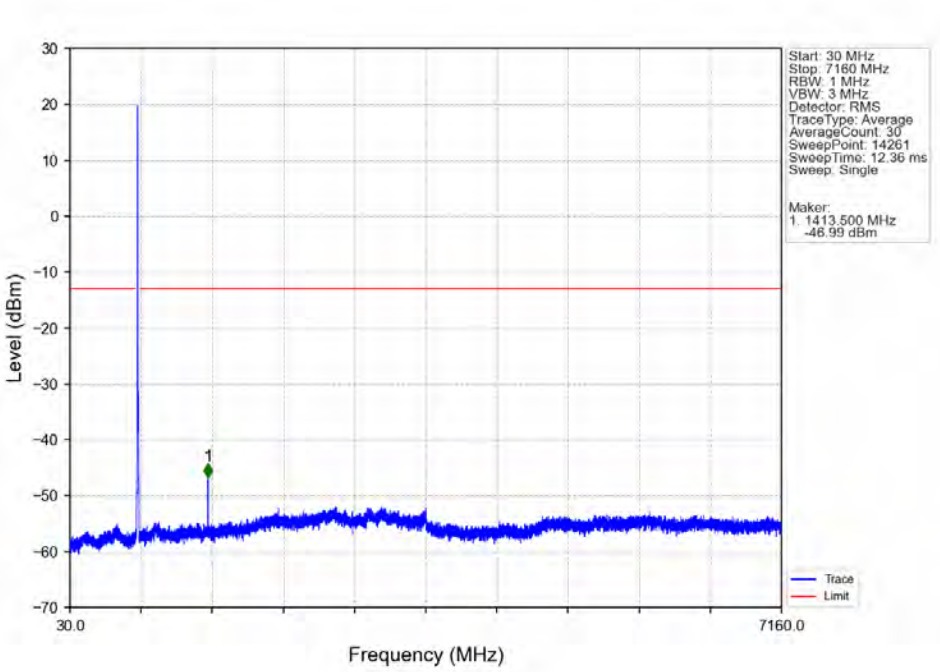



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 689 | 698.9 | 0.1 | CHP | 1 | 698.842 | -41.97 | -13 | Pass |
| 698.9 | 699 | 0.03 | / | 2 | 698.947 | -43.27 | -13 | Pass |
| 699 | 709 | 0.03 | / | / | / | / | / | / |

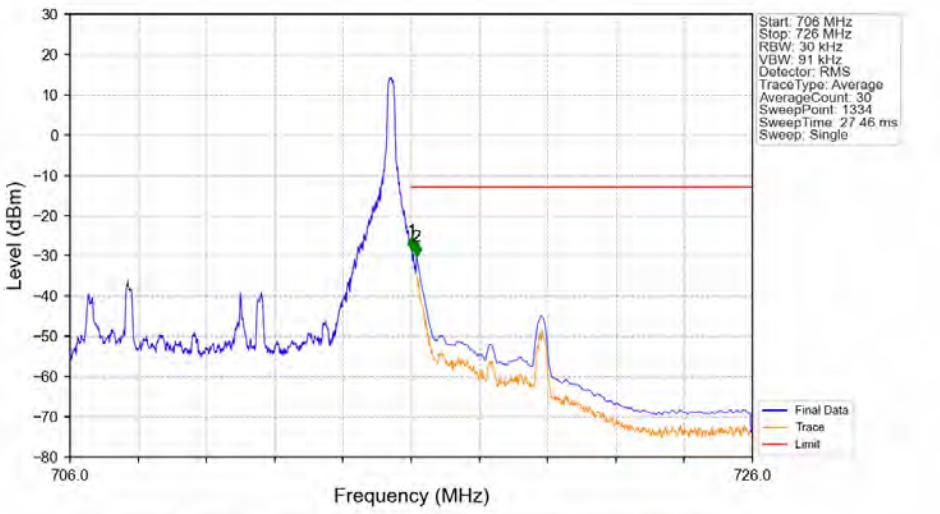
Band12_10MHz_64QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_64QAM_HCH_711MHz_RB_1_0_NTNV

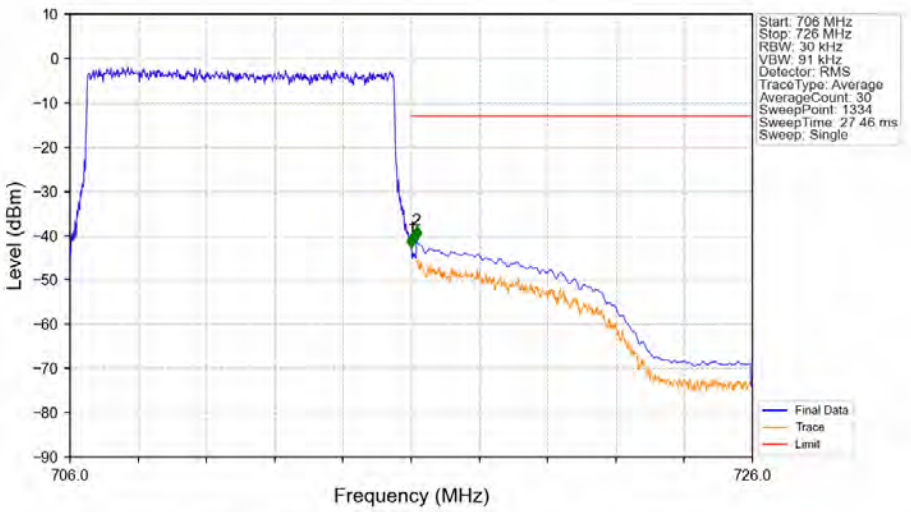



Band12_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.023 | -28.69 | -13 | Pass |
| 716.1 | 726 | 0.1 | CHP | 2 | 716.158 | -30.14 | -13 | Pass |

Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 706 | 716 | 0.03 | / | / | / | / | / | / |
| 716 | 716.1 | 0.03 | / | 1 | 716.008 | -42.75 | -13 | Pass |
| 716.1 | 726 | 0.1 | CHP | 2 | 716.158 | -40.90 | -13 | Pass |

## 6. Field Strength of Spurious Radiation

| LTE Band 12 ANT1-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1399.0 | -54.06 | -13 | -41.06 | -56.83 | 2.47 | 5.24 | Horizontal | Pass |
| 2098.5 | -65.48 | -13 | -52.48 | -67.55 | 2.79 | 4.86 | Horizontal | Pass |
| 2798.0 | -68.24 | -13 | -55.24 | -71.6 | 3.12 | 6.48 | Horizontal | Pass |
| 1399.0 | -57.68 | -13 | -44.68 | -60.45 | 2.47 | 5.24 | Vertical | Pass |
| 2098.5 | -68.64 | -13 | -55.64 | -70.71 | 2.79 | 4.86 | Vertical | Pass |
| 2798.0 | -68.59 | -13 | -55.59 | -71.95 | 3.12 | 6.48 | Vertical | Pass |

| LTE Band 12 ANT1-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1406.0 | -53.53 | -13 | -40.53 | -56.33 | 2.48 | 5.28 | Horizontal | Pass |
| 2109.0 | -68.21 | -13 | -55.21 | -70.29 | 2.8 | 4.88 | Horizontal | Pass |
| 2812.0 | -68.61 | -13 | -55.61 | -72.0 | 3.12 | 6.51 | Horizontal | Pass |
| 1406.0 | -56.25 | -13 | -43.25 | -59.05 | 2.48 | 5.28 | Vertical | Pass |
| 2109.0 | -69.29 | -13 | -56.29 | -71.37 | 2.8 | 4.88 | Vertical | Pass |
| 2812.0 | -68.18 | -13 | -55.18 | -71.57 | 3.12 | 6.51 | Vertical | Pass |

| LTE Band 12 ANT1-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frequency (MHz)** | **EIRP (dBm)** | **Limit (dBm)** | **Over Limit (dB)** | **S.G. Power (dBm)** | **Cable Loss (dB)** | **Antenna Gain (dBi)** | **Polarization (H/V)** | **Result** |
| 1413.0 | -60.16 | -13 | -47.16 | -63.0 | 2.49 | 5.33 | Horizontal | Pass |
| 2119.5 | -68.33 | -13 | -55.33 | -70.43 | 2.81 | 4.91 | Horizontal | Pass |
| 2826.0 | -68.94 | -13 | -55.94 | -72.35 | 3.13 | 6.54 | Horizontal | Pass |
| 1413.0 | -60.77 | -13 | -47.77 | -63.61 | 2.49 | 5.33 | Vertical | Pass |
| 2119.5 | -69.66 | -13 | -56.66 | -71.76 | 2.81 | 4.91 | Vertical | Pass |
| 2826.0 | -68.29 | -13 | -55.29 | -71.7 | 3.13 | 6.54 | Vertical | Pass |