

## 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      | 24.29                 | -6.50      | 15.64     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.18                 | -6.50      | 15.53     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.23                 | -6.50      | 15.58     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.14                 | -6.50      | 15.49     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.07                 | -6.50      | 15.42     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.14                 | -6.50      | 15.49     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.03                 | -6.50      | 14.38     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 23.98                 | -6.50      | 15.33     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.02                 | -6.50      | 15.37     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.04                 | -6.50      | 15.39     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.99                 | -6.50      | 15.34     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.00                 | -6.50      | 15.35     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.93                 | -6.50      | 15.28     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.03                 | -6.50      | 14.38     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 23.97                 | -6.50      | 15.32     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.96                 | -6.50      | 15.31     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.00                 | -6.50      | 15.35     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.80                 | -6.50      | 15.15     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.81                 | -6.50      | 15.16     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.71                 | -6.50      | 15.06     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.99                 | -6.50      | 14.34     | <=34.77 | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | 22.64                 | -6.50      | 13.99     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.59                 | -6.50      | 13.94     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 22.71                 | -6.50      | 14.06     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 22.86                 | -6.50      | 14.21     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.86                 | -6.50      | 14.21     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 22.86                 | -6.50      | 14.21     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.08                 | -6.50      | 13.43     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 22.51                 | -6.50      | 13.86     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.68                 | -6.50      | 14.03     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 22.56                 | -6.50      | 13.91     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 22.87                 | -6.50      | 14.22     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.80                 | -6.50      | 14.15     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 22.80                 | -6.50      | 14.15     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 21.96                 | -6.50      | 13.31     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 22.42                 | -6.50      | 13.77     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.50                 | -6.50      | 13.85     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 22.46                 | -6.50      | 13.81     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 22.57                 | -6.50      | 13.92     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 22.64                 | -6.50      | 13.99     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 22.66                 | -6.50      | 14.01     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 21.85                 | -6.50      | 13.20     | <=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      | 24.18                 | -6.50      | 15.53     | <=34.77 | Pass    |
|            |                 |               | 7      | 24.15                 | -6.50      | 15.50     | <=34.77 | Pass    |
|            |                 |               | 14     | 24.20                 | -6.50      | 15.55     | <=34.77 | Pass    |
|            |                 | 8             | 0      | 23.07                 | -6.50      | 14.42     | <=34.77 | Pass    |
|            |                 |               | 4      | 23.12                 | -6.50      | 14.47     | <=34.77 | Pass    |
|            |                 |               | 7      | 23.10                 | -6.50      | 14.45     | <=34.77 | Pass    |
|            |                 | 15            | 0      | 23.05                 | -6.50      | 14.40     | <=34.77 | Pass    |
|            | 707.5           | 1             | 0      | 23.90                 | -6.50      | 15.25     | <=34.77 | Pass    |
|            |                 |               | 7      | 23.91                 | -6.50      | 15.26     | <=34.77 | Pass    |
|            |                 |               | 14     | 23.94                 | -6.50      | 15.29     | <=34.77 | Pass    |
|            |                 | 8             | 0      | 22.90                 | -6.50      | 14.25     | <=34.77 | Pass    |
|            |                 |               | 4      | 22.92                 | -6.50      | 14.27     | <=34.77 | Pass    |
|            |                 |               | 7      | 22.97                 | -6.50      | 14.32     | <=34.77 | Pass    |
|            |                 | 15            | 0      | 23.05                 | -6.50      | 14.40     | <=34.77 | Pass    |
|            | 714.5           | 1             | 0      | 23.89                 | -6.50      | 15.24     | <=34.77 | Pass    |
|            |                 |               | 7      | 23.90                 | -6.50      | 15.25     | <=34.77 | Pass    |
|            |                 |               | 14     | 23.75                 | -6.50      | 15.10     | <=34.77 | Pass    |
|            |                 | 8             | 0      | 22.78                 | -6.50      | 14.13     | <=34.77 | Pass    |
|            |                 |               | 4      | 22.80                 | -6.50      | 14.15     | <=34.77 | Pass    |
|            |                 |               | 7      | 22.94                 | -6.50      | 14.29     | <=34.77 | Pass    |
| 16QAM      | 700.5           | 1             | 0      | 22.86                 | -6.50      | 14.21     | <=34.77 | Pass    |
|            |                 |               | 7      | 22.74                 | -6.50      | 14.09     | <=34.77 | Pass    |
|            |                 |               | 14     | 22.84                 | -6.50      | 14.19     | <=34.77 | Pass    |
|            |                 | 8             | 0      | 22.19                 | -6.50      | 13.54     | <=34.77 | Pass    |
|            |                 |               | 4      | 22.19                 | -6.50      | 13.54     | <=34.77 | Pass    |
|            |                 |               | 7      | 22.19                 | -6.50      | 13.54     | <=34.77 | Pass    |
|            |                 | 15            | 0      | 22.01                 | -6.50      | 13.36     | <=34.77 | Pass    |
|            | 707.5           | 1             | 0      | 23.75                 | -6.50      | 15.10     | <=34.77 | Pass    |
|            |                 |               | 7      | 23.91                 | -6.50      | 15.26     | <=34.77 | Pass    |
|            |                 |               | 14     | 23.81                 | -6.50      | 15.16     | <=34.77 | Pass    |
|            |                 | 8             | 0      | 21.98                 | -6.50      | 13.33     | <=34.77 | Pass    |
|            |                 |               | 4      | 21.94                 | -6.50      | 13.29     | <=34.77 | Pass    |
|            |                 |               | 7      | 21.88                 | -6.50      | 13.23     | <=34.77 | Pass    |
|            |                 | 15            | 0      | 21.93                 | -6.50      | 13.28     | <=34.77 | Pass    |
|            | 714.5           | 1             | 0      | 23.06                 | -6.50      | 14.41     | <=34.77 | Pass    |
|            |                 |               | 7      | 23.03                 | -6.50      | 14.38     | <=34.77 | Pass    |
|            |                 |               | 14     | 23.16                 | -6.50      | 14.51     | <=34.77 | Pass    |
|            |                 | 8             | 0      | 22.03                 | -6.50      | 13.38     | <=34.77 | Pass    |
|            |                 |               | 4      | 22.08                 | -6.50      | 13.43     | <=34.77 | Pass    |
|            |                 |               | 7      | 21.92                 | -6.50      | 13.27     | <=34.77 | Pass    |
|            |                 | 15            | 0      | 21.89                 | -6.50      | 13.24     | <=34.77 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B12\_5MHz\_ERP

| Band: 12 / Bandwidth: 5MHz / NTV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 701.5           | 1             | 0      | 24.06                 | -6.50      | 15.41     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 23.95                 | -6.50      | 15.30     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 23.86                 | -6.50      | 15.21     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 22.94                 | -6.50      | 14.29     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 23.09                 | -6.50      | 14.44     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 23.03                 | -6.50      | 14.38     | <=34.77 | Pass    |

|       |       |    |    |       |       |       |         |      |
|-------|-------|----|----|-------|-------|-------|---------|------|
| 16QAM | 707.5 | 25 | 0  | 23.09 | -6.50 | 14.44 | <=34.77 | Pass |
|       |       |    | 0  | 23.80 | -6.50 | 15.15 | <=34.77 | Pass |
|       |       |    | 13 | 23.87 | -6.50 | 15.22 | <=34.77 | Pass |
|       |       |    | 24 | 23.95 | -6.50 | 15.30 | <=34.77 | Pass |
|       |       | 12 | 0  | 22.90 | -6.50 | 14.25 | <=34.77 | Pass |
|       |       |    | 6  | 22.94 | -6.50 | 14.29 | <=34.77 | Pass |
|       |       |    | 13 | 22.99 | -6.50 | 14.34 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.97 | -6.50 | 14.32 | <=34.77 | Pass |
|       | 713.5 | 1  | 0  | 23.63 | -6.50 | 14.98 | <=34.77 | Pass |
|       |       |    | 13 | 23.77 | -6.50 | 15.12 | <=34.77 | Pass |
|       |       |    | 24 | 23.69 | -6.50 | 15.04 | <=34.77 | Pass |
|       |       | 12 | 0  | 22.73 | -6.50 | 14.08 | <=34.77 | Pass |
|       |       |    | 6  | 22.81 | -6.50 | 14.16 | <=34.77 | Pass |
|       |       |    | 13 | 22.92 | -6.50 | 14.27 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.83 | -6.50 | 14.18 | <=34.77 | Pass |
|       | 701.5 | 1  | 0  | 23.00 | -6.50 | 14.35 | <=34.77 | Pass |
|       |       |    | 13 | 23.08 | -6.50 | 14.43 | <=34.77 | Pass |
|       |       |    | 24 | 23.05 | -6.50 | 14.40 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.98 | -6.50 | 13.33 | <=34.77 | Pass |
|       |       |    | 6  | 21.95 | -6.50 | 13.30 | <=34.77 | Pass |
|       |       |    | 13 | 21.94 | -6.50 | 13.29 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.02 | -6.50 | 13.37 | <=34.77 | Pass |
|       | 707.5 | 1  | 0  | 22.67 | -6.50 | 14.02 | <=34.77 | Pass |
|       |       |    | 13 | 22.63 | -6.50 | 13.98 | <=34.77 | Pass |
|       |       |    | 24 | 22.58 | -6.50 | 13.93 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.84 | -6.50 | 13.19 | <=34.77 | Pass |
|       |       |    | 6  | 21.74 | -6.50 | 13.09 | <=34.77 | Pass |
|       |       |    | 13 | 21.70 | -6.50 | 13.05 | <=34.77 | Pass |
|       |       | 25 | 0  | 21.74 | -6.50 | 13.09 | <=34.77 | Pass |
|       | 713.5 | 1  | 0  | 21.94 | -6.50 | 13.29 | <=34.77 | Pass |
|       |       |    | 13 | 22.02 | -6.50 | 13.37 | <=34.77 | Pass |
|       |       |    | 24 | 22.05 | -6.50 | 13.40 | <=34.77 | Pass |
|       |       | 12 | 0  | 21.74 | -6.50 | 13.09 | <=34.77 | Pass |
|       |       |    | 6  | 21.91 | -6.50 | 13.26 | <=34.77 | Pass |
|       |       |    | 13 | 21.78 | -6.50 | 13.13 | <=34.77 | Pass |
|       |       | 25 | 0  | 21.99 | -6.50 | 13.34 | <=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      | 24.00                 | -6.50      | 15.35     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.07                 | -6.50      | 15.42     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.87                 | -6.50      | 15.22     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.03                 | -6.50      | 14.38     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.96                 | -6.50      | 14.31     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.92                 | -6.50      | 14.27     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.02                 | -6.50      | 14.37     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 0      | 23.85                 | -6.50      | 15.20     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.84                 | -6.50      | 15.19     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.75                 | -6.50      | 15.10     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.94                 | -6.50      | 14.29     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.01                 | -6.50      | 14.36     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.85                 | -6.50      | 14.20     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.97                 | -6.50      | 14.32     | <=34.77 | Pass    |

|       |       |    |    |       |       |       |         |      |
|-------|-------|----|----|-------|-------|-------|---------|------|
| 16QAM | 711   | 1  | 0  | 23.77 | -6.50 | 15.12 | <=34.77 | Pass |
|       |       |    | 25 | 23.87 | -6.50 | 15.22 | <=34.77 | Pass |
|       |       |    | 49 | 23.68 | -6.50 | 15.03 | <=34.77 | Pass |
|       |       | 25 | 0  | 23.03 | -6.50 | 14.38 | <=34.77 | Pass |
|       |       |    | 13 | 22.85 | -6.50 | 14.20 | <=34.77 | Pass |
|       |       |    | 25 | 22.95 | -6.50 | 14.30 | <=34.77 | Pass |
|       |       | 50 | 0  | 22.97 | -6.50 | 14.32 | <=34.77 | Pass |
|       | 704   | 1  | 0  | 22.72 | -6.50 | 14.07 | <=34.77 | Pass |
|       |       |    | 25 | 22.71 | -6.50 | 14.06 | <=34.77 | Pass |
|       |       |    | 49 | 22.64 | -6.50 | 13.99 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.15 | -6.50 | 13.50 | <=34.77 | Pass |
|       |       |    | 13 | 22.08 | -6.50 | 13.43 | <=34.77 | Pass |
|       |       |    | 25 | 22.09 | -6.50 | 13.44 | <=34.77 | Pass |
|       |       | 50 | 0  | 21.92 | -6.50 | 13.27 | <=34.77 | Pass |
|       | 707.5 | 1  | 0  | 23.63 | -6.50 | 14.98 | <=34.77 | Pass |
|       |       |    | 25 | 23.81 | -6.50 | 15.16 | <=34.77 | Pass |
|       |       |    | 49 | 23.64 | -6.50 | 14.99 | <=34.77 | Pass |
|       |       | 25 | 0  | 22.04 | -6.50 | 13.39 | <=34.77 | Pass |
|       |       |    | 13 | 21.83 | -6.50 | 13.18 | <=34.77 | Pass |
|       |       |    | 25 | 21.99 | -6.50 | 13.34 | <=34.77 | Pass |
|       |       | 50 | 0  | 21.90 | -6.50 | 13.25 | <=34.77 | Pass |
|       | 711   | 1  | 0  | 23.29 | -6.50 | 14.64 | <=34.77 | Pass |
|       |       |    | 25 | 23.35 | -6.50 | 14.70 | <=34.77 | Pass |
|       |       |    | 49 | 23.28 | -6.50 | 14.63 | <=34.77 | Pass |
|       |       | 25 | 0  | 21.82 | -6.50 | 13.17 | <=34.77 | Pass |
|       |       |    | 13 | 21.92 | -6.50 | 13.27 | <=34.77 | Pass |
|       |       |    | 25 | 21.91 | -6.50 | 13.26 | <=34.77 | Pass |
|       |       | 50 | 0  | 21.90 | -6.50 | 13.25 | <=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         | 3.27          | 17.223           | 0.0246                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | 7.224            | 0.0103                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | -25.477          | -0.0364               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | -4.292           | -0.0061               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -33.674          | -0.0481               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -14.448          | -0.0206               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.85          | -37.265          | -0.0533               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -4.563           | -0.0065               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -23.575          | -0.0337               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -39.797          | -0.0569               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -7.968           | -0.0114               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -1.388           | -0.0020               | -2.5 to 2.5 | Pass    |
|                              | 707.5           | 6             | 0      | 20         | 3.27          | 10.257           | 0.0145                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | 23.632           | 0.0334                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.43          | 32.029           | 0.0453                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.85          | 39.854           | 0.0563                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | 44.103           | 0.0623                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.85          | -1.388           | -0.0020               | -2.5 to 2.5 | Pass    |

|       |       |   |   |     |      |         |         |             |             |
|-------|-------|---|---|-----|------|---------|---------|-------------|-------------|
|       |       |   |   | 0   | 3.85 | 1.488   | 0.0021  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 10  | 3.85 | 4.706   | 0.0067  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 30  | 3.85 | 8.454   | 0.0119  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 40  | 3.85 | 11.044  | 0.0156  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 50  | 3.85 | 13.533  | 0.0191  | -2.5 to 2.5 | Pass        |
|       | 715.3 | 6 | 0 | 20  | 3.27 | 16.794  | 0.0235  | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 3.85 | 16.065  | 0.0225  | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 4.43 | 2.317   | 0.0032  | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | -30  | 3.85    | -14.491 | -0.0203     | -2.5 to 2.5 |
|       |       |   |   | -20 | 3.85 | -27.709 | -0.0387 | -2.5 to 2.5 | Pass        |
|       |       |   |   | -10 | 3.85 | -38.323 | -0.0536 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 0   | 3.85 | -47.836 | -0.0669 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 10  | 3.85 | -9.027  | -0.0126 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 30  | 3.85 | -13.390 | -0.0187 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 40  | 3.85 | -19.412 | -0.0271 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 50  | 3.85 | -23.890 | -0.0334 | -2.5 to 2.5 | Pass        |
| 16QAM | 699.7 | 6 | 0 | 20  | 3.27 | -20.614 | -0.0295 | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 3.85 | -28.582 | -0.0408 | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 4.43 | -31.943 | -0.0457 | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | -30  | 3.85    | -33.903 | -0.0485     | -2.5 to 2.5 |
|       |       |   |   | -20 | 3.85 | -37.308 | -0.0533 | -2.5 to 2.5 | Pass        |
|       |       |   |   | -10 | 3.85 | -39.754 | -0.0568 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 0   | 3.85 | -45.762 | -0.0654 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 10  | 3.85 | -0.501  | -0.0007 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 30  | 3.85 | -1.745  | -0.0025 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 40  | 3.85 | -2.146  | -0.0031 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 50  | 3.85 | -1.330  | -0.0019 | -2.5 to 2.5 | Pass        |
|       | 707.5 | 6 | 0 | 20  | 3.27 | 19.026  | 0.0269  | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 3.85 | 26.736  | 0.0378  | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 4.43 | 35.977  | 0.0509  | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | -30  | 3.85    | 44.675  | 0.0631      | -2.5 to 2.5 |
|       |       |   |   | -20 | 3.85 | 11.687  | 0.0165  | -2.5 to 2.5 | Pass        |
|       |       |   |   | -10 | 3.85 | 18.954  | 0.0268  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 0   | 3.85 | 26.693  | 0.0377  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 10  | 3.85 | 34.375  | 0.0486  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 30  | 3.85 | 40.340  | 0.0570  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 40  | 3.85 | 45.919  | 0.0649  | -2.5 to 2.5 | Pass        |
|       |       |   |   | 50  | 3.85 | -2.575  | -0.0036 | -2.5 to 2.5 | Pass        |
|       | 715.3 | 6 | 0 | 20  | 3.27 | -28.567 | -0.0399 | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 3.85 | -27.123 | -0.0379 | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | 4.43 | -22.731 | -0.0318 | -2.5 to 2.5 | Pass        |
|       |       |   |   |     | -30  | 3.85    | -19.083 | -0.0267     | -2.5 to 2.5 |
|       |       |   |   | -20 | 3.85 | -14.963 | -0.0209 | -2.5 to 2.5 | Pass        |
|       |       |   |   | -10 | 3.85 | -11.959 | -0.0167 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 0   | 3.85 | -9.356  | -0.0131 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 10  | 3.85 | -7.110  | -0.0099 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 30  | 3.85 | -5.035  | -0.0070 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 40  | 3.85 | -3.262  | -0.0046 | -2.5 to 2.5 | Pass        |
|       |       |   |   | 50  | 3.85 | -1.345  | -0.0019 | -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         | 3.27          | -5.164           | -0.0074               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -45.090          | -0.0644               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |         |         |             |      |
|-------|-------|----|---|-----|------|---------|---------|-------------|------|
| 16QAM | 707.5 | 15 | 0 |     | 4.43 | -12.202 | -0.0174 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -18.253 | -0.0261 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -14.706 | -0.0210 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -3.648  | -0.0052 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -35.377 | -0.0505 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -13.447 | -0.0192 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -38.610 | -0.0551 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -11.430 | -0.0163 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -32.315 | -0.0461 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.27 | 4.563   | 0.0064  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 7.925   | 0.0112  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 4.435   | 0.0063  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -1.287  | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -6.838  | -0.0097 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -12.102 | -0.0171 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -16.637 | -0.0235 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -20.771 | -0.0294 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -23.904 | -0.0338 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.27 | 9.913   | 0.0139  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 6.938   | 0.0097  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -7.324  | -0.0103 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -23.718 | -0.0332 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -39.067 | -0.0547 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -10.972 | -0.0154 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -21.057 | -0.0295 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -30.699 | -0.0430 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -40.040 | -0.0560 | -2.5 to 2.5 | Pass |
| 16QAM | 700.5 | 15 | 0 | 20  | 3.27 | -7.811  | -0.0112 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -19.898 | -0.0284 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -29.540 | -0.0422 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -37.880 | -0.0541 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -46.721 | -0.0667 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -0.830  | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -8.140  | -0.0116 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -15.593 | -0.0223 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -22.645 | -0.0323 | -2.5 to 2.5 | Pass |
|       | 707.5 | 15 | 0 | 20  | 3.27 | -36.564 | -0.0517 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -36.535 | -0.0516 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -34.361 | -0.0486 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -31.500 | -0.0445 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -28.682 | -0.0405 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -25.663 | -0.0363 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -24.190 | -0.0342 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -22.159 | -0.0313 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -20.885 | -0.0295 | -2.5 to 2.5 | Pass |
|       | 714.5 | 15 | 0 | 20  | 3.27 | -12.703 | -0.0178 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -14.262 | -0.0200 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -13.776 | -0.0193 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -13.061 | -0.0183 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -13.418 | -0.0188 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -13.604 | -0.0190 | -2.5 to 2.5 | Pass |

|  |  |  |    |      |         |         |             |      |
|--|--|--|----|------|---------|---------|-------------|------|
|  |  |  | 0  | 3.85 | -14.791 | -0.0207 | -2.5 to 2.5 | Pass |
|  |  |  | 10 | 3.85 | -15.793 | -0.0221 | -2.5 to 2.5 | Pass |
|  |  |  | 30 | 3.85 | -18.168 | -0.0254 | -2.5 to 2.5 | Pass |
|  |  |  | 40 | 3.85 | -21.043 | -0.0295 | -2.5 to 2.5 | Pass |
|  |  |  | 50 | 3.85 | -22.087 | -0.0309 | -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         | 3.27          | -3.076           | -0.0044               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -30.012          | -0.0428               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -20.628          | -0.0294               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -17.395          | -0.0248               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -0.257           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -30.441          | -0.0434               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -10.314          | -0.0147               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -34.590          | -0.0493               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -7.968           | -0.0114               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -26.293          | -0.0375               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -41.656          | -0.0594               | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.27          | 6.938            | 0.0098                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 8.783            | 0.0124                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 3.133            | 0.0044                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -2.704           | -0.0038               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -8.740           | -0.0124               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -13.947          | -0.0197               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -18.096          | -0.0256               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -22.202          | -0.0314               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -25.864          | -0.0366               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -27.809          | -0.0393               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -29.182          | -0.0412               | -2.5 to 2.5 | Pass    |
|                            | 713.5           | 25            | 0      | 20         | 3.27          | 9.871            | 0.0138                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 8.941            | 0.0125                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -3.719           | -0.0052               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -17.982          | -0.0252               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -32.043          | -0.0449               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -43.745          | -0.0613               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -5.965           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -18.024          | -0.0253               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -27.123          | -0.0380               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -34.590          | -0.0485               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 701.5           | 25            | 0      | 20         | 3.27          | -5.250           | -0.0075               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -11.601          | -0.0165               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -15.335          | -0.0219               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -17.781          | -0.0253               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -21.000          | -0.0299               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -24.061          | -0.0343               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -26.951          | -0.0384               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -30.012          | -0.0428               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -33.159          | -0.0473               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -35.348          | -0.0504               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -41.013          | -0.0585               | -2.5 to 2.5 | Pass    |
|                            | 707.5           | 25            | 0      | 20         | 3.27          | -30.870          | -0.0436               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -29.354          | -0.0415               | -2.5 to 2.5 | Pass    |

|  |       |    |   |     |      |         |         |             |      |
|--|-------|----|---|-----|------|---------|---------|-------------|------|
|  |       |    |   |     | 4.43 | -24.834 | -0.0351 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | -20.442 | -0.0289 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -17.738 | -0.0251 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -14.262 | -0.0202 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -11.501 | -0.0163 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -9.484  | -0.0134 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -8.354  | -0.0118 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -7.124  | -0.0101 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -5.064  | -0.0072 | -2.5 to 2.5 | Pass |
|  | 713.5 | 25 | 0 | 20  | 3.27 | -1.059  | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -3.290  | -0.0046 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.43 | -1.745  | -0.0024 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | -0.629  | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | 0.529   | 0.0007  | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | 1.202   | 0.0017  | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | 0.358   | 0.0005  | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | 0.515   | 0.0007  | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | 0.958   | 0.0013  | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -0.315  | -0.0004 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -0.930  | -0.0013 | -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         | 3.27          | 1.888            | 0.0027                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -32.644          | -0.0464               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -36.120          | -0.0513               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -30.069          | -0.0427               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -14.920          | -0.0212               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -42.715          | -0.0607               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -17.395          | -0.0247               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -40.097          | -0.0570               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -7.510           | -0.0107               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -20.585          | -0.0292               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -30.985          | -0.0440               | -2.5 to 2.5 | Pass    |
|                             | 707.5           | 50            | 0      | 20         | 3.27          | 4.563            | 0.0064                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 2.303            | 0.0033                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -8.326           | -0.0118               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -19.269          | -0.0272               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -29.097          | -0.0411               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -39.539          | -0.0559               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -47.722          | -0.0675               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -5.822           | -0.0082               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -13.404          | -0.0189               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -23.260          | -0.0329               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -32.144          | -0.0454               | -2.5 to 2.5 | Pass    |
|                             | 711             | 50            | 0      | 20         | 3.27          | 15.435           | 0.0217                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 15.750           | 0.0222                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 4.091            | 0.0058                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -8.626           | -0.0121               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -19.298          | -0.0271               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -29.340          | -0.0413               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -37.723          | -0.0531               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -45.047          | -0.0634               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -5.708           | -0.0080               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |         |         |             |      |
|-------|-------|----|---|-----|------|---------|---------|-------------|------|
| 16QAM | 704   | 50 | 0 | 40  | 3.85 | -12.274 | -0.0173 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -19.040 | -0.0268 | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | -39.797 | -0.0565 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -41.428 | -0.0588 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -39.897 | -0.0567 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -39.468 | -0.0561 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -39.339 | -0.0559 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -38.867 | -0.0552 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -39.797 | -0.0565 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -40.226 | -0.0571 | -2.5 to 2.5 | Pass |
|       | 707.5 | 50 | 0 | 30  | 3.85 | -42.086 | -0.0598 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -44.274 | -0.0629 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -46.363 | -0.0659 | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | -37.837 | -0.0535 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -35.849 | -0.0507 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -31.400 | -0.0444 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -27.223 | -0.0385 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -23.575 | -0.0333 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -20.971 | -0.0296 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -19.512 | -0.0276 | -2.5 to 2.5 | Pass |
|       | 711   | 50 | 0 | 10  | 3.85 | -18.282 | -0.0258 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -17.996 | -0.0254 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -17.123 | -0.0242 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -16.851 | -0.0238 | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | -28.353 | -0.0399 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -29.068 | -0.0409 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -27.094 | -0.0381 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -24.333 | -0.0342 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -21.086 | -0.0297 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -19.069 | -0.0268 | -2.5 to 2.5 | Pass |

### 3. Modulation Characteristics

#### 3.1 Test Result

##### 3.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                            |       |
|-------------------------------------|-----------------|---------------|--------|----------------------------|-------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       |
|                                     |                 | Size          | Offset | Result                     | Limit |
| QPSK                                | 707.5           | 6             | 0      | Refer To Test Graph        |       |
| 16QAM                               | 707.5           | 6             | 0      | Refer To Test Graph        |       |

##### 3.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                            |       |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       |
|                                   |                 | Size          | Offset | Result                     | Limit |
| QPSK                              | 707.5           | 15            | 0      | Refer To Test Graph        |       |
| 16QAM                             | 707.5           | 15            | 0      | Refer To Test Graph        |       |

### 3.1.3 B12\_5MHz

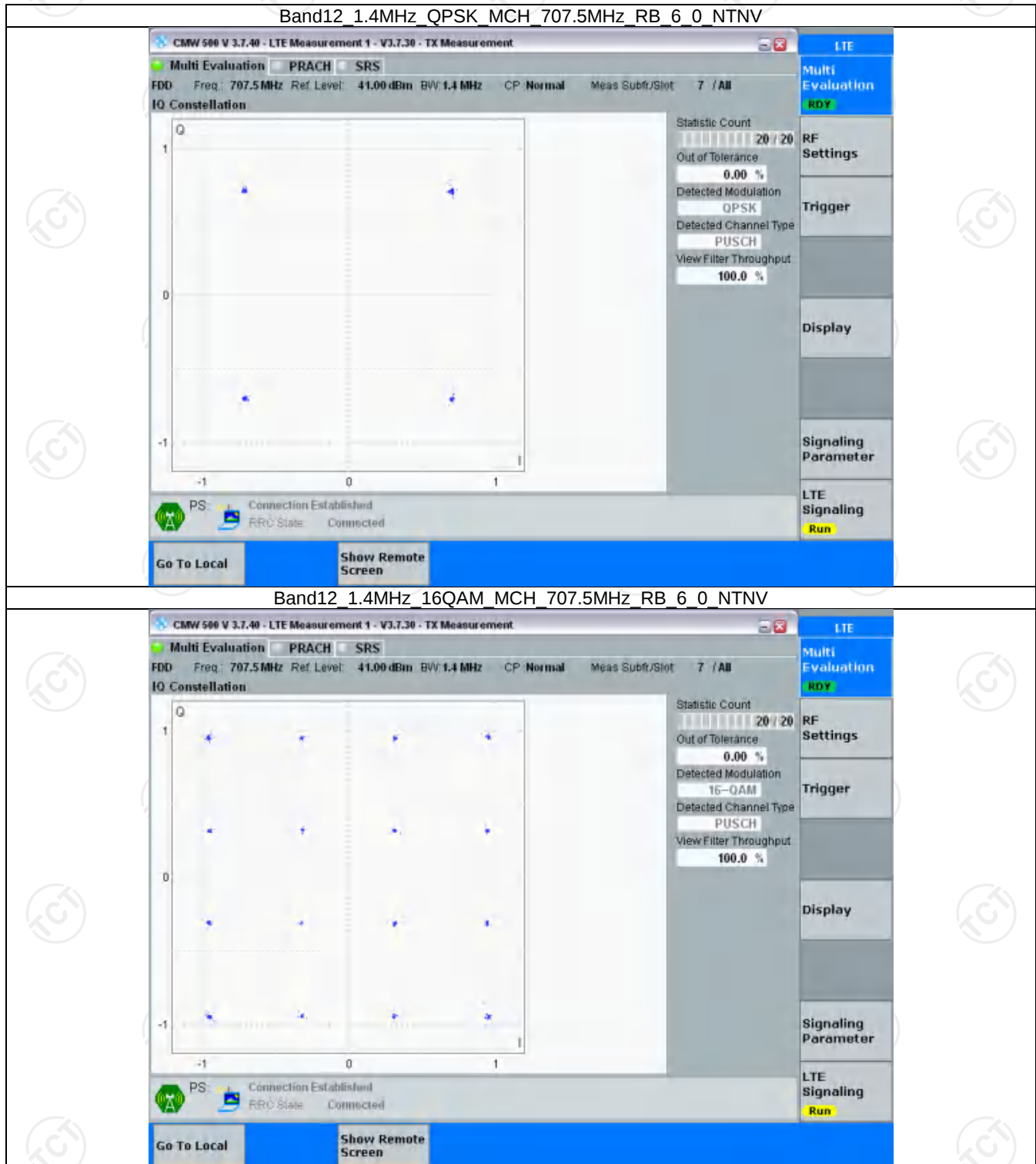
| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                            |       |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                        | Frequency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

### 3.1.4 B12\_10MHz

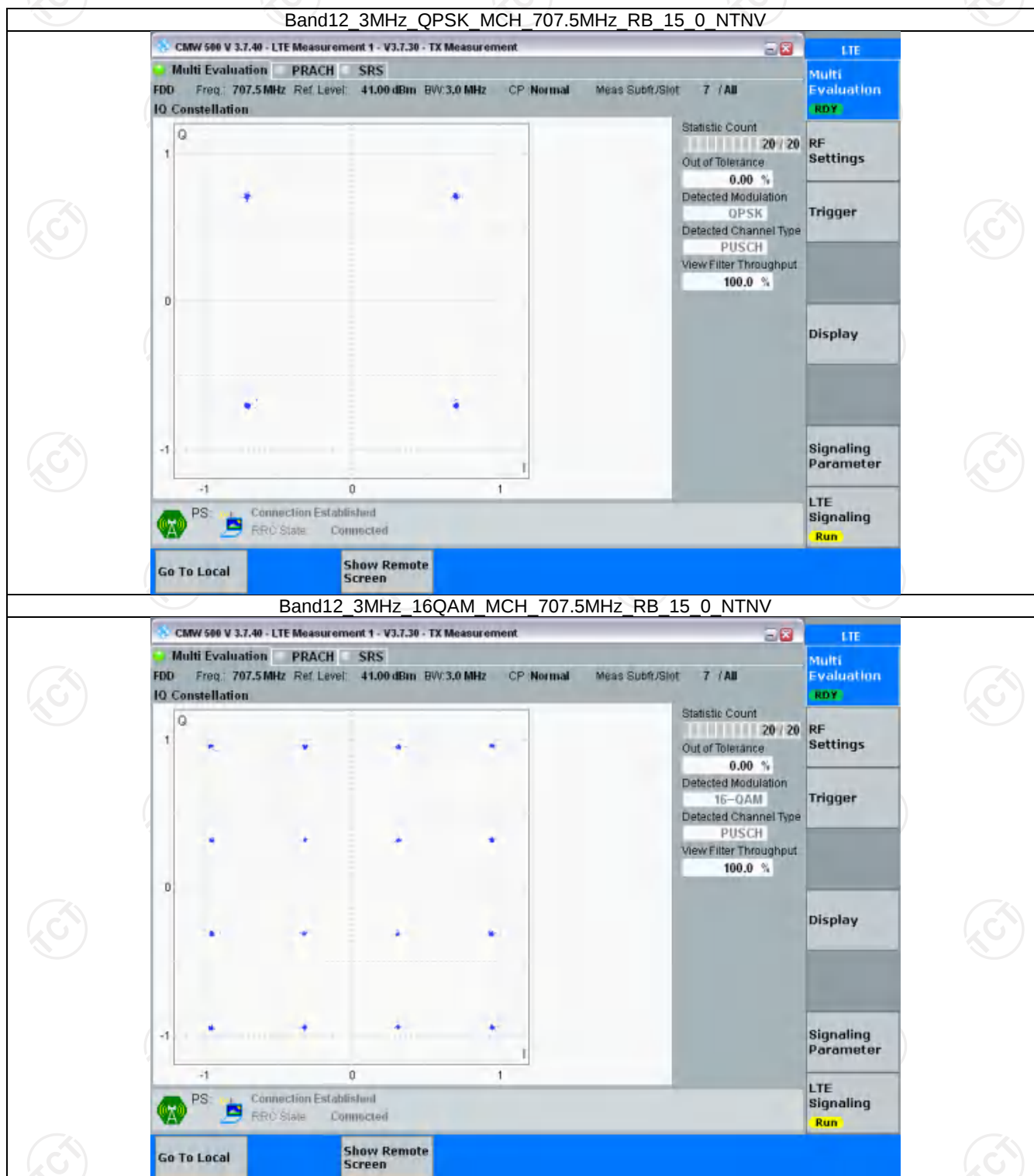
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                            |       |         |
|------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                         | Frequency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

## 3.2 Test Graph

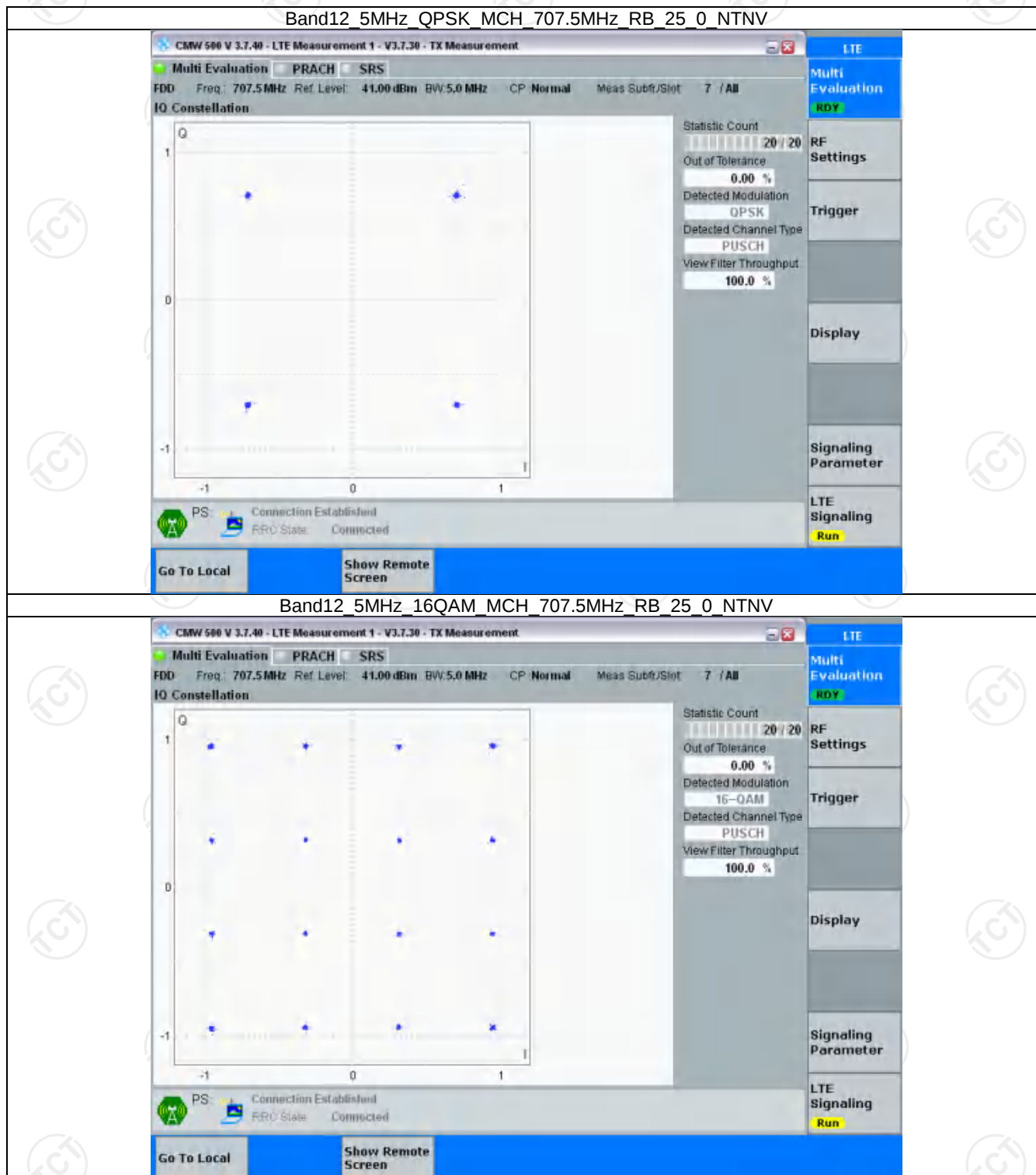
### 3.2.1 B12\_1.4MHz



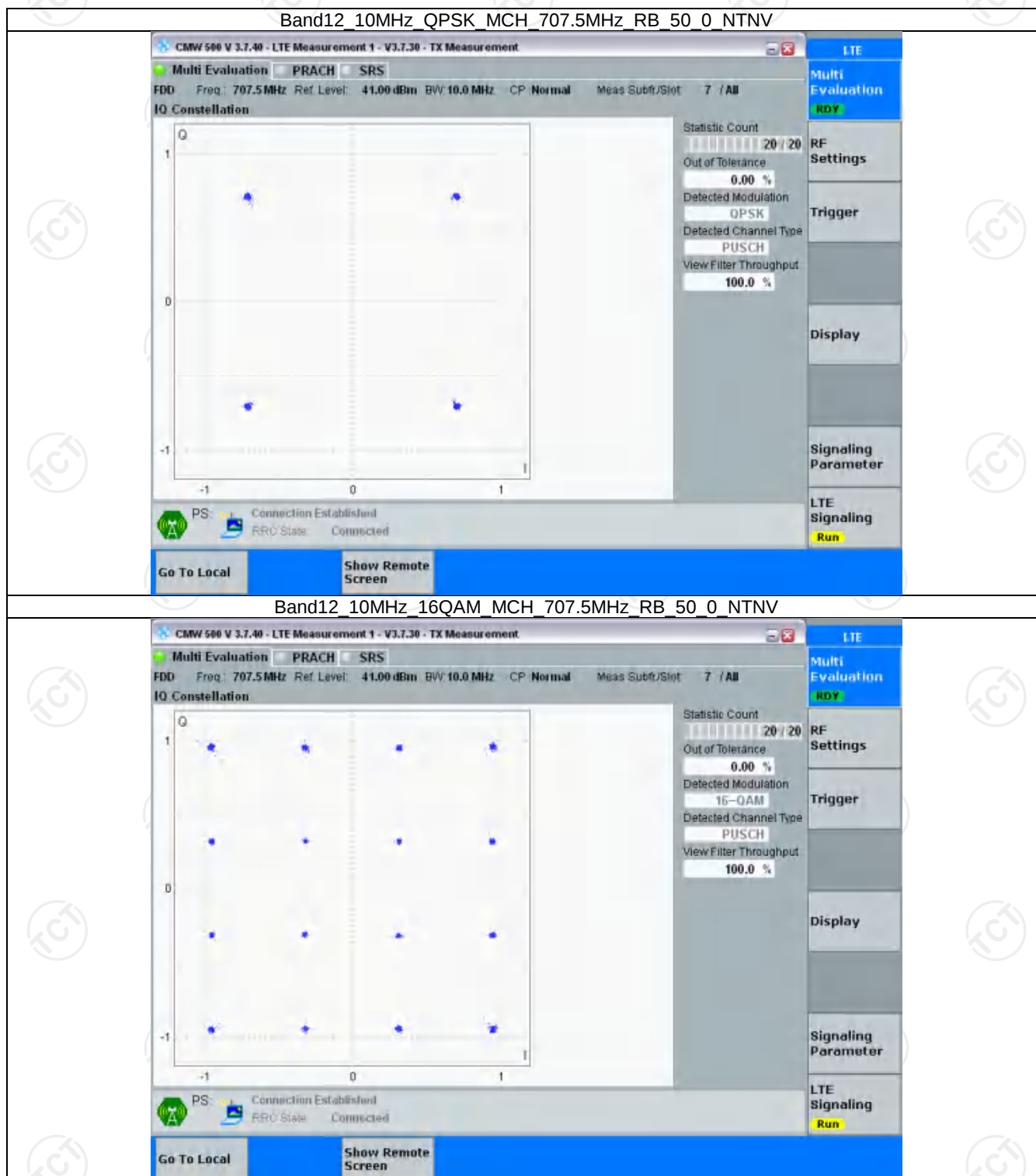
### 3.2.2 B12\_3MHz



### 3.2.3 B12\_5MHz



### 3.2.4 B12\_10MHz



## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 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      | 1.111                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.115                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.113                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.111                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.114                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.113                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.757                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.757                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.767                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.768                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.746                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.755                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.545                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.534                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.559                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.563                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.558                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.541                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.080                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.043                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.087                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.069                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.088                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.067                        | /     | Pass    |

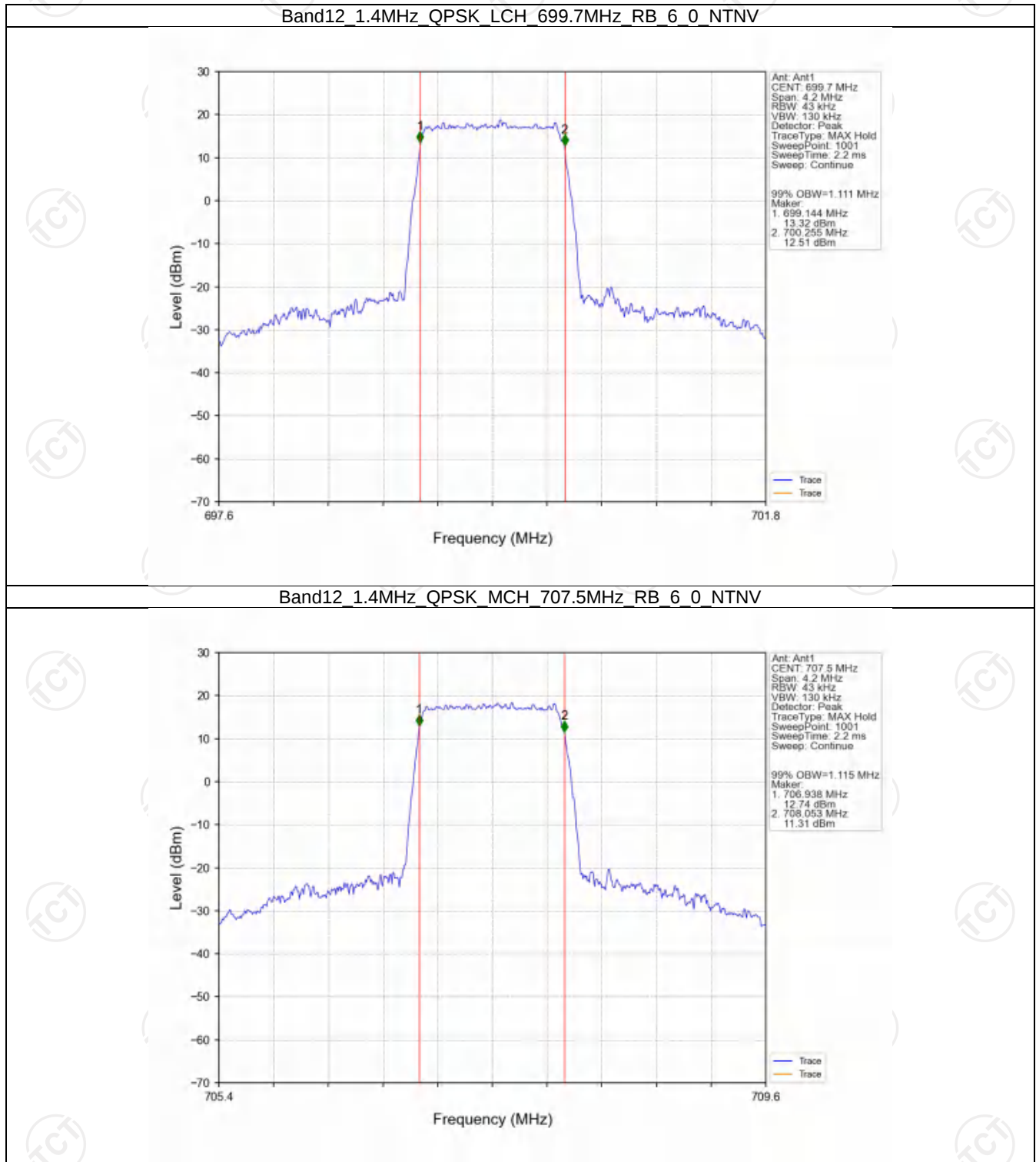
#### 4.1.2 Band12\_XDB

| 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      | 1.273                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.272                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.267                | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.268                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.280                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.274                | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 3.095                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.082                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.110                | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 3.091                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.089                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.115                | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 5.040                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.041                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.049                | /     | Pass    |

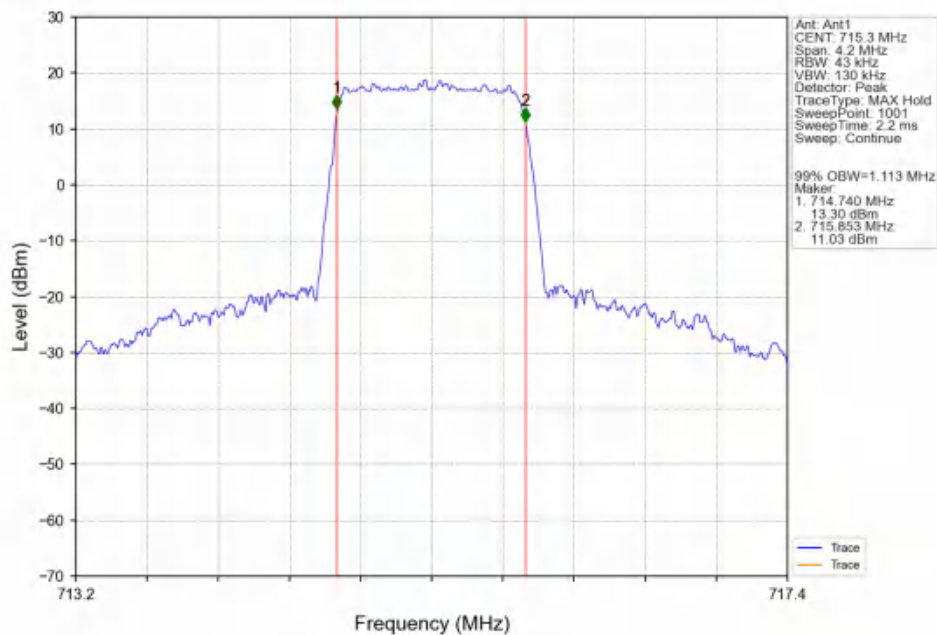
|    |       |       |    |   |        |   |      |
|----|-------|-------|----|---|--------|---|------|
| 10 | 16QAM | 701.5 | 25 | 0 | 5.047  | / | Pass |
|    |       | 707.5 | 25 | 0 | 5.031  | / | Pass |
|    |       | 713.5 | 25 | 0 | 5.059  | / | Pass |
|    | QPSK  | 704   | 50 | 0 | 10.050 | / | Pass |
|    |       | 707.5 | 50 | 0 | 9.996  | / | Pass |
|    |       | 711   | 50 | 0 | 9.998  | / | Pass |
|    | 16QAM | 704   | 50 | 0 | 10.077 | / | Pass |
|    |       | 707.5 | 50 | 0 | 10.031 | / | Pass |
|    |       | 711   | 50 | 0 | 10.055 | / | Pass |

## 4.2 Test Graph

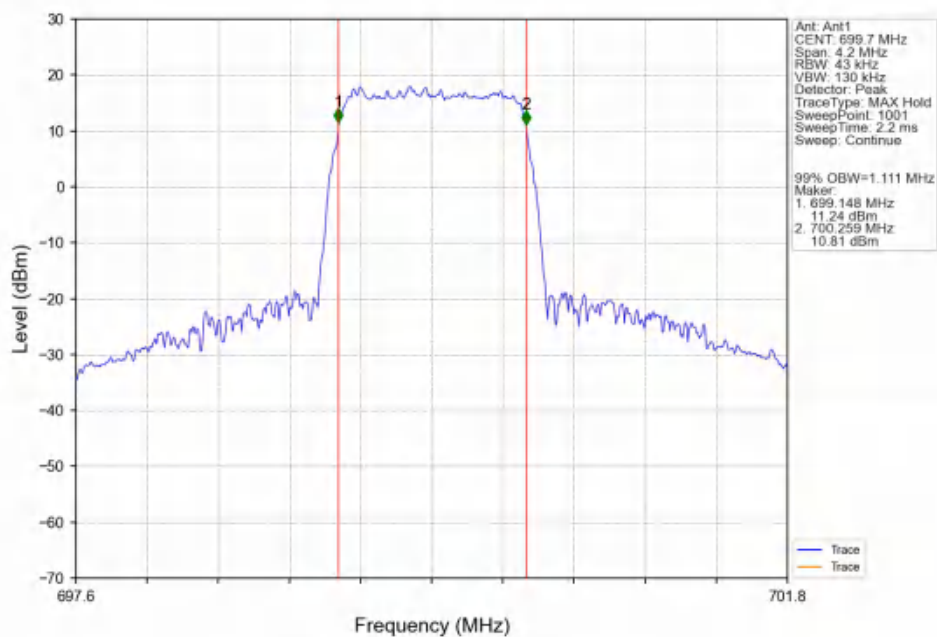
### 4.2.1 Band12\_OBW



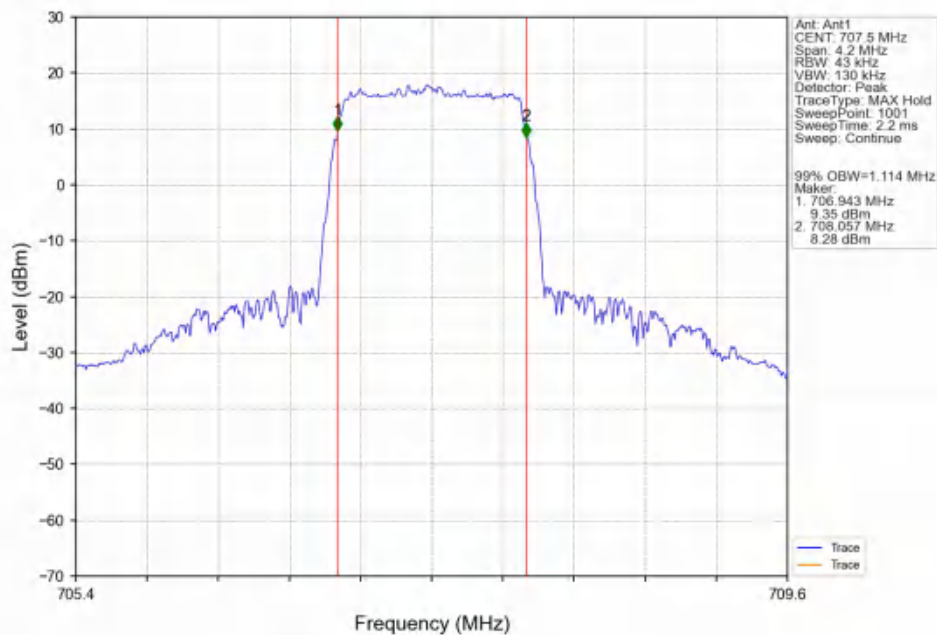
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



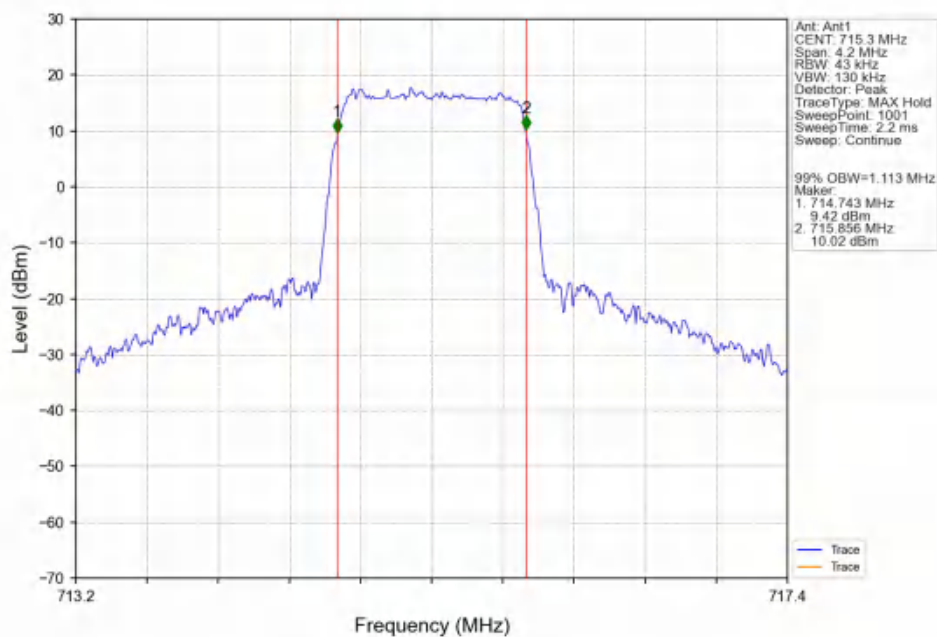
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



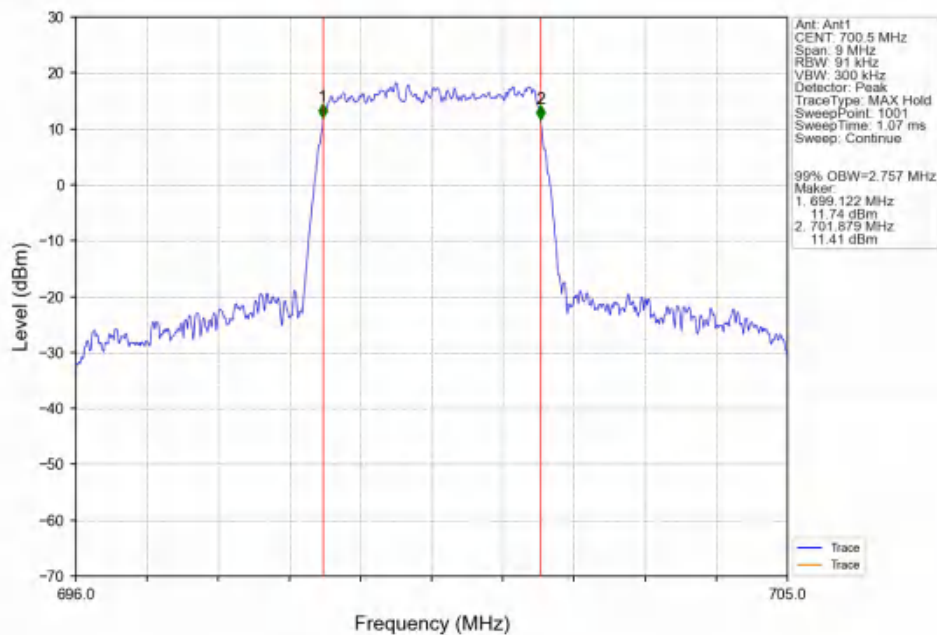
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



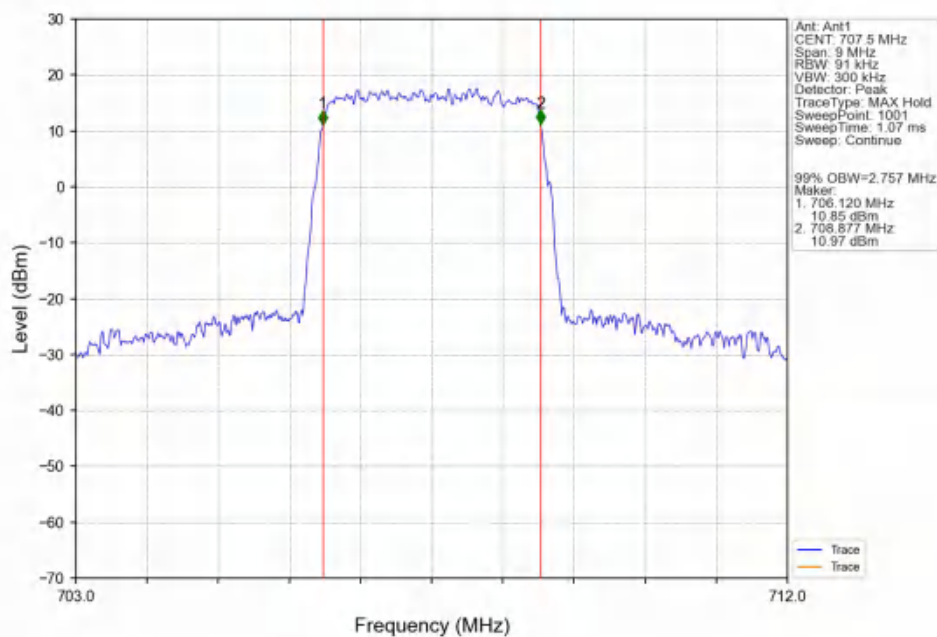
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



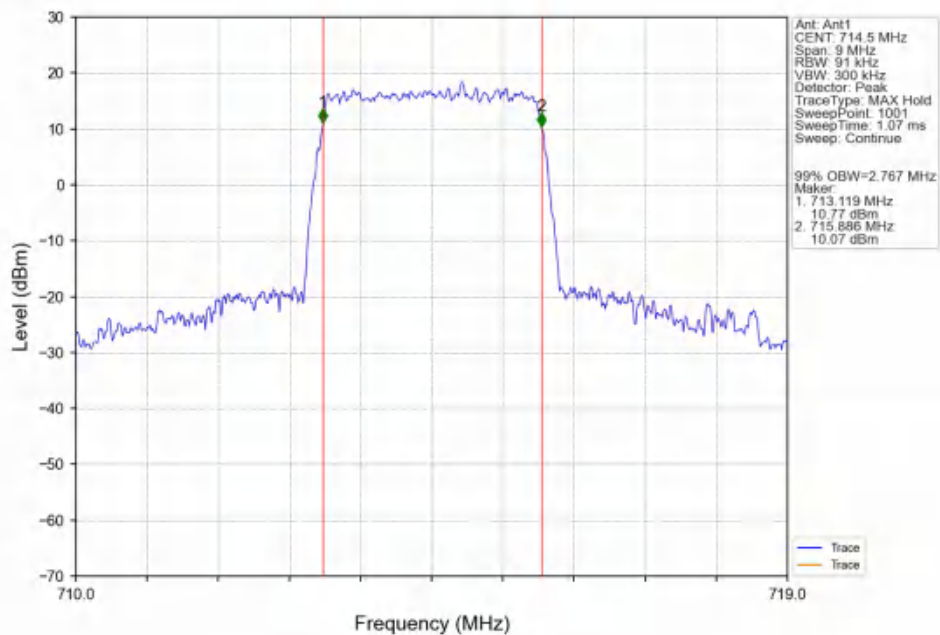
Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV



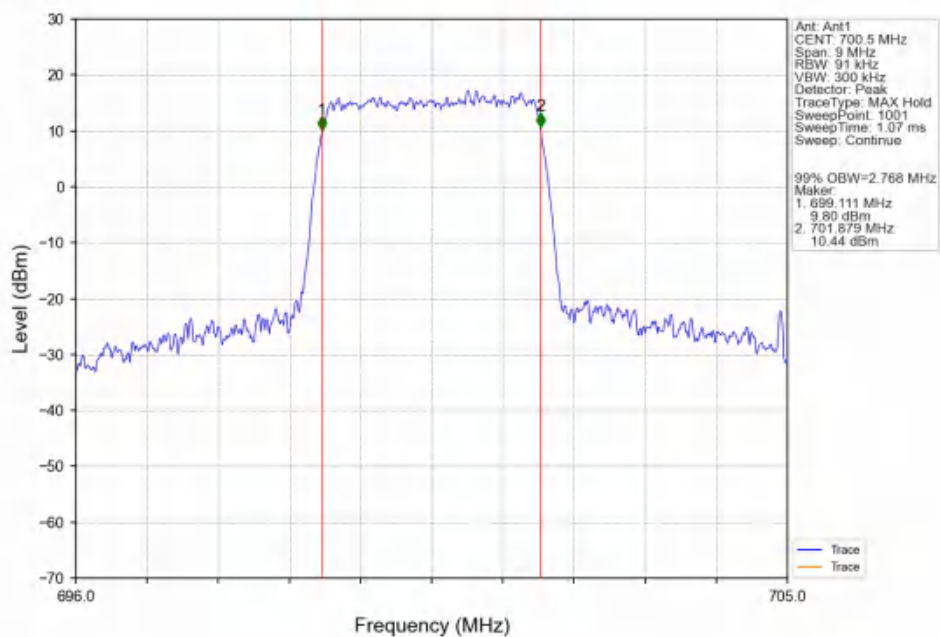
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



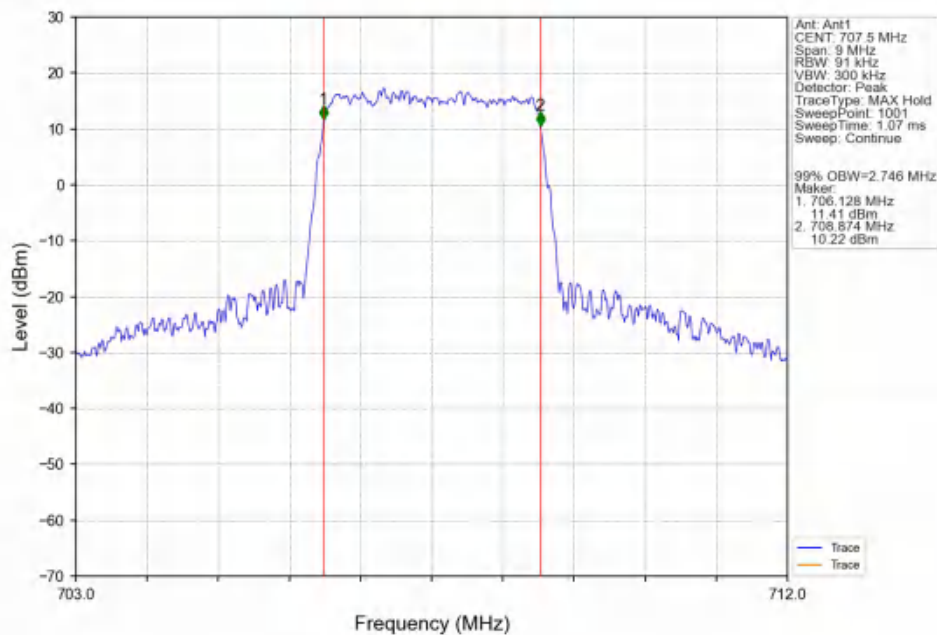
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



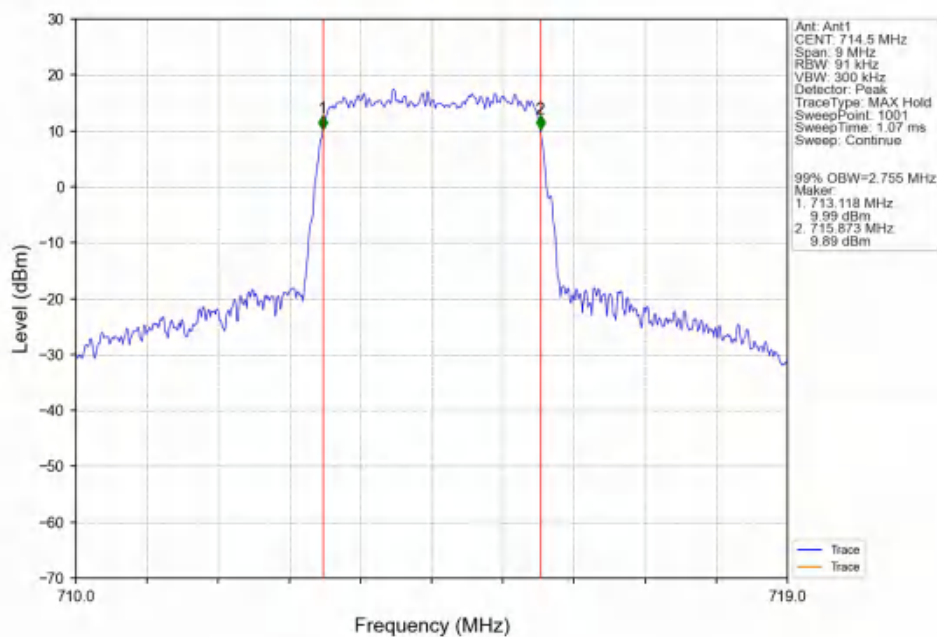
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



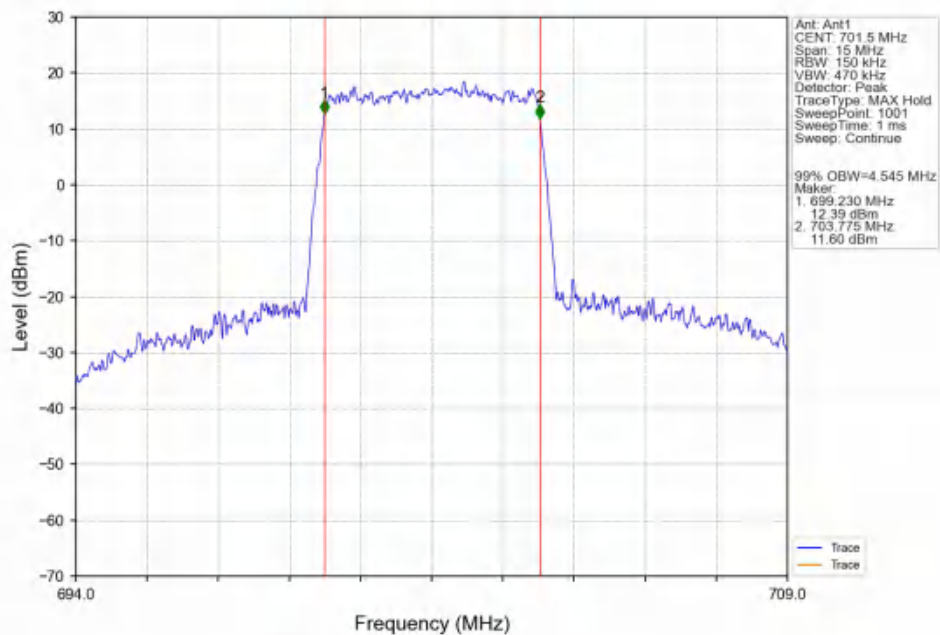
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



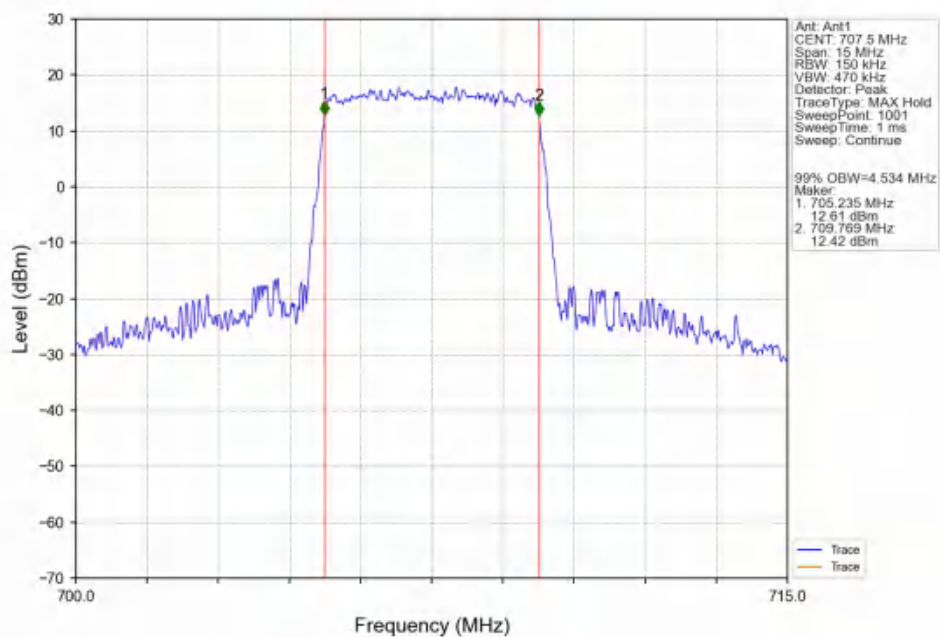
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



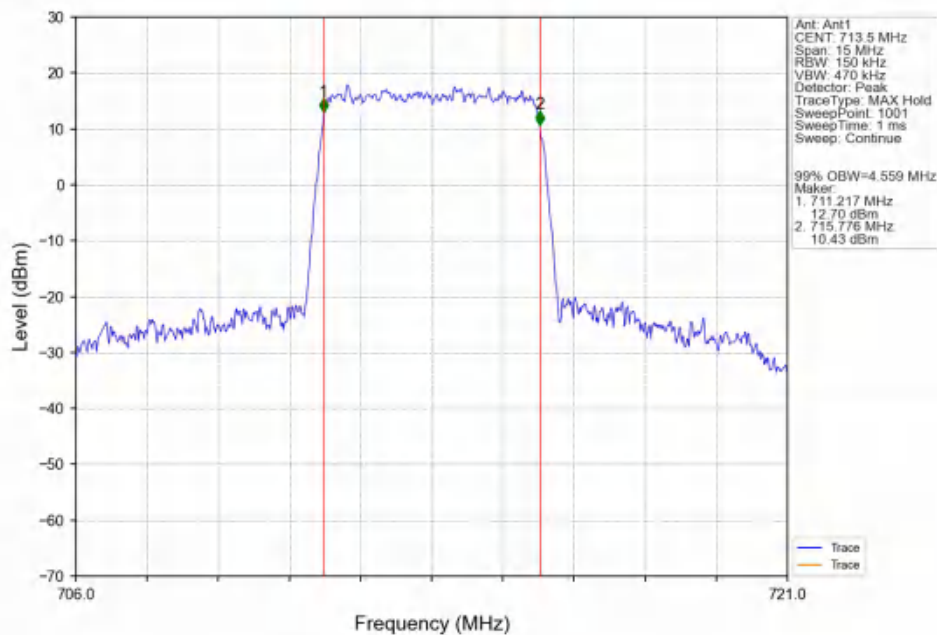
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



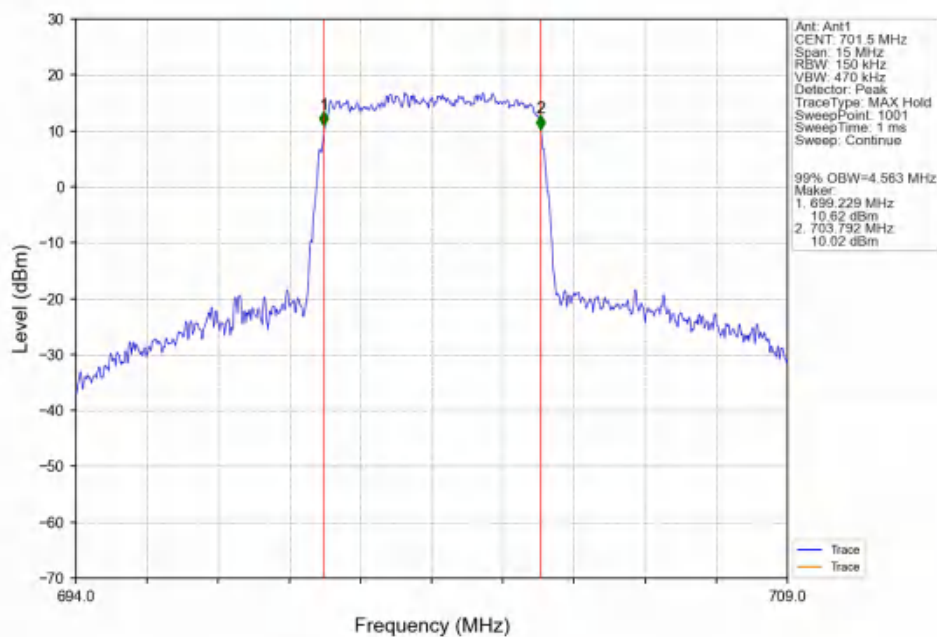
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



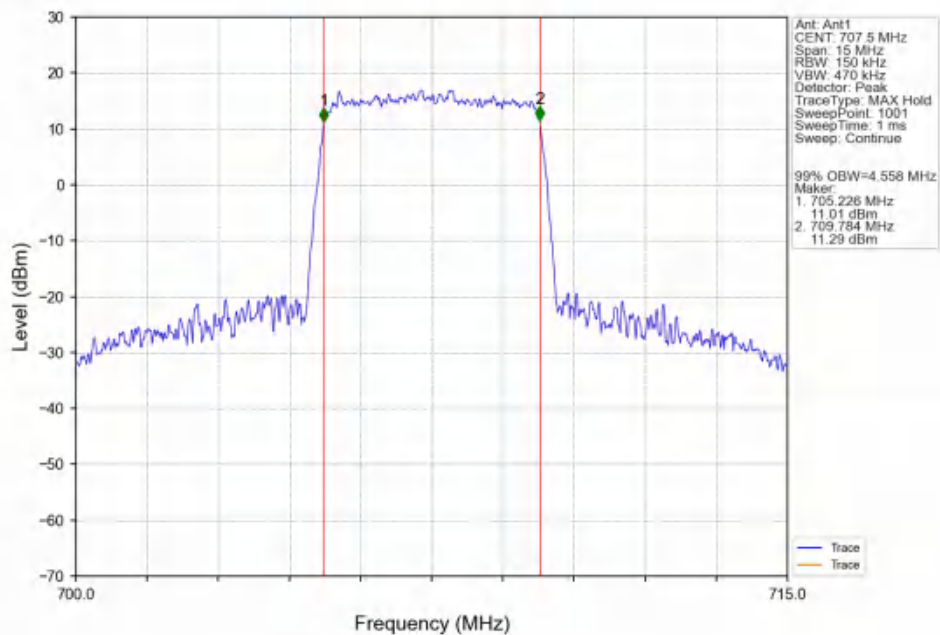
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



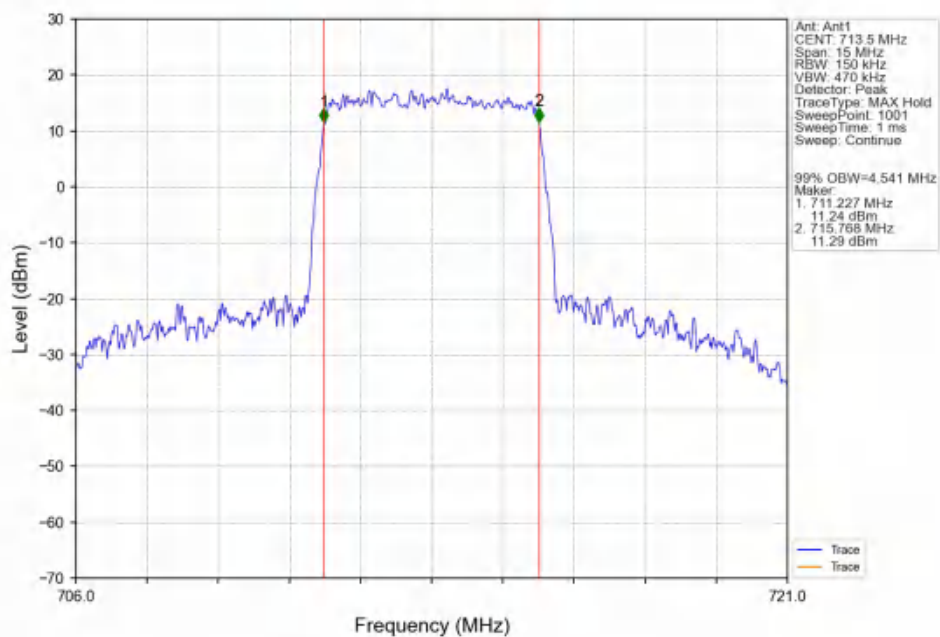
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTNV



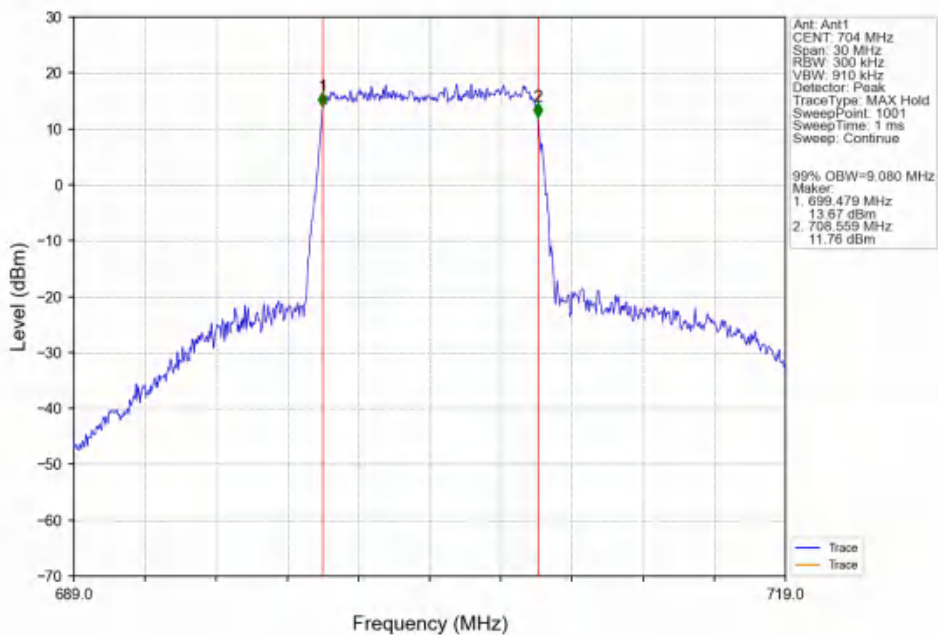
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



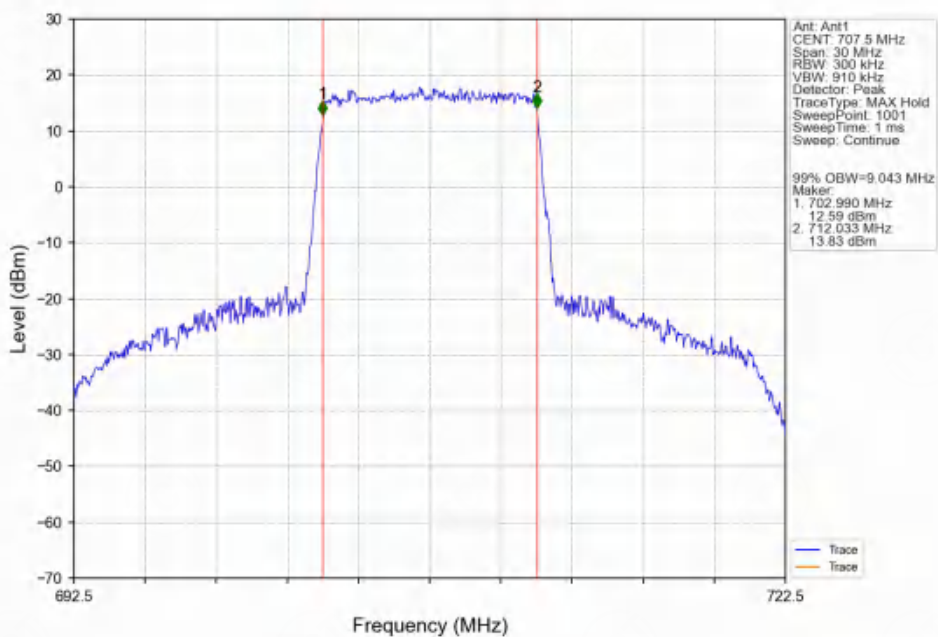
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



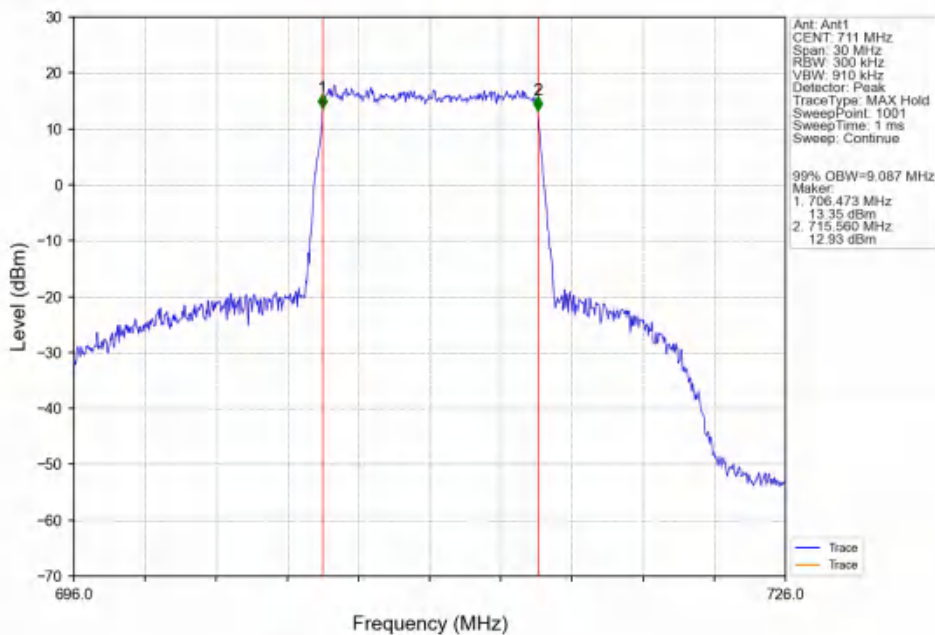
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV



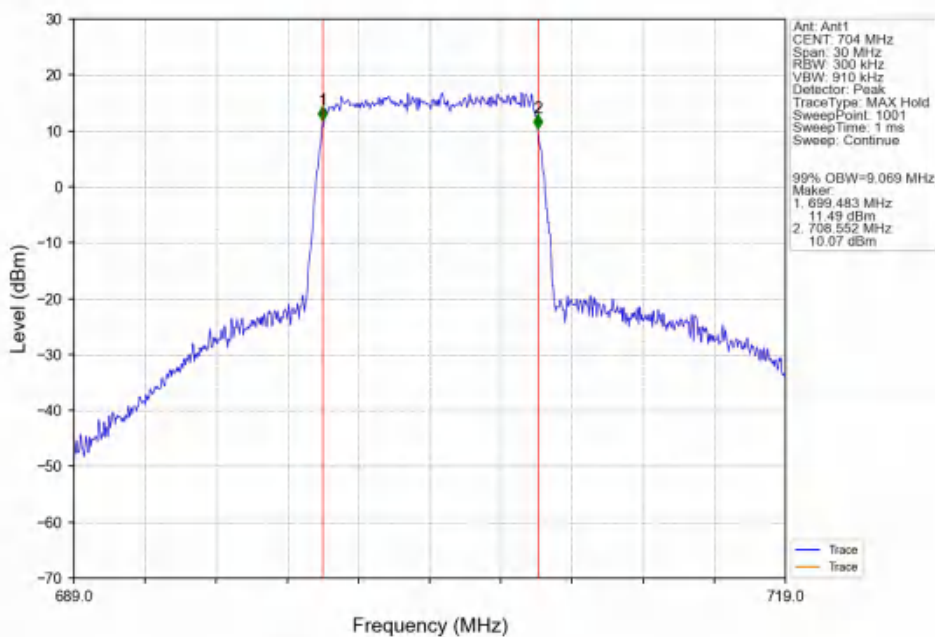
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTNV



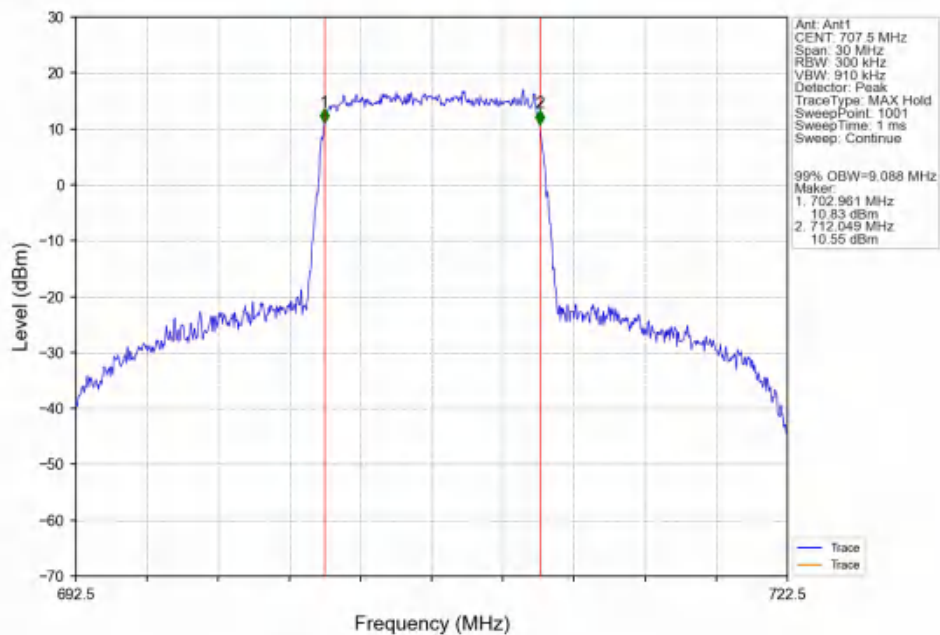
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



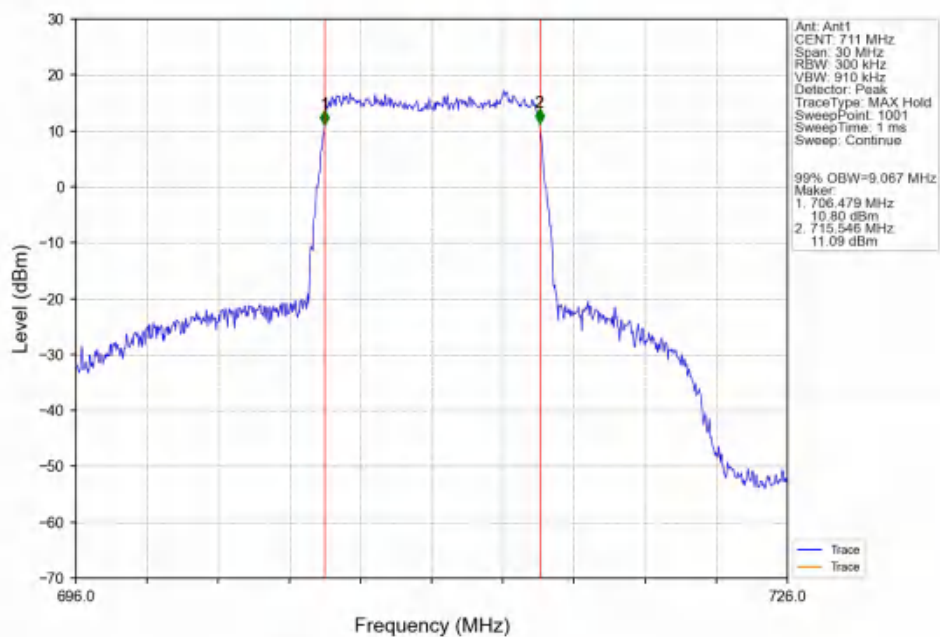
Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTNV



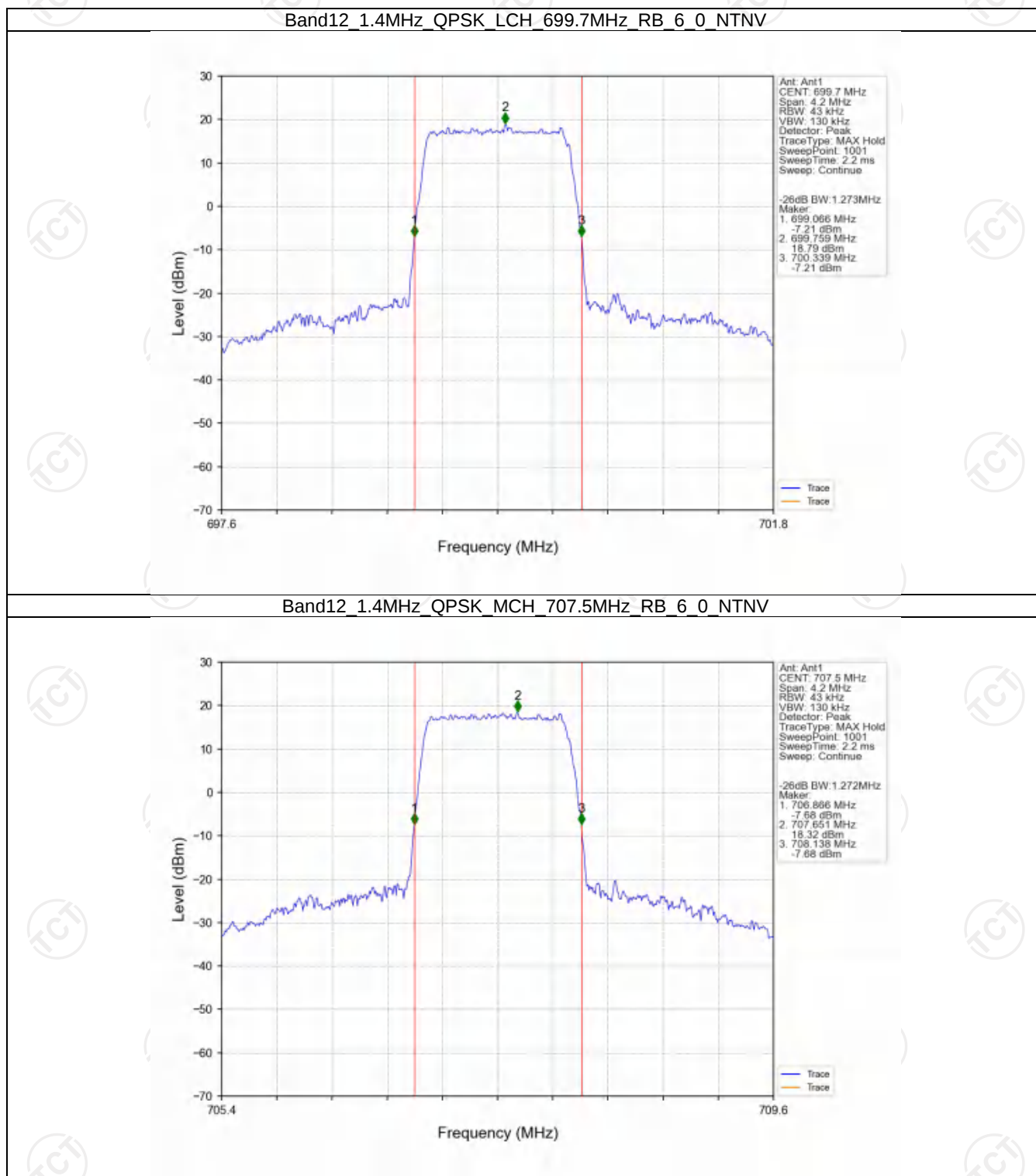
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTNV



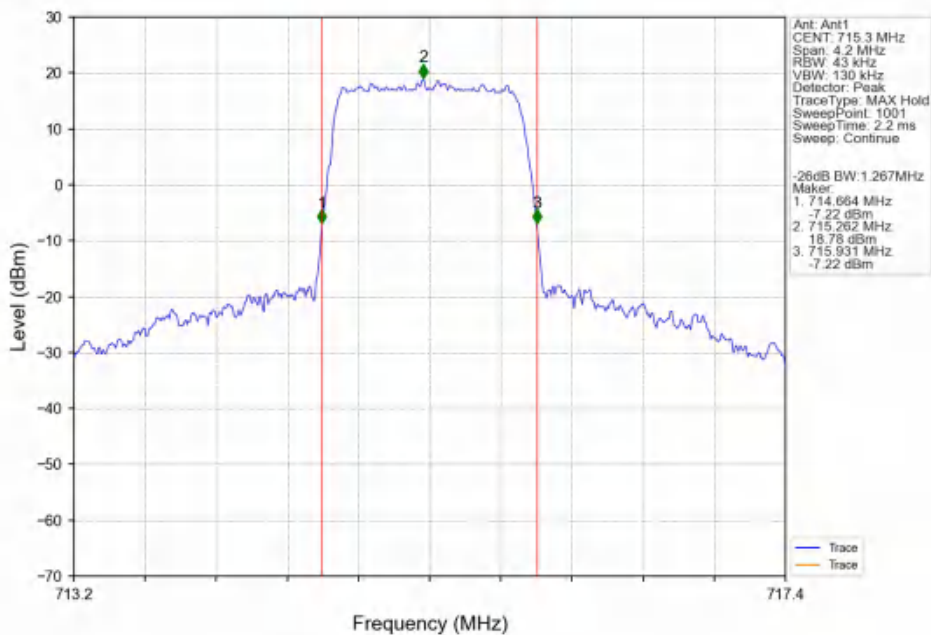
Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



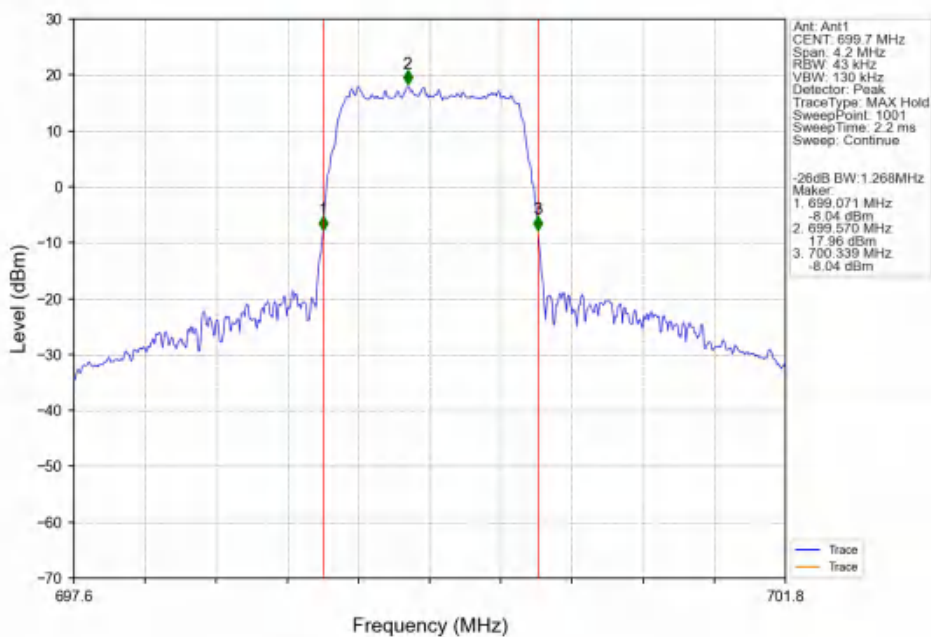
#### 4.2.2 Band12\_XDB



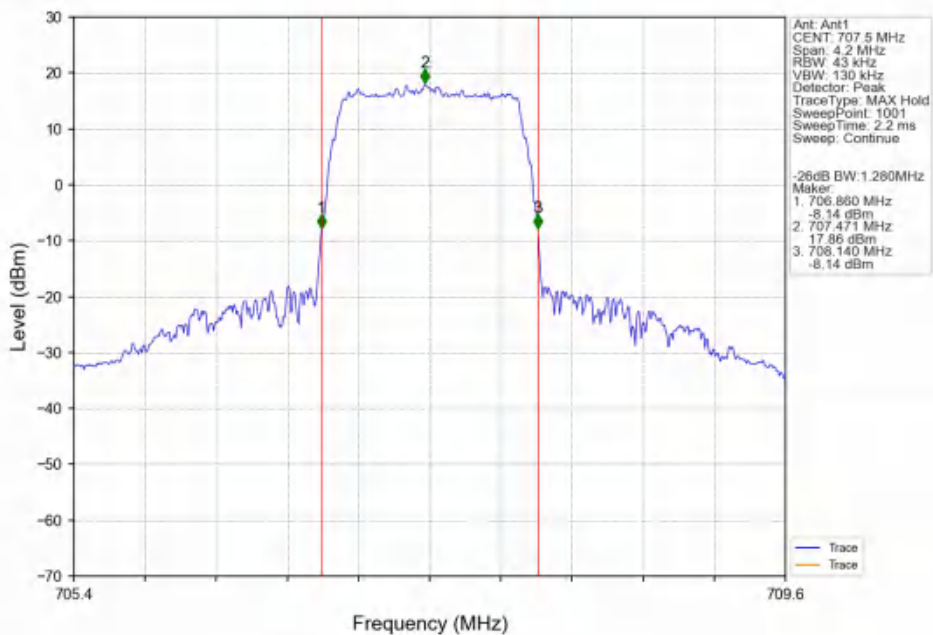
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



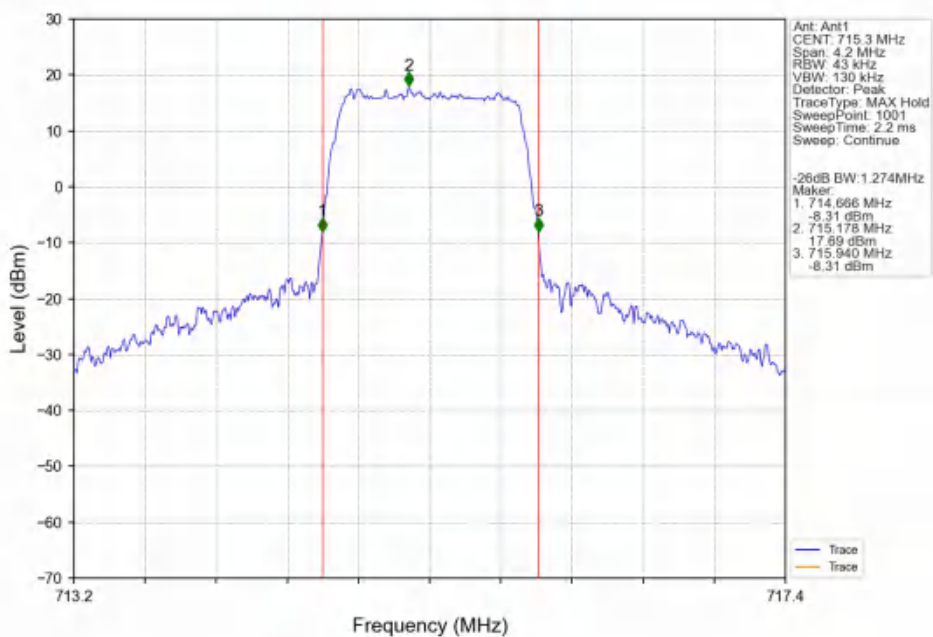
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



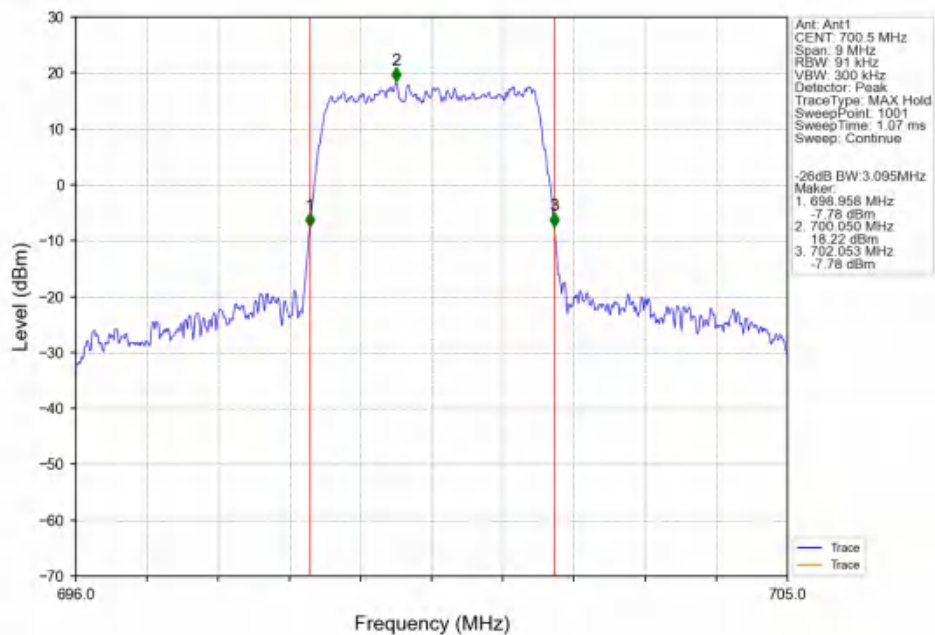
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



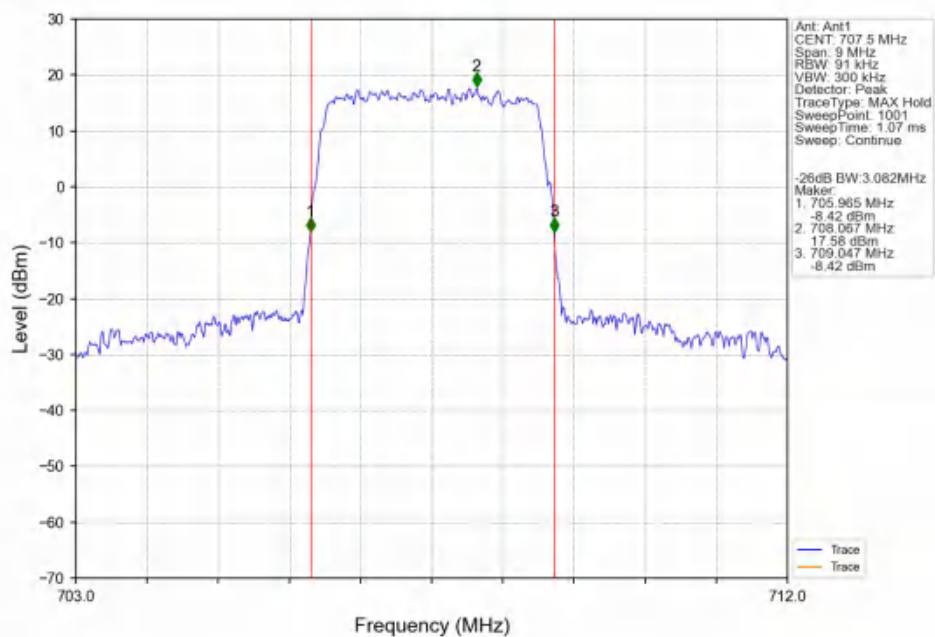
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



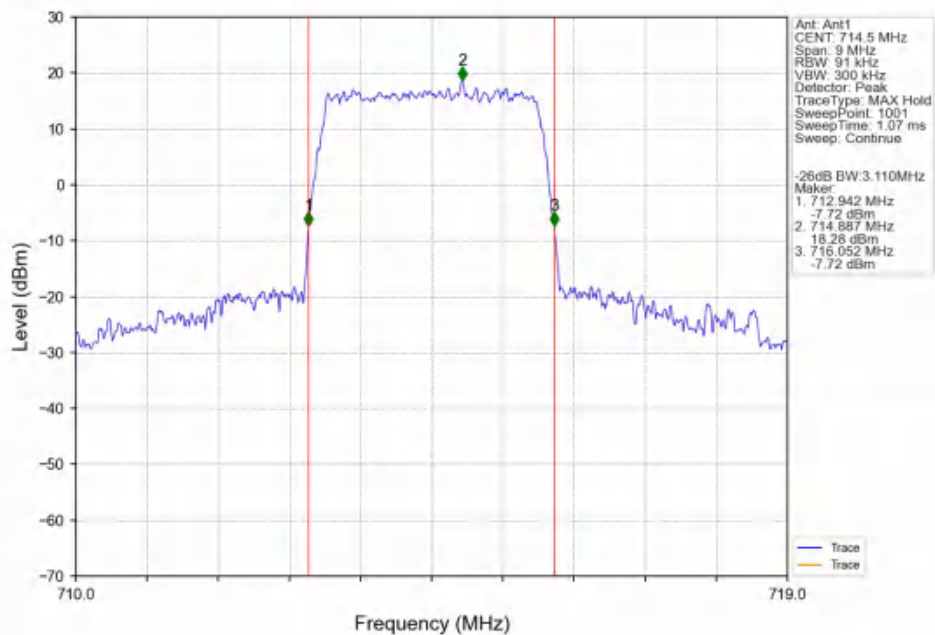
Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV



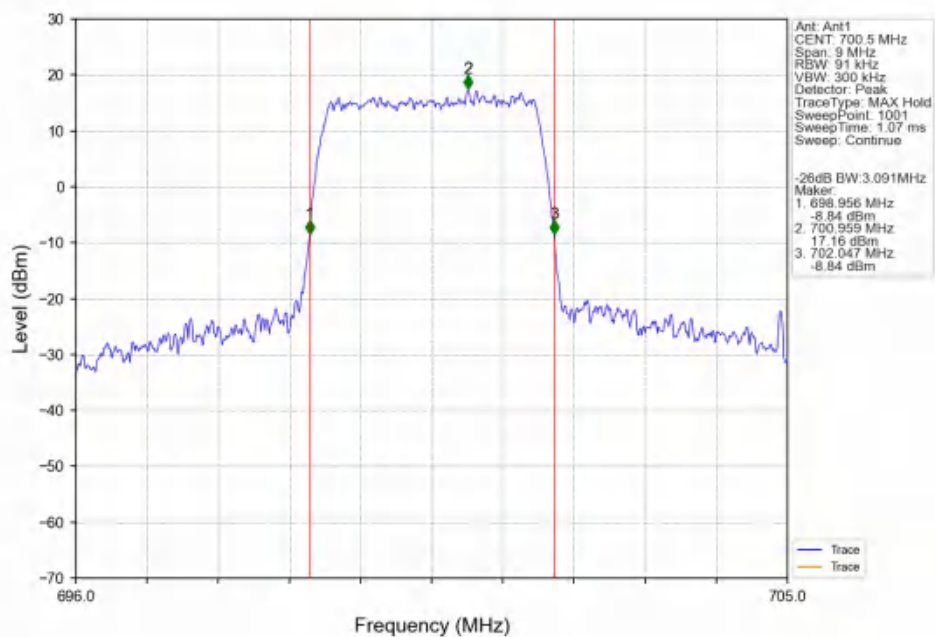
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



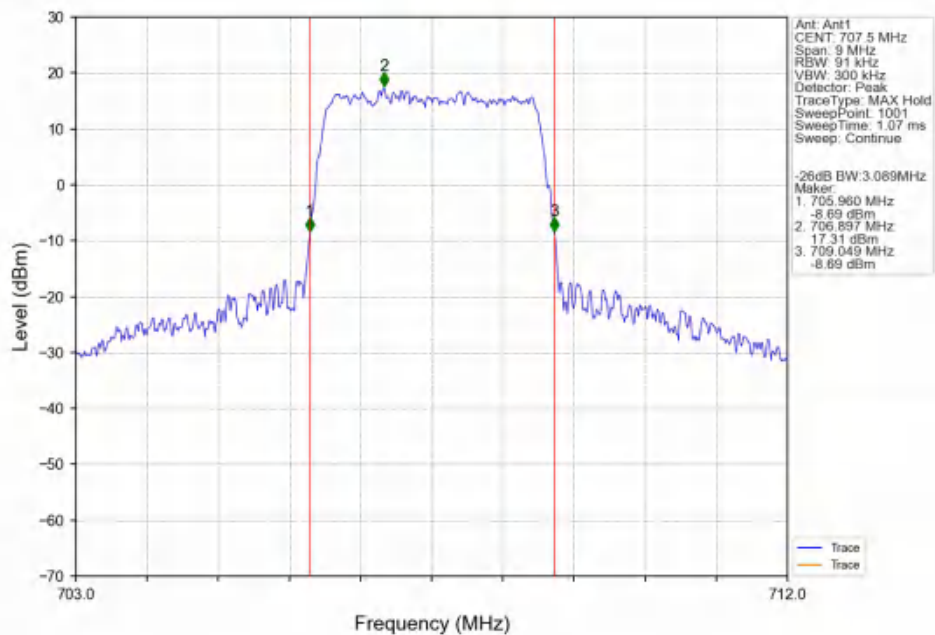
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



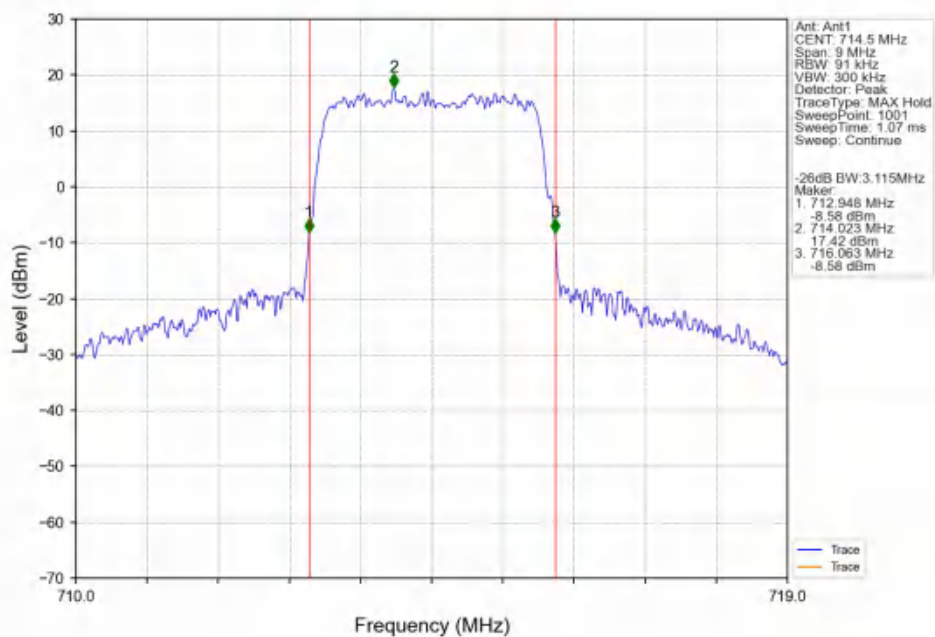
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



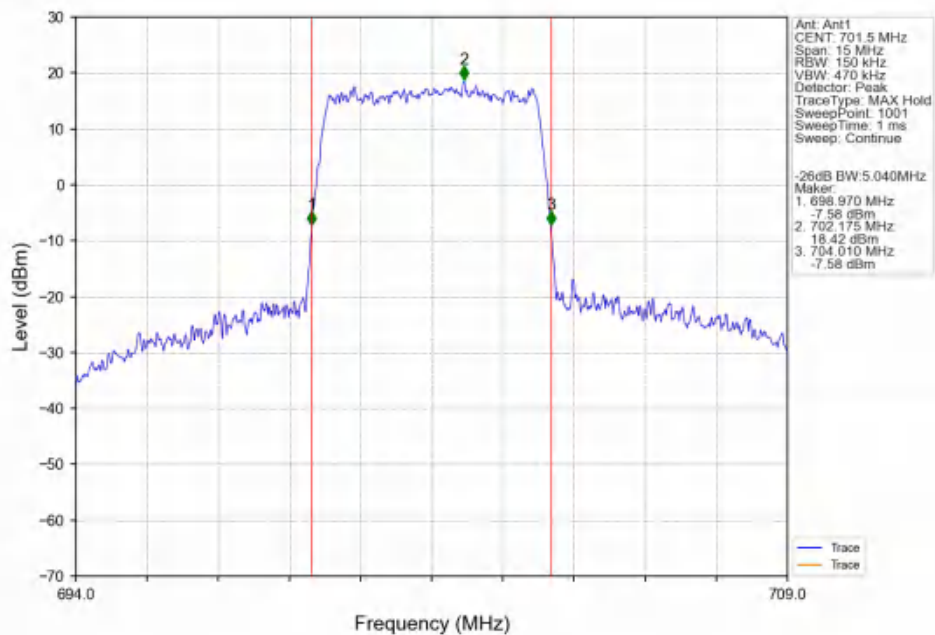
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



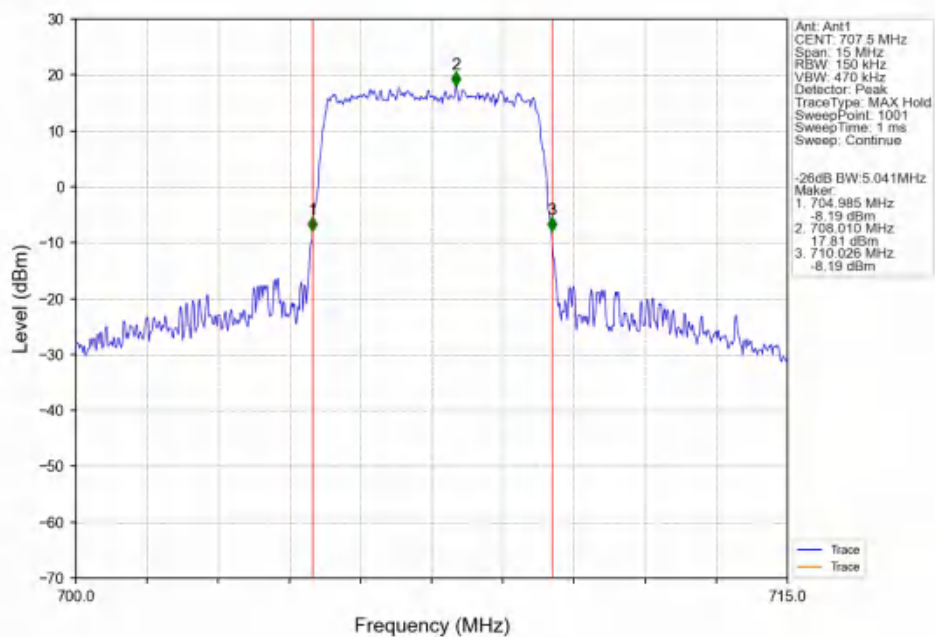
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



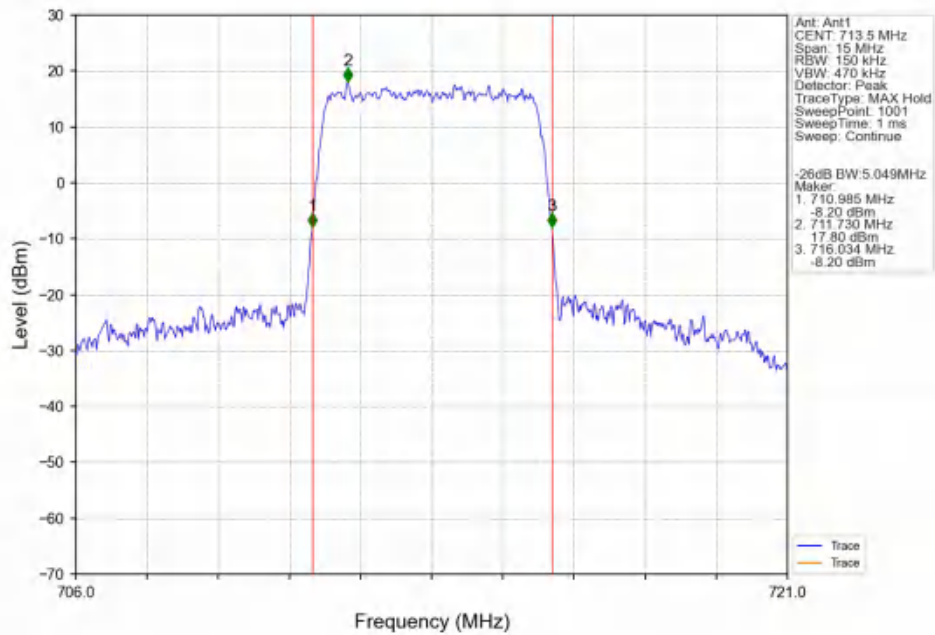
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



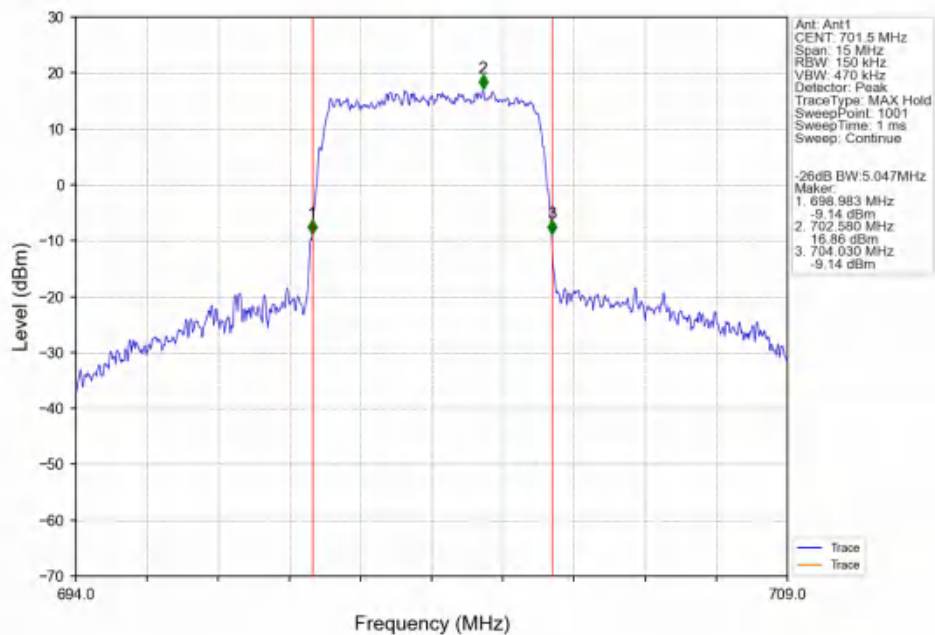
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



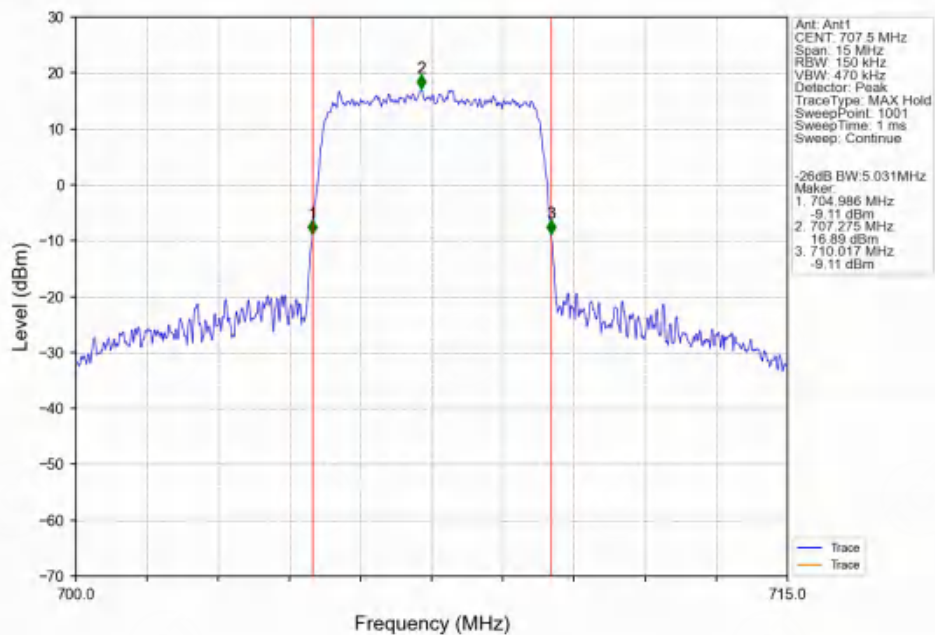
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



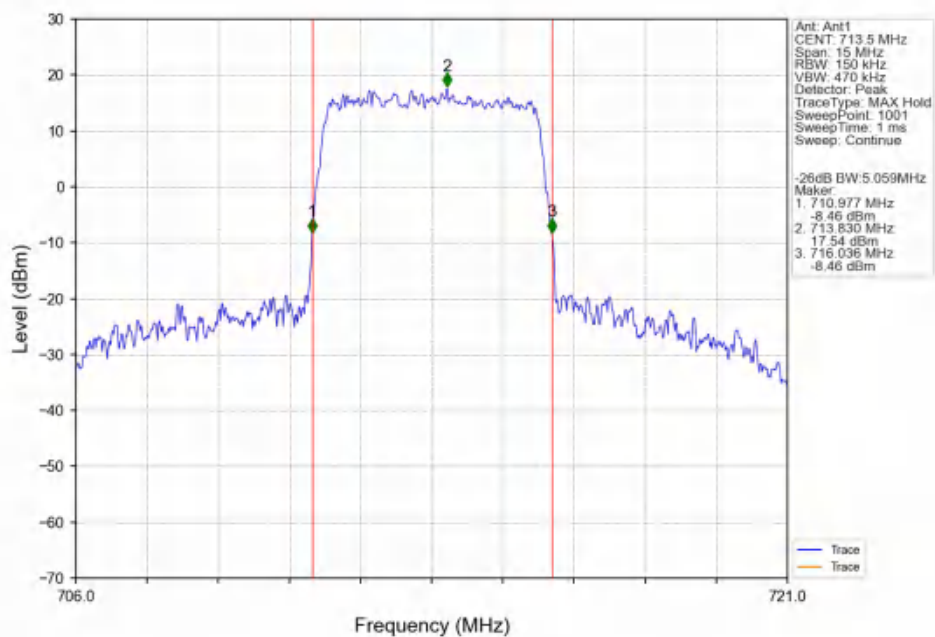
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTNV



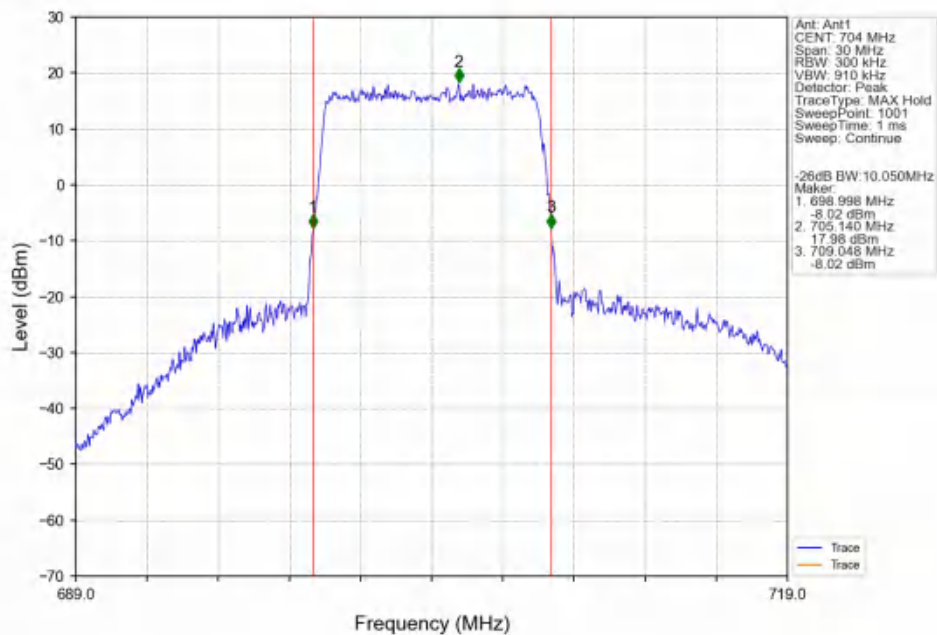
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTV



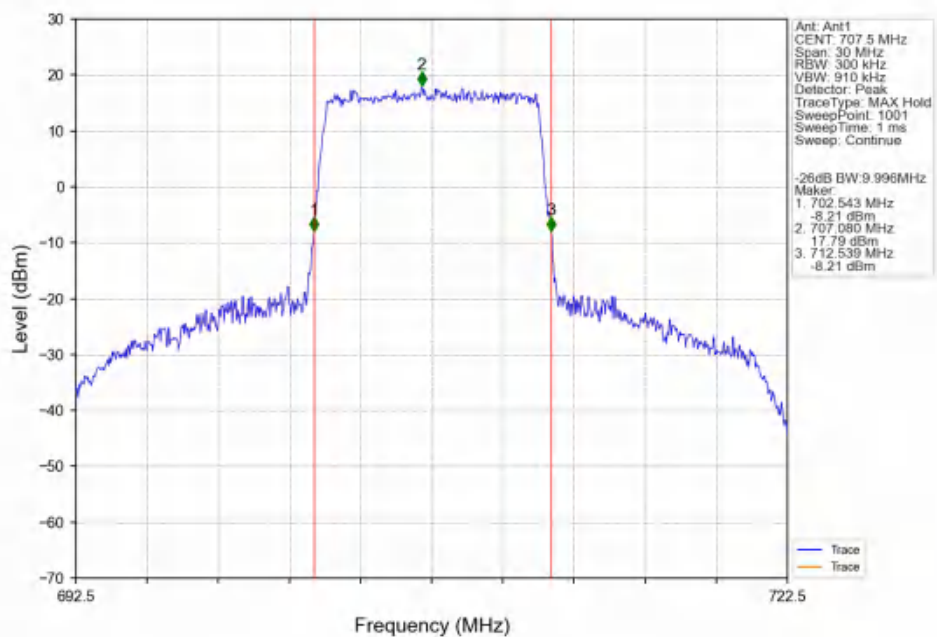
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTV



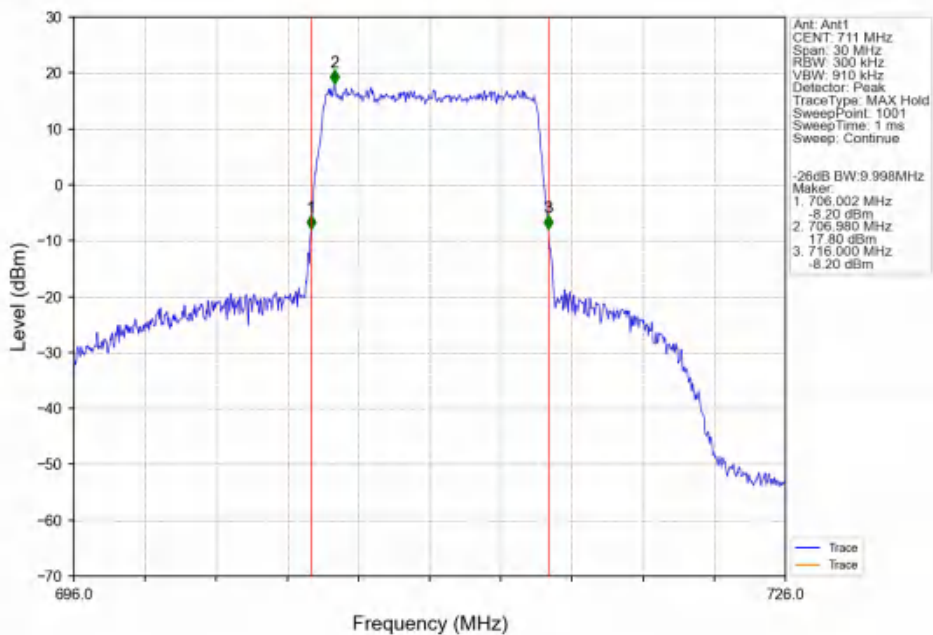
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



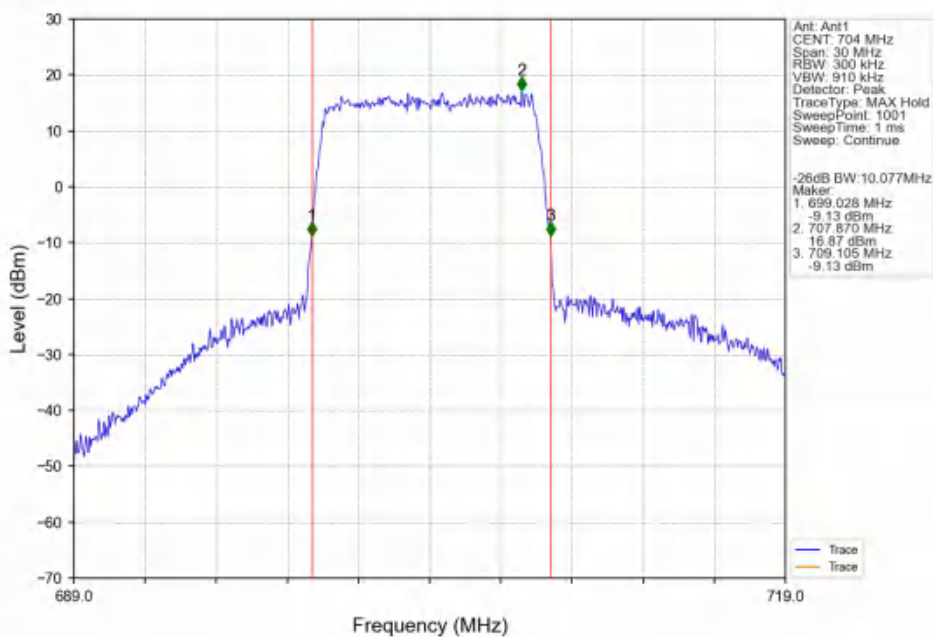
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



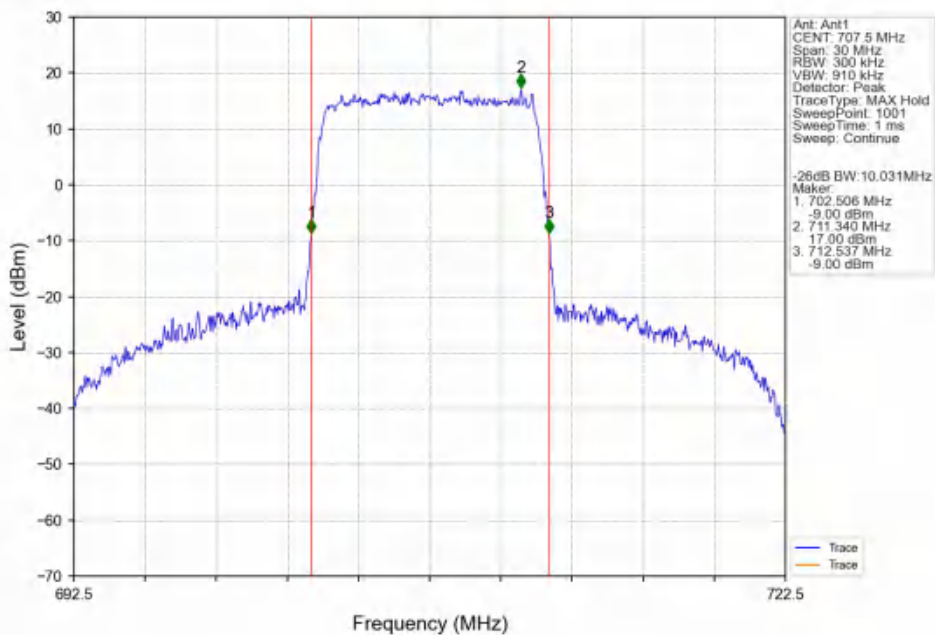
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



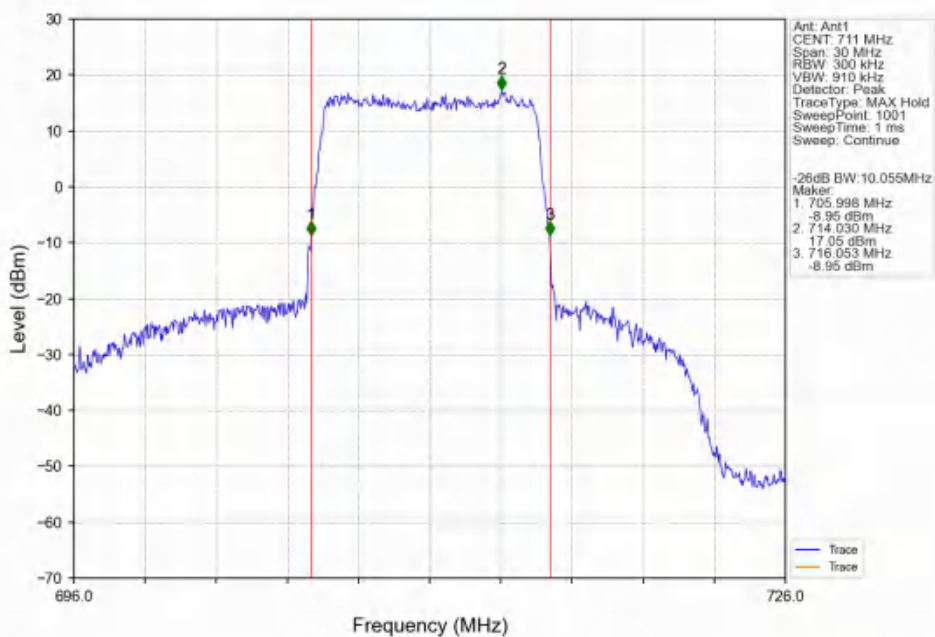
Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTNV



Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



## 5. Peak-Average Ratio

### 5.1 Test Result

#### 5.1.1 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      | 5.27                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.15                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 4.59                    | <=13  | Pass    |
| 16QAM                               | 699.7           | 6             | 0      | 6.06                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 6.02                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 5.58                    | <=13  | Pass    |

#### 5.1.2 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      | 5.30                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.24                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.08                    | <=13  | Pass    |
| 16QAM                             | 700.5           | 15            | 0      | 6.19                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 6.16                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 5.98                    | <=13  | Pass    |

#### 5.1.3 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      | 5.18                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 5.42                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 5.38                    | <=13  | Pass    |
| 16QAM                             | 701.5           | 25            | 0      | 6.00                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 6.22                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.14                    | <=13  | Pass    |

#### 5.1.4 B12\_10MHz

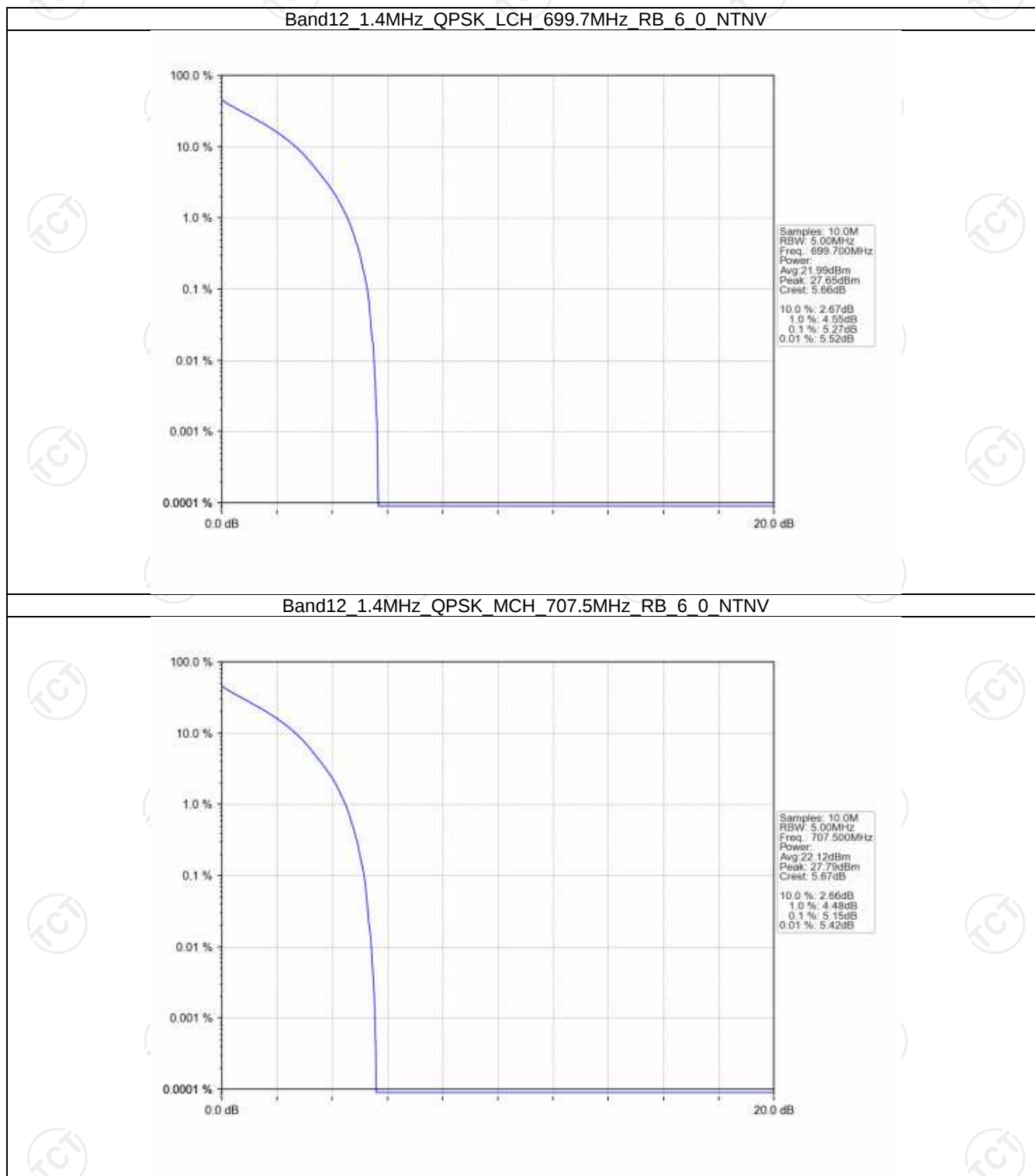
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 5.38                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.40                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.53                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 6.16                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 6.29                    | <=13  | Pass    |

|  |     |    |   |      |      |      |
|--|-----|----|---|------|------|------|
|  | 711 | 50 | 0 | 6.29 | <=13 | Pass |
|--|-----|----|---|------|------|------|

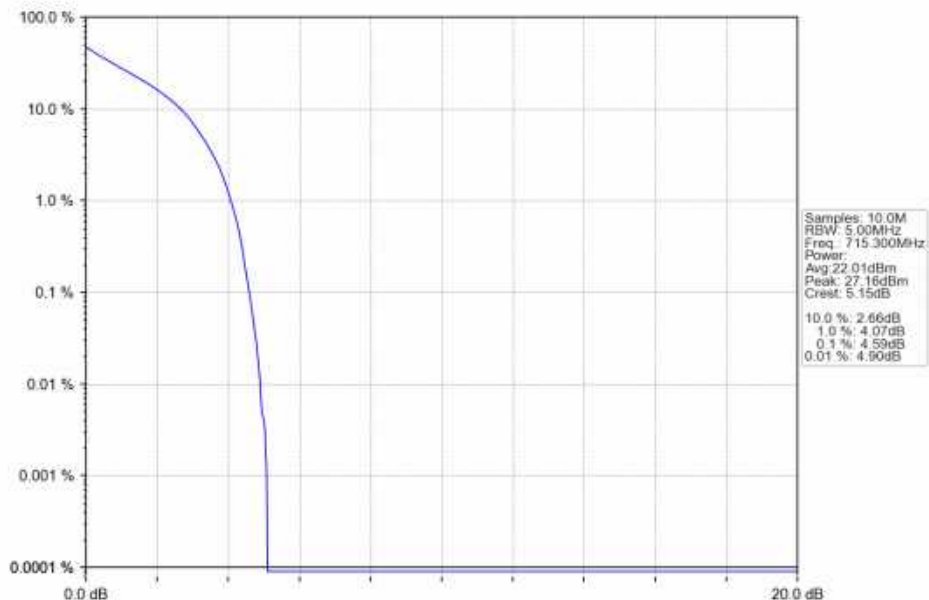


## 5.2 Test Graph

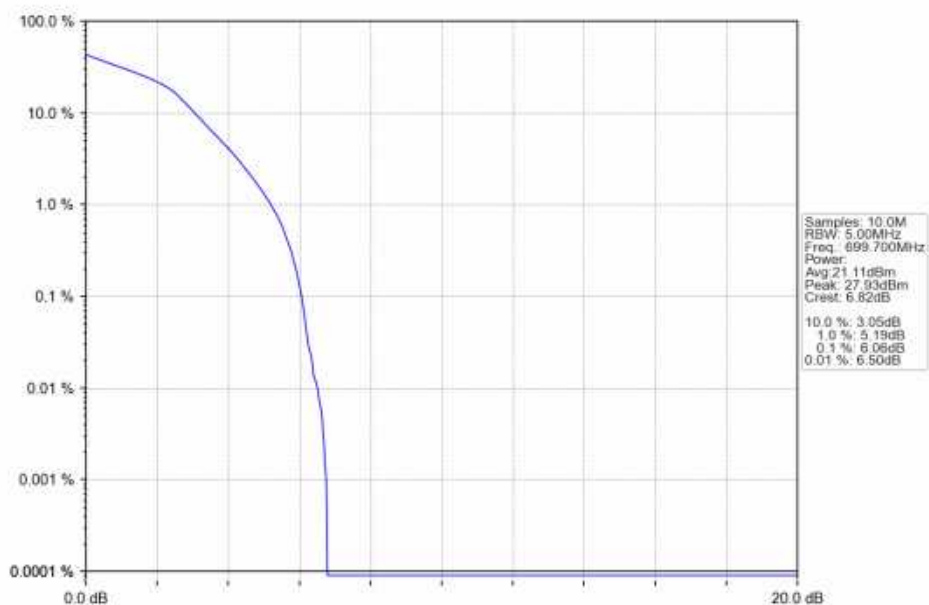
### 5.2.1 B12\_1.4MHz



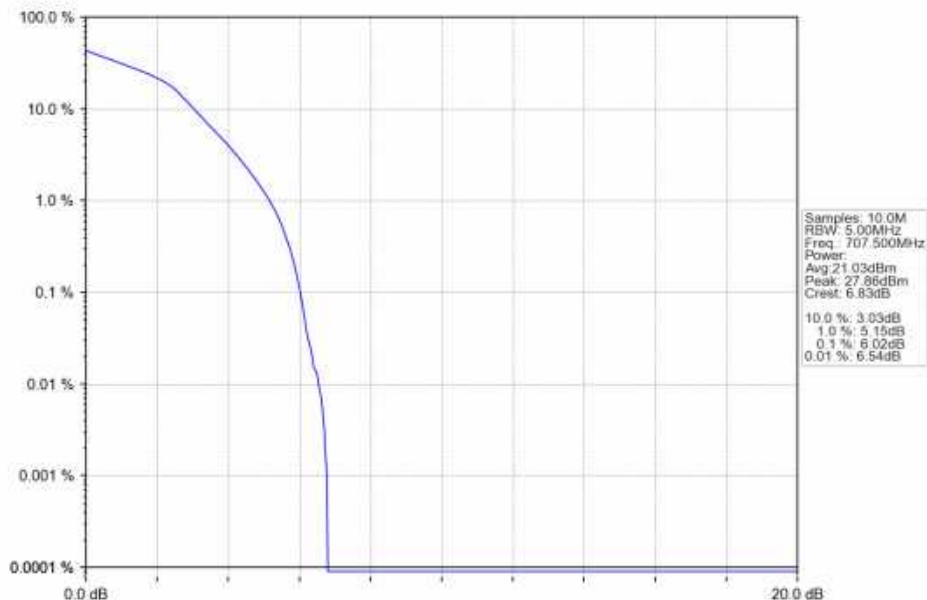
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



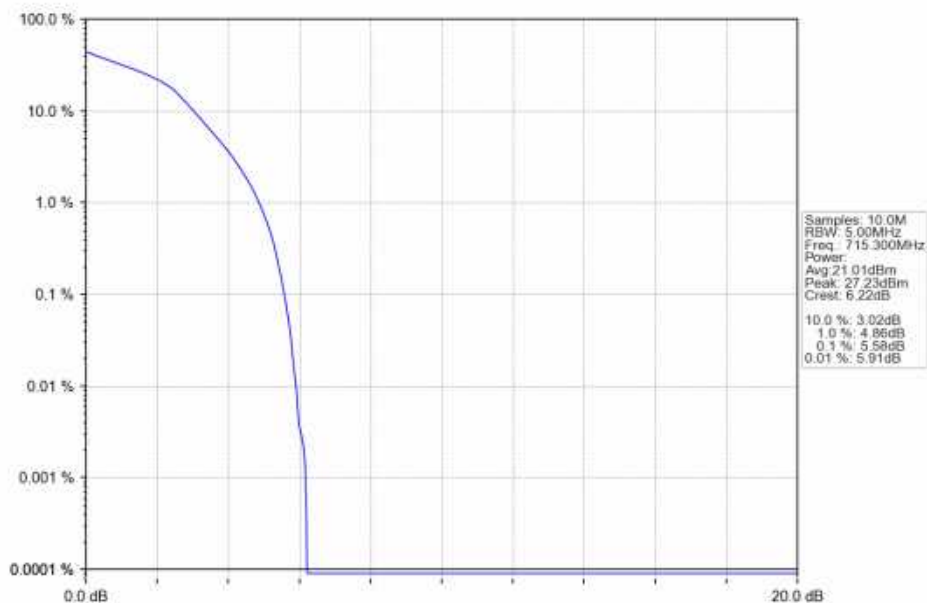
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



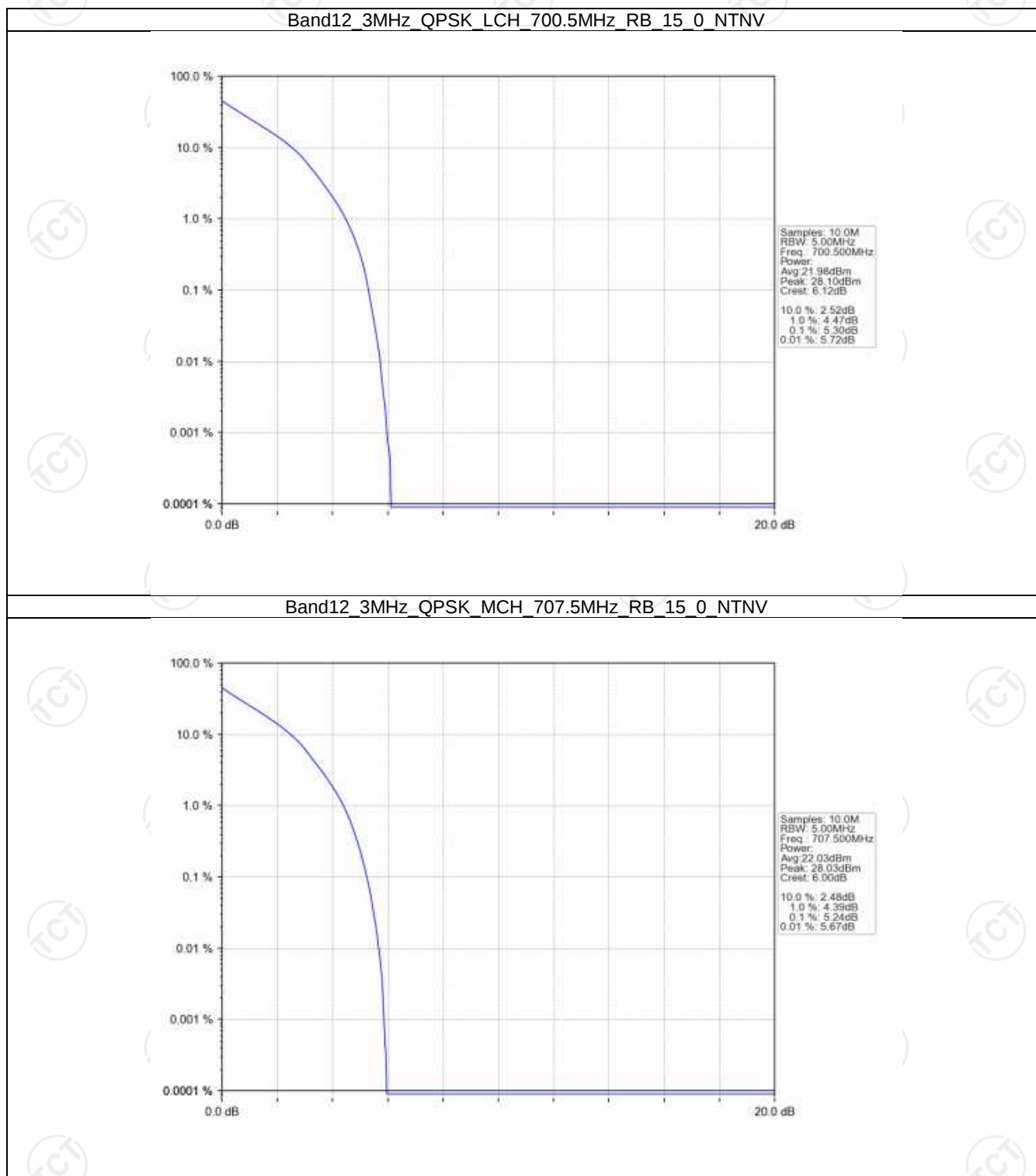
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



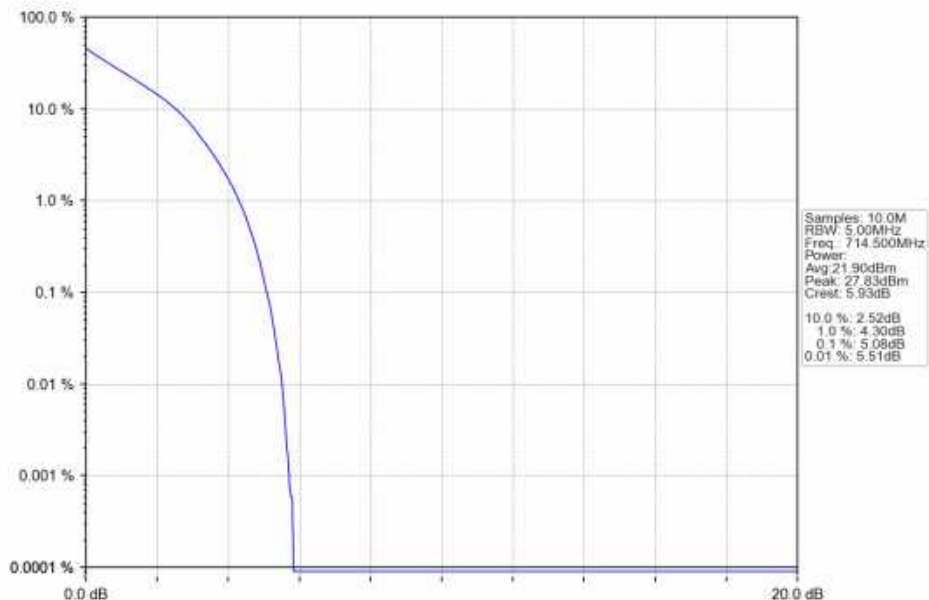
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



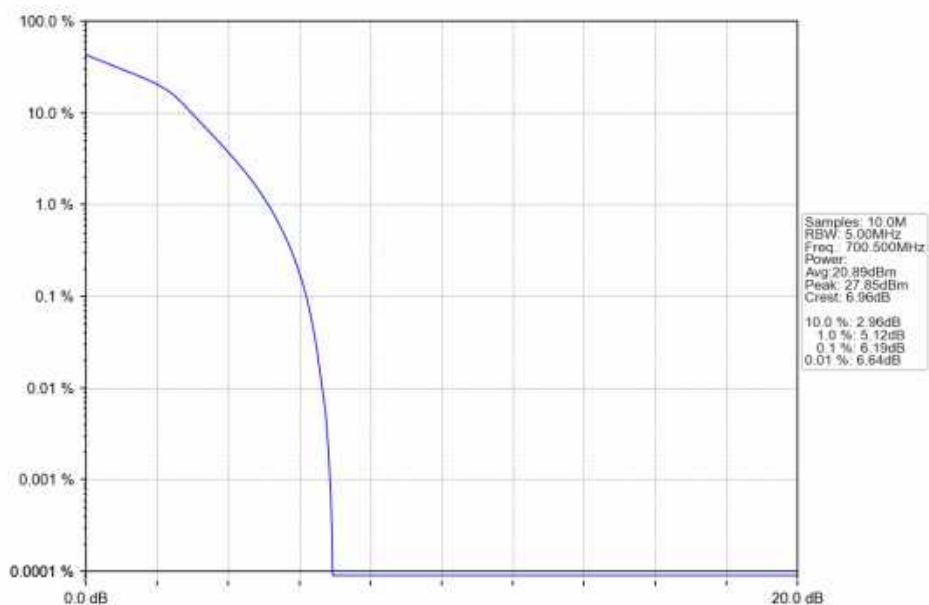
## 5.2.2 B12\_3MHz



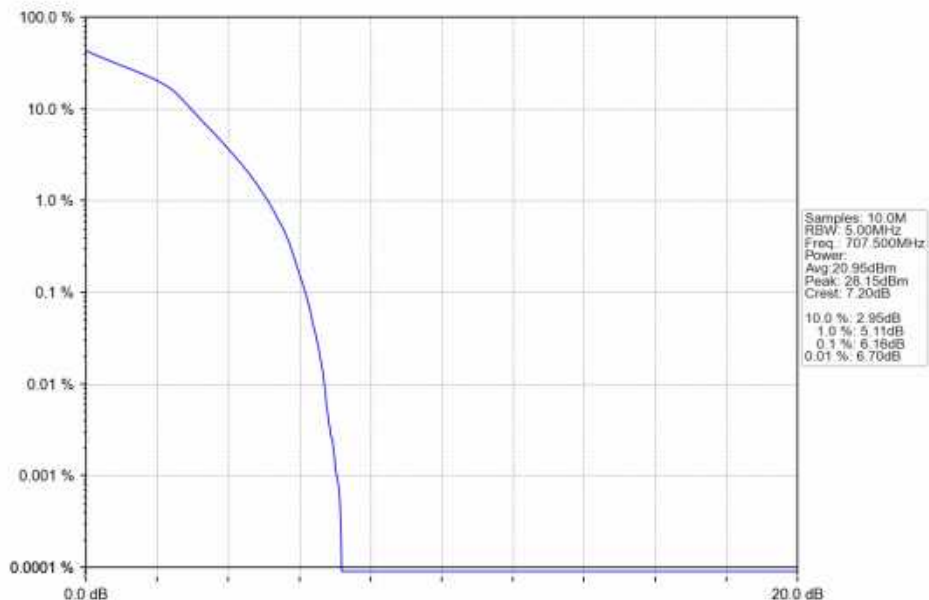
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



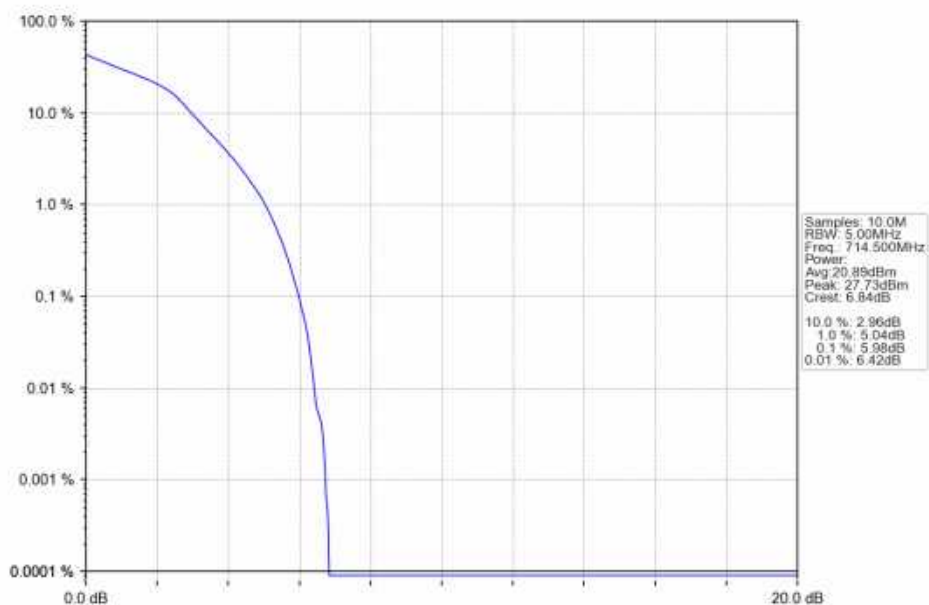
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



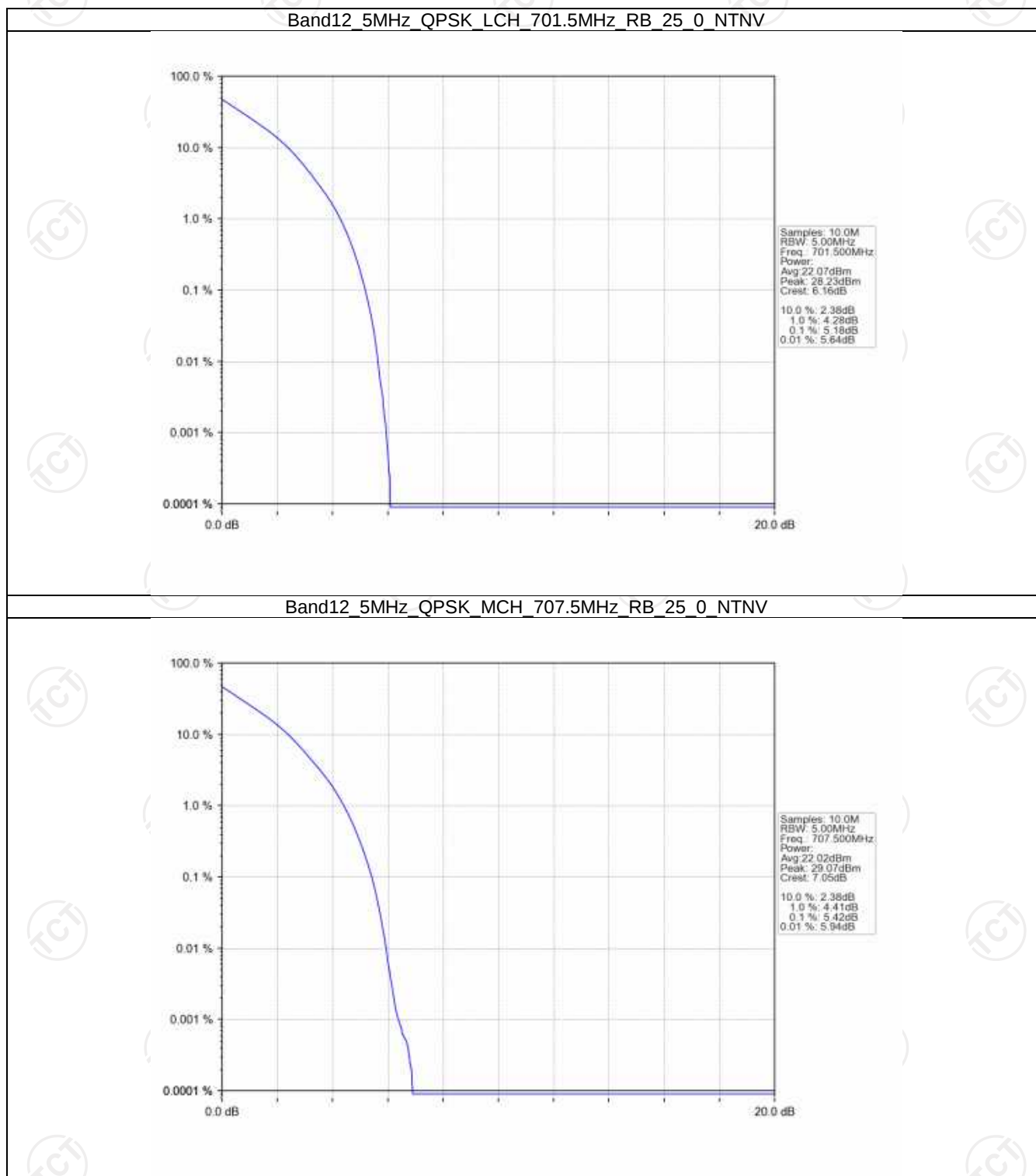
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



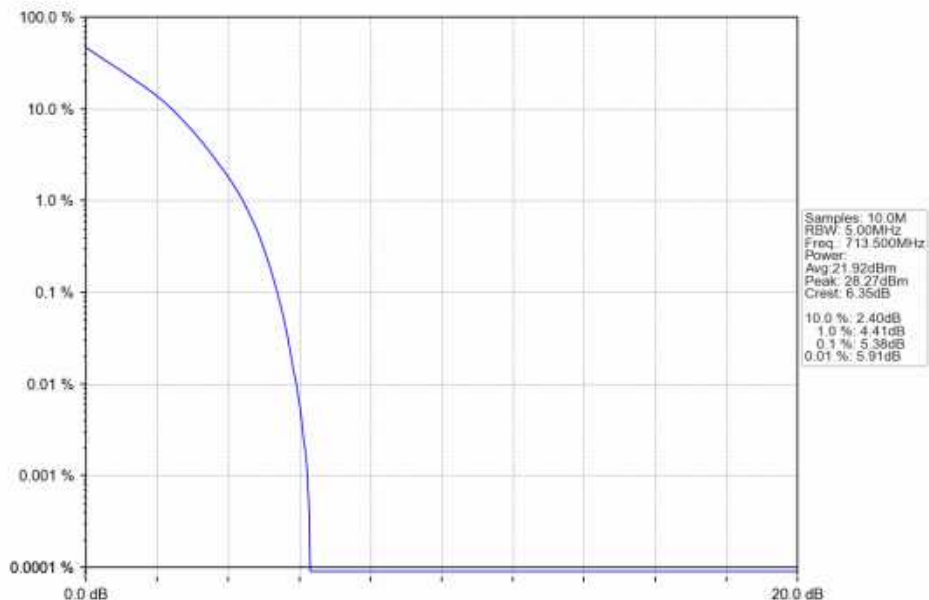
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



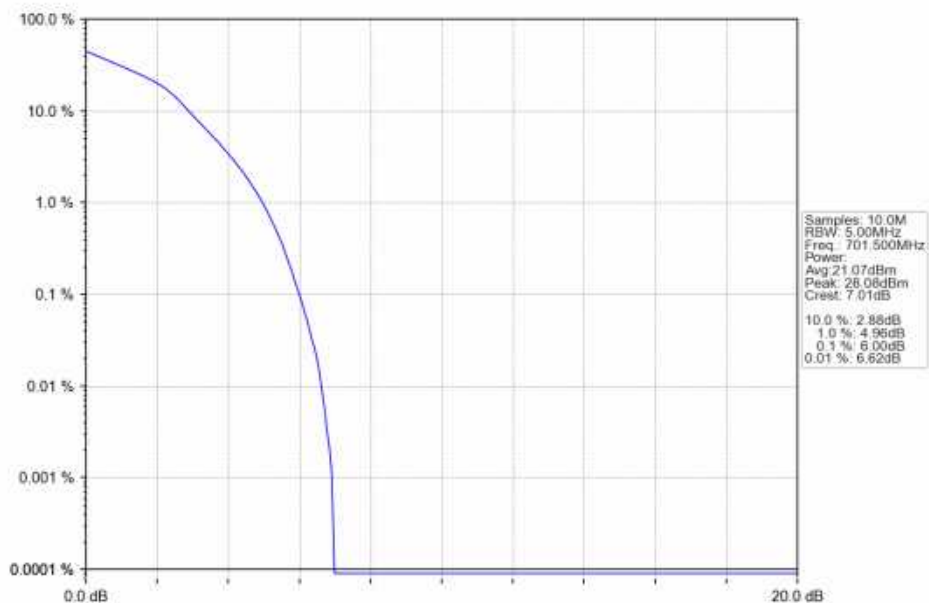
### 5.2.3 B12\_5MHz



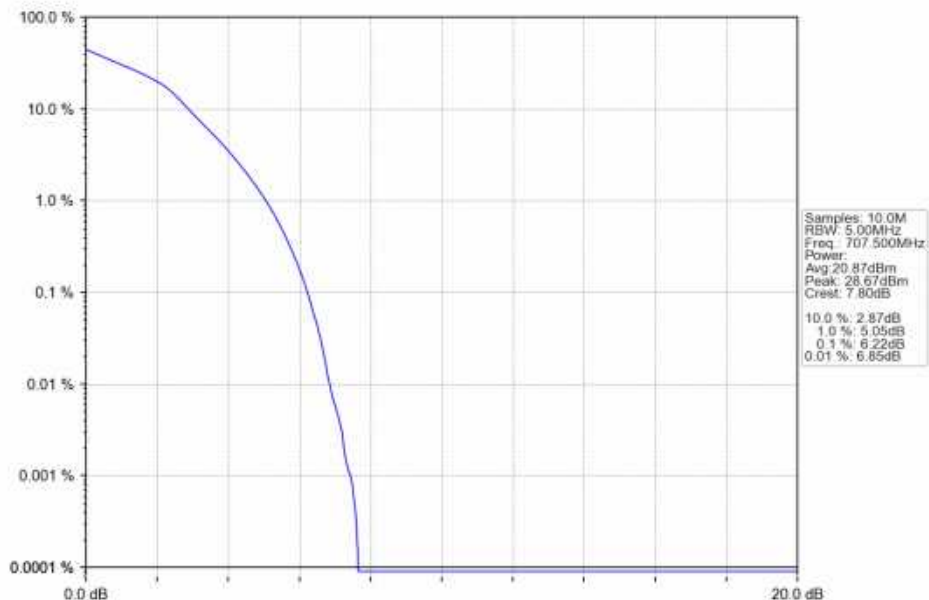
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



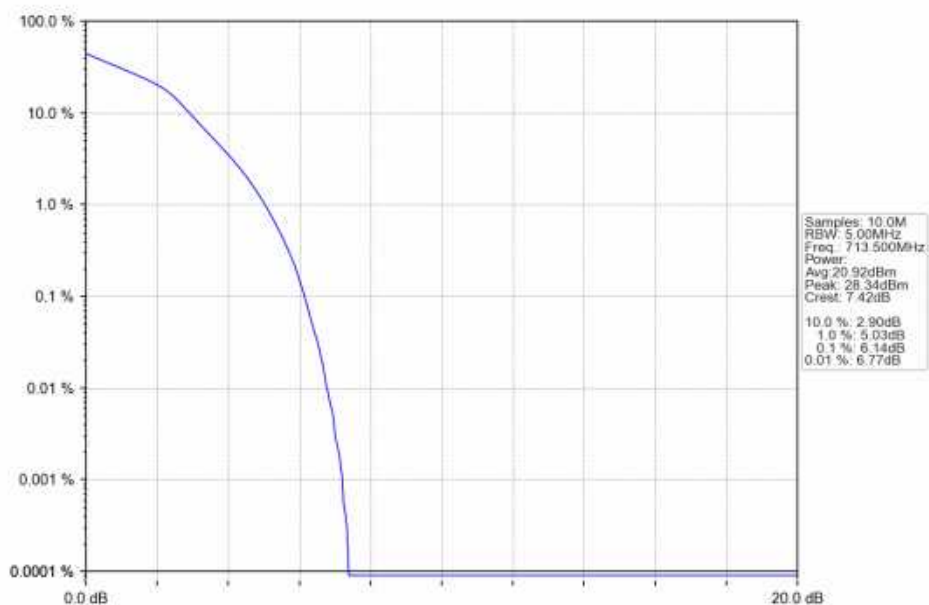
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTNV



Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV

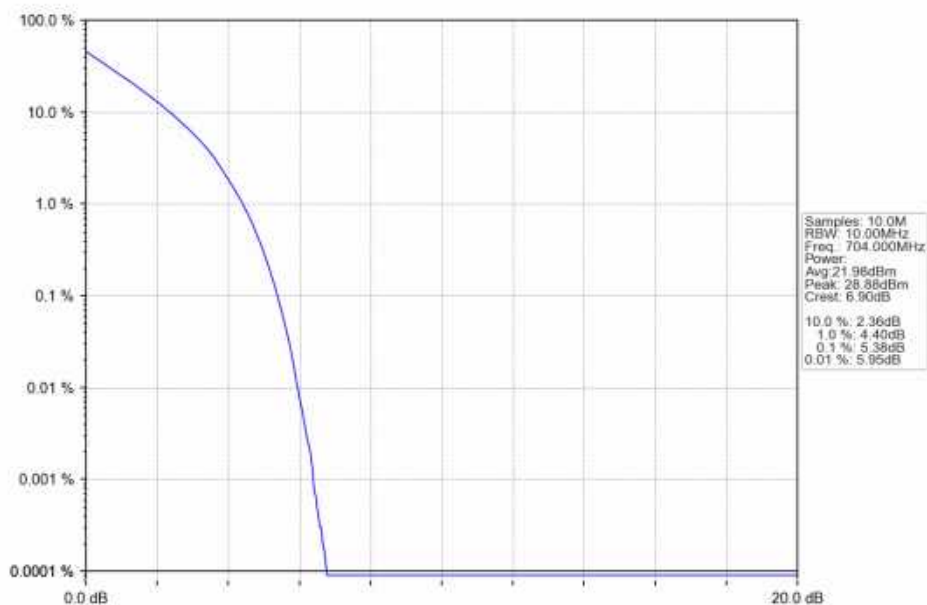


Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV

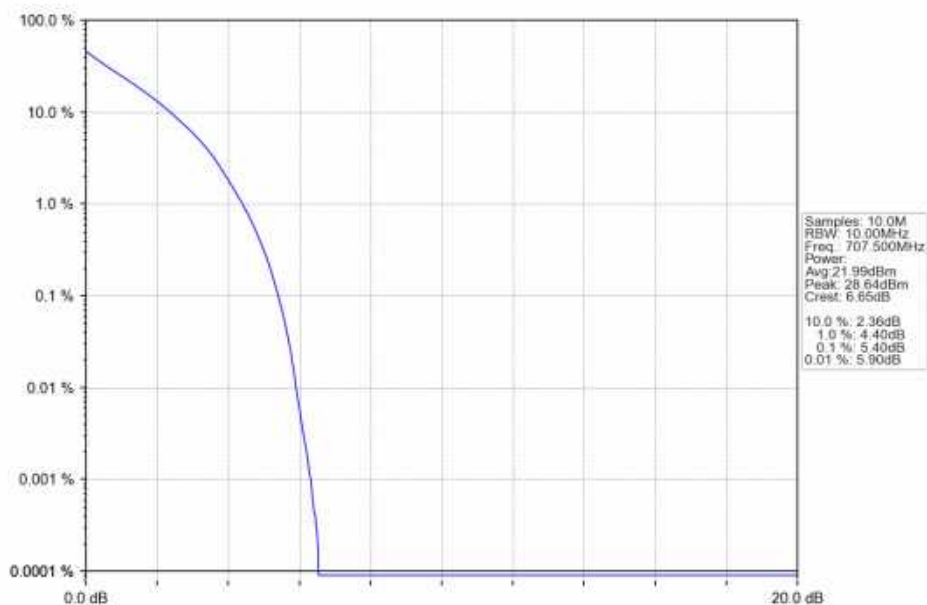


## 5.2.4 B12\_10MHz

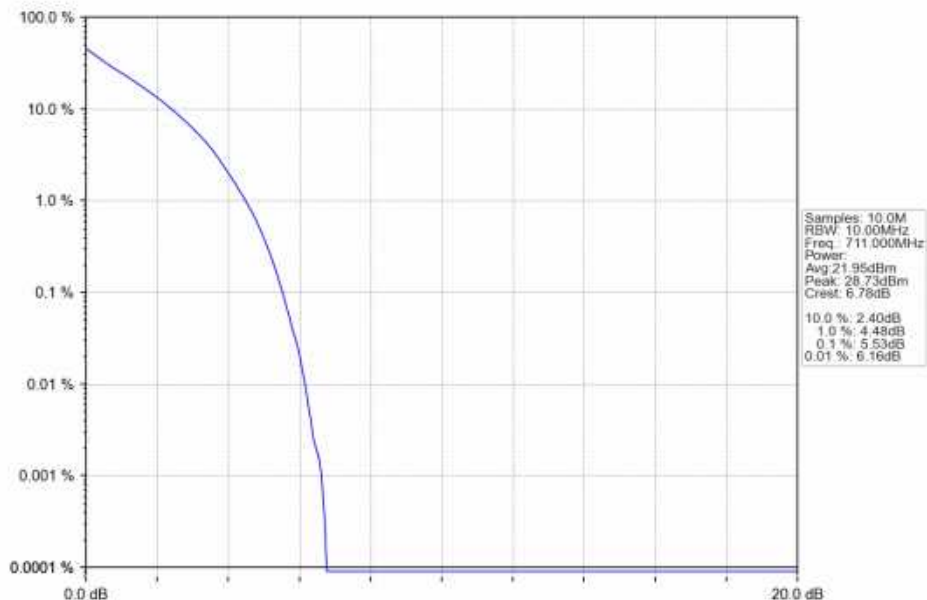
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



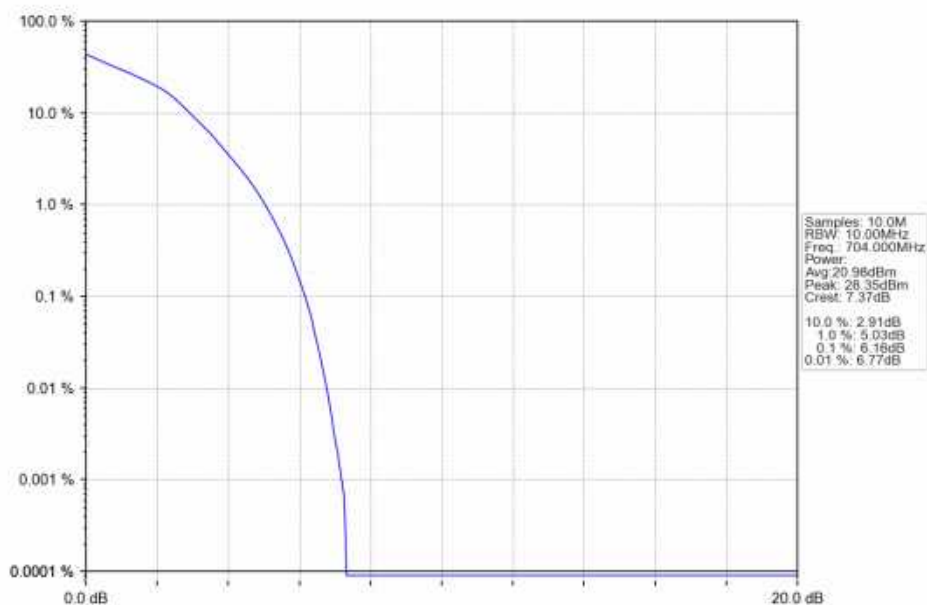
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



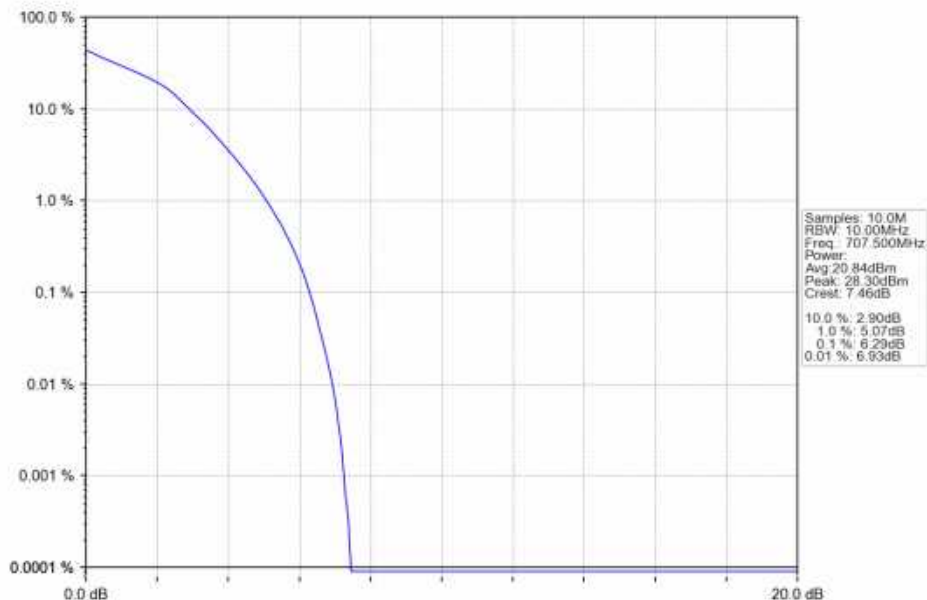
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



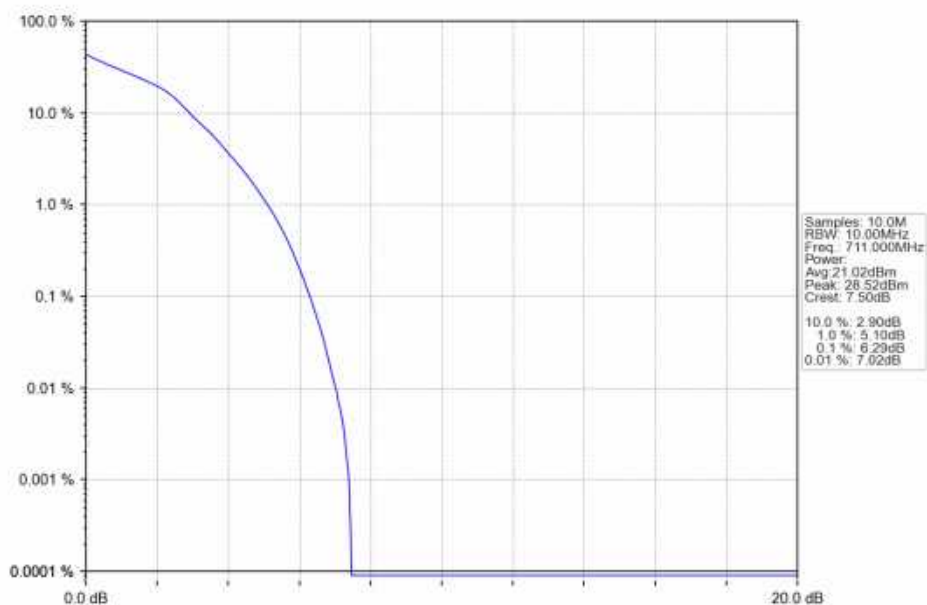
Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTNV



Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



## 6. Spurious Emission

### 6.1 Test Result

#### 6.1.1 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    |
|                                     |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 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    |
|                                     |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                     | 715.3           | 1             | 5      | Refer To Test Graph |       | Pass    |
|                                     |                 | 6             | 0      | Refer To Test Graph |       | Pass    |

#### 6.1.2 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    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 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    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 714.5           | 1             | 14     | Refer To Test Graph |       | Pass    |
|                                   |                 | 15            | 0      | Refer To Test Graph |       | Pass    |

#### 6.1.3 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    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 713.5           | 1             | 24     | Refer To Test Graph |       | Pass    |
|                                   |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                             | 701.5           | 1             | 0      | Refer To Test Graph |       | Pass    |

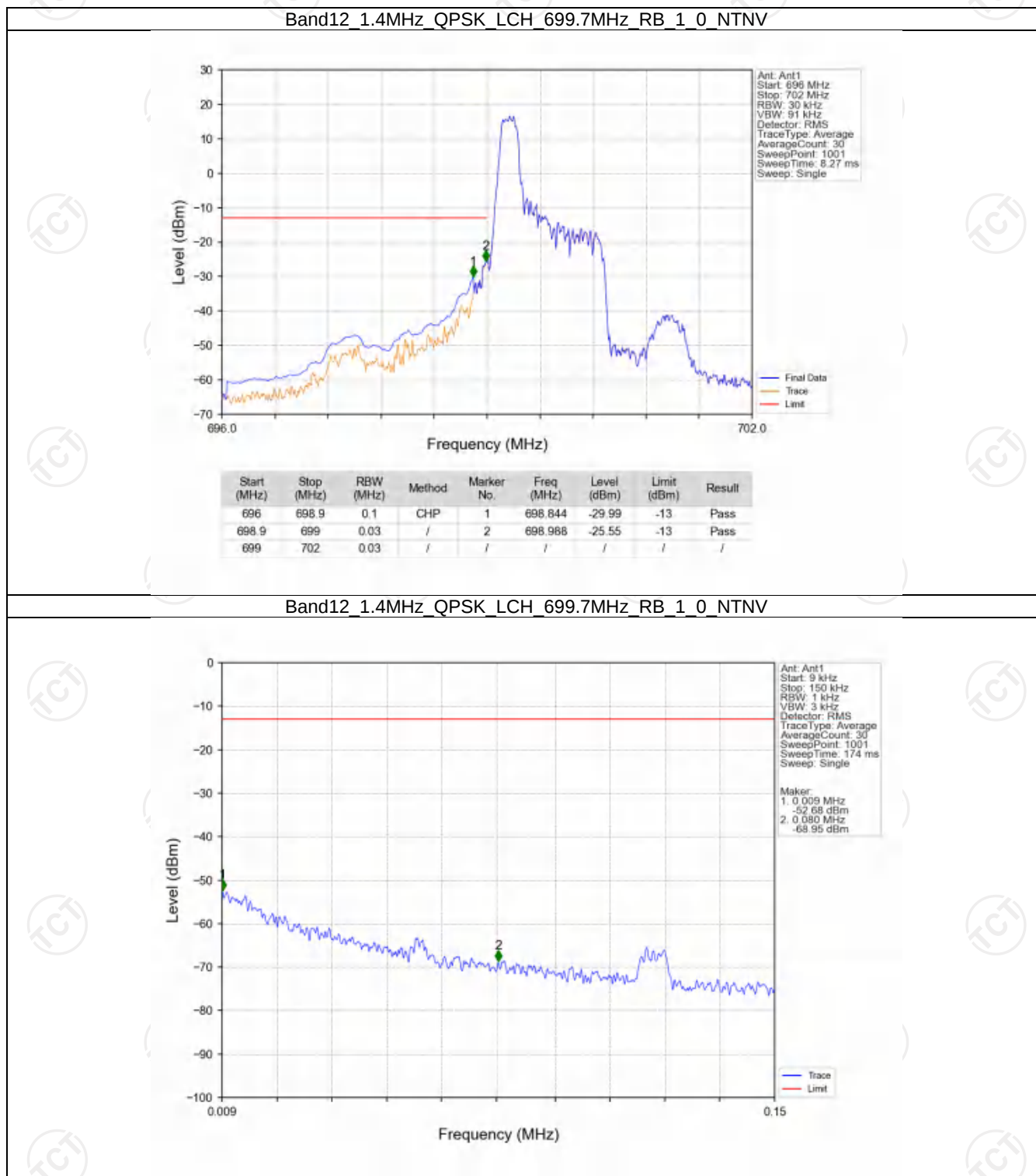
|  |       |    |    |                     |      |
|--|-------|----|----|---------------------|------|
|  |       | 25 | 0  | Refer To Test Graph | Pass |
|  | 707.5 | 1  | 0  | Refer To Test Graph | Pass |
|  | 713.5 | 1  | 0  | Refer To Test Graph | Pass |
|  |       |    | 24 | Refer To Test Graph | Pass |
|  |       | 25 | 0  | Refer To Test Graph | Pass |

## 6.1.4 B12\_10MHz

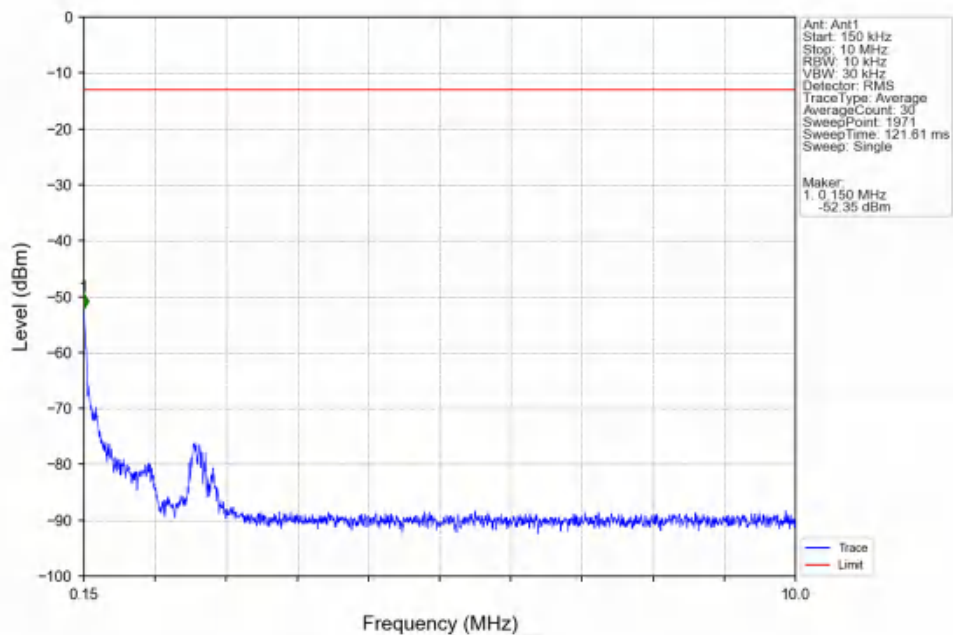
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | 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    |

## 6.2 Test Graph

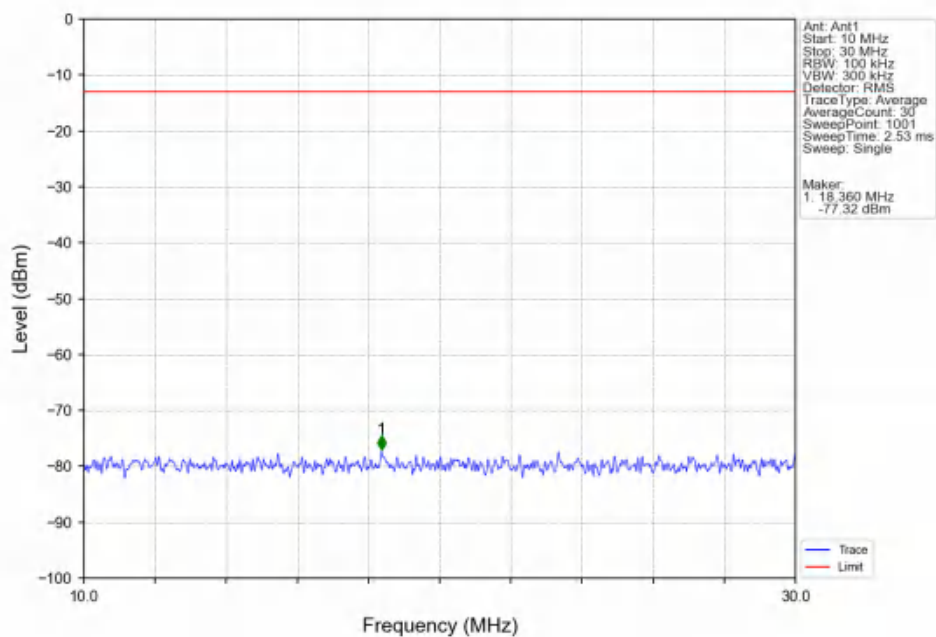
### 6.2.1 B12\_1.4MHz



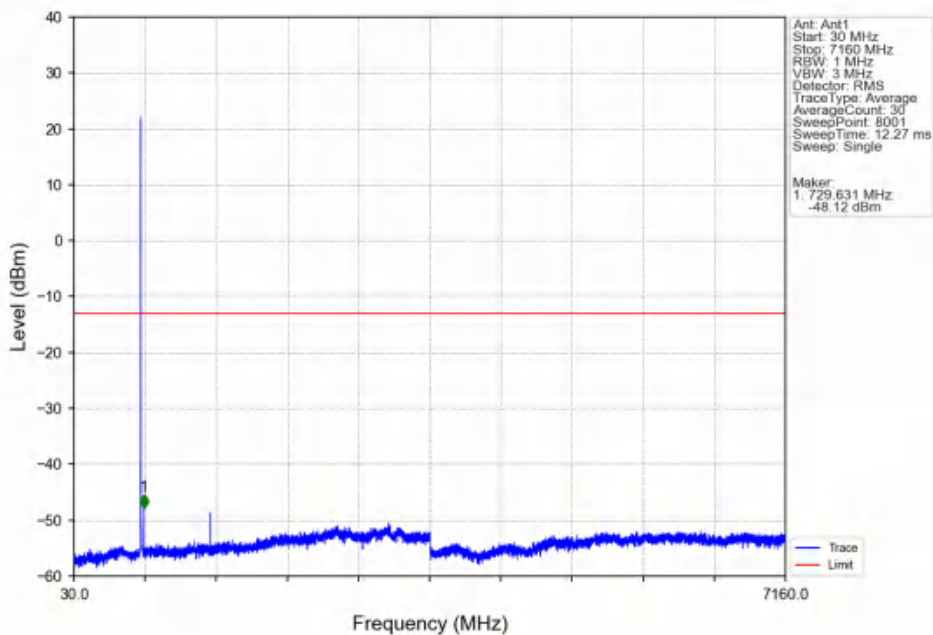
Band12 1.4MHz QPSK LCH 699.7MHz RB 1 0 NTV



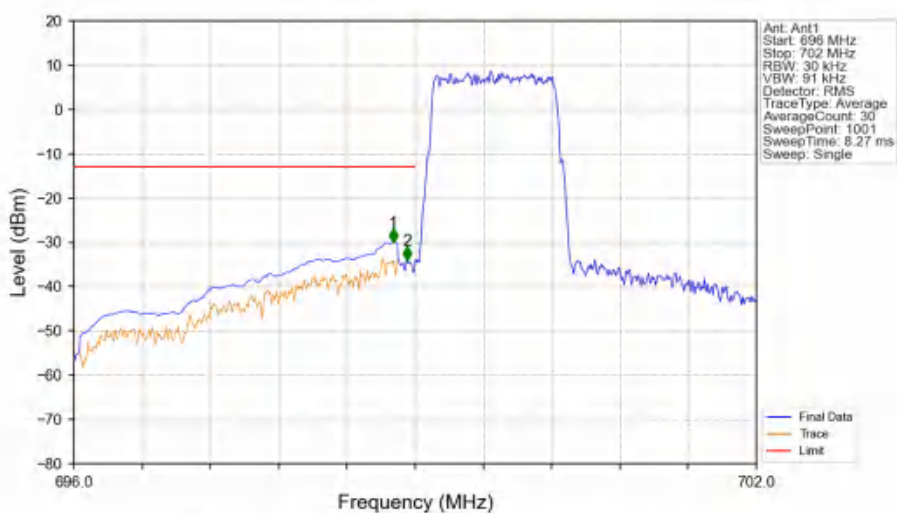
Band12 1.4MHz QPSK LCH 699.7MHz RB 1 0 NTV



Band12 1.4MHz QPSK LCH 699.7MHz RB 1 0 NTV

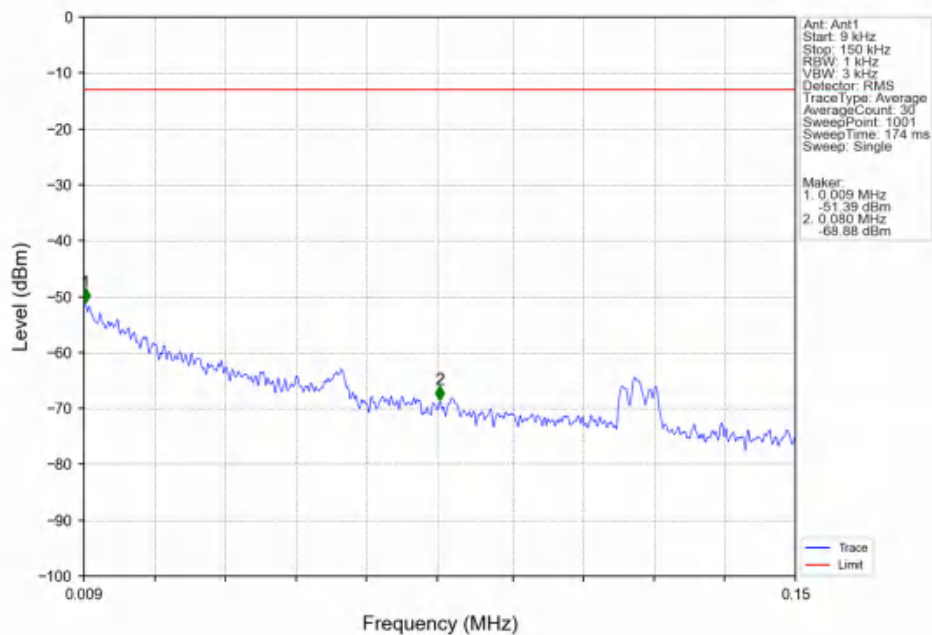


Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV

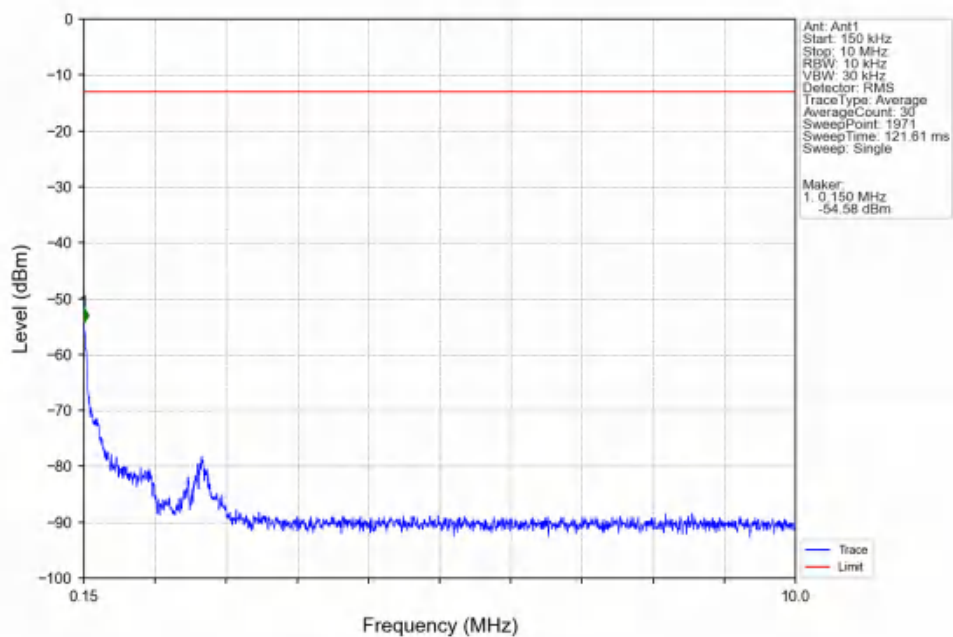


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.808    | -29.99      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.928    | -34.04      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

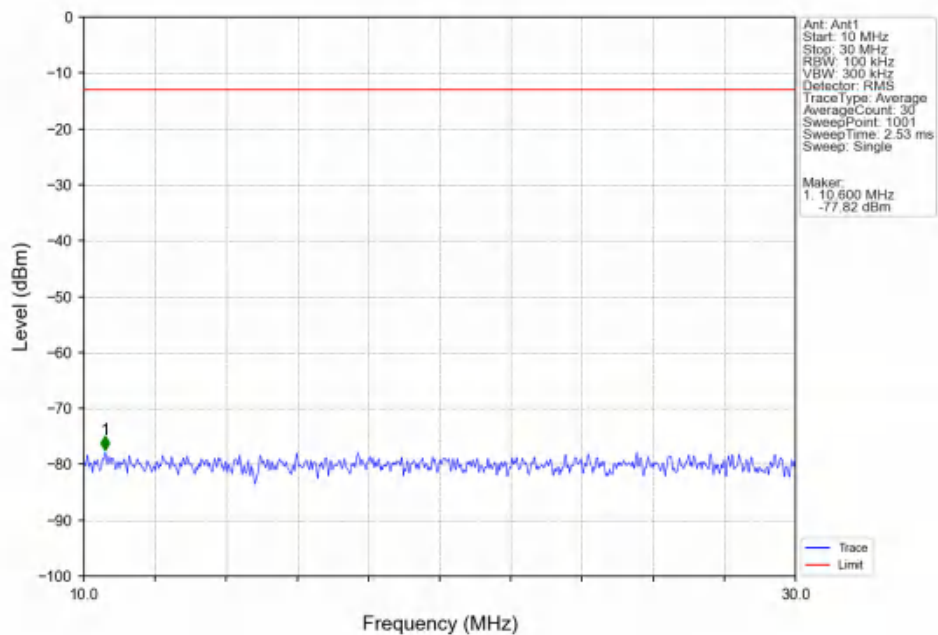
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



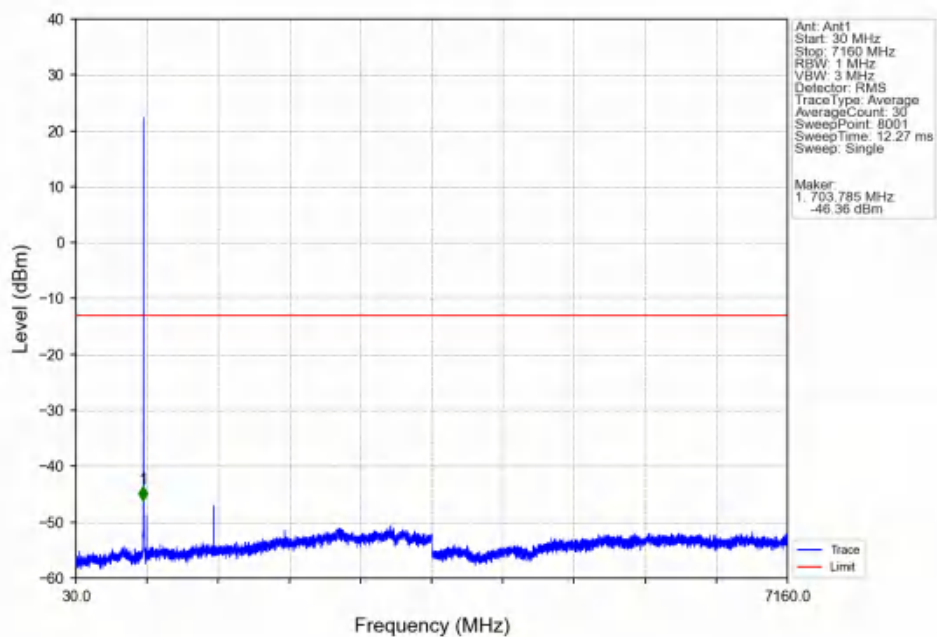
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



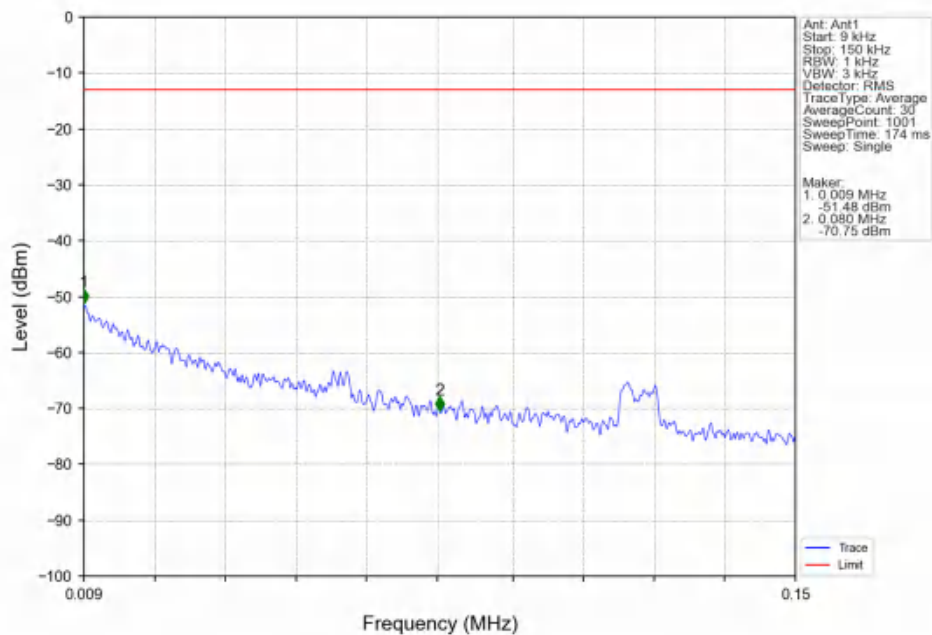
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



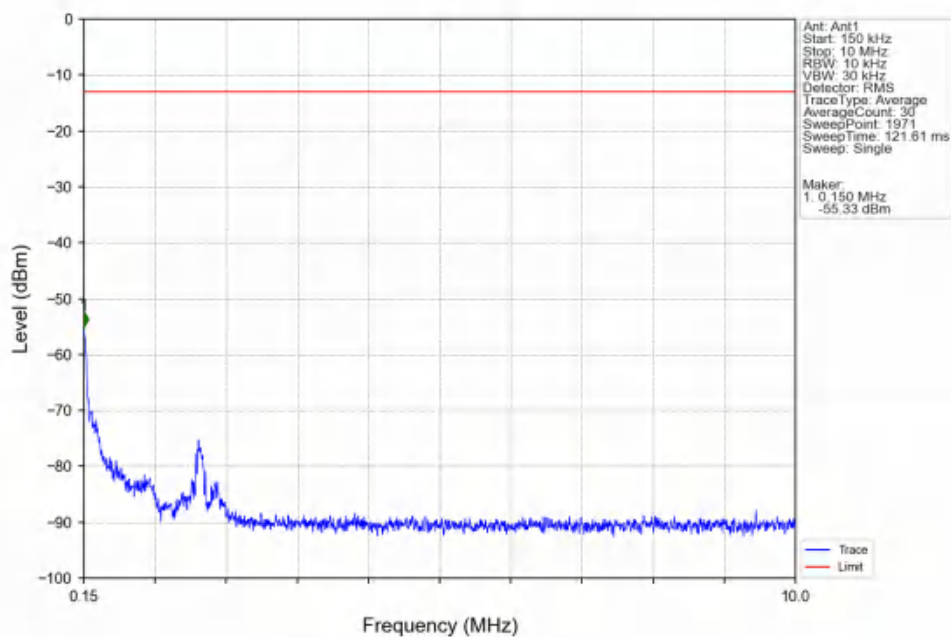
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



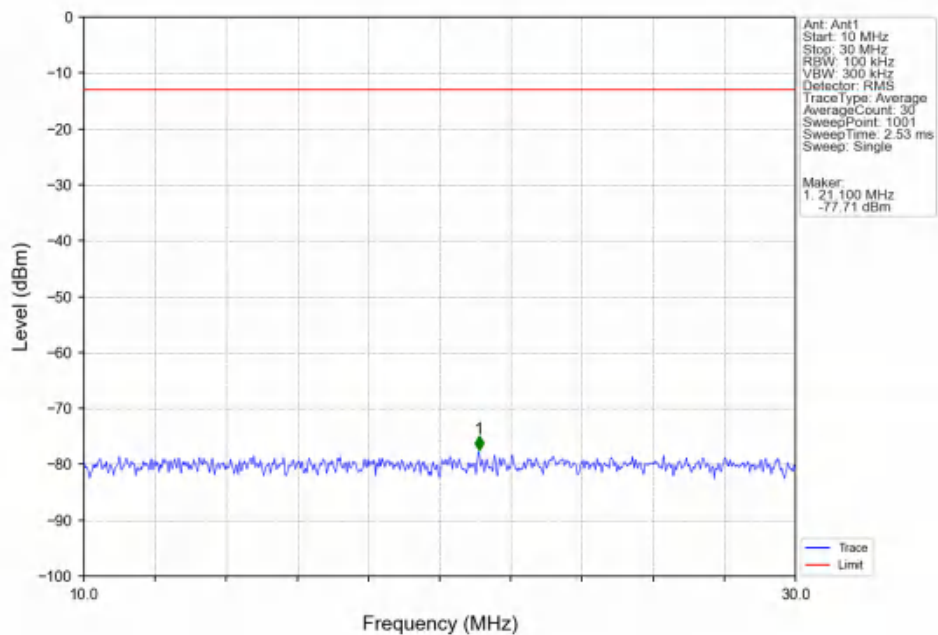
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV



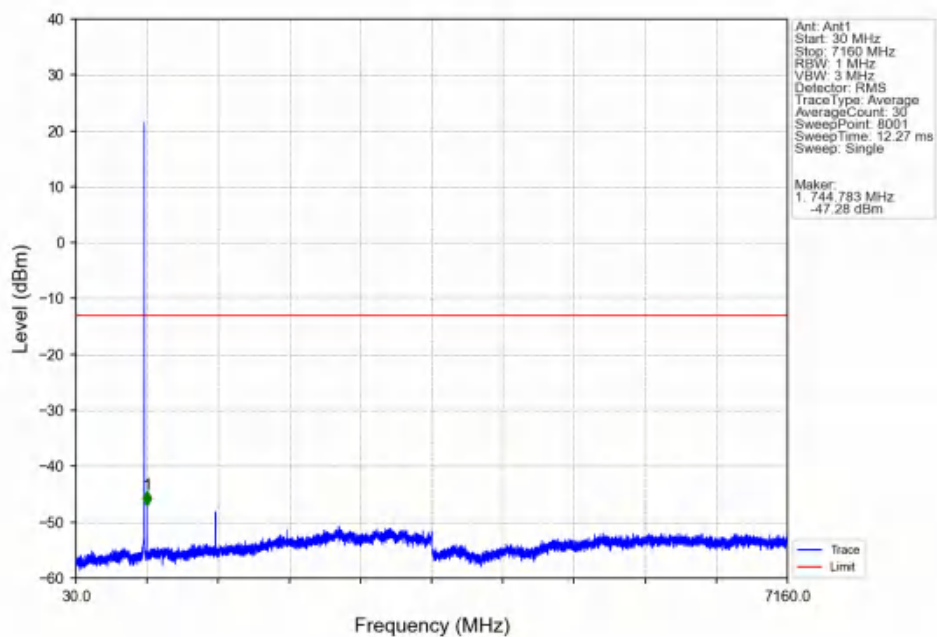
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV



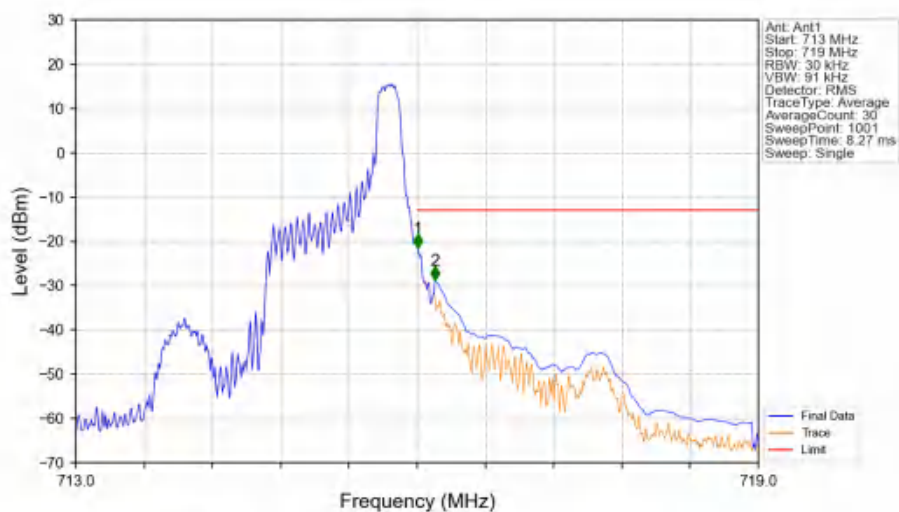
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV



Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV

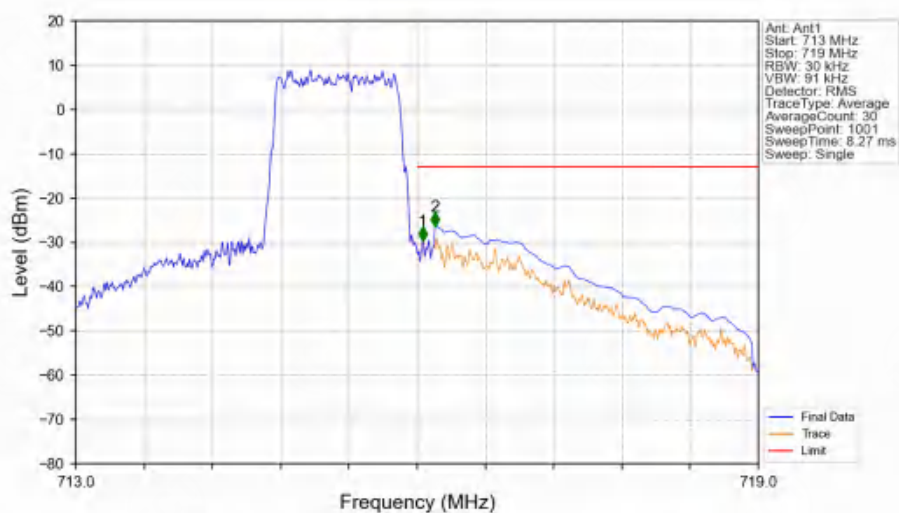


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTV



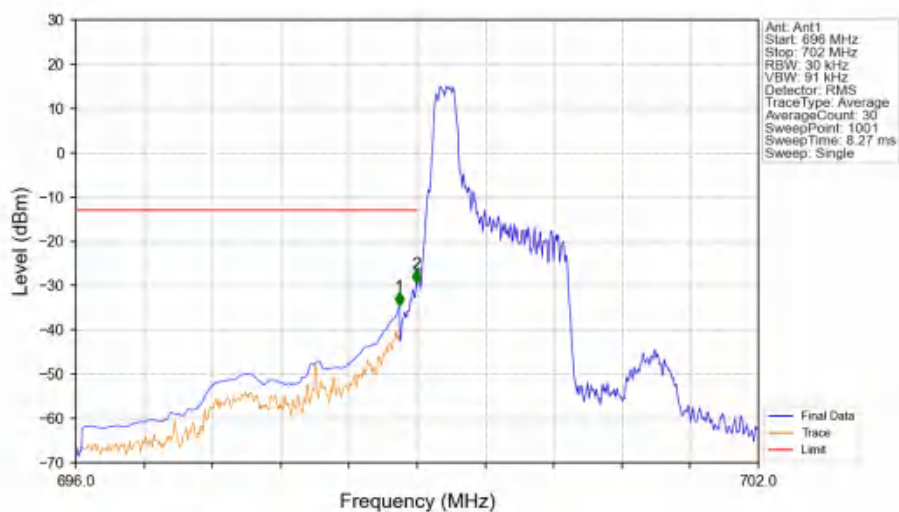
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -21.53      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -28.78      | -13         | Pass   |

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



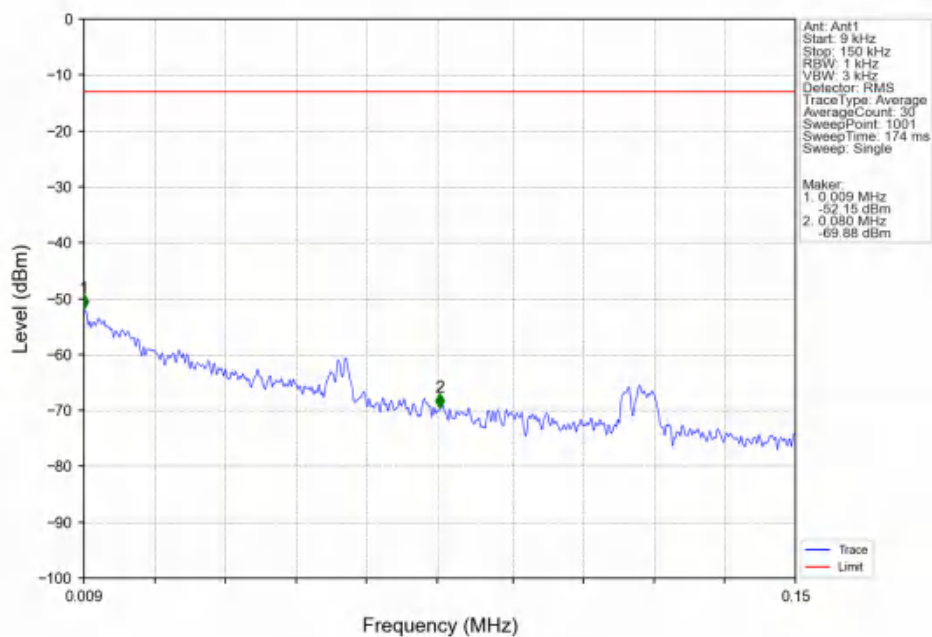
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.048    | -29.60      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -26.35      | -13         | Pass   |

Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV

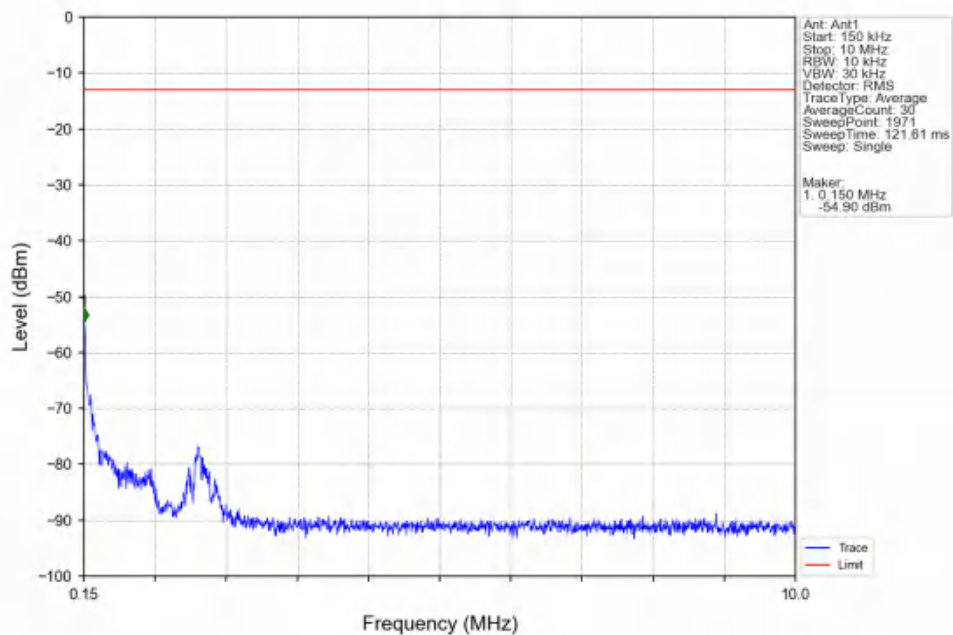


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -34.54      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -29.44      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

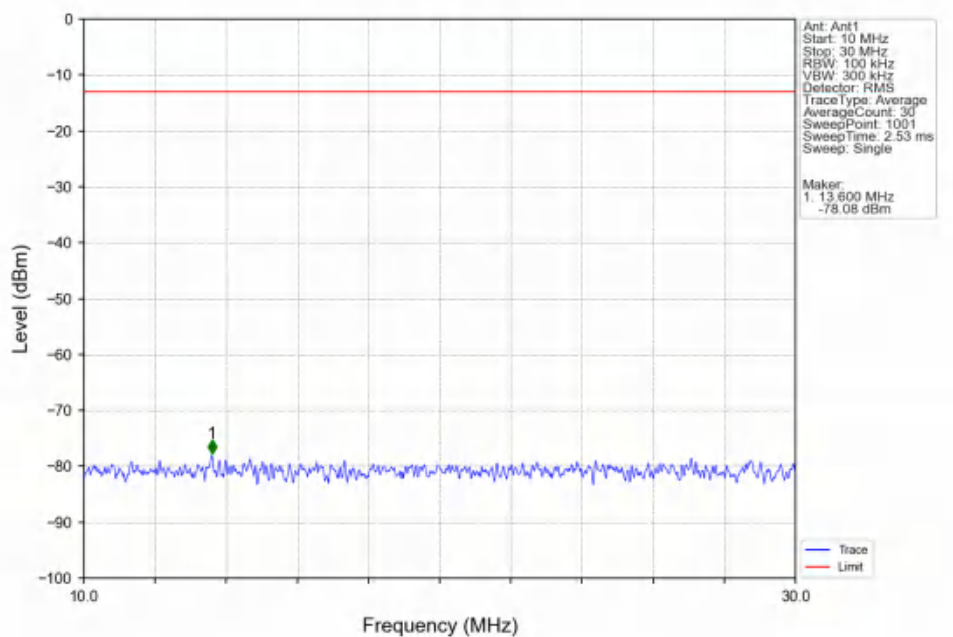
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



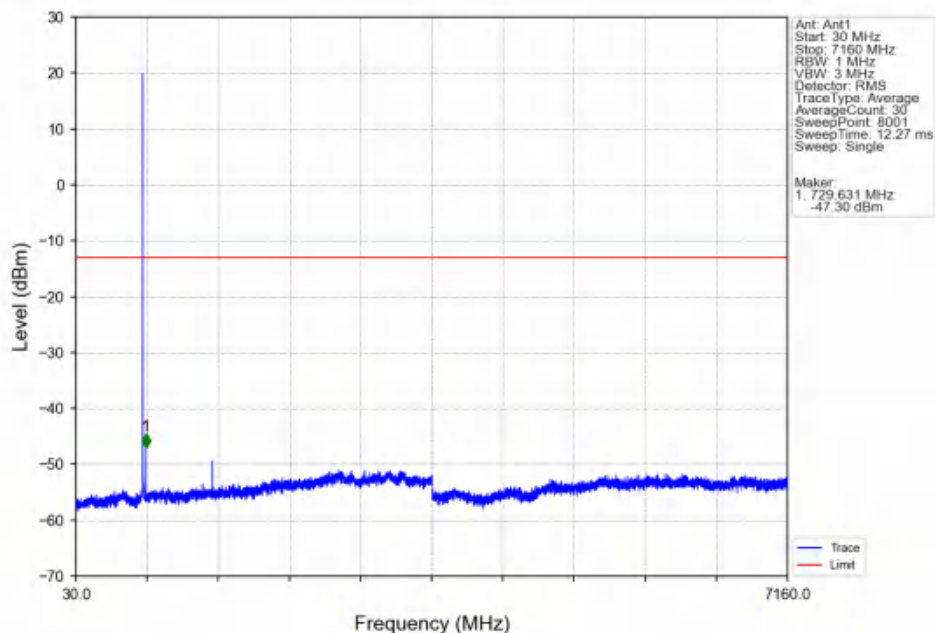
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



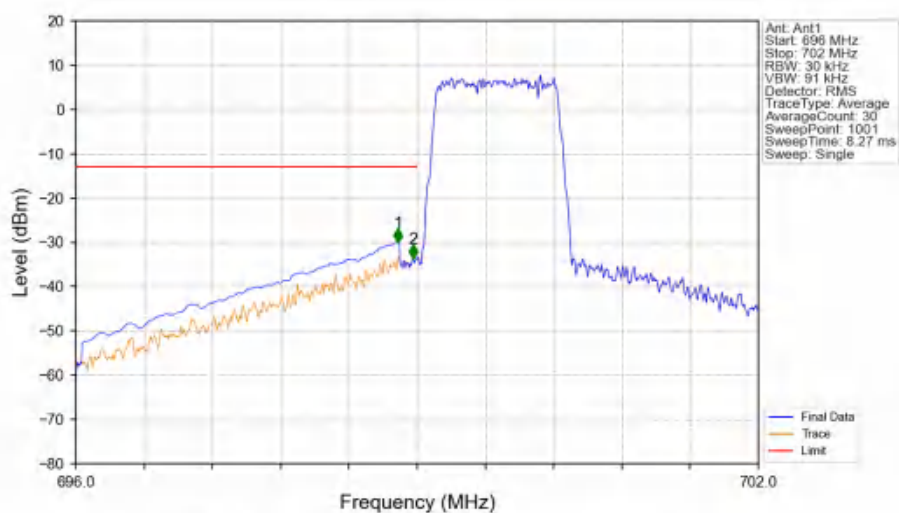
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV

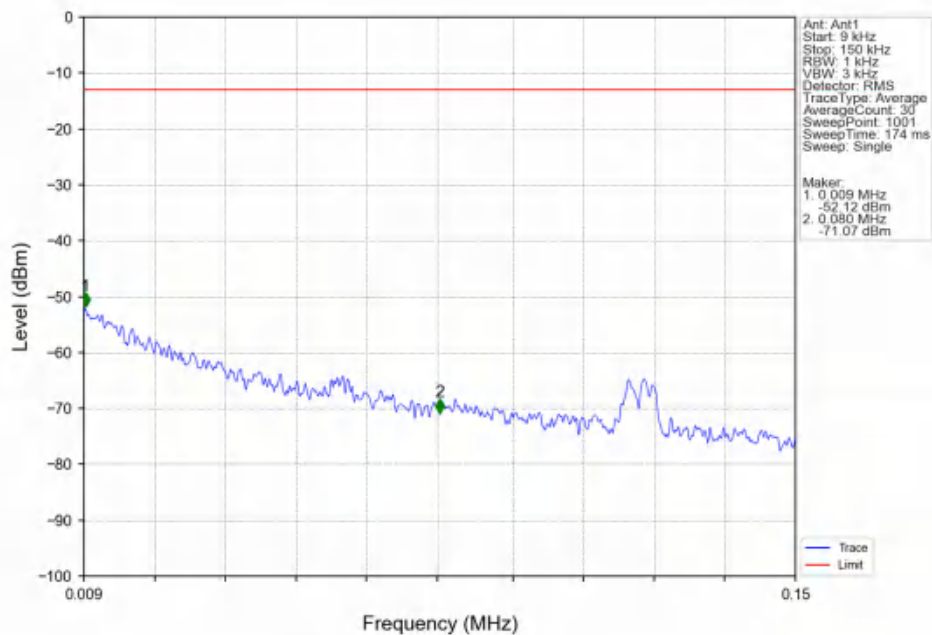


Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV

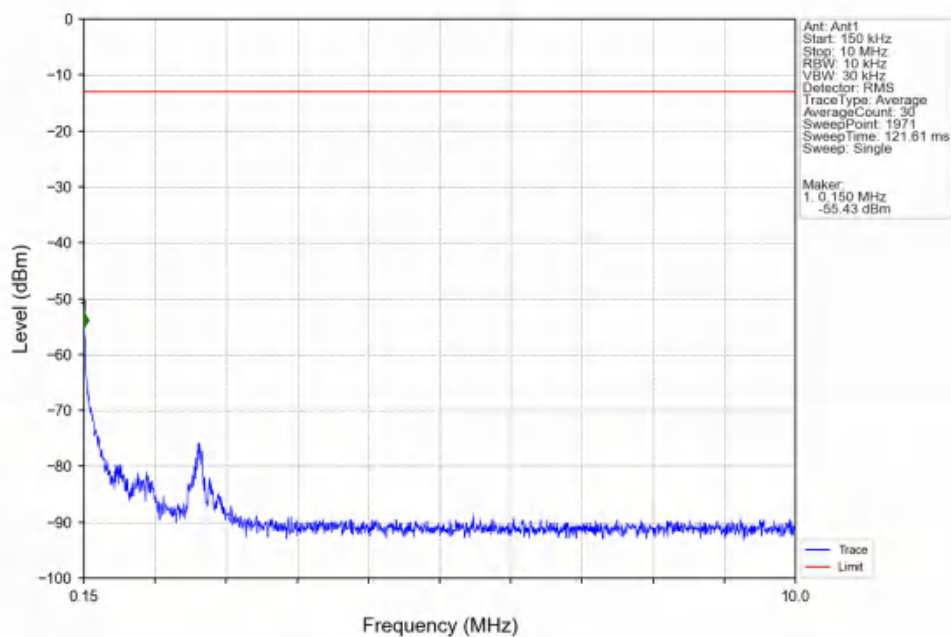


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.832    | -29.97      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.964    | -33.69      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

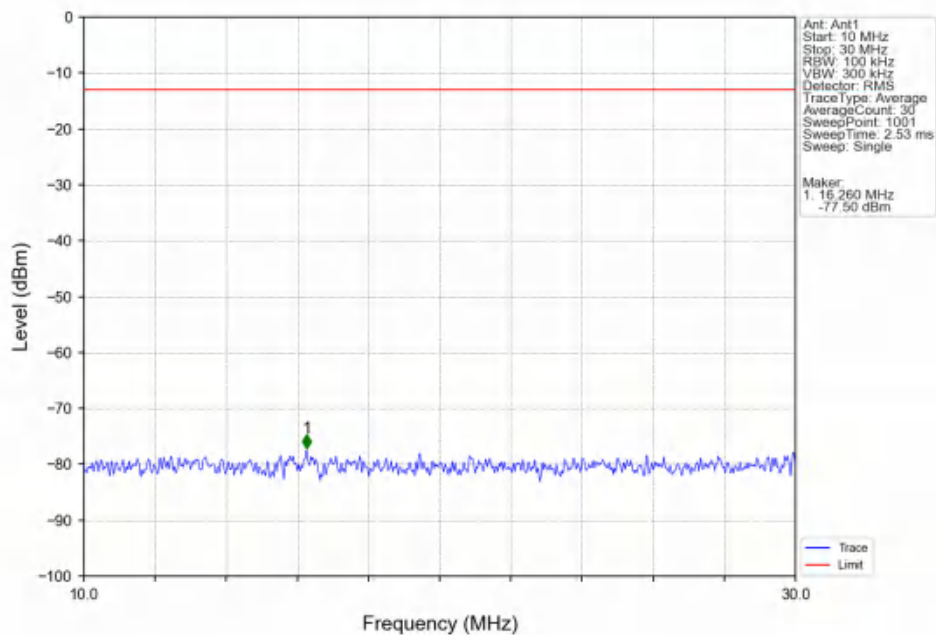
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



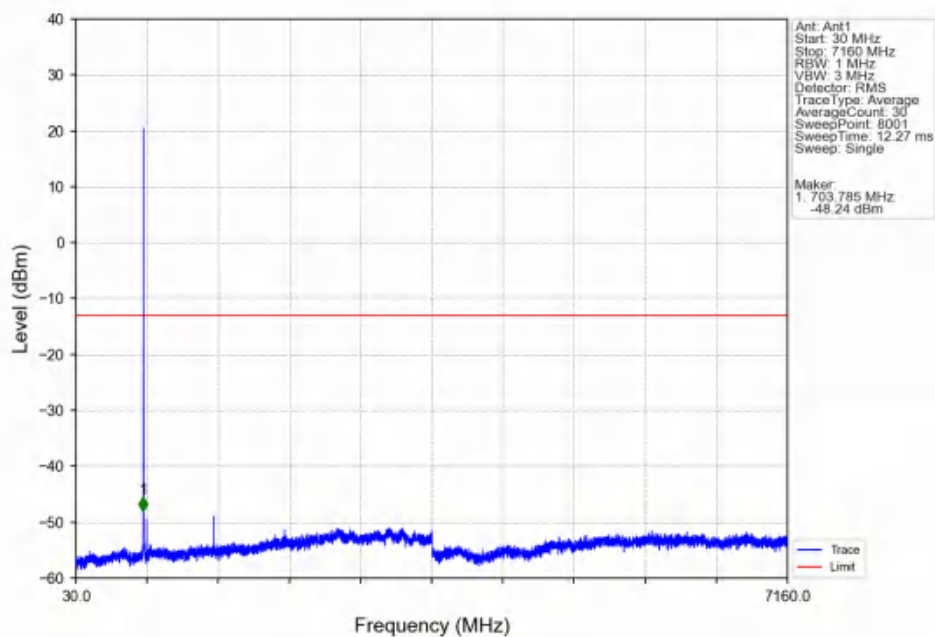
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



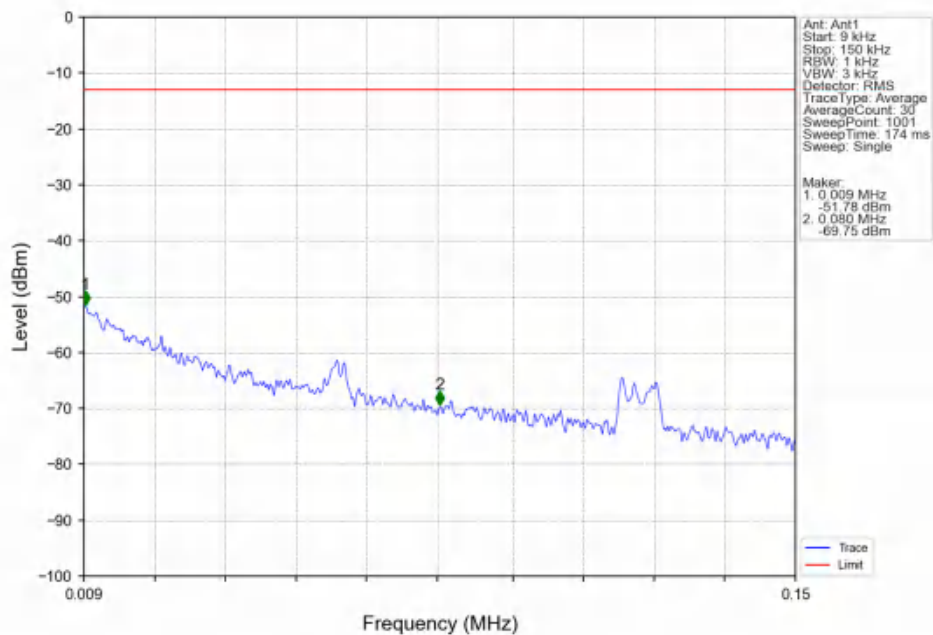
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



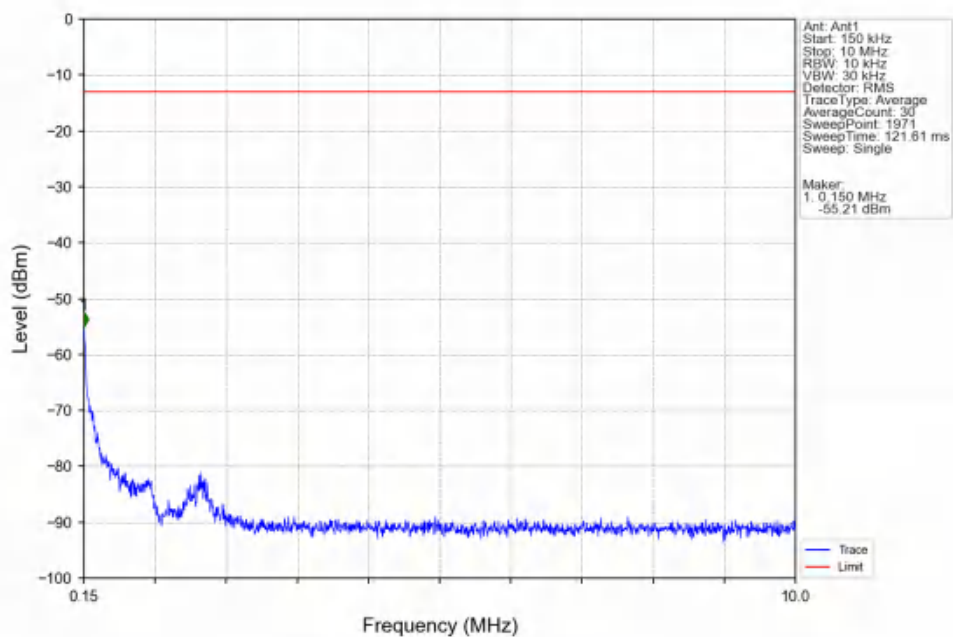
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



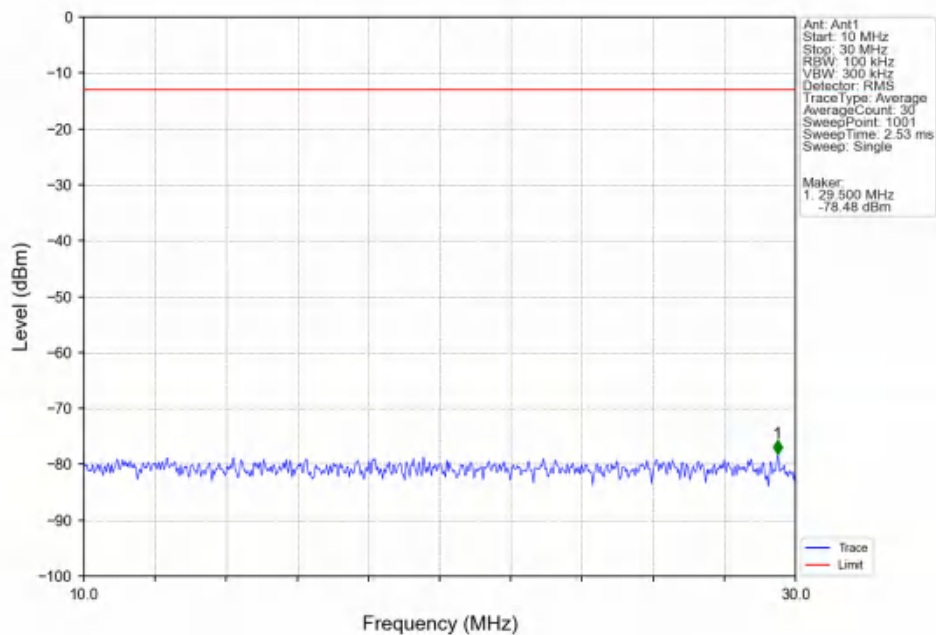
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV



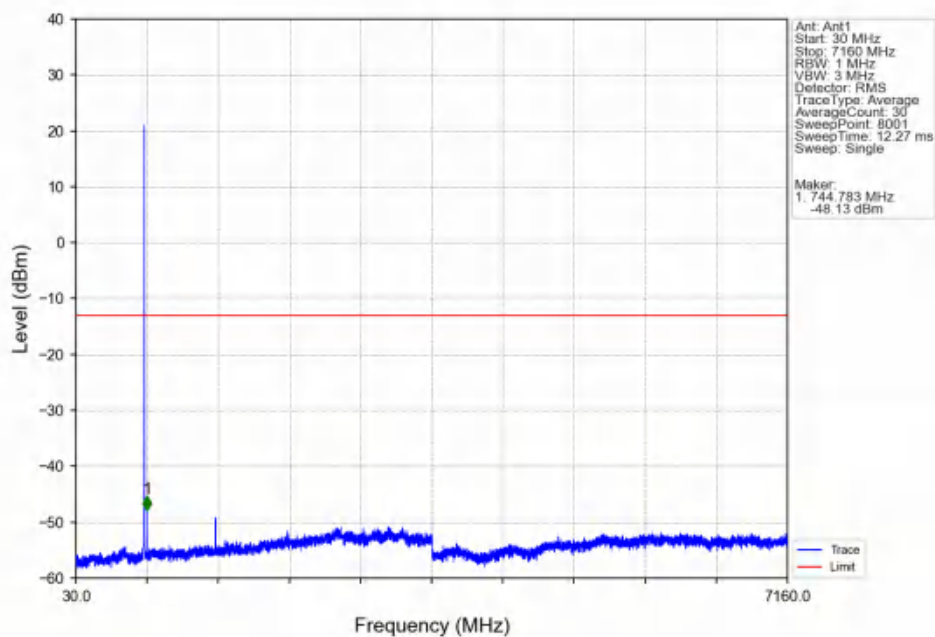
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV



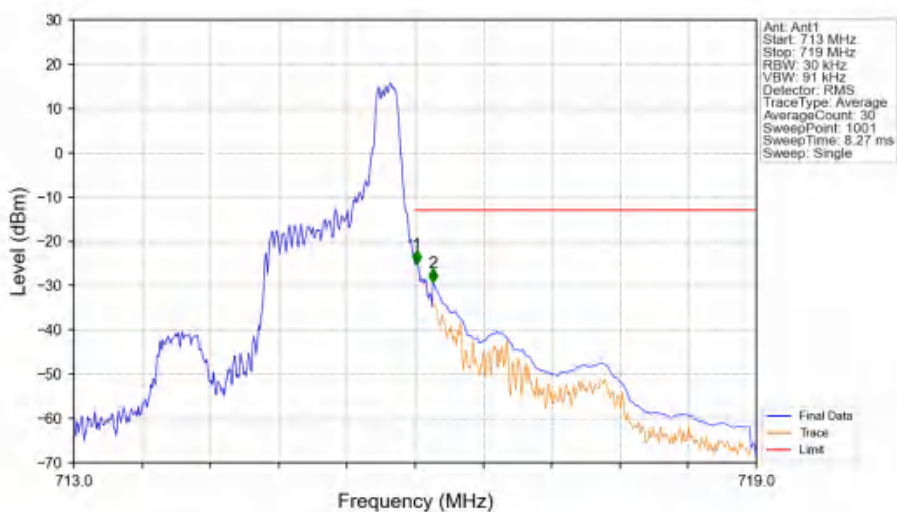
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV

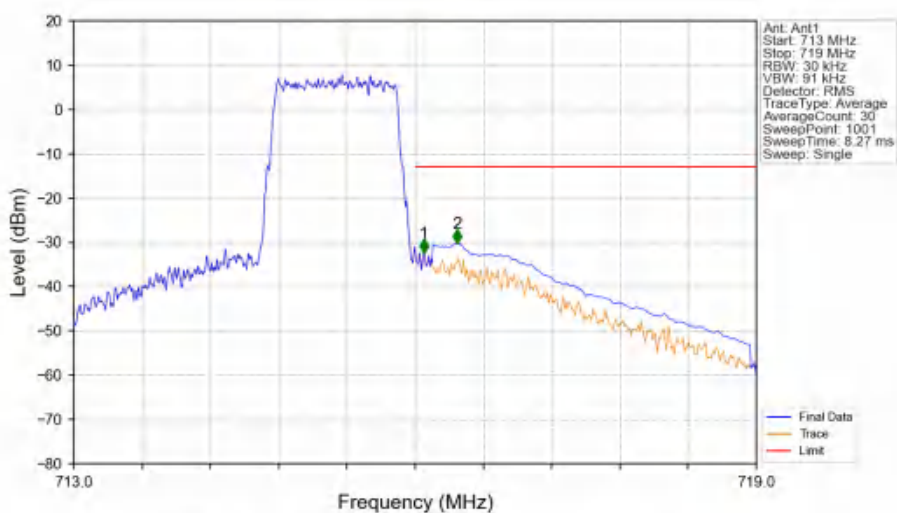


Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



| 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          | 716.012    | -25.09      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -29.27      | -13         | Pass   |

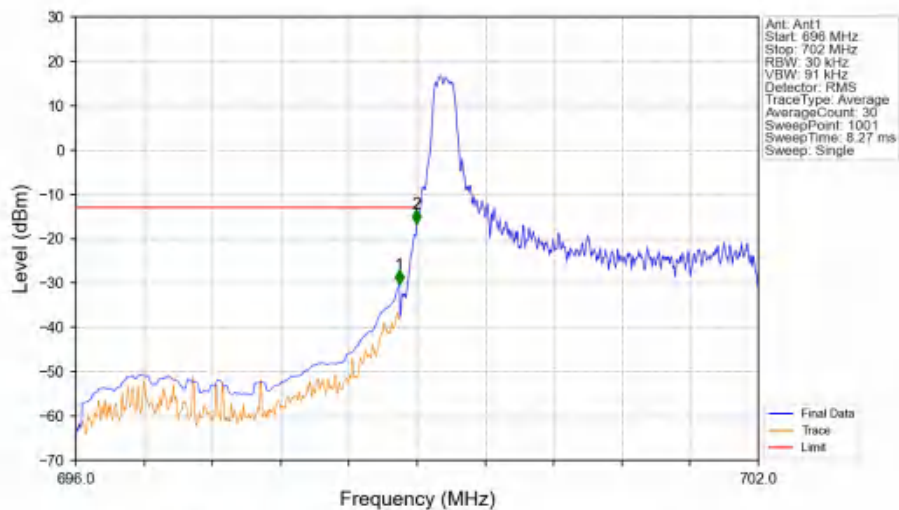
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



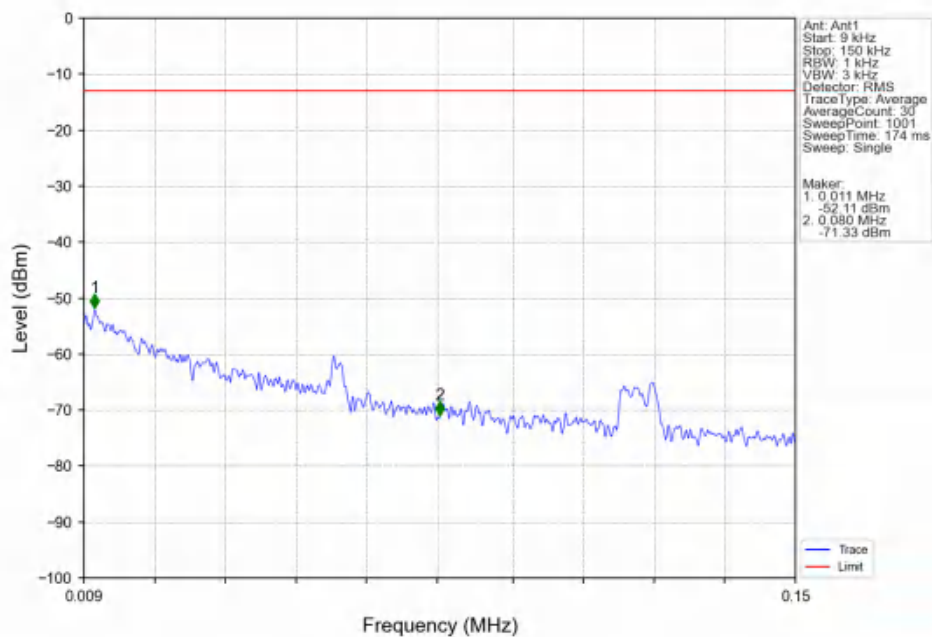
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.078    | -32.39      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.372    | -30.28      | -13         | Pass   |

## 6.2.2 B12\_3MHz

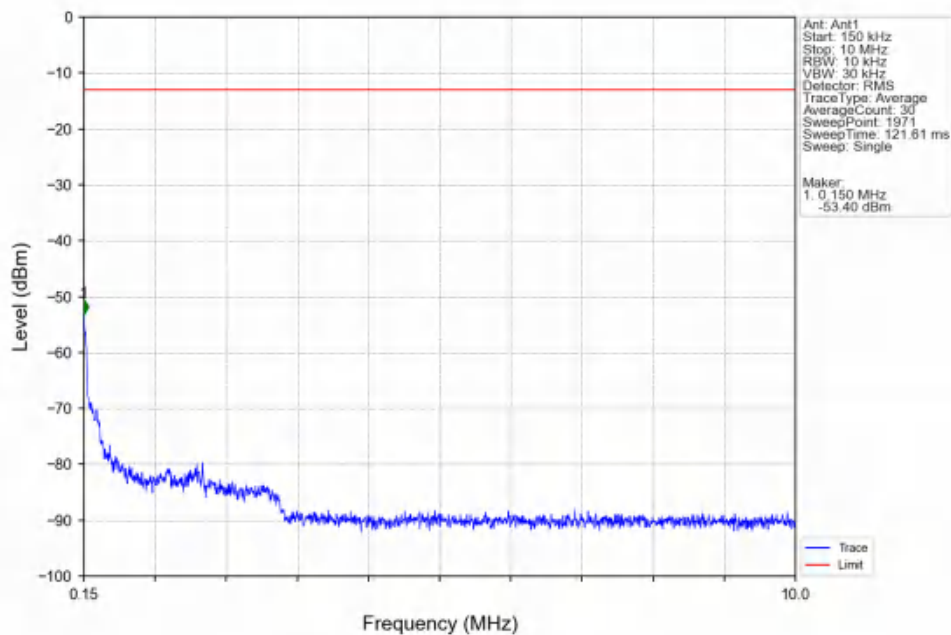
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



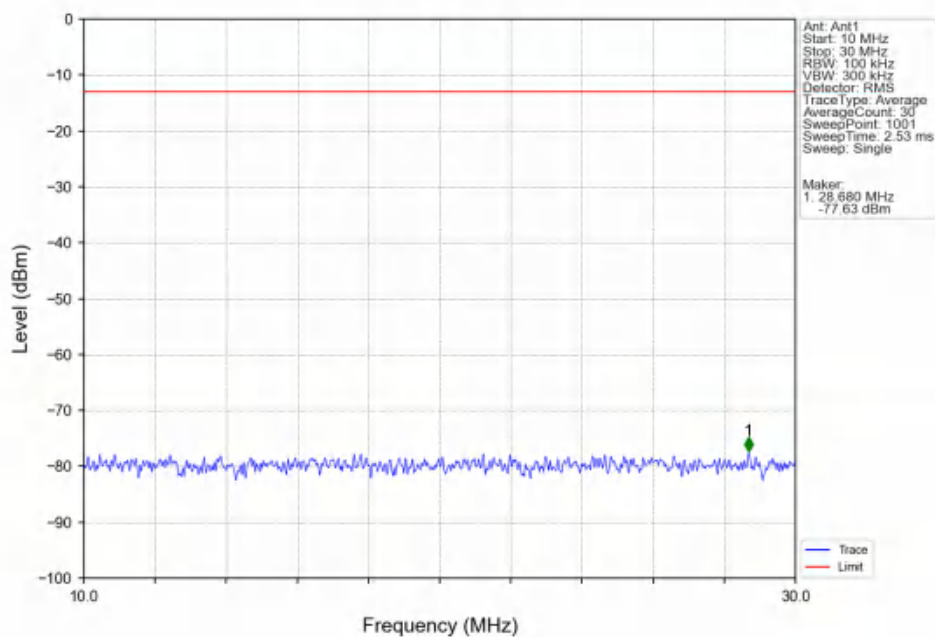
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



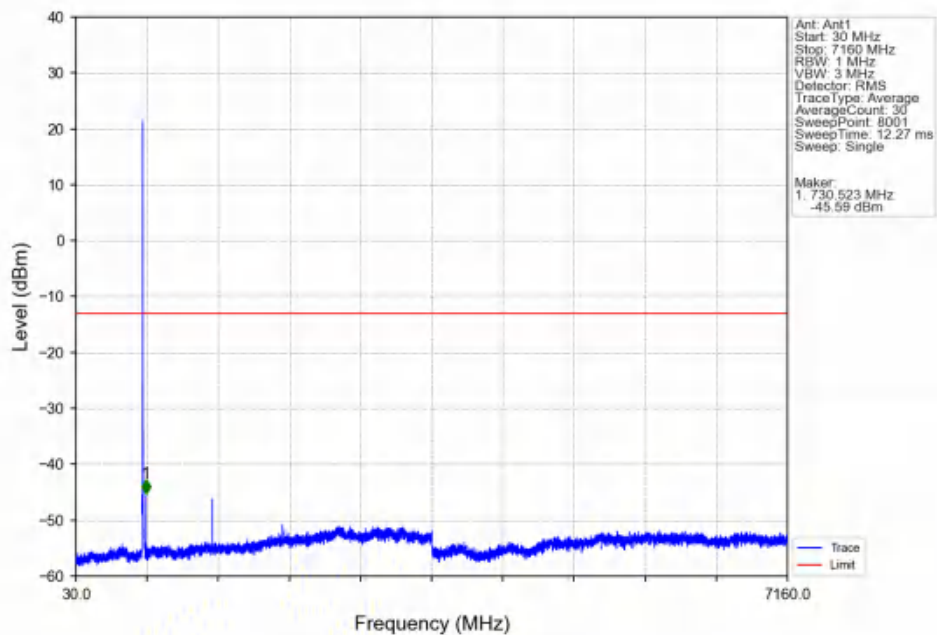
Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTN



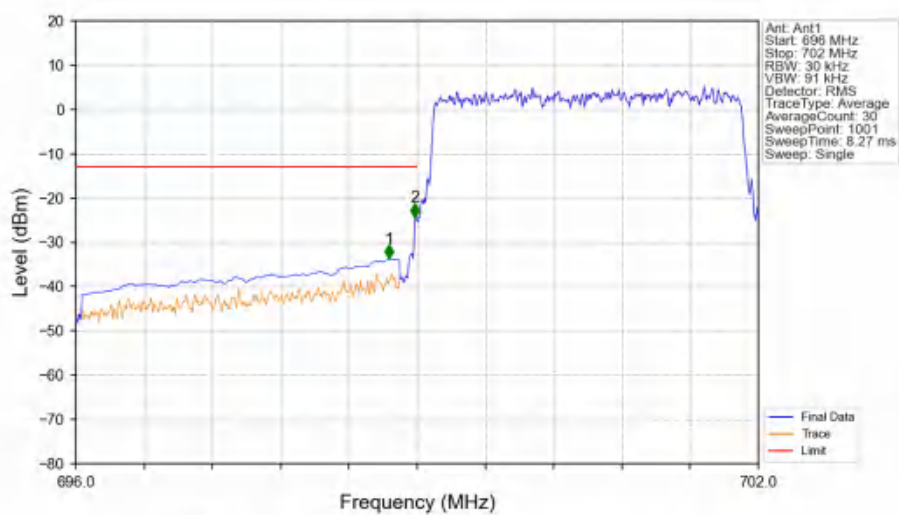
Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTN



Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTNV

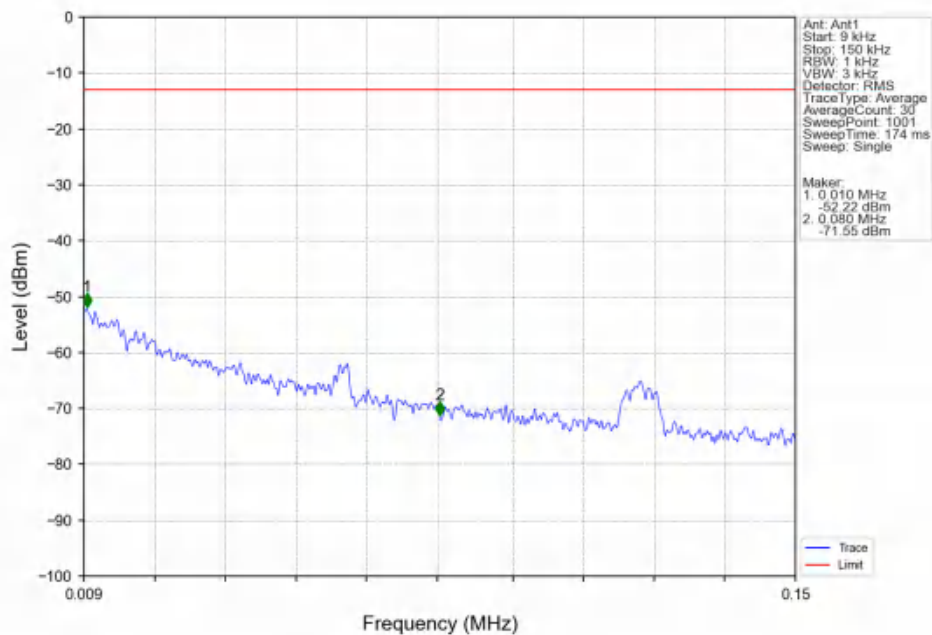


Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV

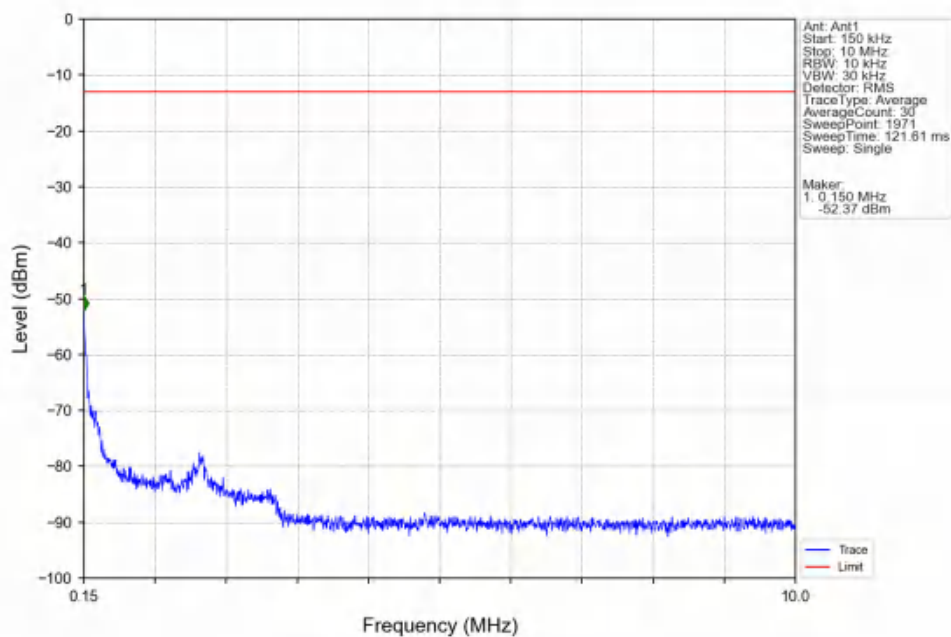


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.754    | -33.76      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.982    | -24.30      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

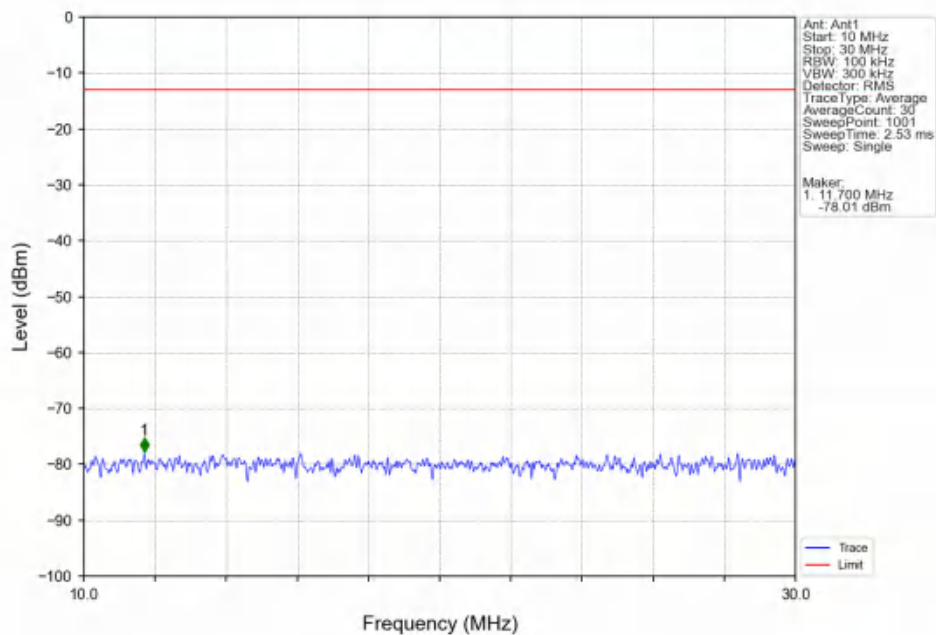
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



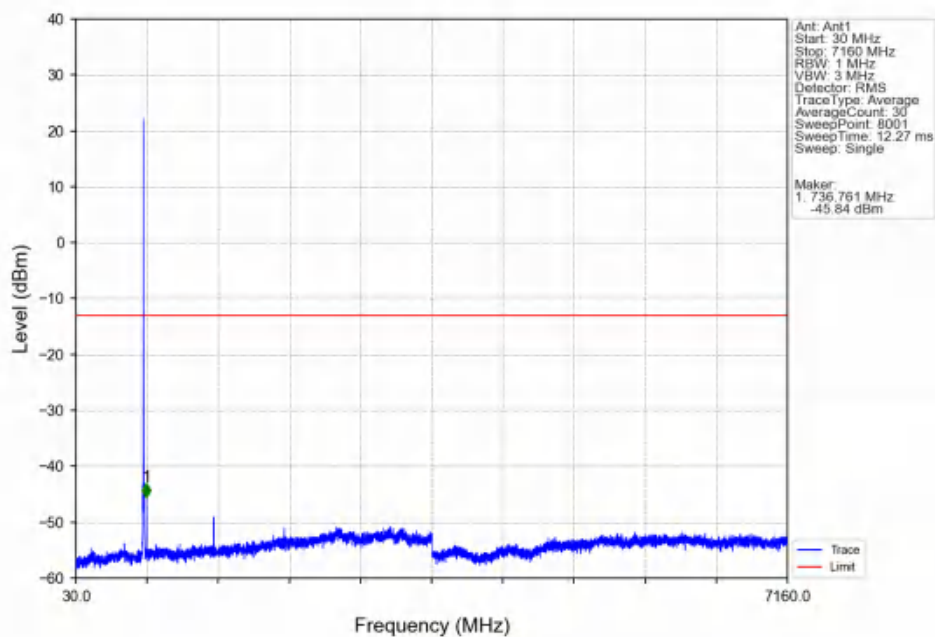
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



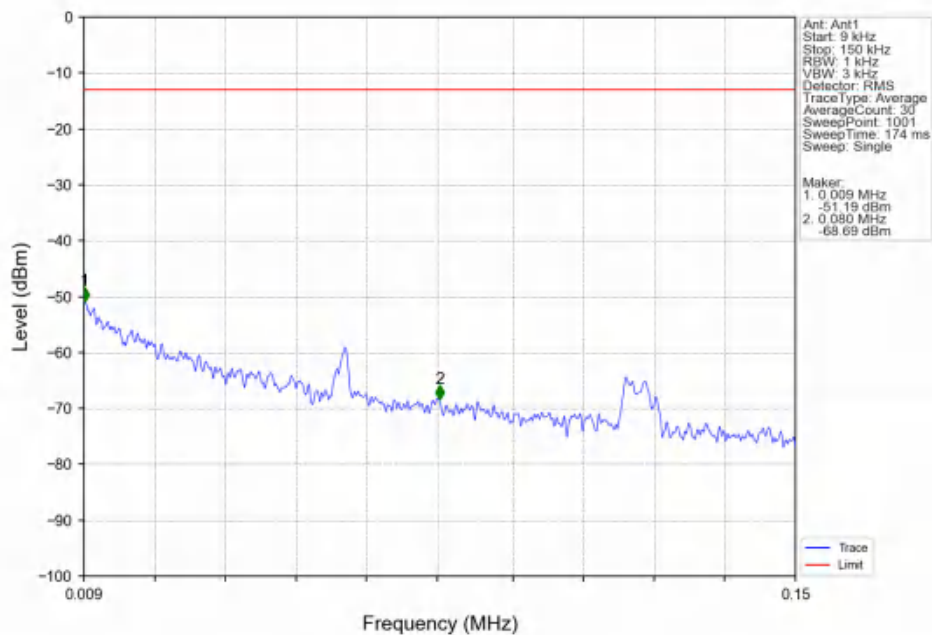
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



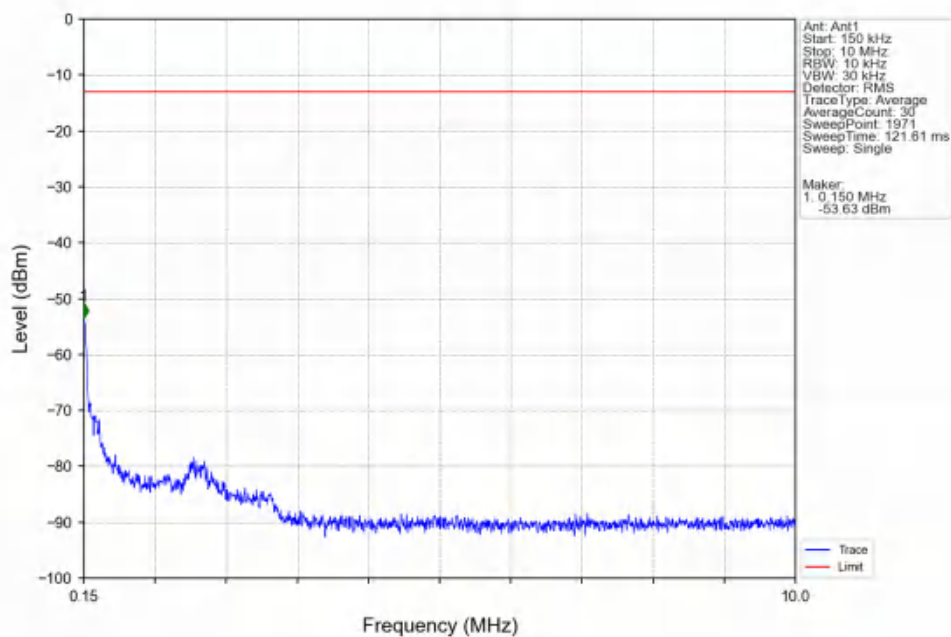
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



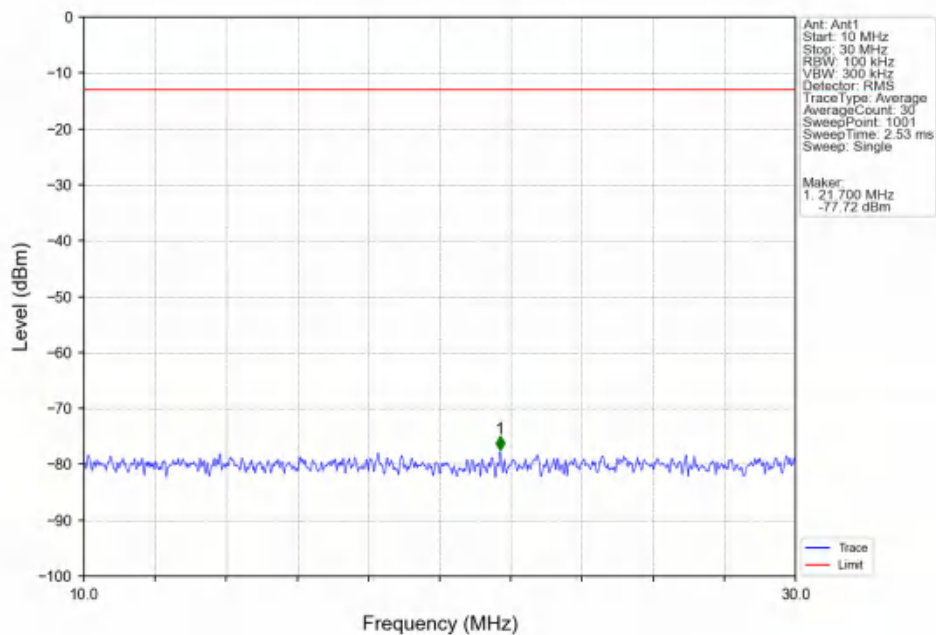
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



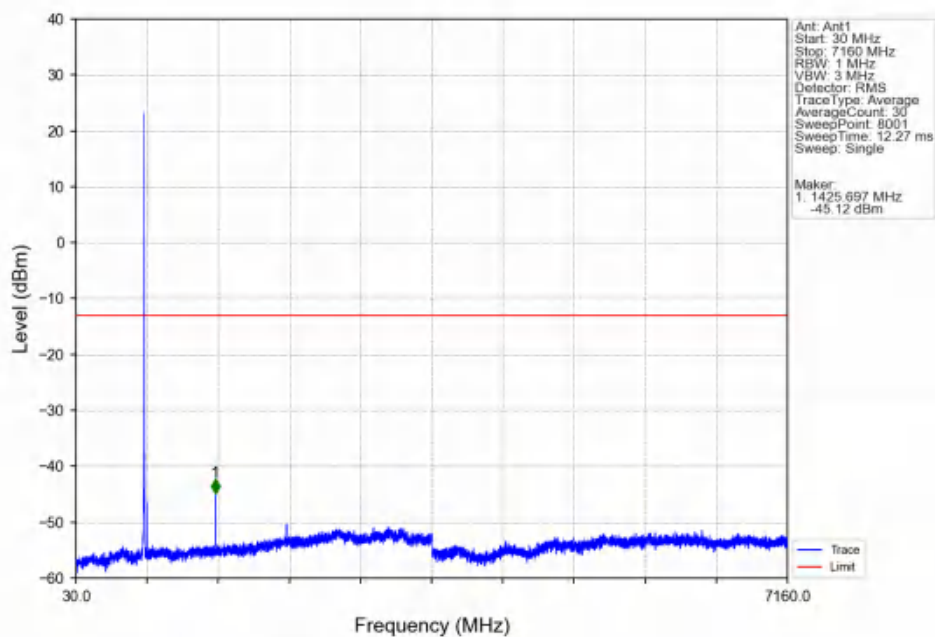
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



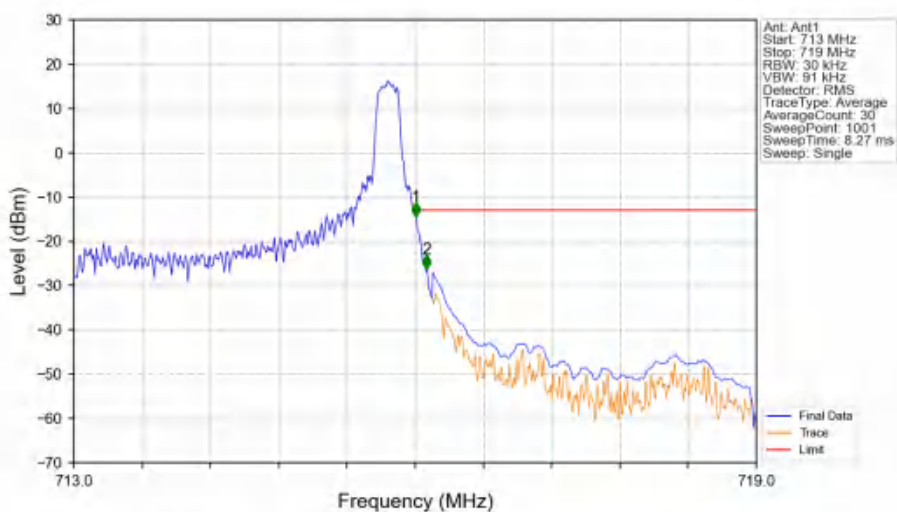
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



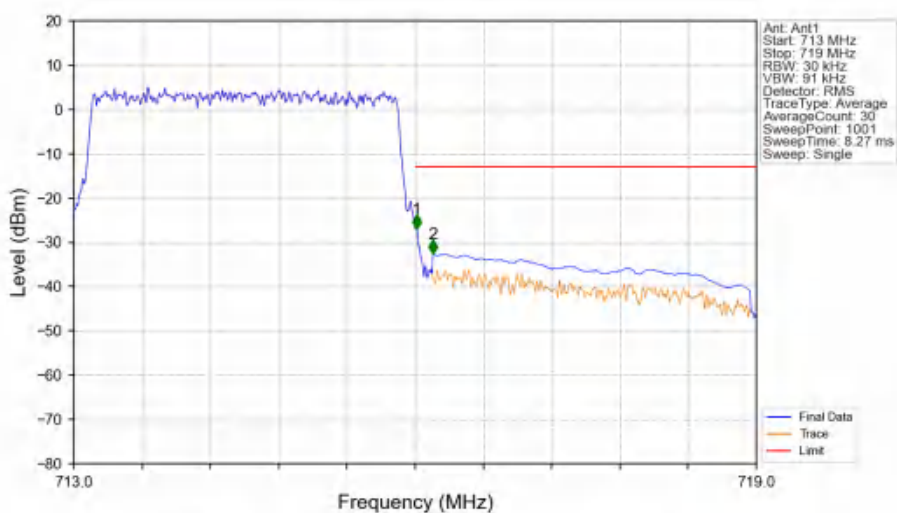
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



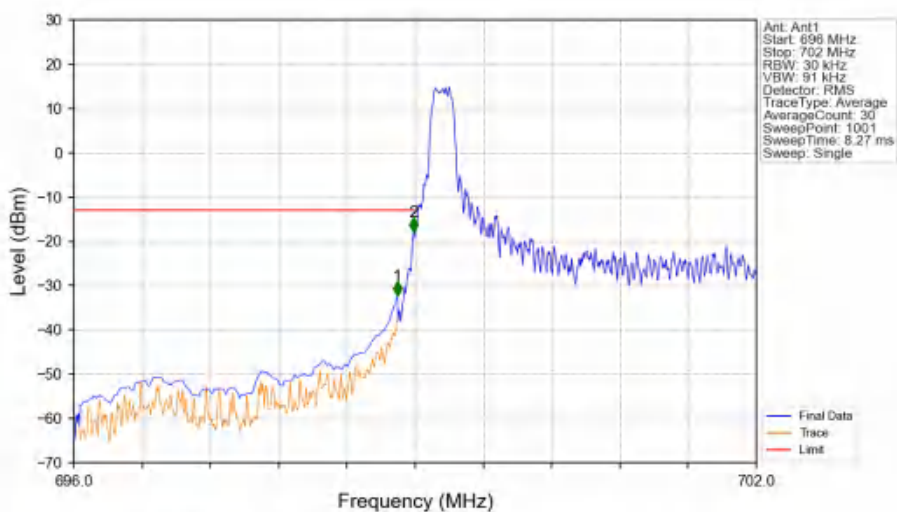
## Band12 3MHz QPSK HCH 714.5MHz RB 1 14 NTV



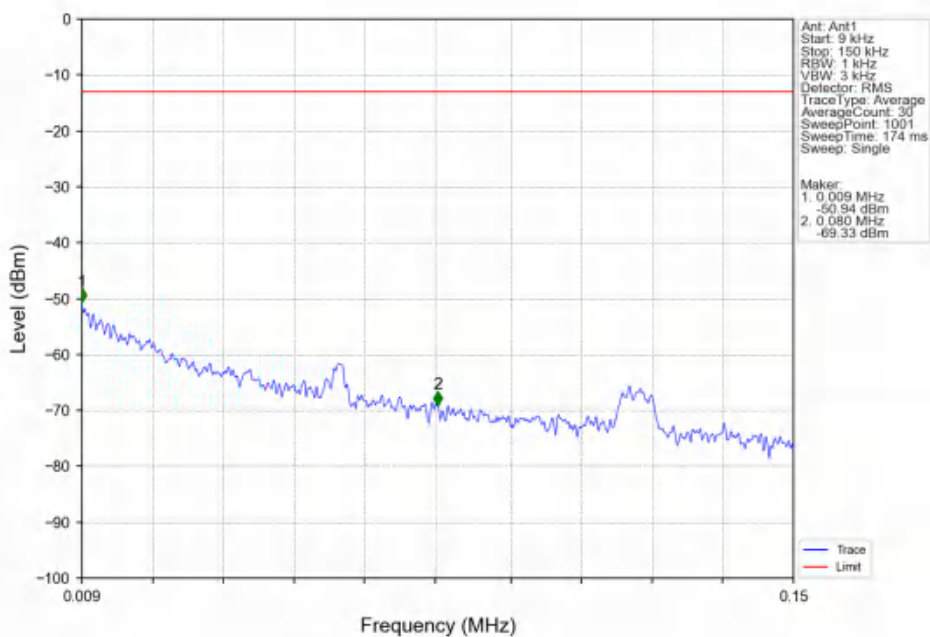
## Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTV



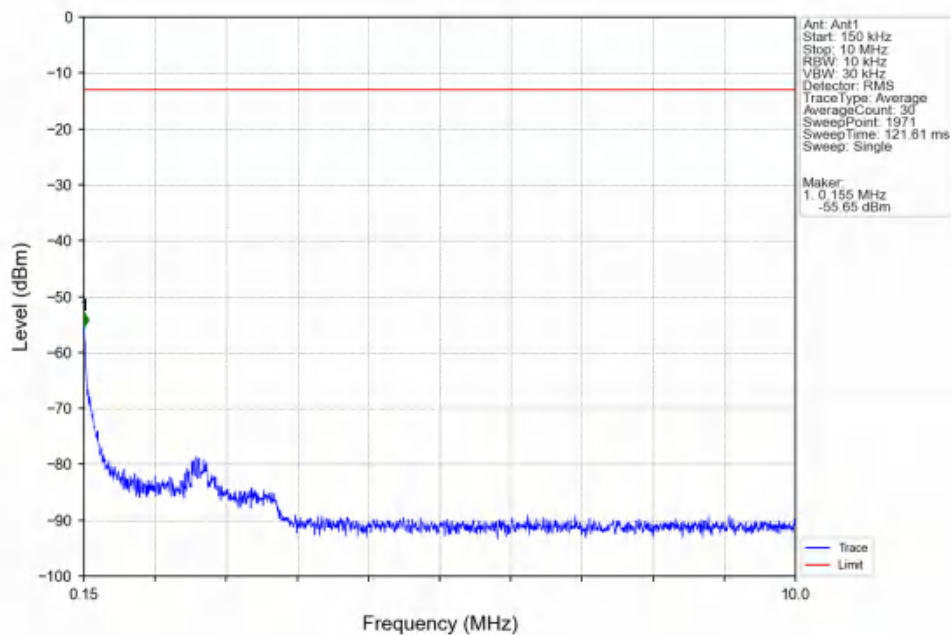
Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTNV



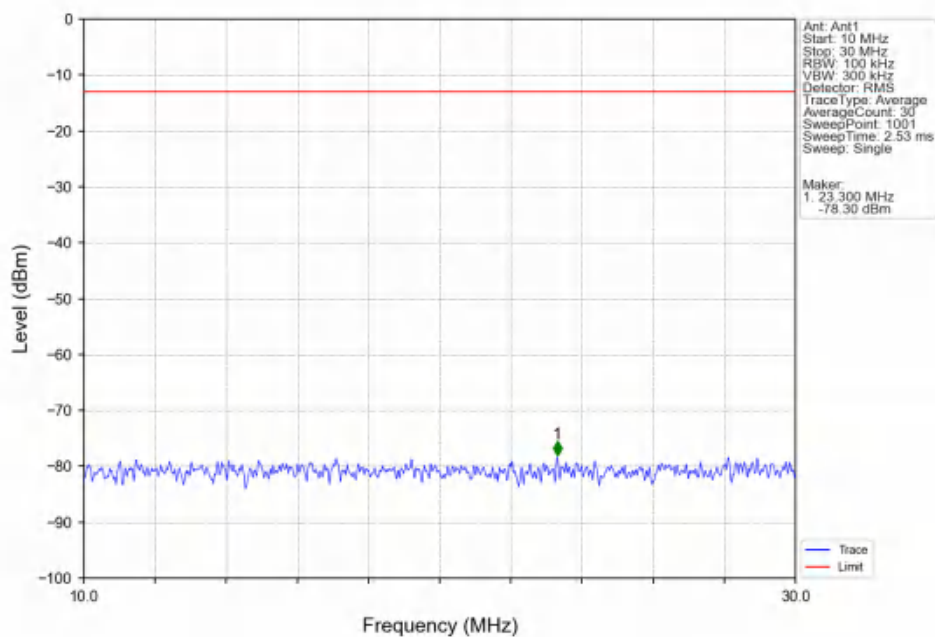
Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTNV



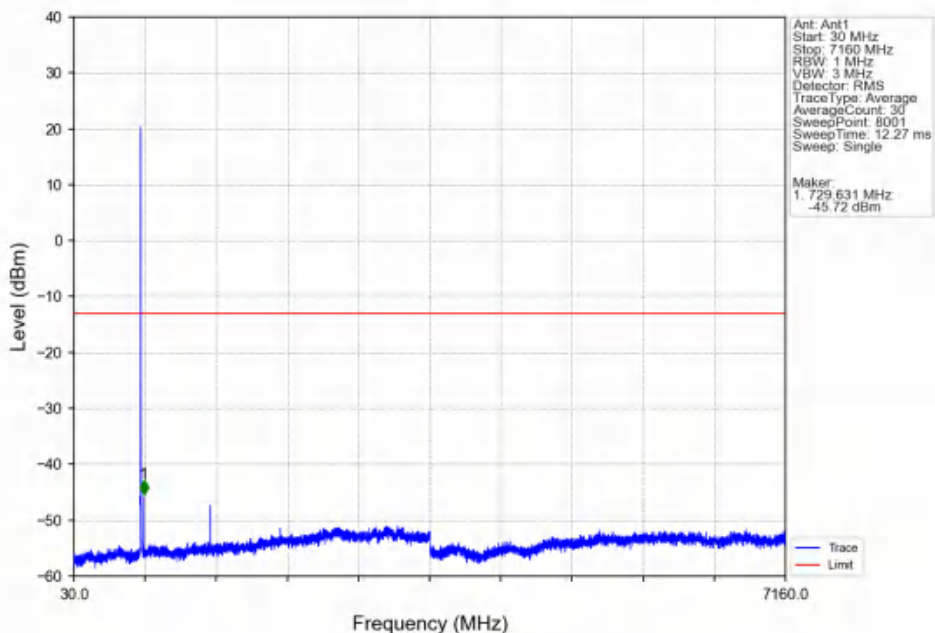
Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTNV



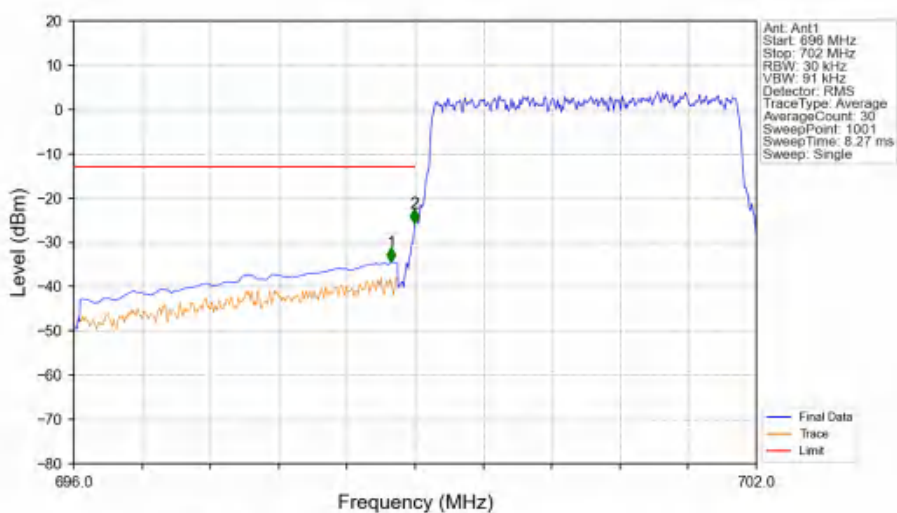
Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTNV



Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTV

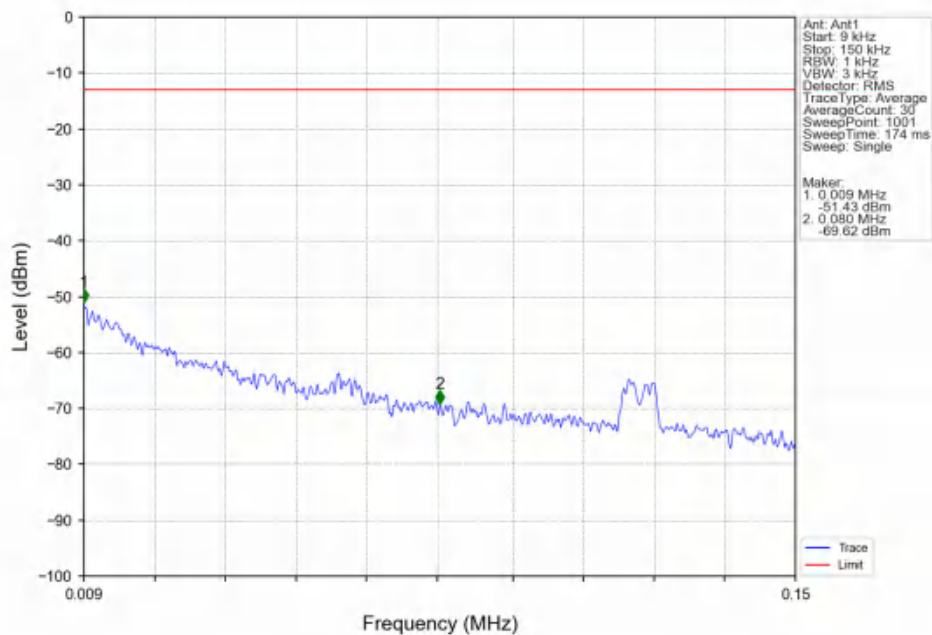


Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTV

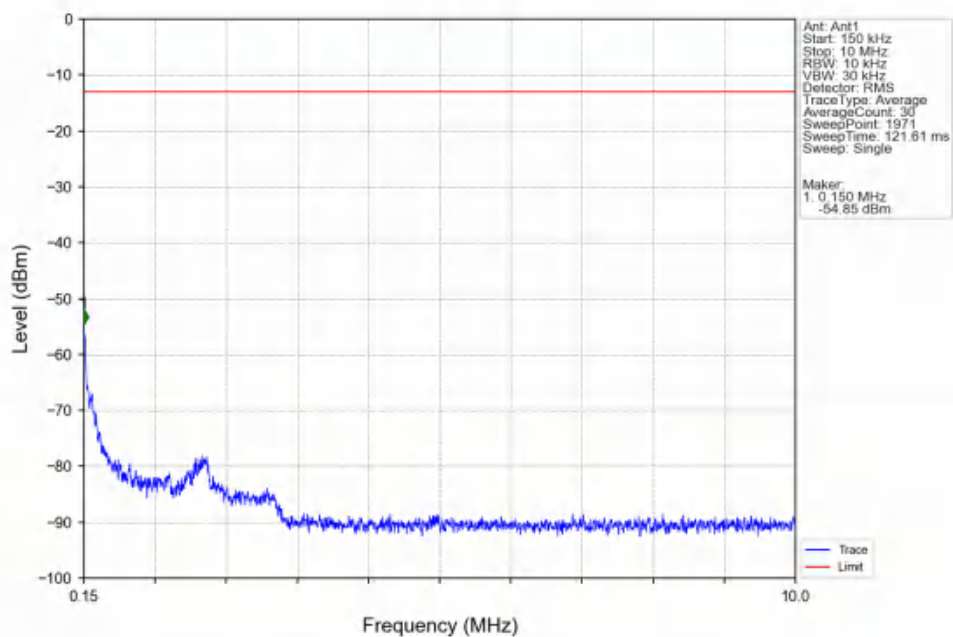


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.790    | -34.46      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -25.59      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

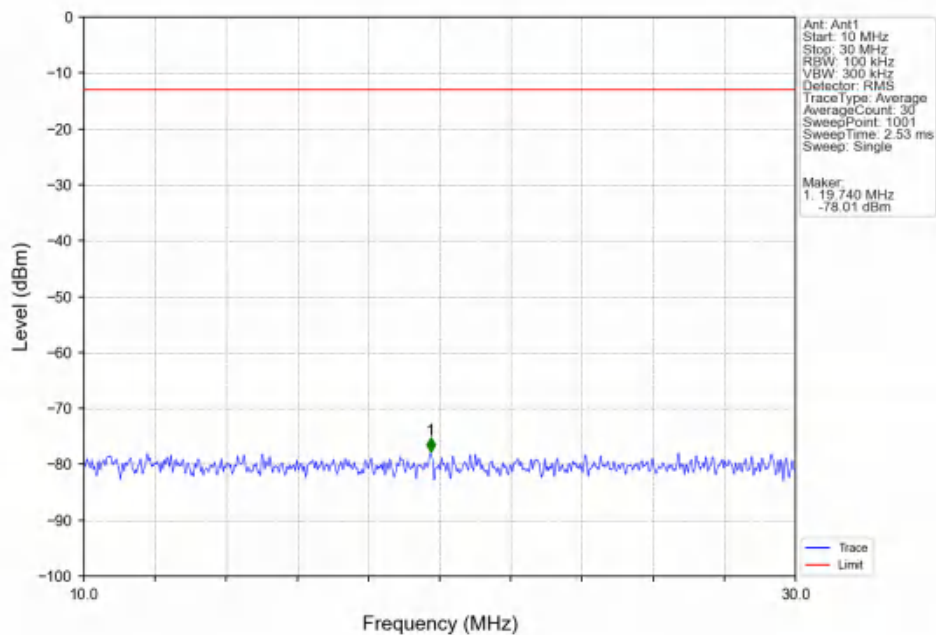
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTV



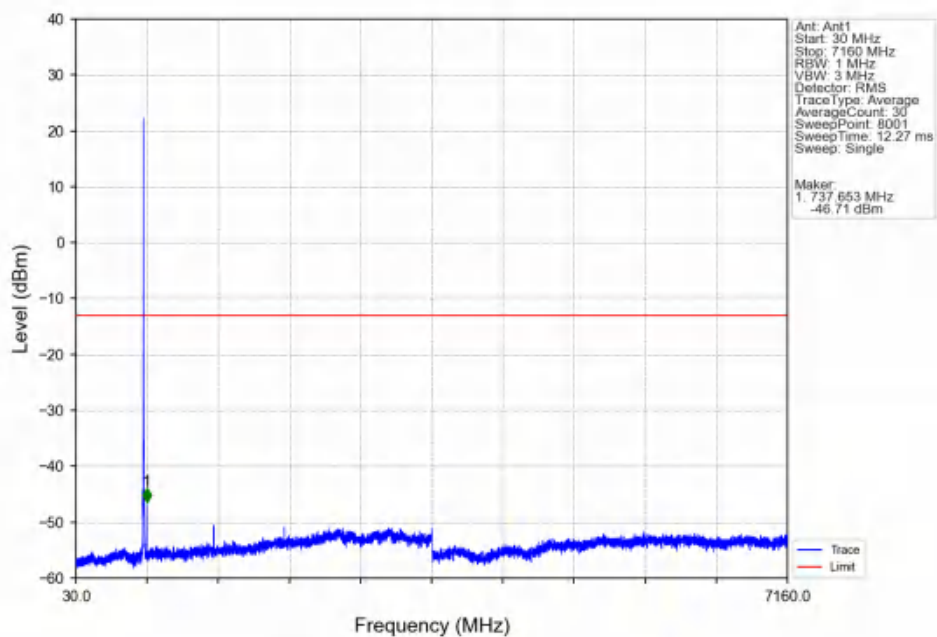
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTV



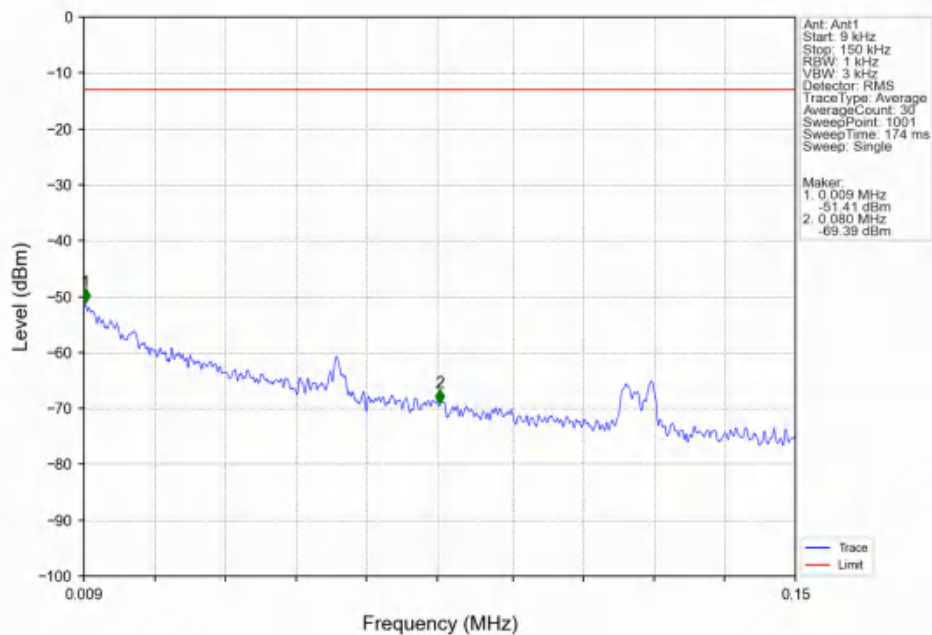
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTV



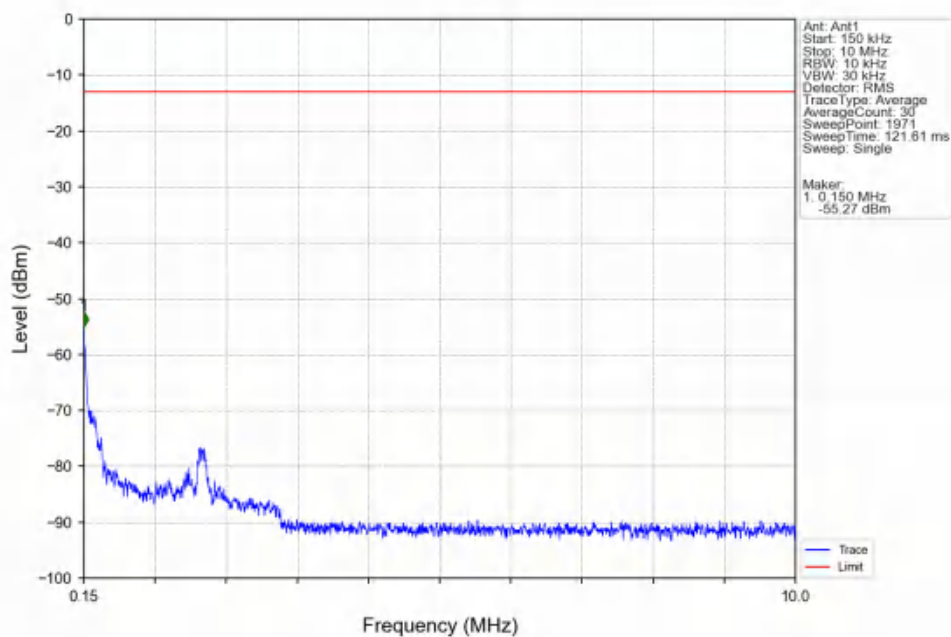
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTV



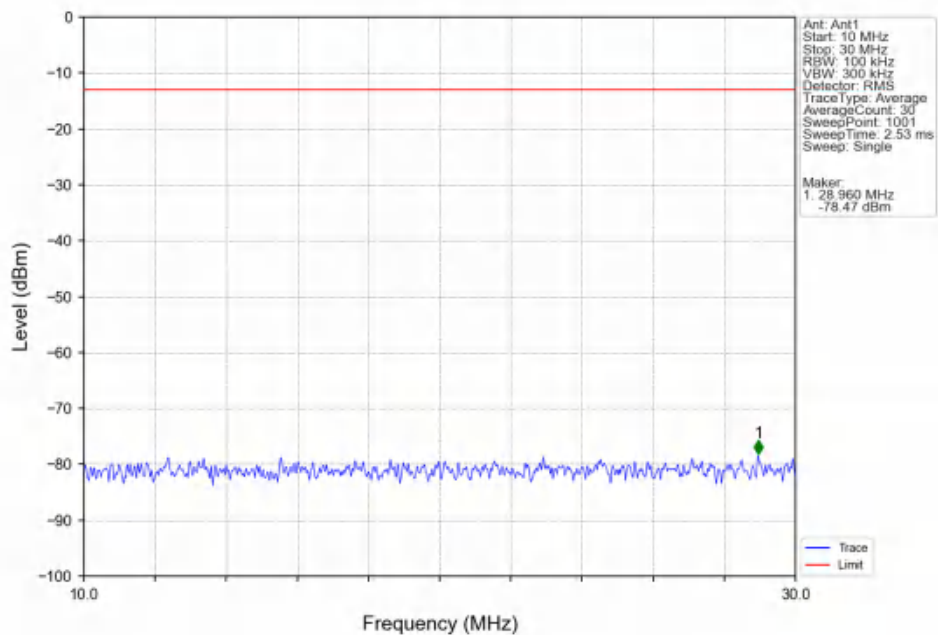
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTV



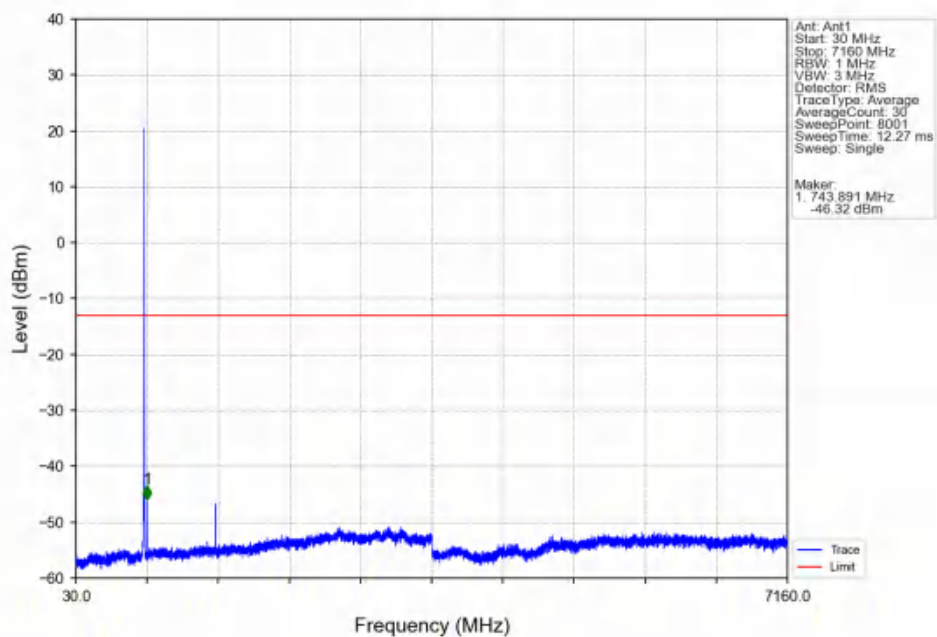
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTV



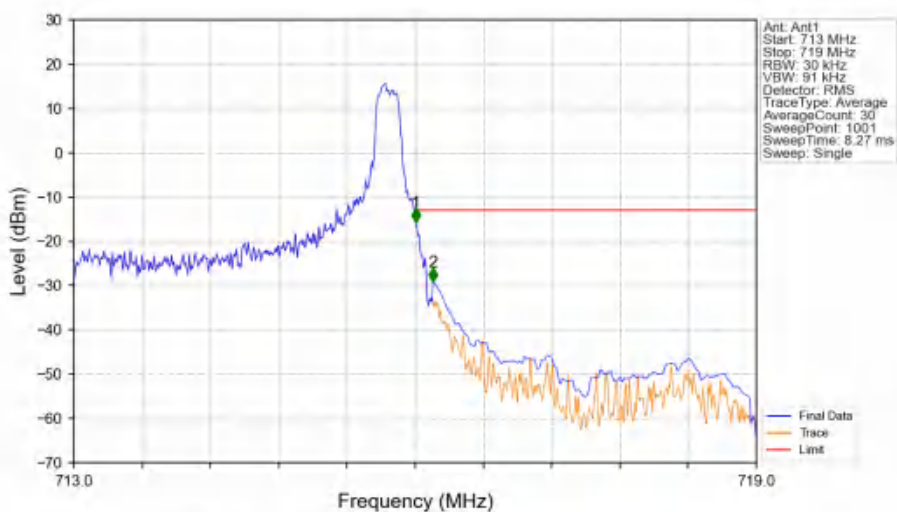
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTV



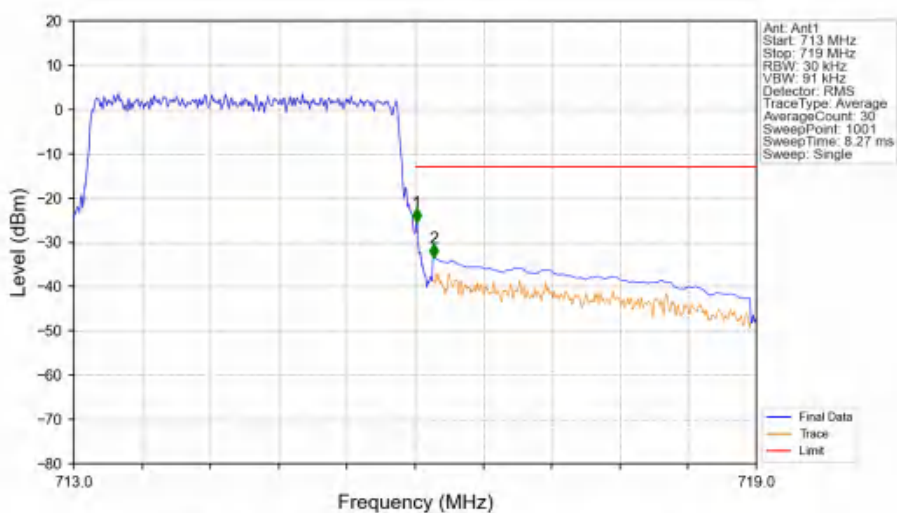
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTV



## Band12 3MHz 16QAM HCH 714.5MHz RB 1 14 NTV

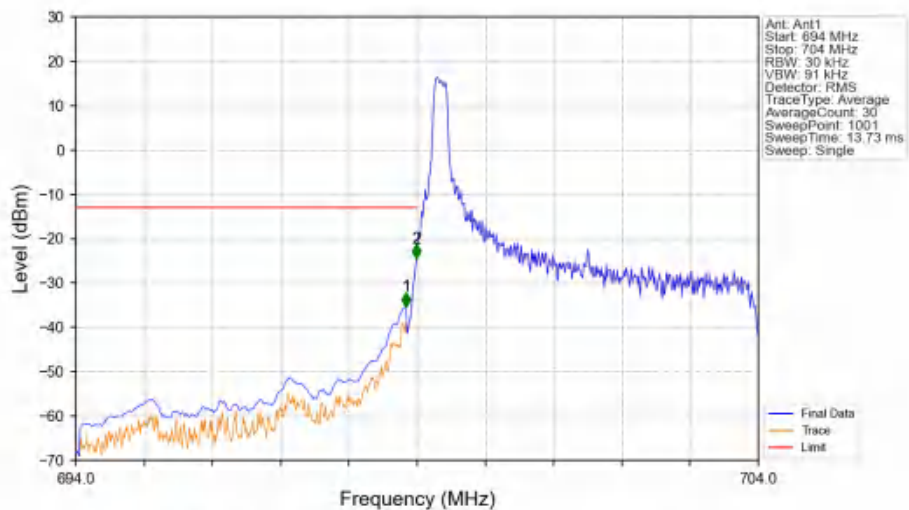


## Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTV

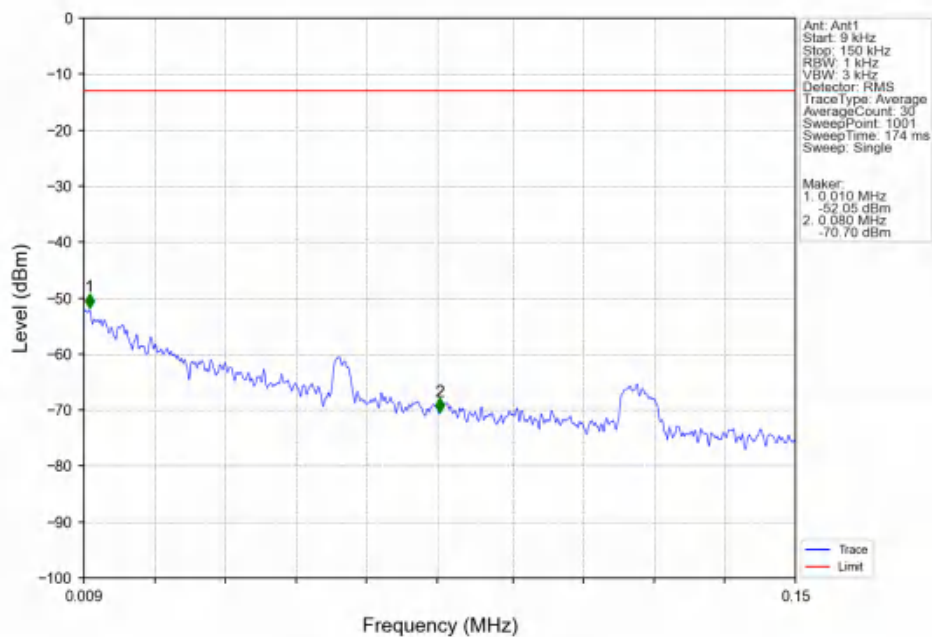


### 6.2.3 B12\_5MHz

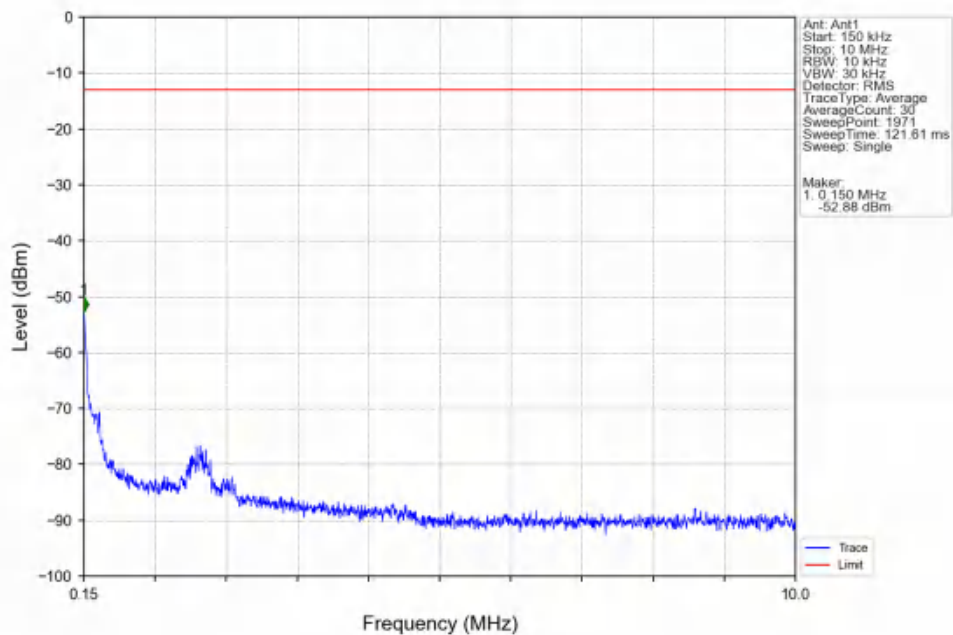
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



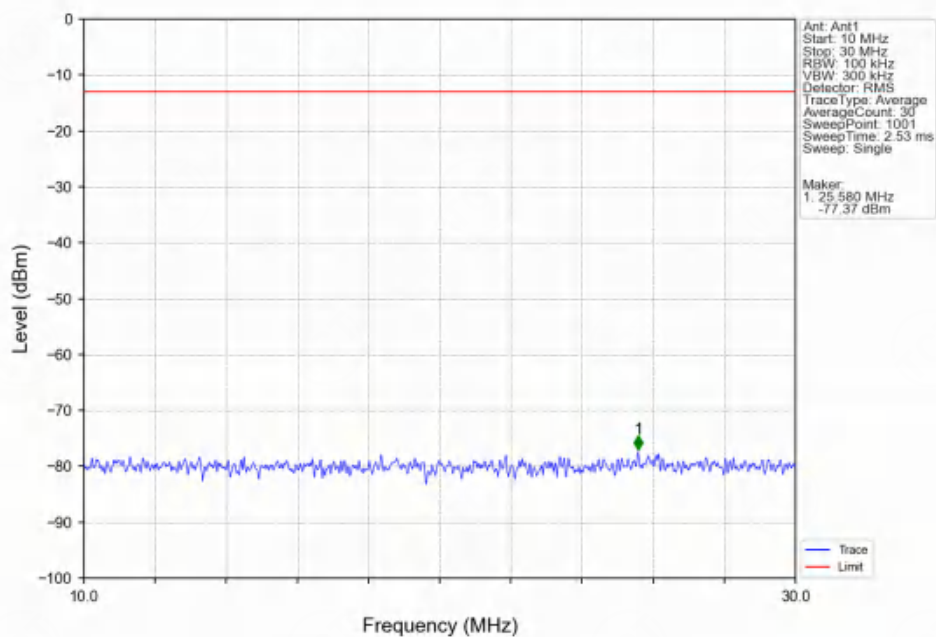
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



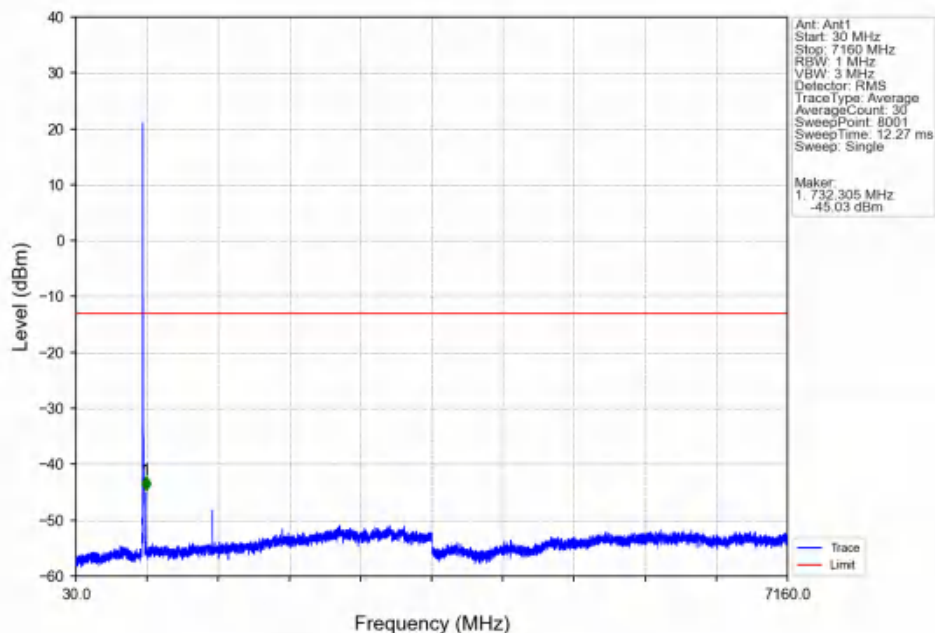
Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTN



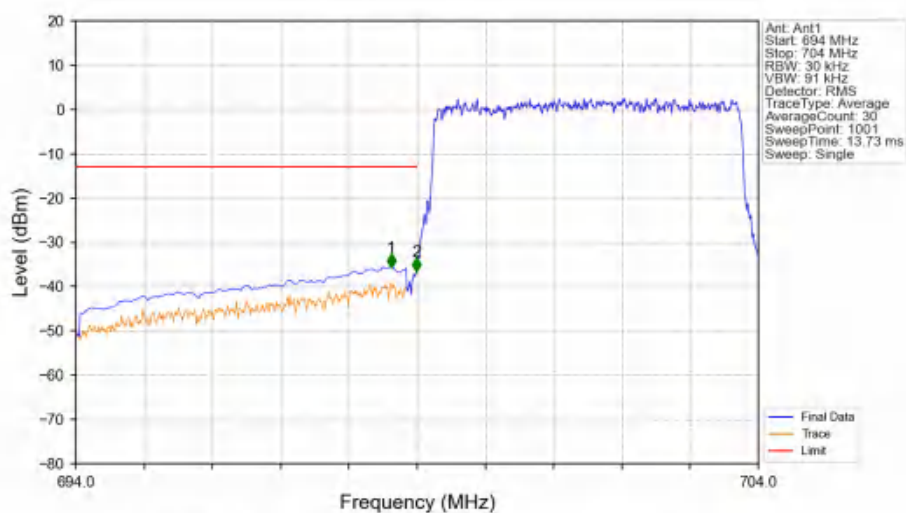
Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTN



Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTNV

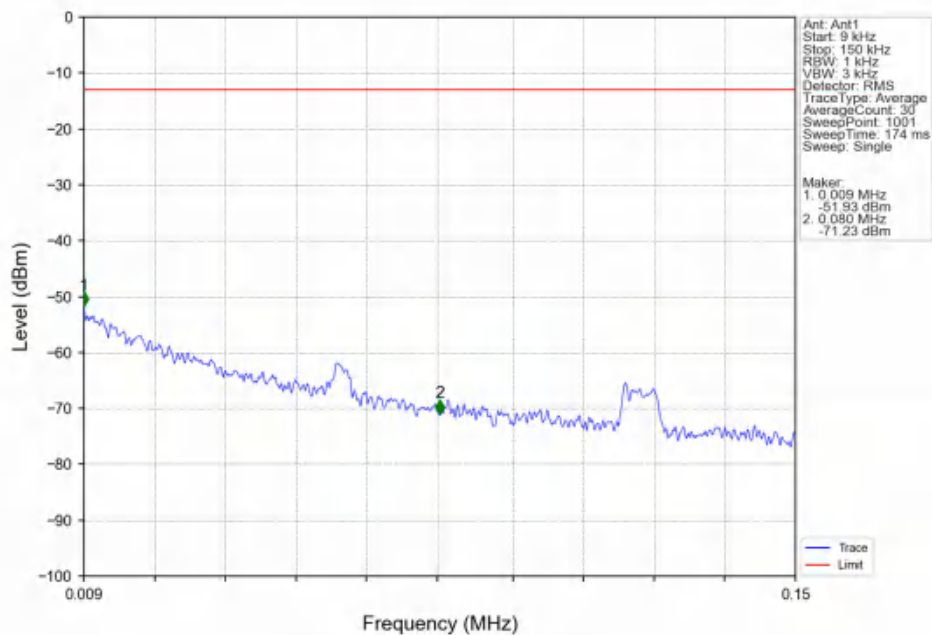


Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV

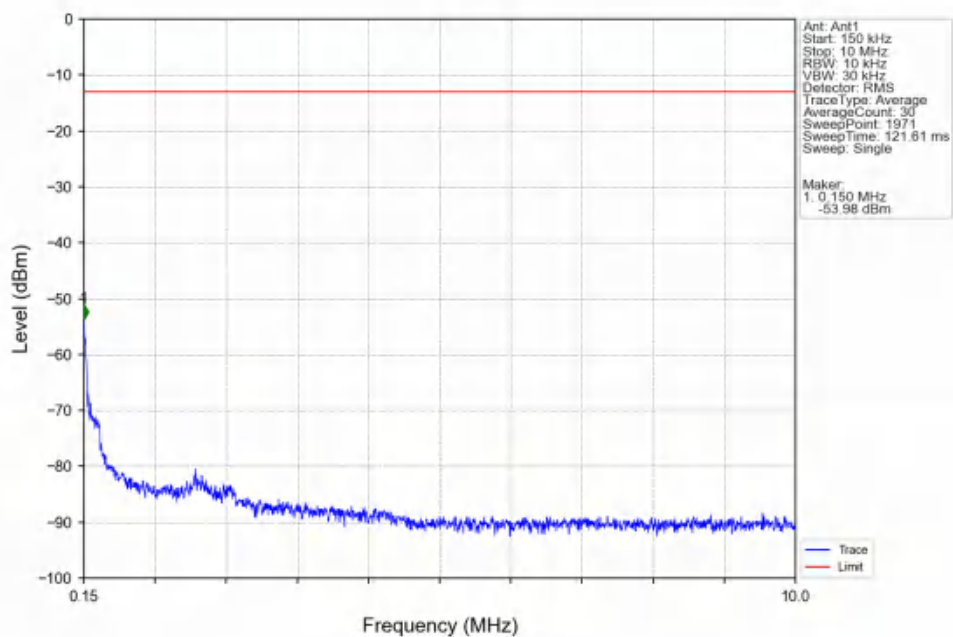


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.620    | -35.61      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.990    | -36.56      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

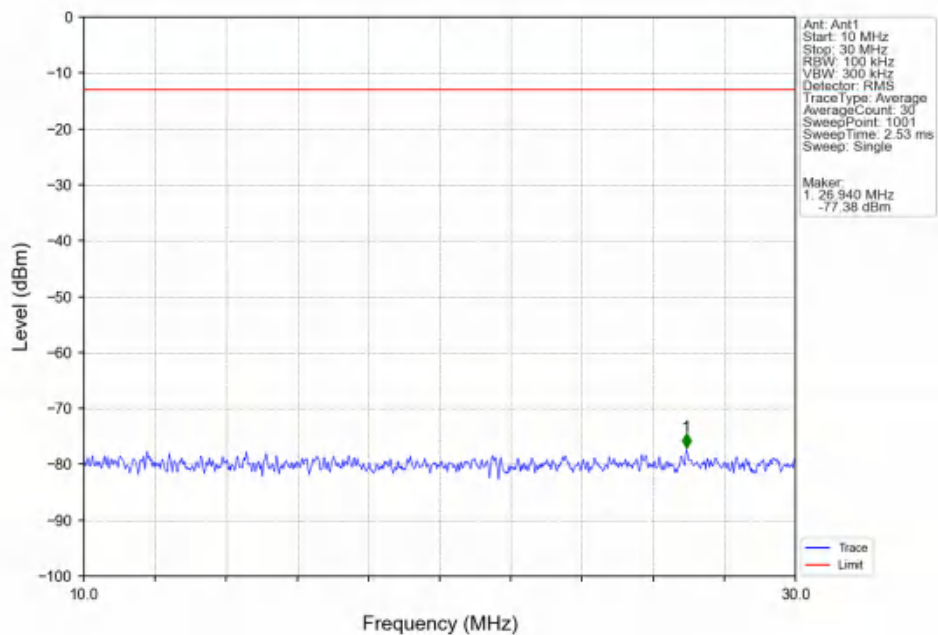
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



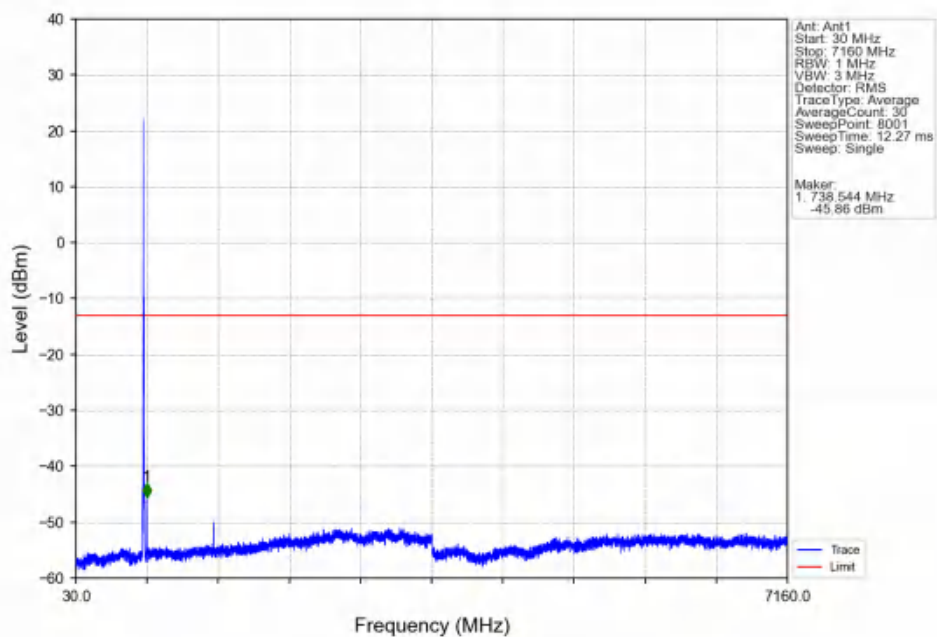
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



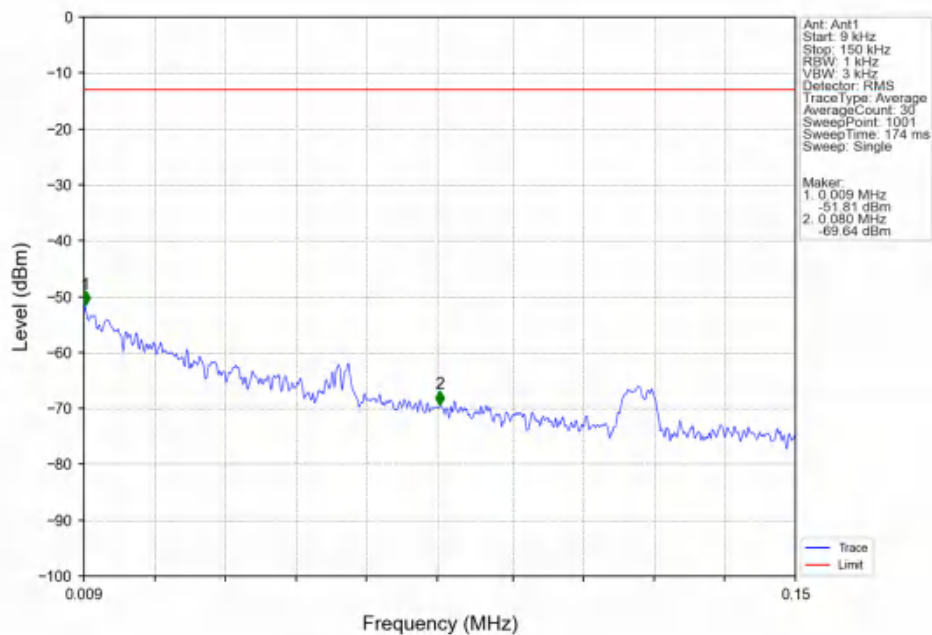
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



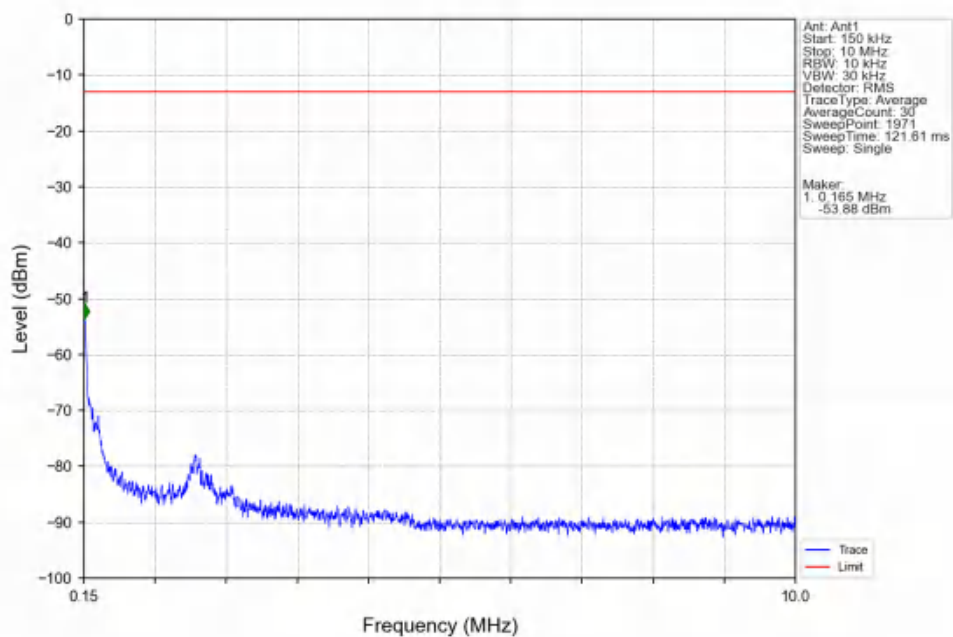
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



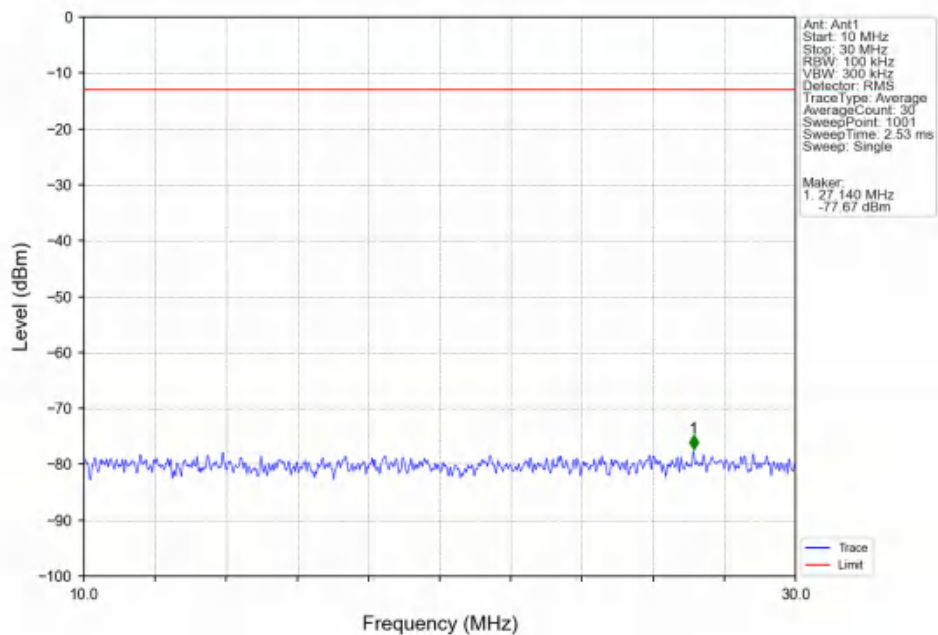
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



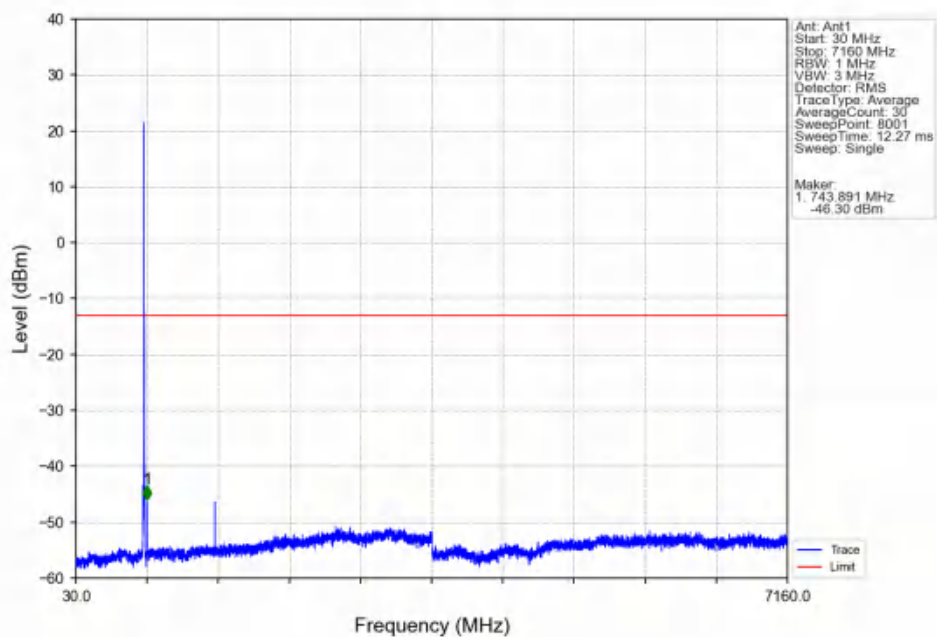
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



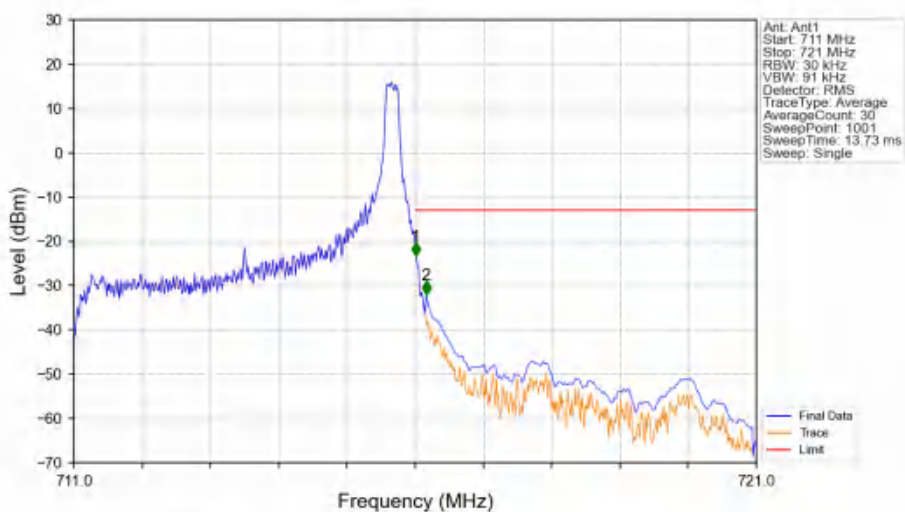
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN

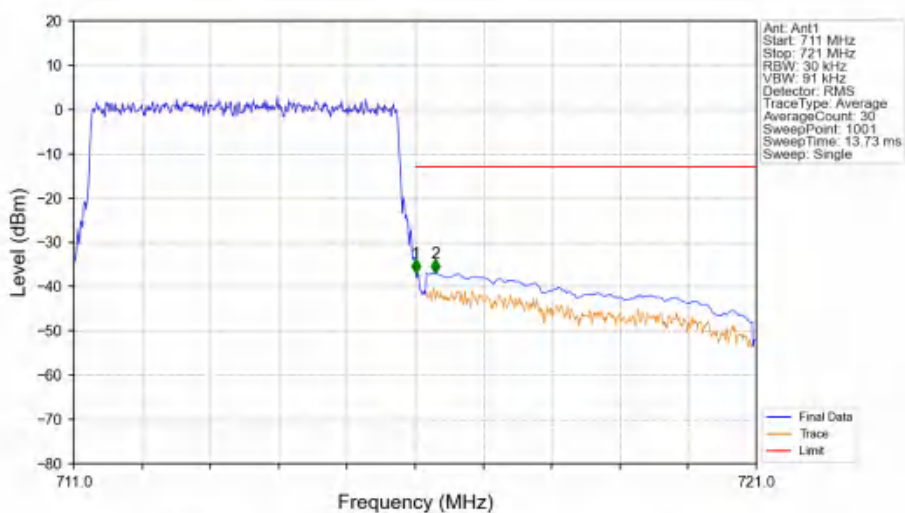


## Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTV



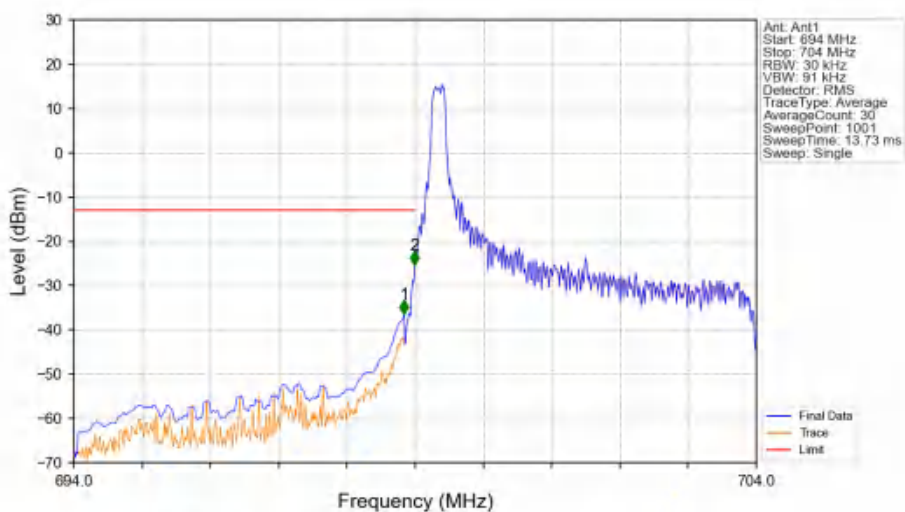
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.010    | -23.23      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -31.99      | -13         | Pass   |

## Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV

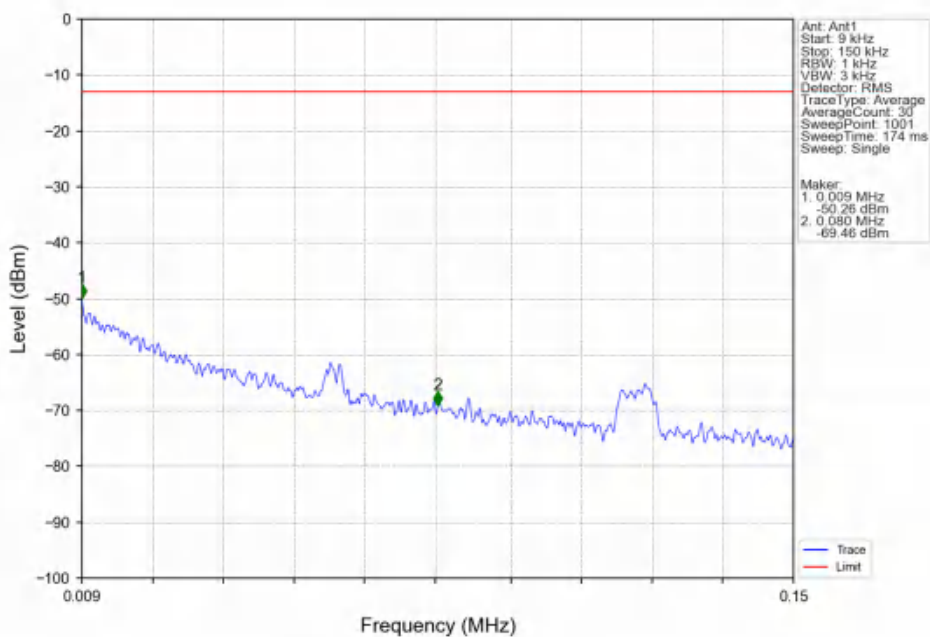


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.010    | -36.96      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.300    | -36.95      | -13         | Pass   |

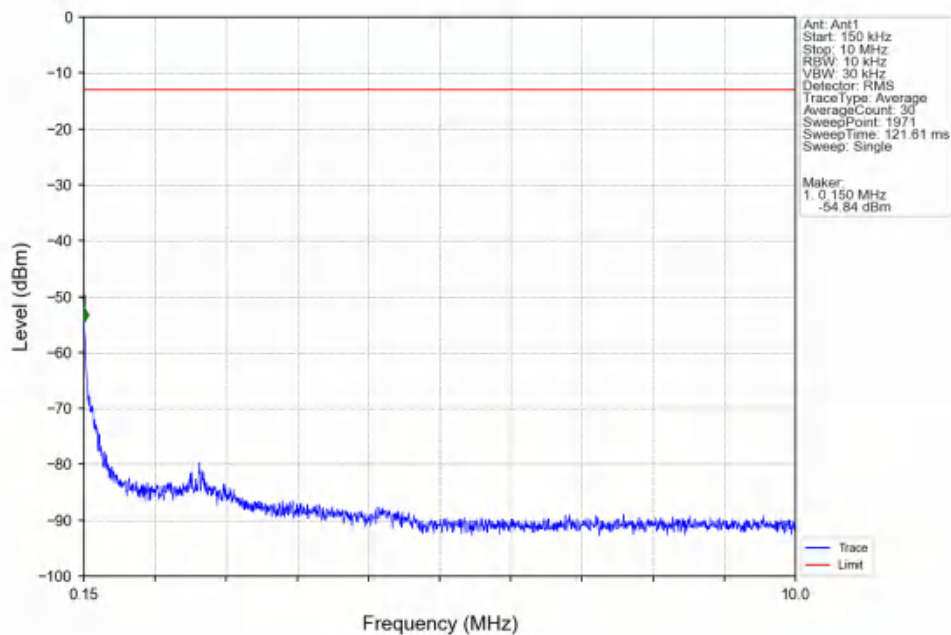
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTV



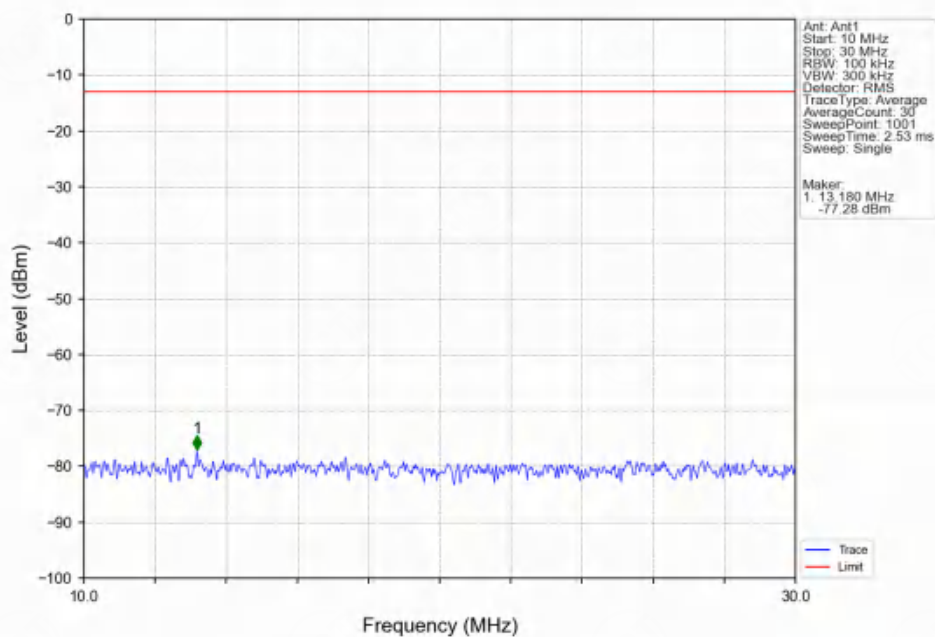
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTV



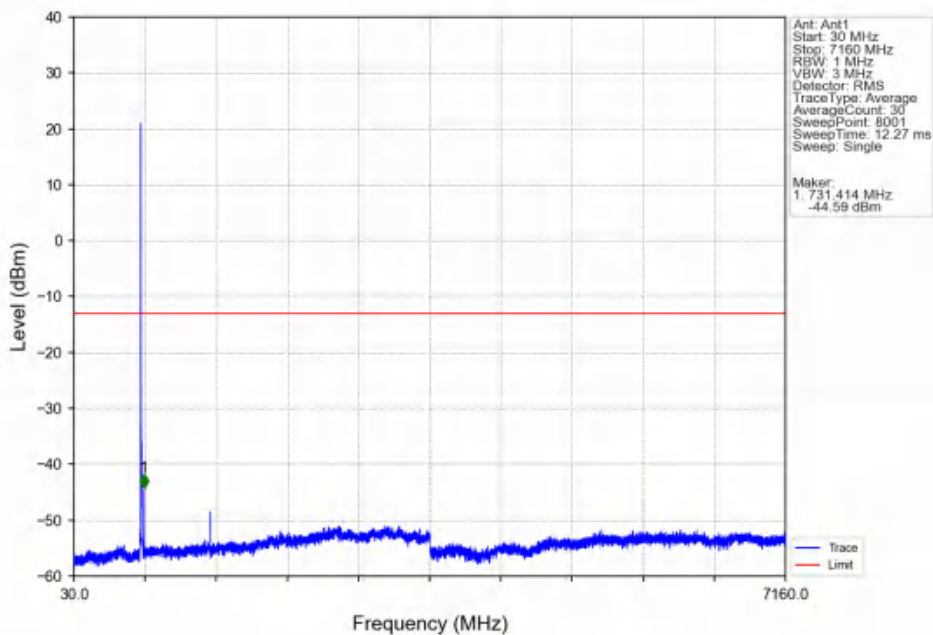
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTNV



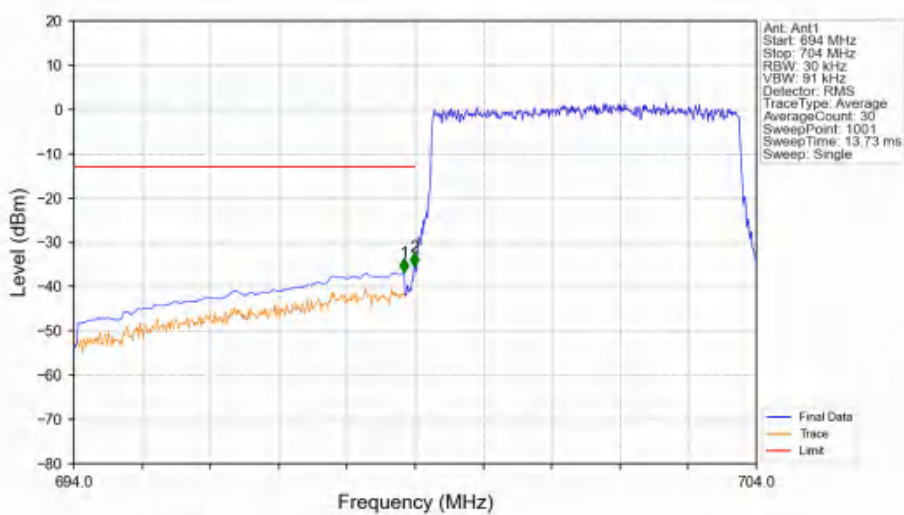
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTNV



Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTV

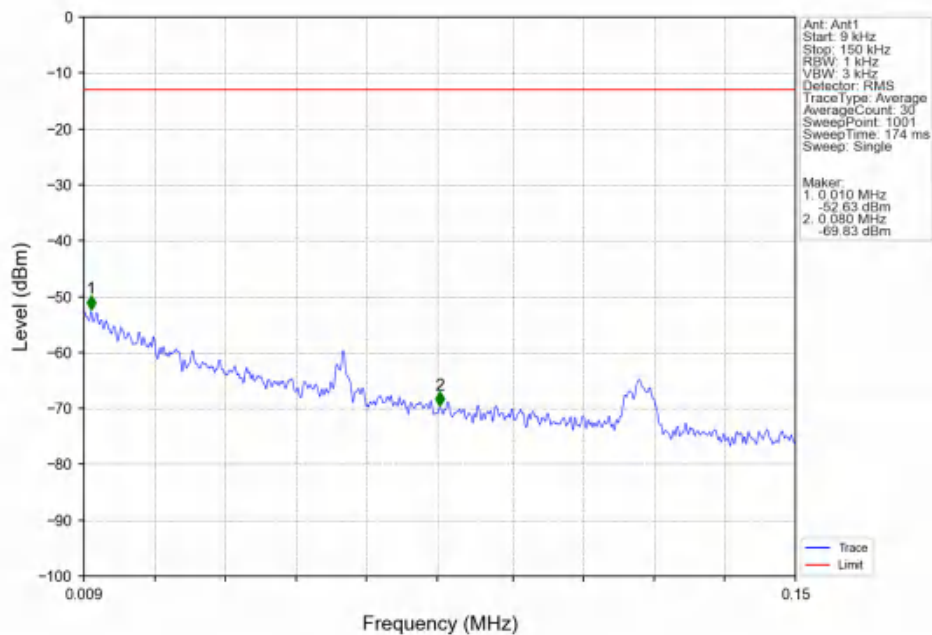


Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTV

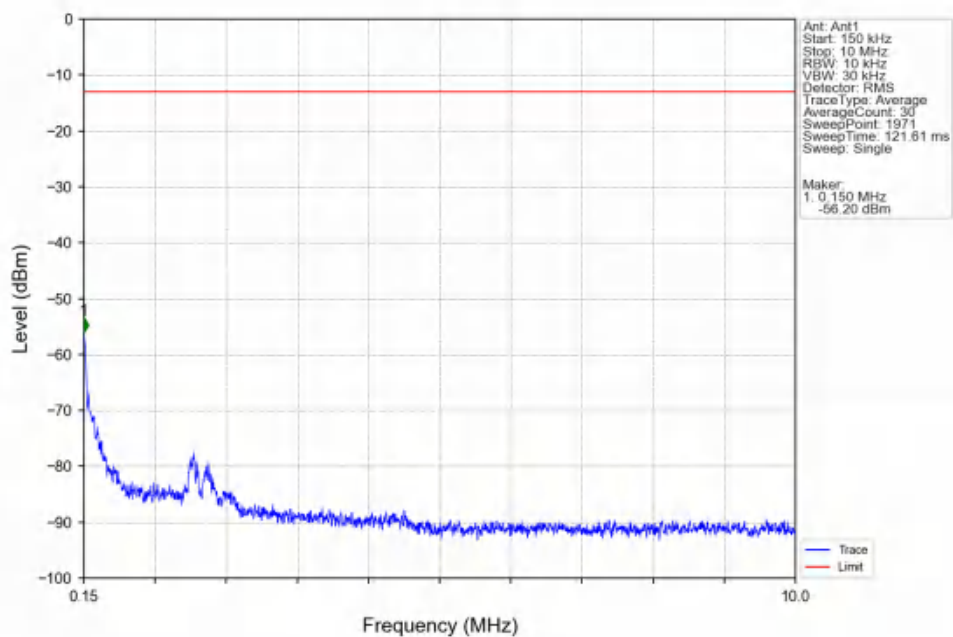


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.840    | -36.69      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.990    | -35.50      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

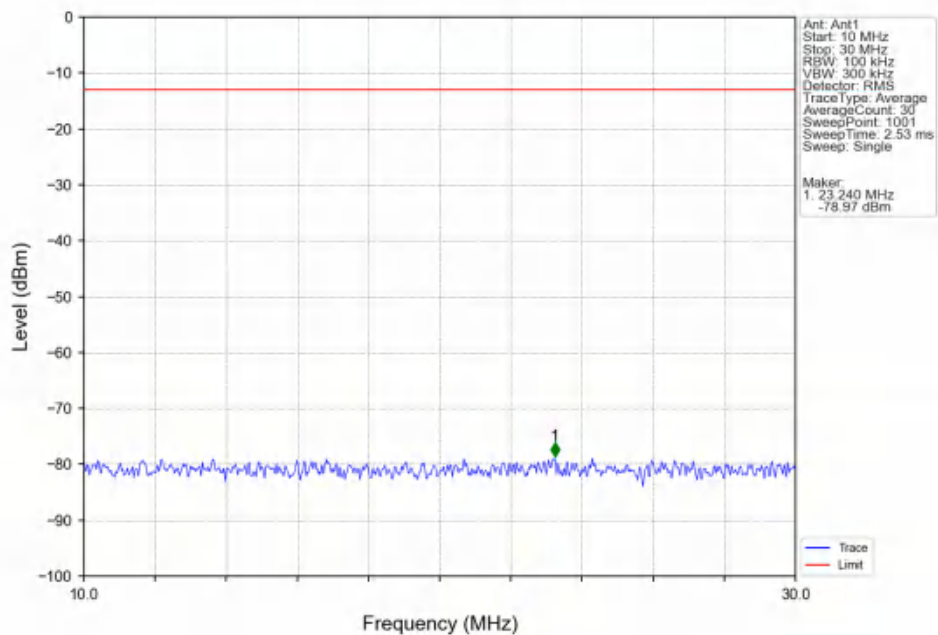
Band12 5MHz 16QAM MCH 707.5MHz RB 1 0 NTV



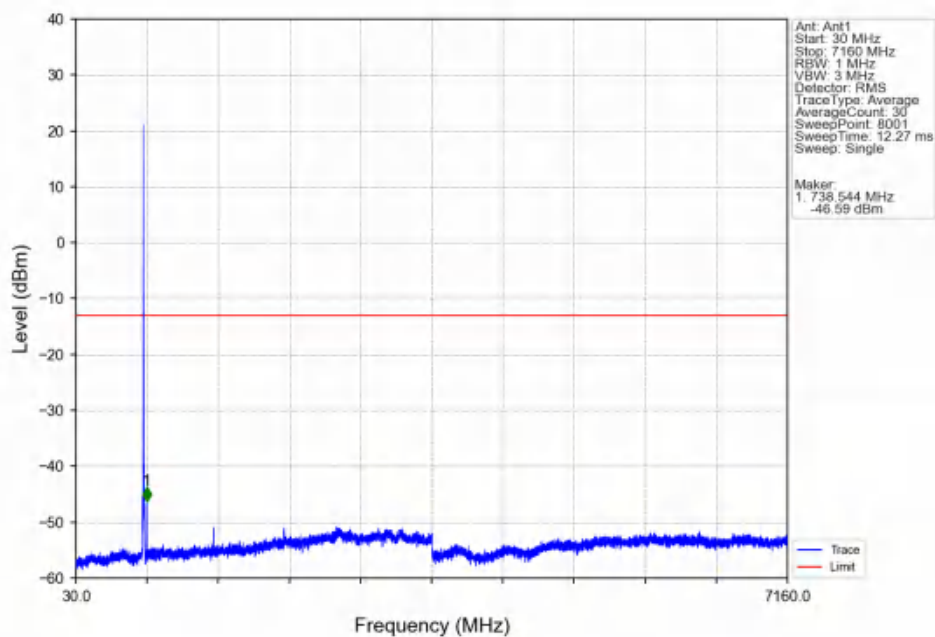
Band12 5MHz 16QAM MCH 707.5MHz RB 1 0 NTV



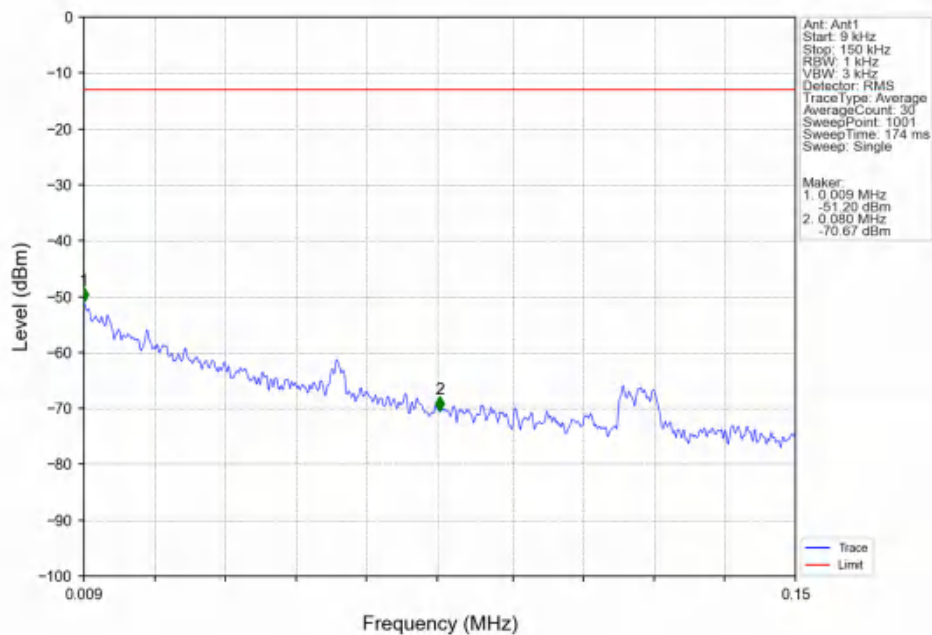
Band12 5MHz 16QAM MCH 707.5MHz RB 1 0 NTV



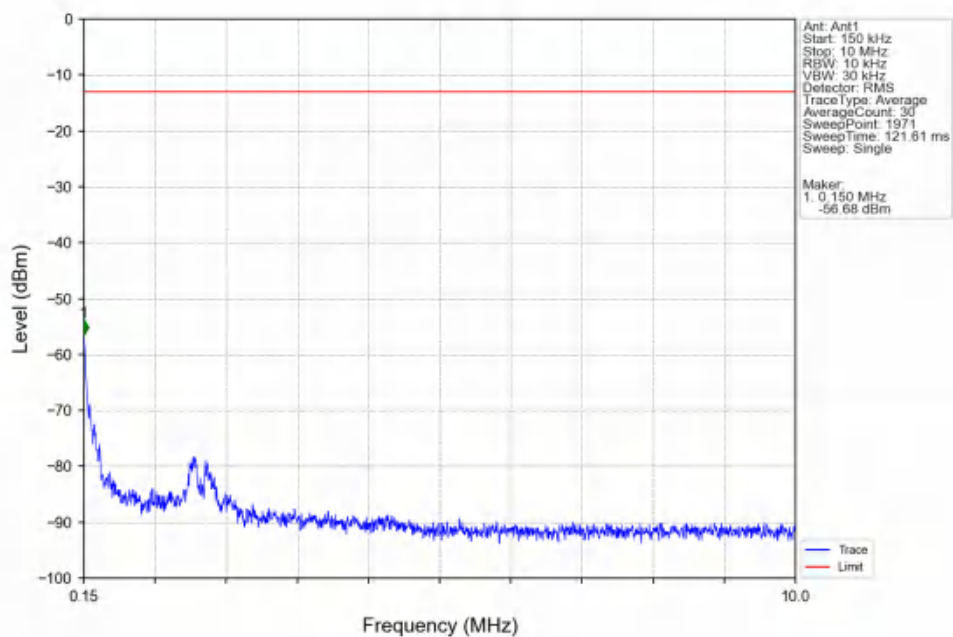
Band12 5MHz 16QAM MCH 707.5MHz RB 1 0 NTV



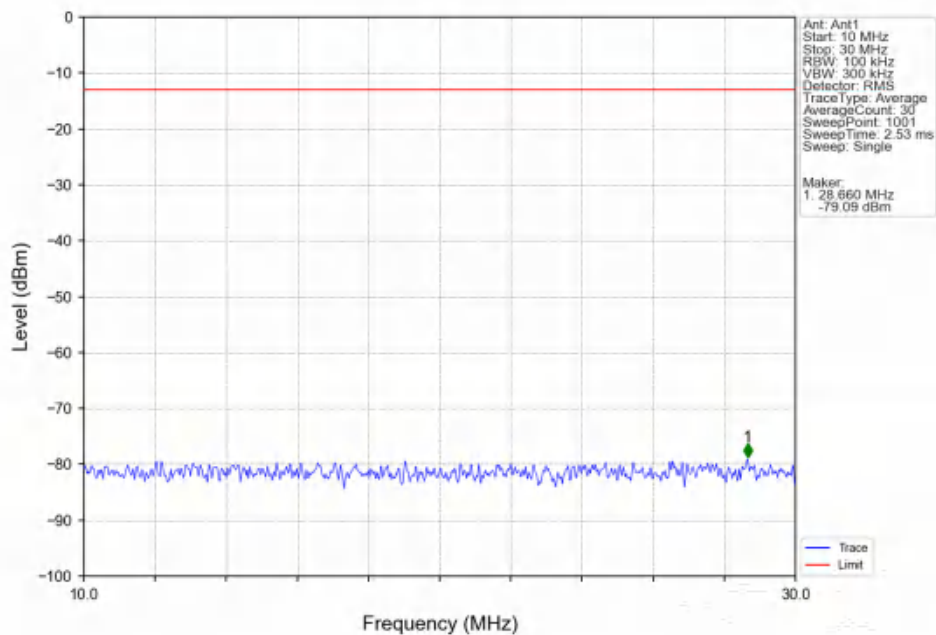
Band12 5MHz 16QAM HCH 713.5MHz RB 1 0 NTV



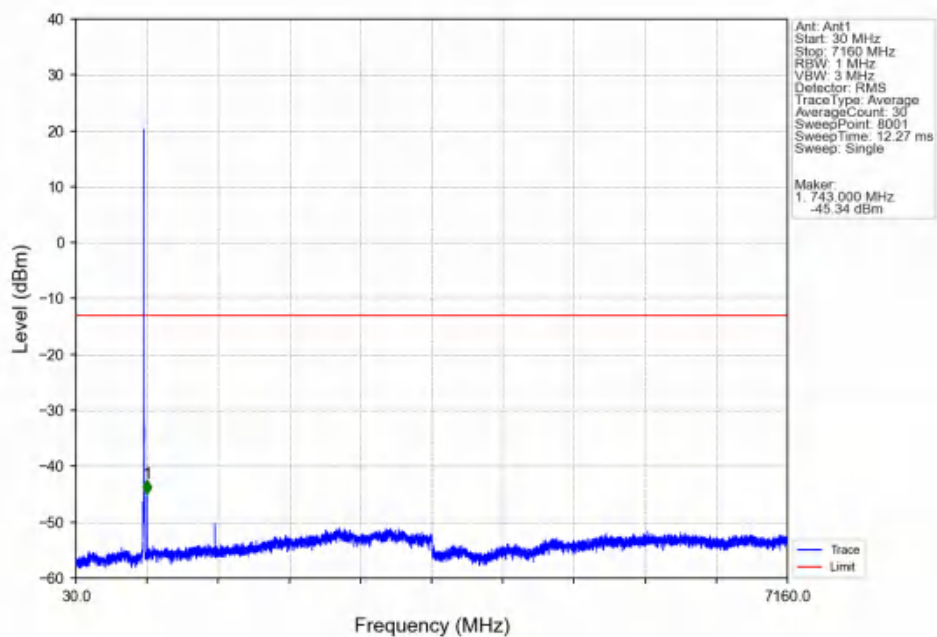
Band12 5MHz 16QAM HCH 713.5MHz RB 1 0 NTV



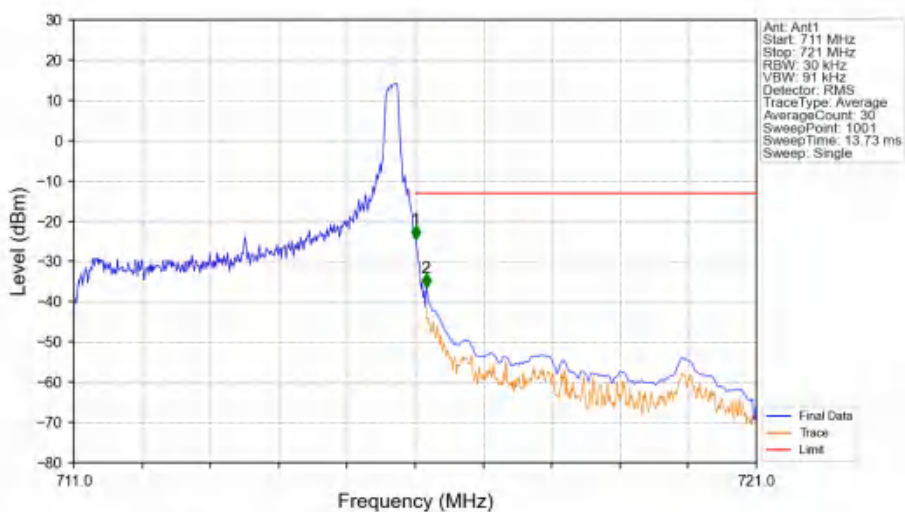
Band12 5MHz 16QAM HCH 713.5MHz RB 1 0 NTV



Band12 5MHz 16QAM HCH 713.5MHz RB 1 0 NTV

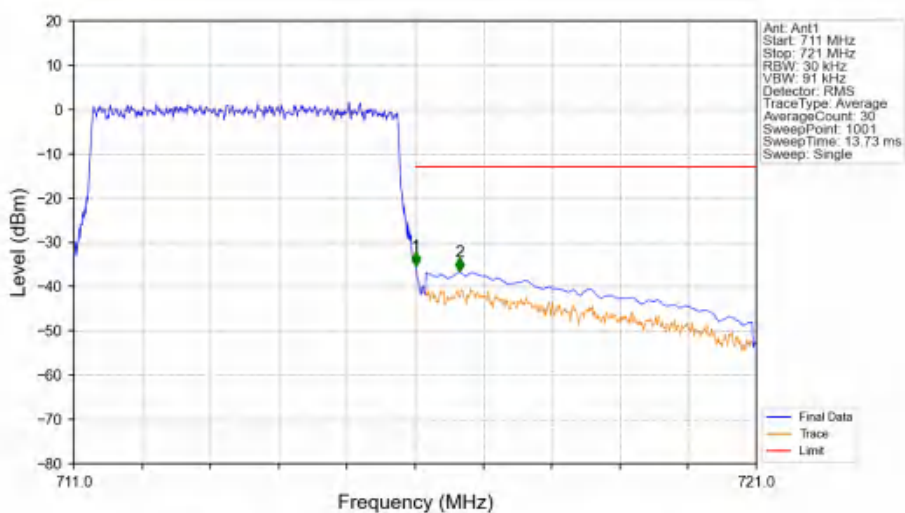


Band12 5MHz 16QAM HCH 713.5MHz RB 1 24 NTV



| 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    | -24.44      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -36.38      | -13         | Pass   |

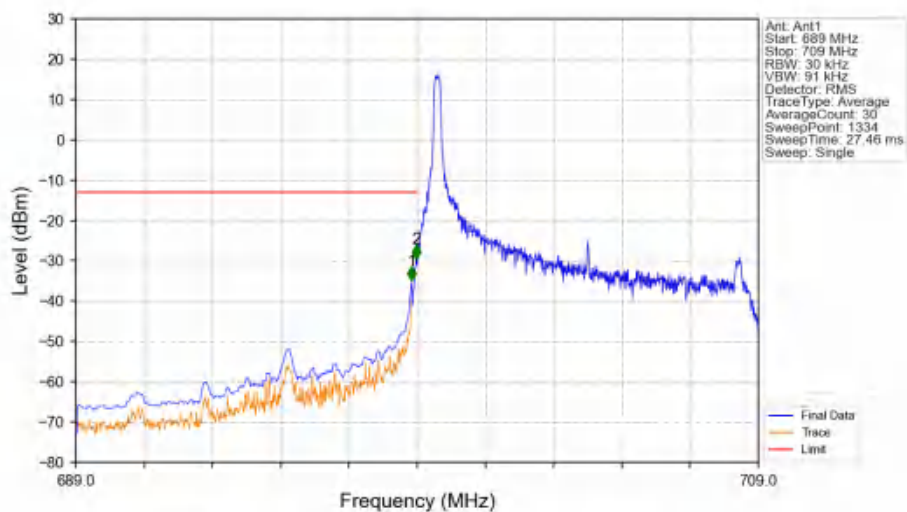
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTV



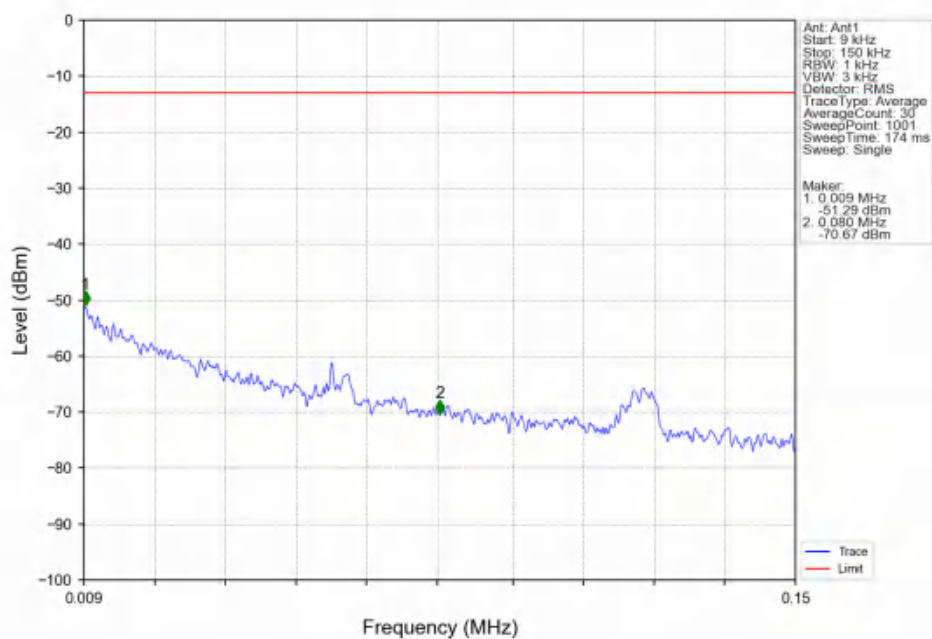
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.010    | -35.24      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.650    | -36.68      | -13         | Pass   |

## 6.2.4 B12\_10MHz

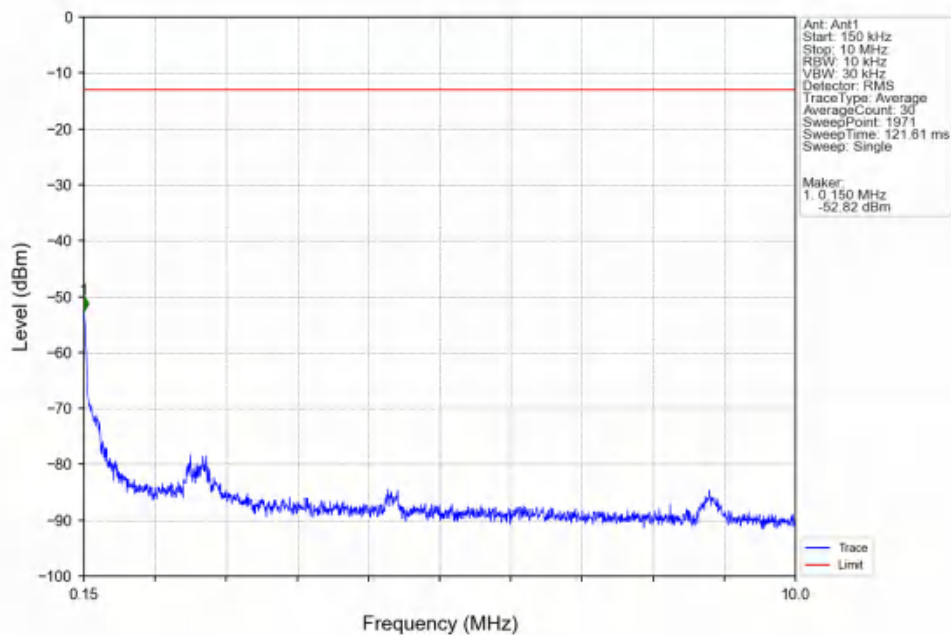
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_1\_0\_NTNV



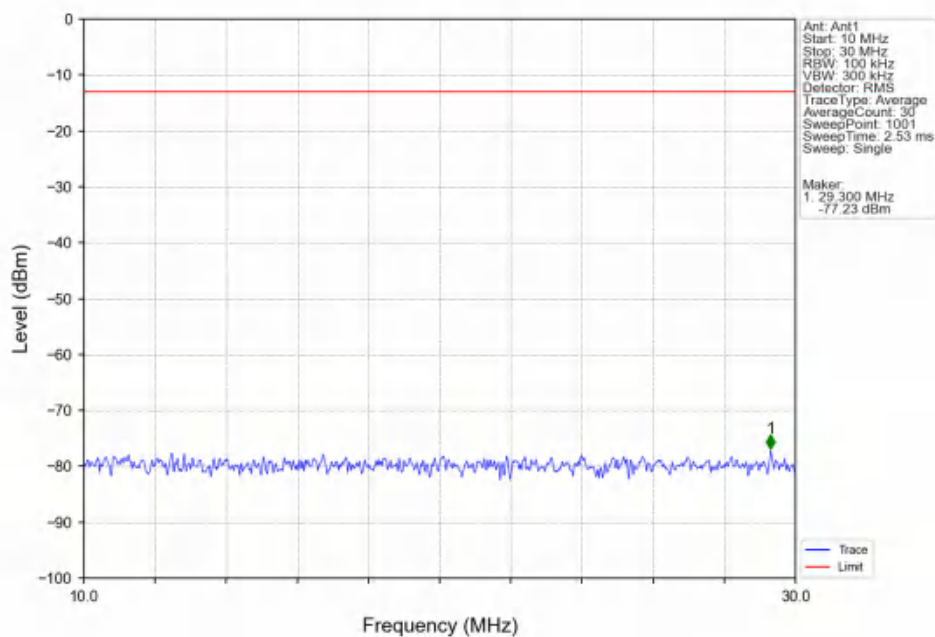
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_1\_0\_NTNV



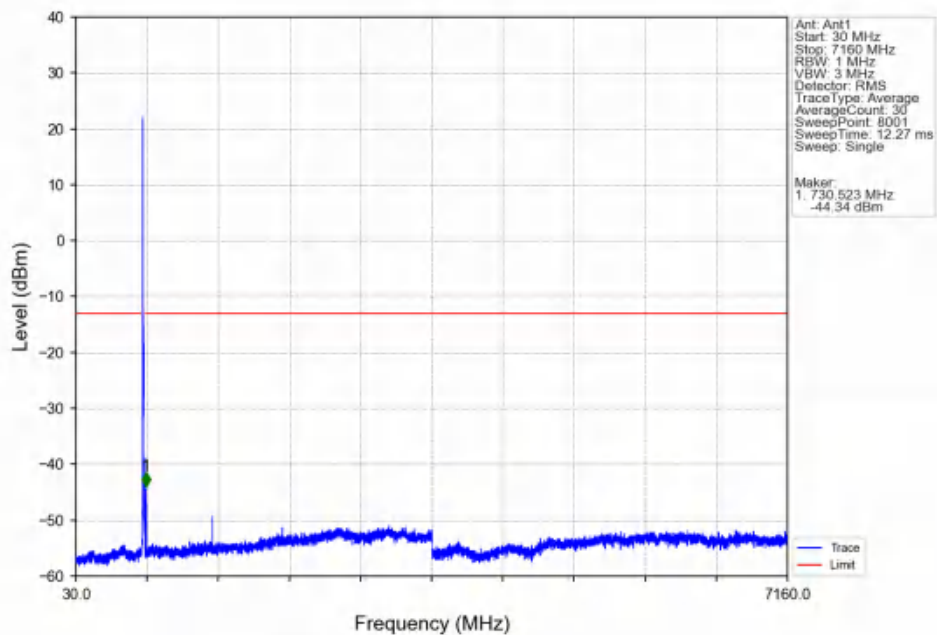
Band12 10MHz QPSK LCH 704MHz RB 1 0 NTV



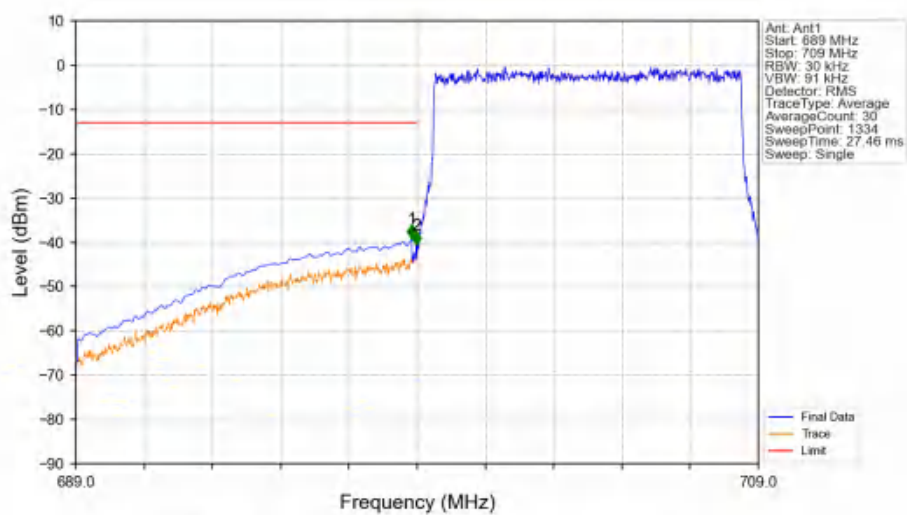
Band12 10MHz QPSK LCH 704MHz RB 1 0 NTV



Band12 10MHz QPSK LCH 704MHz RB 1 0 NTN

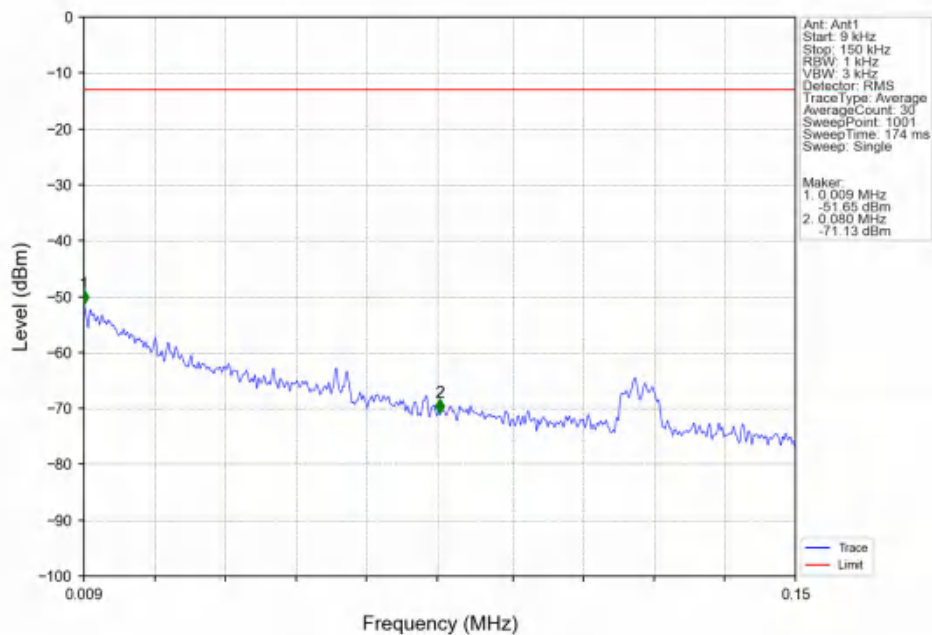


Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN

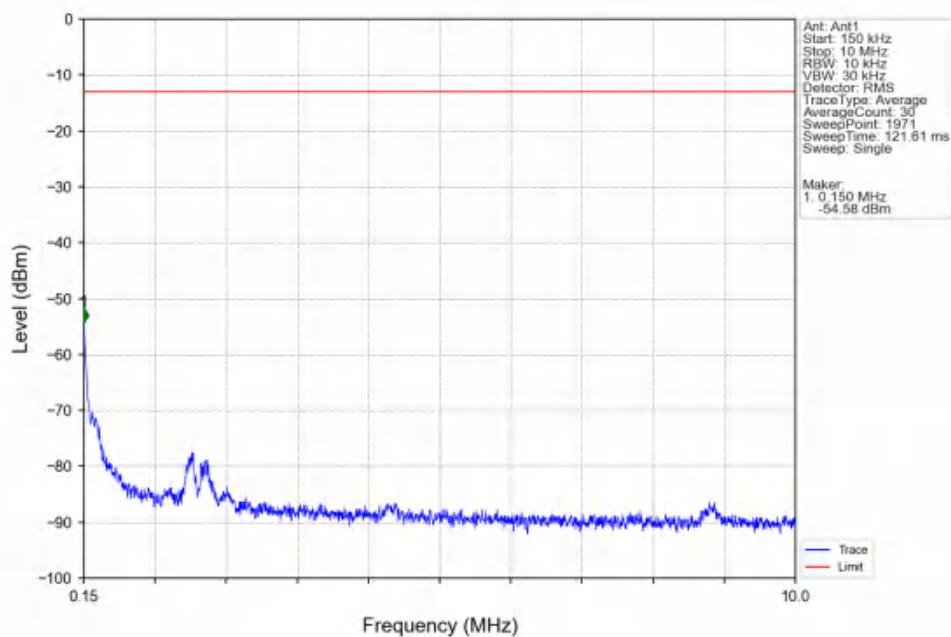


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -39.05      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.977    | -40.64      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

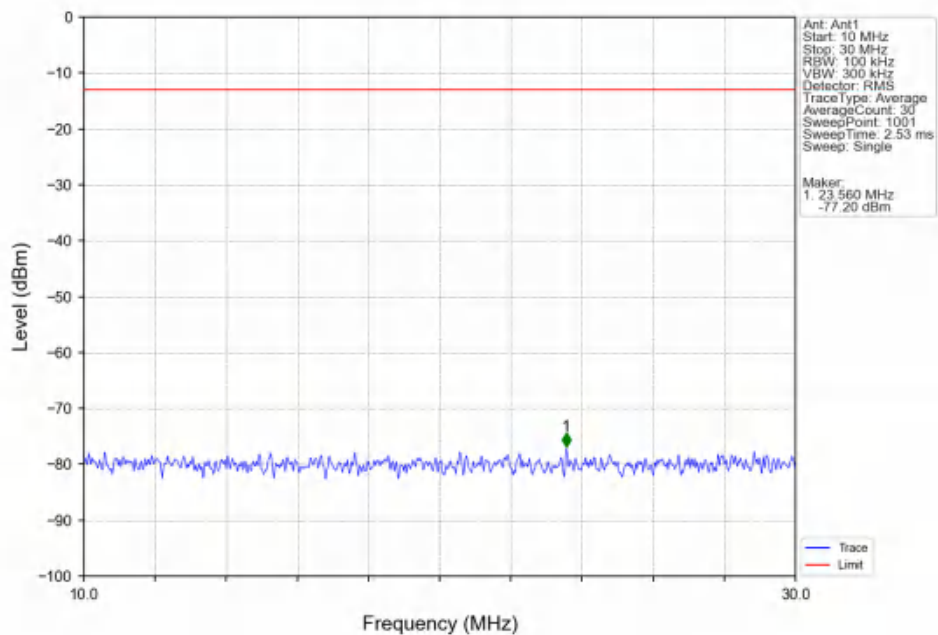
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTV



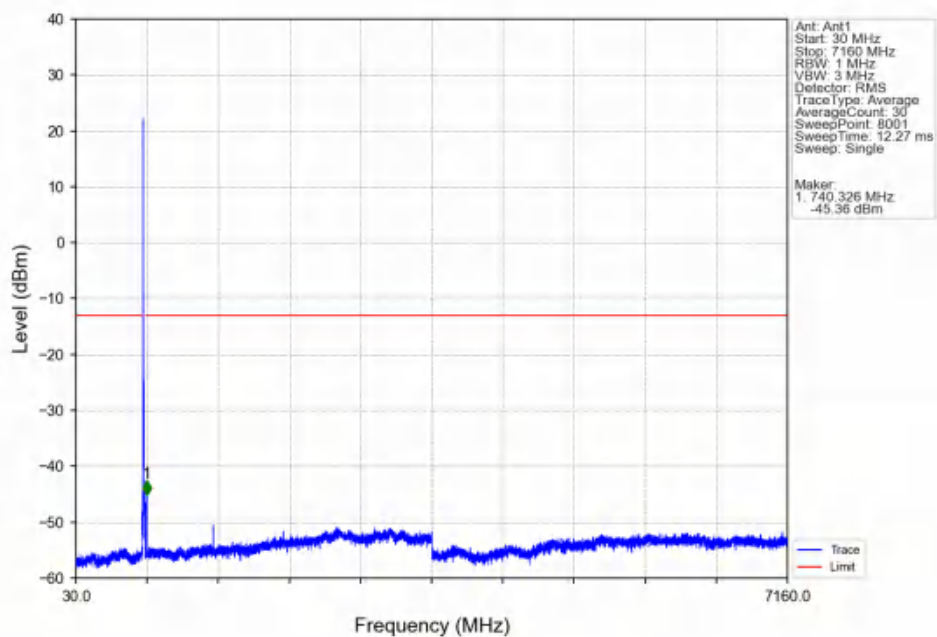
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTV



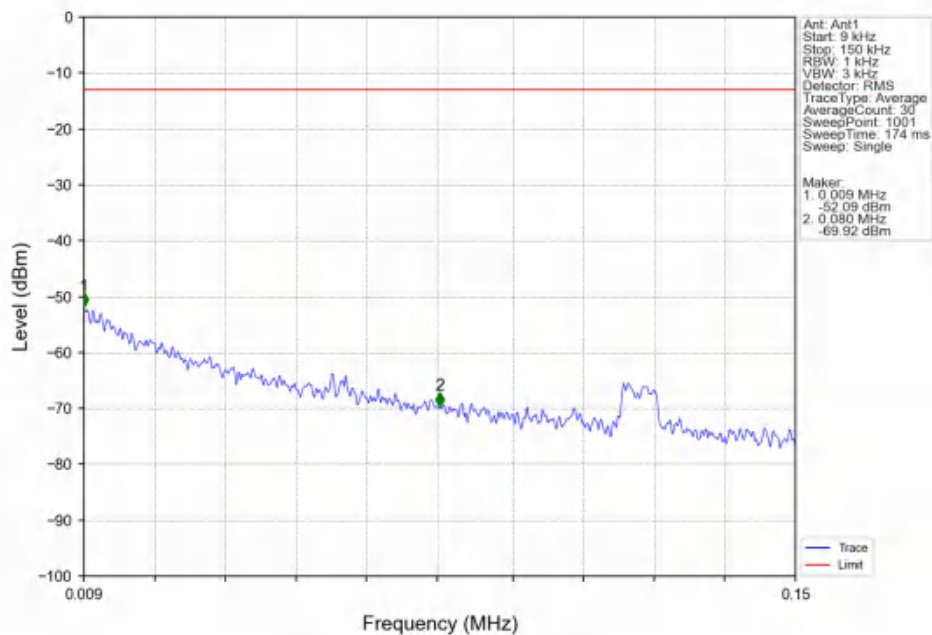
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTV



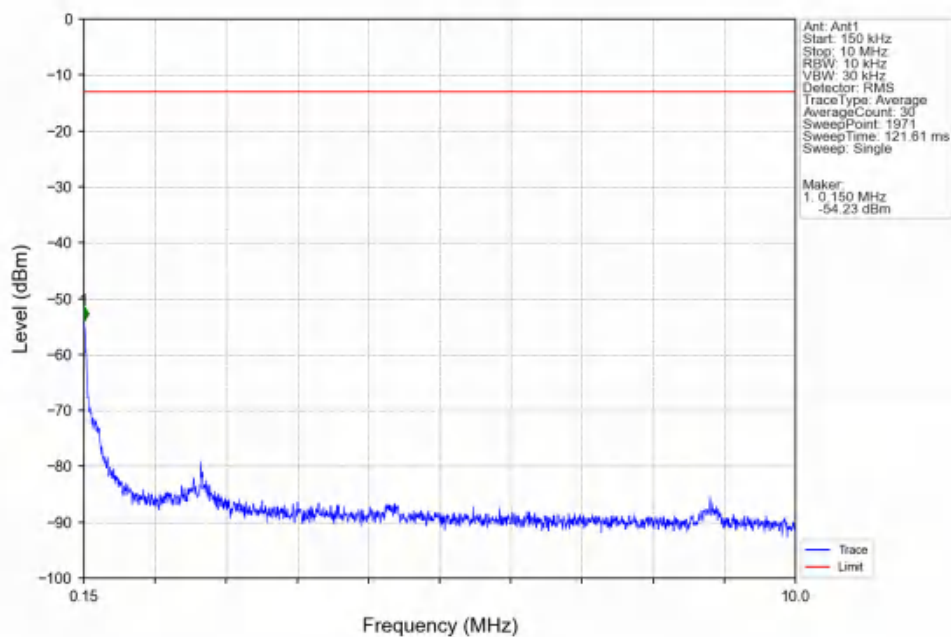
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTV



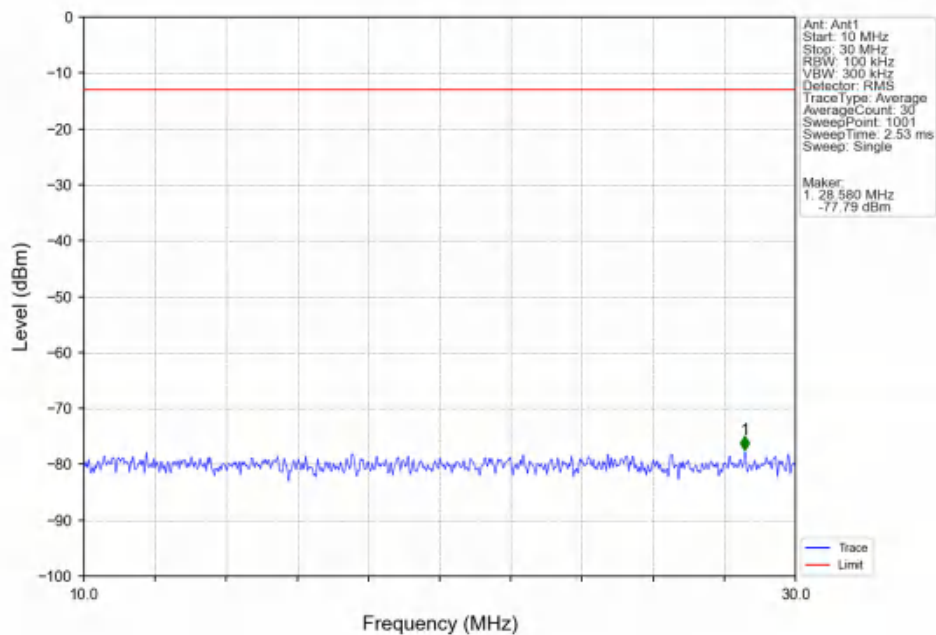
Band12 10MHz QPSK HCH 711MHz RB 1 0 NTNV



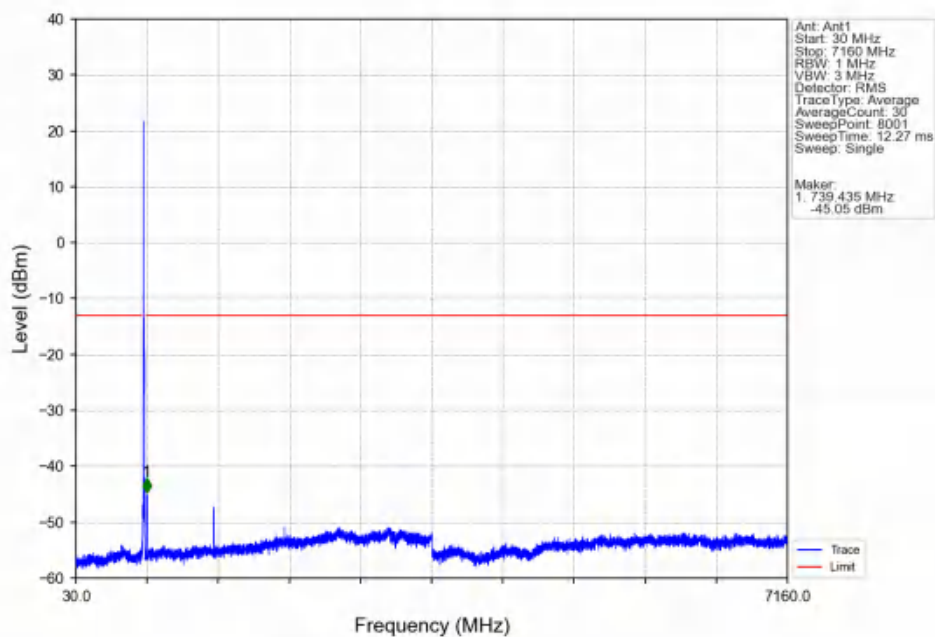
Band12 10MHz QPSK HCH 711MHz RB 1 0 NTNV



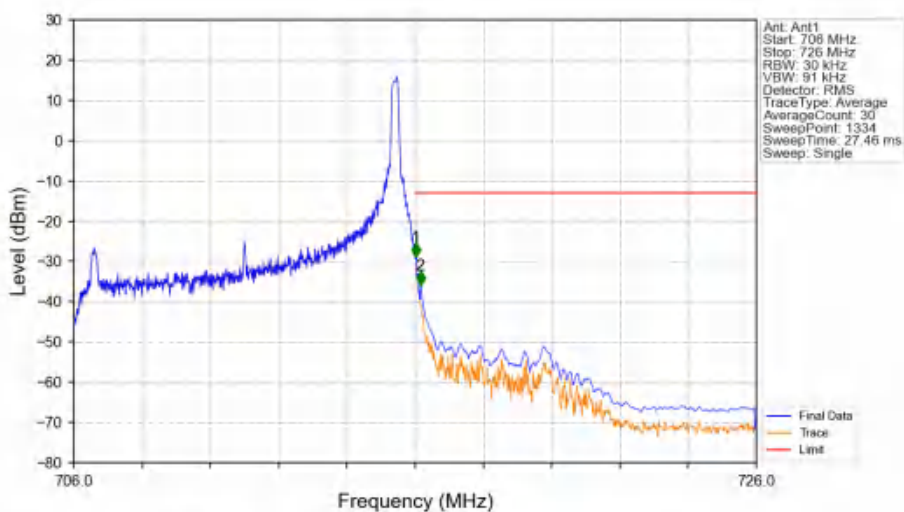
Band12 10MHz QPSK HCH 711MHz RB 1 0 NTN



Band12 10MHz QPSK HCH 711MHz RB 1 0 NTN

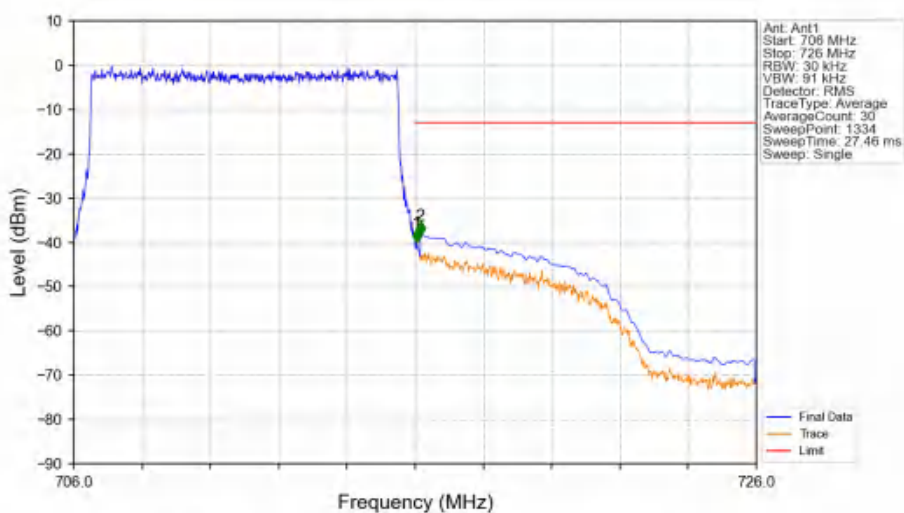


Band12 10MHz QPSK HCH 711MHz RB 1 49 NTNV



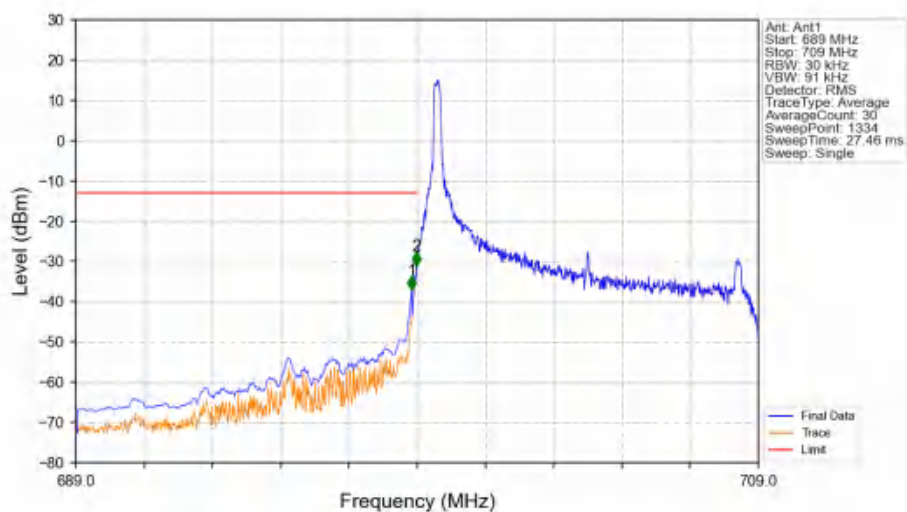
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.023    | -28.91      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -35.77      | -13         | Pass   |

Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



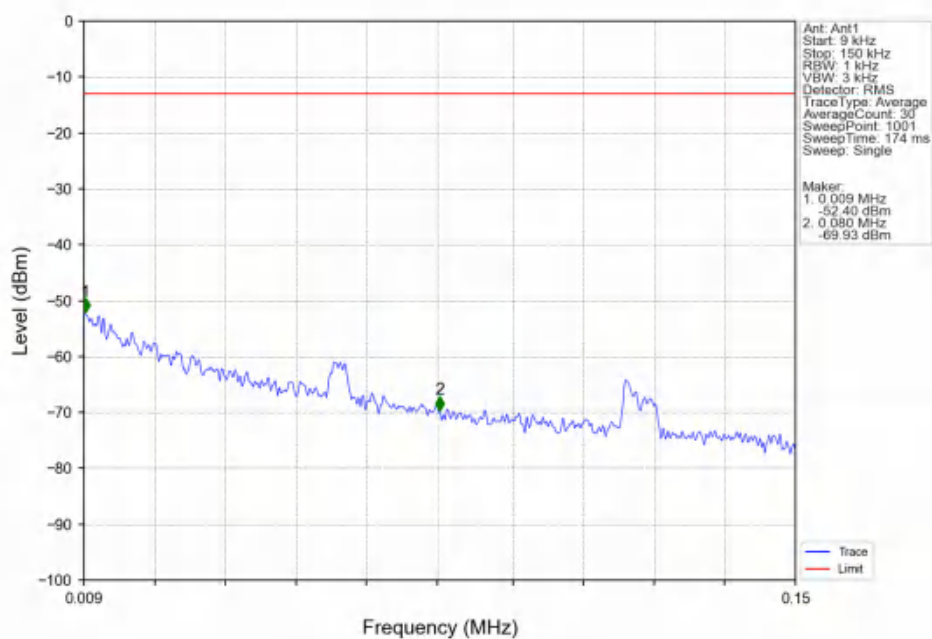
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.038    | -40.06      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -38.45      | -13         | Pass   |

Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV

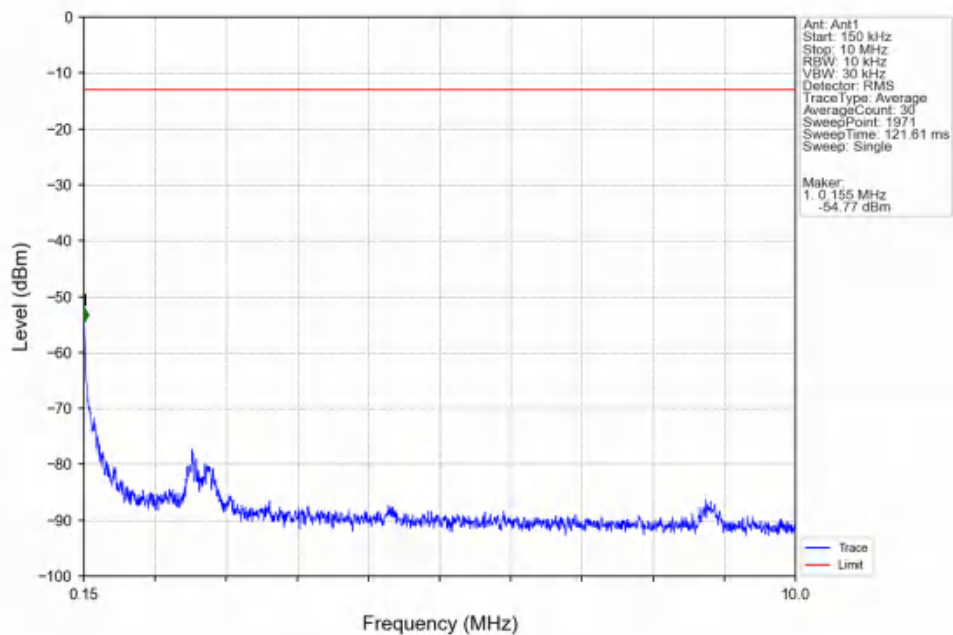


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -37.00      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.977    | -31.11      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

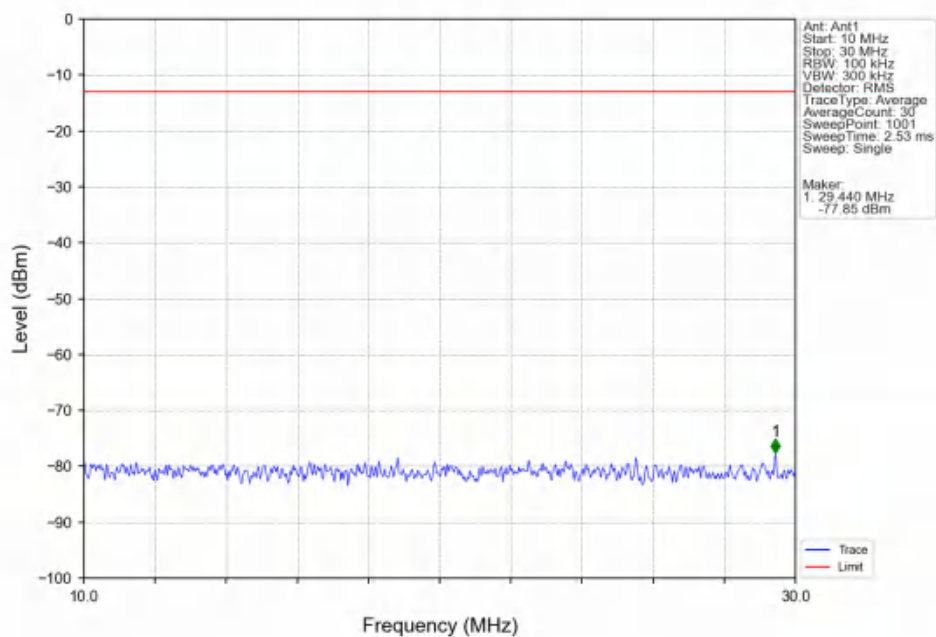
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



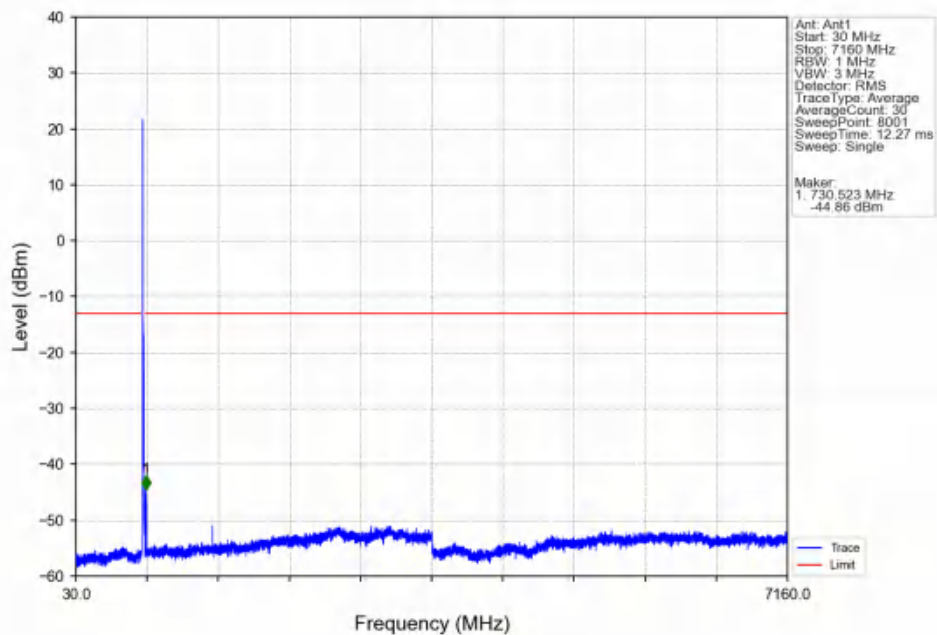
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



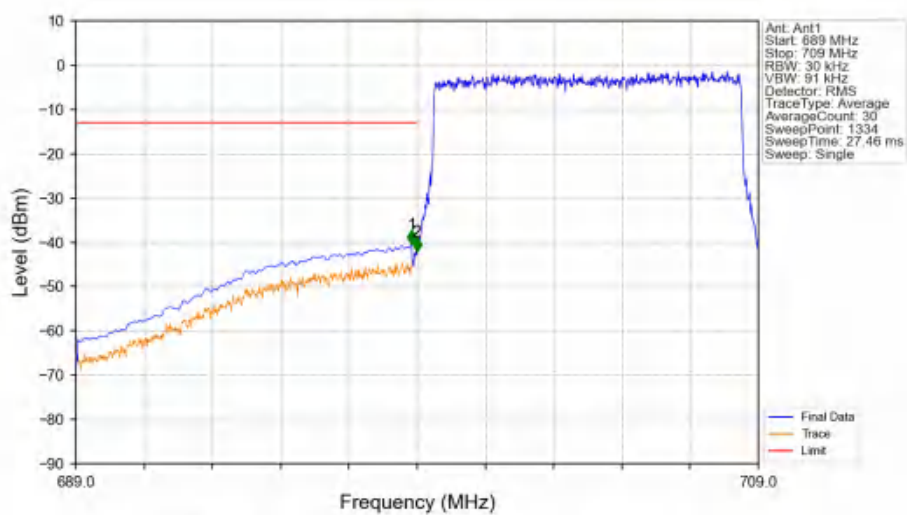
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV

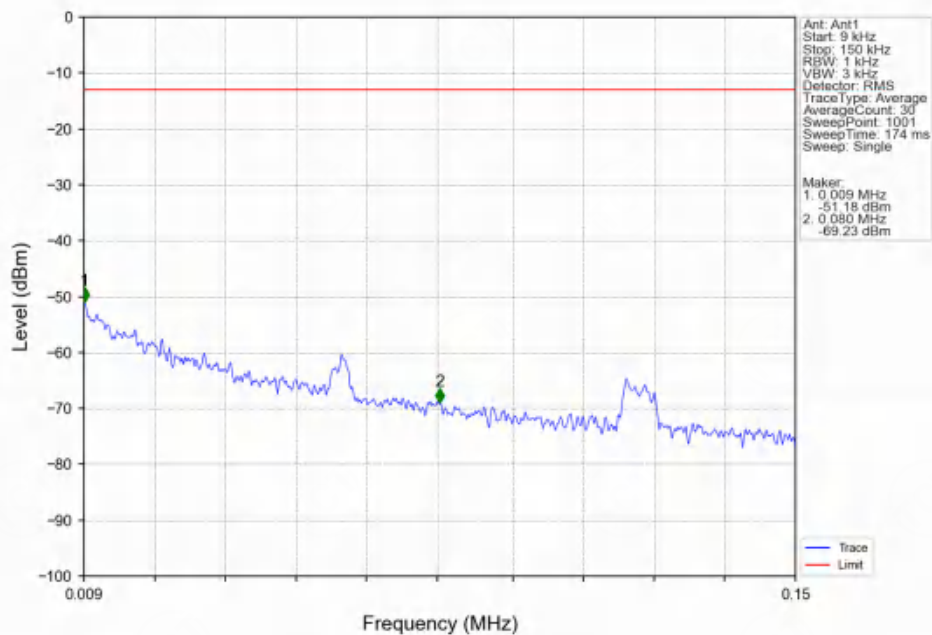


Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTNV

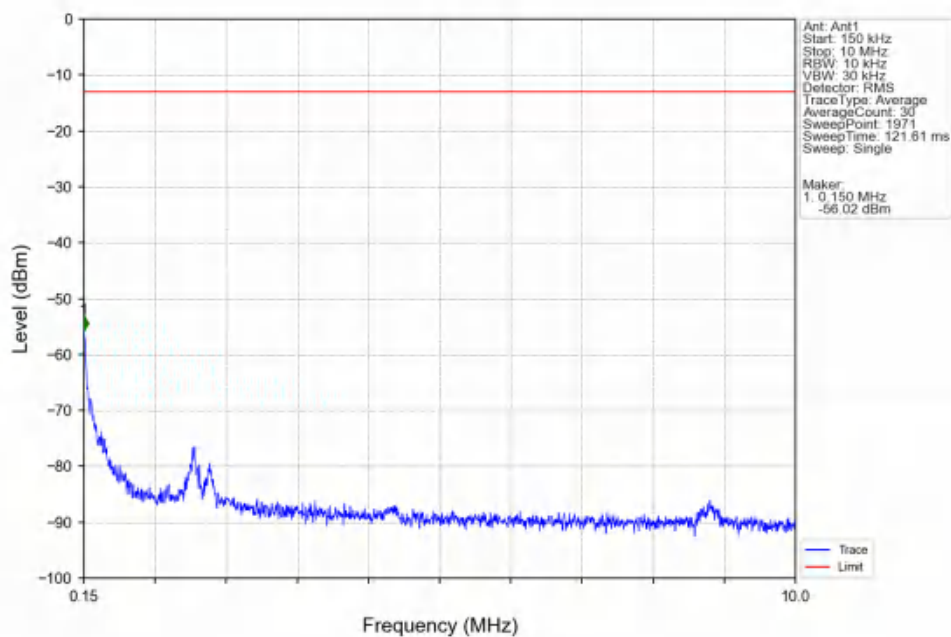


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -40.38      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.992    | -41.96      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

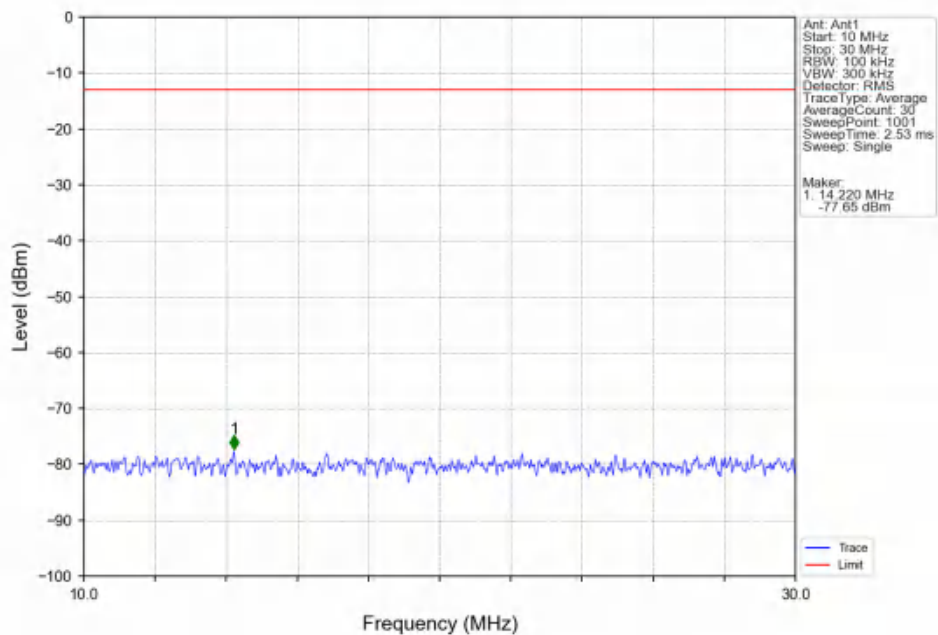
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



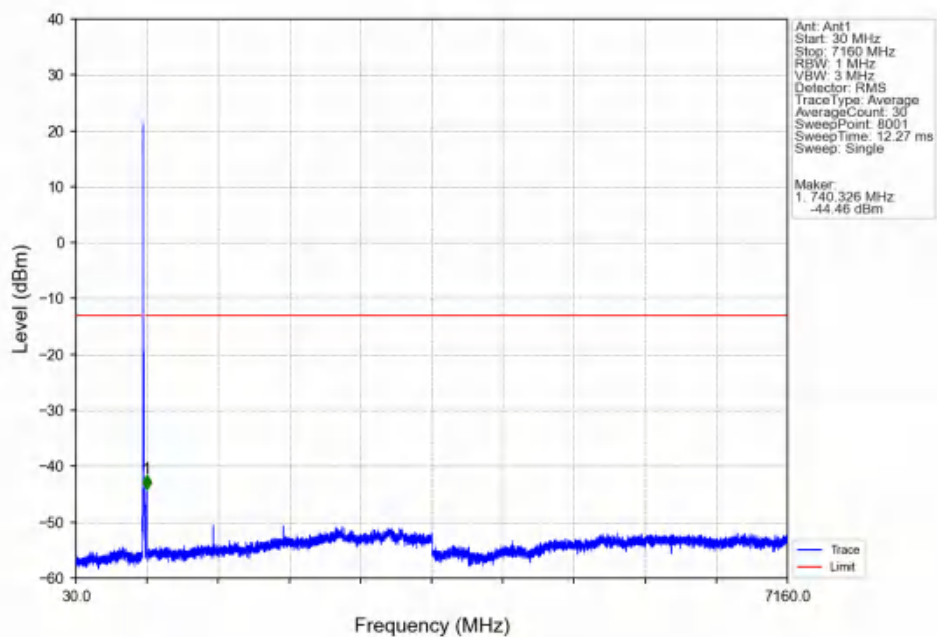
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



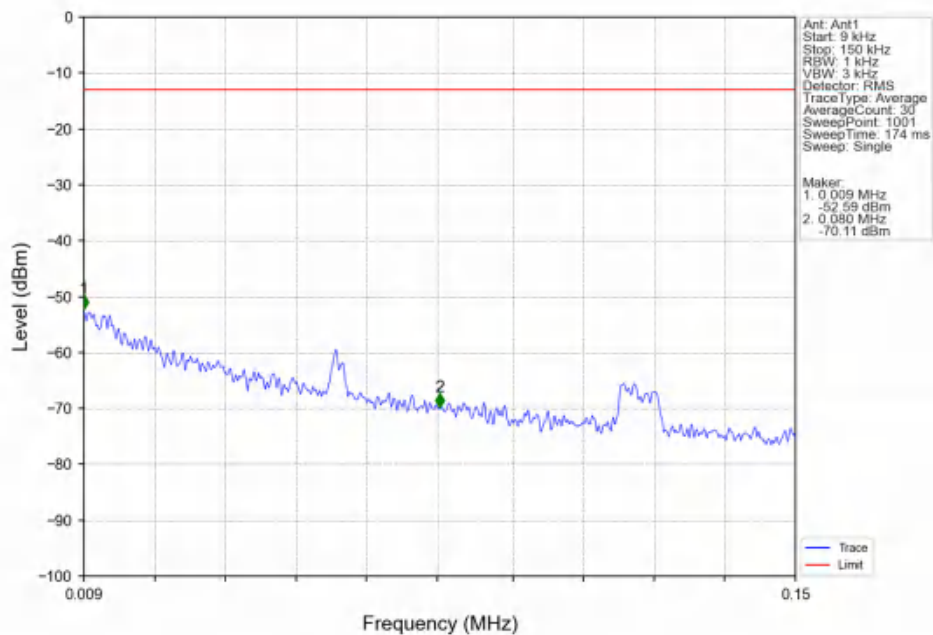
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



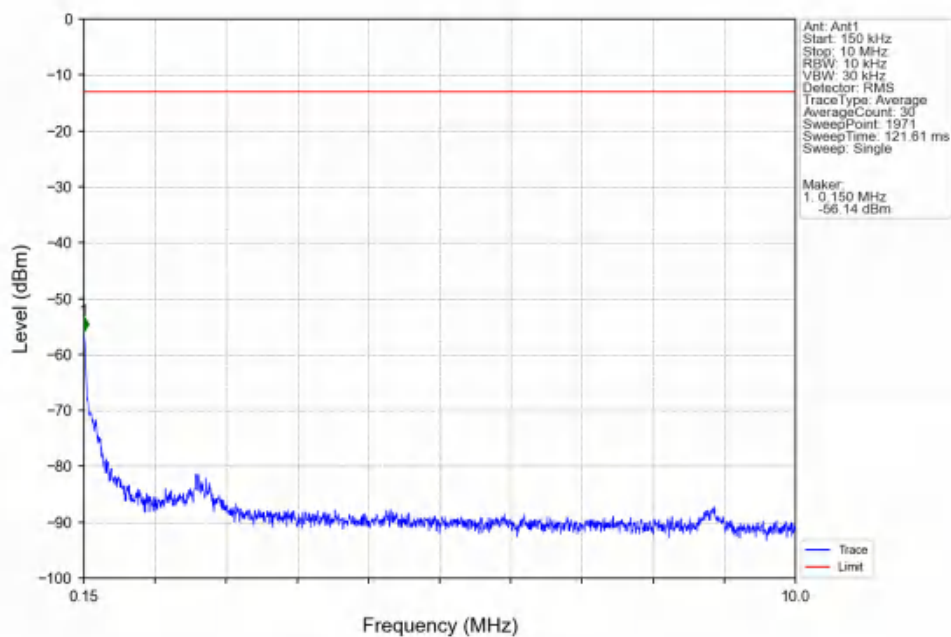
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



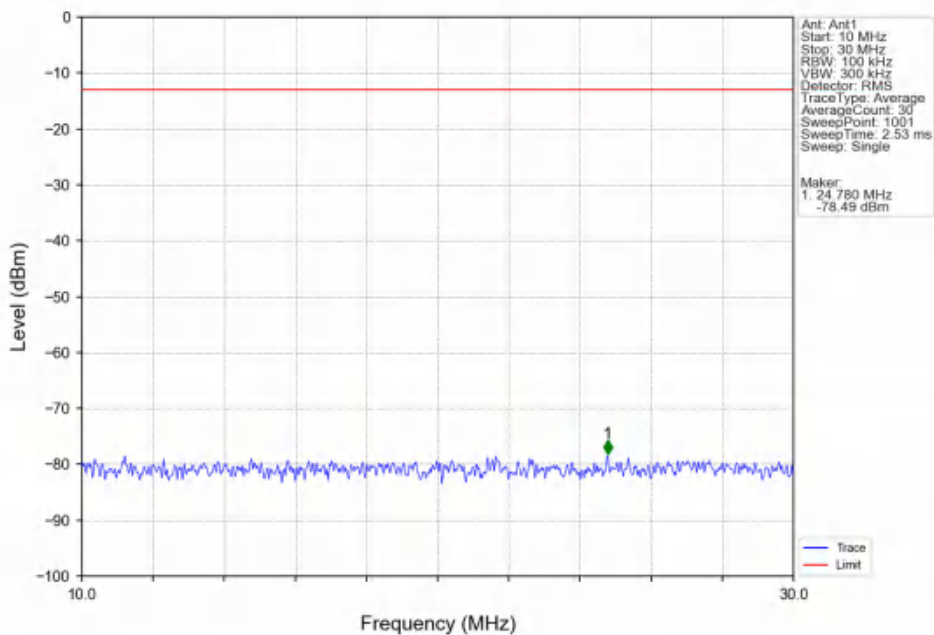
Band12 10MHz 16QAM HCH 711MHz RB 1 0 NTNV



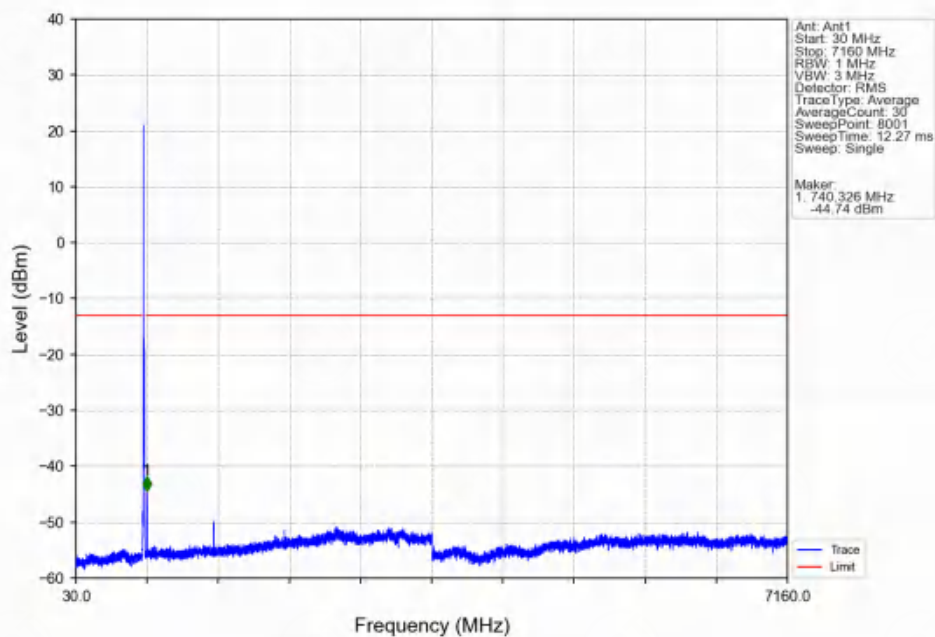
Band12 10MHz 16QAM HCH 711MHz RB 1 0 NTNV



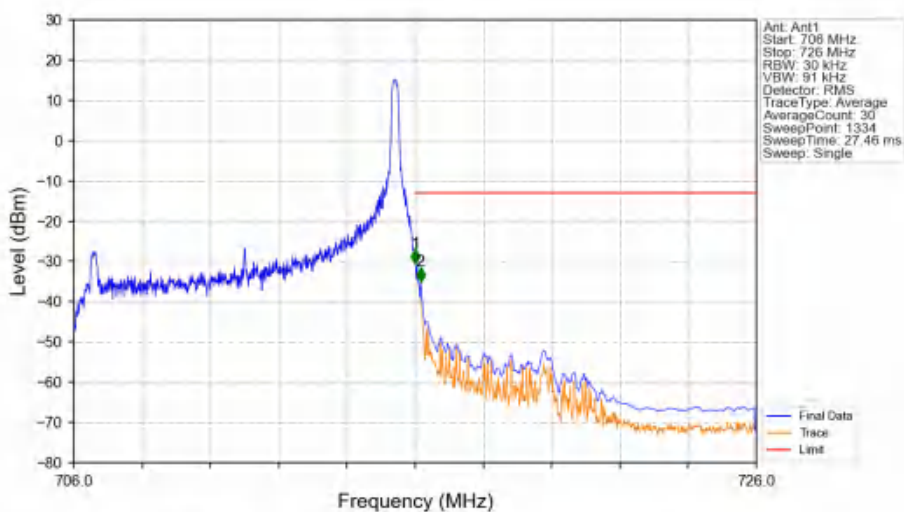
Band12 10MHz 16QAM HCH 711MHz RB 1 0 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 1 0 NTNV

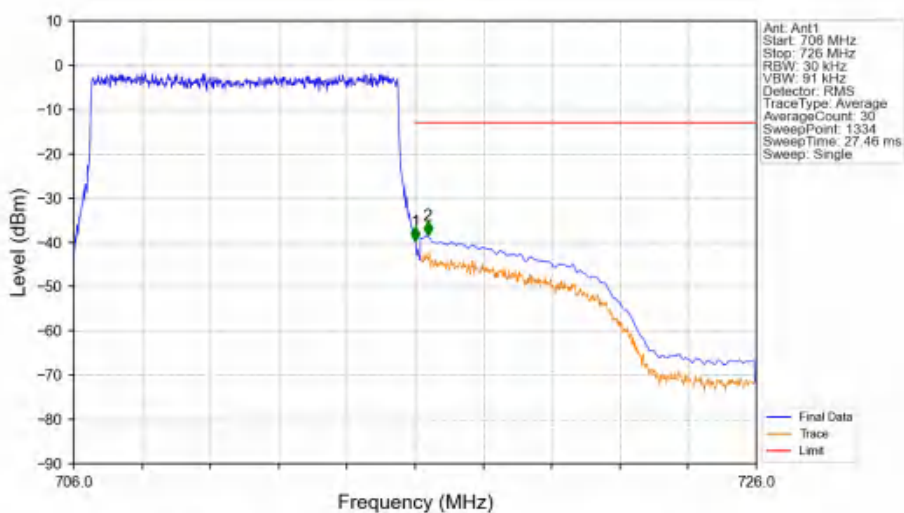


Band12 10MHz 16QAM HCH 711MHz RB 1 49 NTNV



| 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          | 716.008    | -30.45      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -34.96      | -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          | 716.008    | -39.74      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.368    | -38.46      | -13         | Pass   |