

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B12\_1.4MHz\_ERP

| Band: 12 / Bandwidth: 1.4MHz / NTN |                 |               |        |                       |            |           |         |         |      |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                               | 699.7           | 1             | 0      | 23.49                 | 2.01       | 23.35     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.57                 | 2.01       | 23.43     | <=34.77 | Pass    |      |
|                                    |                 |               | 5      | 23.38                 | 2.01       | 23.24     | <=34.77 | Pass    |      |
|                                    |                 | 3             | 0      | 23.53                 | 2.01       | 23.39     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.52                 | 2.01       | 23.38     | <=34.77 | Pass    |      |
|                                    |                 |               | 3      | 23.61                 | 2.01       | 23.47     | <=34.77 | Pass    |      |
|                                    | 6               | 0             | 22.60  | 2.01                  | 22.46      | <=34.77   | Pass    |         |      |
|                                    | 707.5           | 1             | 0      | 23.69                 | 2.01       | 23.55     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.98                 | 2.01       | 23.84     | <=34.77 | Pass    |      |
|                                    |                 |               | 5      | 23.71                 | 2.01       | 23.57     | <=34.77 | Pass    |      |
|                                    |                 | 3             | 0      | 23.73                 | 2.01       | 23.59     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.93                 | 2.01       | 23.79     | <=34.77 | Pass    |      |
|                                    |                 |               | 3      | 23.87                 | 2.01       | 23.73     | <=34.77 | Pass    |      |
|                                    | 6               | 0             | 22.77  | 2.01                  | 22.63      | <=34.77   | Pass    |         |      |
|                                    | 715.3           | 1             | 0      | 23.76                 | 2.01       | 23.62     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.72                 | 2.01       | 23.58     | <=34.77 | Pass    |      |
|                                    |                 |               | 5      | 23.92                 | 2.01       | 23.78     | <=34.77 | Pass    |      |
|                                    |                 | 3             | 0      | 23.60                 | 2.01       | 23.46     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.85                 | 2.01       | 23.71     | <=34.77 | Pass    |      |
|                                    |                 |               | 3      | 23.61                 | 2.01       | 23.47     | <=34.77 | Pass    |      |
|                                    | 6               | 0             | 22.68  | 2.01                  | 22.54      | <=34.77   | Pass    |         |      |
|                                    | 16QAM           | 699.7         | 1      | 0                     | 22.81      | 2.01      | 22.67   | <=34.77 | Pass |
|                                    |                 |               |        | 2                     | 23.08      | 2.01      | 22.94   | <=34.77 | Pass |
|                                    |                 |               |        | 5                     | 22.88      | 2.01      | 22.74   | <=34.77 | Pass |
| 3                                  |                 |               | 0      | 22.64                 | 2.01       | 22.50     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 22.50                 | 2.01       | 22.36     | <=34.77 | Pass    |      |
|                                    |                 |               | 3      | 22.54                 | 2.01       | 22.40     | <=34.77 | Pass    |      |
| 6                                  |                 | 0             | 21.74  | 2.01                  | 21.60      | <=34.77   | Pass    |         |      |
| 707.5                              |                 | 1             | 0      | 22.96                 | 2.01       | 22.82     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.10                 | 2.01       | 22.96     | <=34.77 | Pass    |      |
|                                    |                 |               | 5      | 23.05                 | 2.01       | 22.91     | <=34.77 | Pass    |      |
|                                    |                 | 3             | 0      | 23.08                 | 2.01       | 22.94     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 22.72                 | 2.01       | 22.58     | <=34.77 | Pass    |      |
|                                    |                 |               | 3      | 23.03                 | 2.01       | 22.89     | <=34.77 | Pass    |      |
| 6                                  |                 | 0             | 21.82  | 2.01                  | 21.68      | <=34.77   | Pass    |         |      |
| 715.3                              |                 | 1             | 0      | 22.27                 | 2.01       | 22.13     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 23.06                 | 2.01       | 22.92     | <=34.77 | Pass    |      |
|                                    |                 |               | 5      | 22.97                 | 2.01       | 22.83     | <=34.77 | Pass    |      |
|                                    |                 | 3             | 0      | 22.38                 | 2.01       | 22.24     | <=34.77 | Pass    |      |
|                                    |                 |               | 2      | 22.74                 | 2.01       | 22.60     | <=34.77 | Pass    |      |
|                                    |                 |               | 3      | 22.79                 | 2.01       | 22.65     | <=34.77 | Pass    |      |
| 6                                  |                 | 0             | 21.52  | 2.01                  | 21.38      | <=34.77   | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B12\_3MHz\_ERP

| Band: 12 / Bandwidth: 3MHz / NTN |                 |               |        |                       |            |           |       |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |       | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit |         |

|       |       |       |       |       |         |         |         |      |
|-------|-------|-------|-------|-------|---------|---------|---------|------|
| QPSK  | 700.5 | 1     | 0     | 23.48 | 2.01    | 23.34   | <=34.77 | Pass |
|       |       |       | 7     | 23.51 | 2.01    | 23.37   | <=34.77 | Pass |
|       |       |       | 14    | 23.37 | 2.01    | 23.23   | <=34.77 | Pass |
|       |       | 8     | 0     | 22.59 | 2.01    | 22.45   | <=34.77 | Pass |
|       |       |       | 4     | 22.56 | 2.01    | 22.42   | <=34.77 | Pass |
|       | 7     |       | 22.52 | 2.01  | 22.38   | <=34.77 | Pass    |      |
|       | 15    | 0     | 22.61 | 2.01  | 22.47   | <=34.77 | Pass    |      |
|       | 707.5 | 1     | 0     | 23.70 | 2.01    | 23.56   | <=34.77 | Pass |
|       |       |       | 7     | 23.96 | 2.01    | 23.82   | <=34.77 | Pass |
|       |       |       | 14    | 23.87 | 2.01    | 23.73   | <=34.77 | Pass |
|       |       | 8     | 0     | 22.65 | 2.01    | 22.51   | <=34.77 | Pass |
|       |       |       | 4     | 22.71 | 2.01    | 22.57   | <=34.77 | Pass |
|       | 7     |       | 22.66 | 2.01  | 22.52   | <=34.77 | Pass    |      |
|       | 15    | 0     | 22.62 | 2.01  | 22.48   | <=34.77 | Pass    |      |
|       | 714.5 | 1     | 0     | 23.63 | 2.01    | 23.49   | <=34.77 | Pass |
| 7     |       |       | 23.74 | 2.01  | 23.60   | <=34.77 | Pass    |      |
| 14    |       |       | 23.71 | 2.01  | 23.57   | <=34.77 | Pass    |      |
| 8     |       | 0     | 22.61 | 2.01  | 22.47   | <=34.77 | Pass    |      |
|       |       | 4     | 22.70 | 2.01  | 22.56   | <=34.77 | Pass    |      |
|       | 7     | 22.84 | 2.01  | 22.70 | <=34.77 | Pass    |         |      |
| 15    | 0     | 22.60 | 2.01  | 22.46 | <=34.77 | Pass    |         |      |
| 16QAM | 700.5 | 1     | 0     | 22.38 | 2.01    | 22.24   | <=34.77 | Pass |
|       |       |       | 7     | 22.76 | 2.01    | 22.62   | <=34.77 | Pass |
|       |       |       | 14    | 22.69 | 2.01    | 22.55   | <=34.77 | Pass |
|       |       | 8     | 0     | 21.68 | 2.01    | 21.54   | <=34.77 | Pass |
|       |       |       | 4     | 21.44 | 2.01    | 21.30   | <=34.77 | Pass |
|       | 7     |       | 21.30 | 2.01  | 21.16   | <=34.77 | Pass    |      |
|       | 15    | 0     | 21.54 | 2.01  | 21.40   | <=34.77 | Pass    |      |
|       | 707.5 | 1     | 0     | 22.95 | 2.01    | 22.81   | <=34.77 | Pass |
|       |       |       | 7     | 22.96 | 2.01    | 22.82   | <=34.77 | Pass |
|       |       |       | 14    | 22.78 | 2.01    | 22.64   | <=34.77 | Pass |
|       |       | 8     | 0     | 21.66 | 2.01    | 21.52   | <=34.77 | Pass |
|       |       |       | 4     | 21.74 | 2.01    | 21.60   | <=34.77 | Pass |
|       | 7     |       | 21.79 | 2.01  | 21.65   | <=34.77 | Pass    |      |
|       | 15    | 0     | 21.76 | 2.01  | 21.62   | <=34.77 | Pass    |      |
|       | 714.5 | 1     | 0     | 22.91 | 2.01    | 22.77   | <=34.77 | Pass |
| 7     |       |       | 23.02 | 2.01  | 22.88   | <=34.77 | Pass    |      |
| 14    |       |       | 22.91 | 2.01  | 22.77   | <=34.77 | Pass    |      |
| 8     |       | 0     | 21.50 | 2.01  | 21.36   | <=34.77 | Pass    |      |
|       |       | 4     | 21.74 | 2.01  | 21.60   | <=34.77 | Pass    |      |
|       | 7     | 22.14 | 2.01  | 22.00 | <=34.77 | Pass    |         |      |
| 15    | 0     | 21.75 | 2.01  | 21.61 | <=34.77 | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B12\_5MHz\_ERP

| Band: 12 / Bandwidth: 5MHz / NTN |                 |               |        |                       |            |           |         |         |      |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                             | 701.5           | 1             | 0      | 23.34                 | 2.01       | 23.20     | <=34.77 | Pass    |      |
|                                  |                 |               | 13     | 23.45                 | 2.01       | 23.31     | <=34.77 | Pass    |      |
|                                  |                 |               | 24     | 23.26                 | 2.01       | 23.12     | <=34.77 | Pass    |      |
|                                  |                 | 12            | 0      | 22.62                 | 2.01       | 22.48     | <=34.77 | Pass    |      |
|                                  |                 |               | 6      | 22.64                 | 2.01       | 22.50     | <=34.77 | Pass    |      |
|                                  | 707.5           | 1             | 13     | 22.48                 | 2.01       | 22.34     | <=34.77 | Pass    |      |
|                                  |                 |               | 25     | 0                     | 22.62      | 2.01      | 22.48   | <=34.77 | Pass |
|                                  |                 |               | 0      | 23.44                 | 2.01       | 23.30     | <=34.77 | Pass    |      |
|                                  |                 | 1             | 13     | 23.58                 | 2.01       | 23.44     | <=34.77 | Pass    |      |
|                                  |                 |               | 24     | 23.50                 | 2.01       | 23.36     | <=34.77 | Pass    |      |

|       |       |       |       |       |         |         |         |         |      |
|-------|-------|-------|-------|-------|---------|---------|---------|---------|------|
|       | 713.5 | 12    | 0     | 22.70 | 2.01    | 22.56   | <=34.77 | Pass    |      |
|       |       |       | 6     | 22.78 | 2.01    | 22.64   | <=34.77 | Pass    |      |
|       |       |       | 13    | 22.75 | 2.01    | 22.61   | <=34.77 | Pass    |      |
|       |       | 25    | 0     | 22.69 | 2.01    | 22.55   | <=34.77 | Pass    |      |
|       |       |       | 1     | 0     | 23.63   | 2.01    | 23.49   | <=34.77 | Pass |
|       |       |       |       | 13    | 23.55   | 2.01    | 23.41   | <=34.77 | Pass |
|       | 12    | 24    | 23.60 | 2.01  | 23.46   | <=34.77 | Pass    |         |      |
|       |       | 0     | 22.58 | 2.01  | 22.44   | <=34.77 | Pass    |         |      |
|       |       | 6     | 22.53 | 2.01  | 22.39   | <=34.77 | Pass    |         |      |
|       | 16QAM | 701.5 | 1     | 13    | 22.05   | 2.01    | 21.91   | <=34.77 | Pass |
|       |       |       |       | 24    | 21.90   | 2.01    | 21.76   | <=34.77 | Pass |
|       |       |       |       | 0     | 21.60   | 2.01    | 21.46   | <=34.77 | Pass |
| 12    |       |       | 6     | 21.64 | 2.01    | 21.50   | <=34.77 | Pass    |      |
|       |       |       | 13    | 21.45 | 2.01    | 21.31   | <=34.77 | Pass    |      |
|       |       |       | 25    | 0     | 21.46   | 2.01    | 21.32   | <=34.77 | Pass |
| 707.5 |       | 1     | 0     | 22.41 | 2.01    | 22.27   | <=34.77 | Pass    |      |
|       |       |       | 13    | 23.27 | 2.01    | 23.13   | <=34.77 | Pass    |      |
|       |       |       | 24    | 23.08 | 2.01    | 22.94   | <=34.77 | Pass    |      |
|       |       | 12    | 0     | 21.44 | 2.01    | 21.30   | <=34.77 | Pass    |      |
|       |       |       | 6     | 21.37 | 2.01    | 21.23   | <=34.77 | Pass    |      |
|       |       |       | 13    | 21.59 | 2.01    | 21.45   | <=34.77 | Pass    |      |
| 25    | 0     | 21.49 | 2.01  | 21.35 | <=34.77 | Pass    |         |         |      |
| 713.5 | 1     | 0     | 22.75 | 2.01  | 22.61   | <=34.77 | Pass    |         |      |
|       |       | 13    | 22.37 | 2.01  | 22.23   | <=34.77 | Pass    |         |      |
|       |       | 24    | 22.35 | 2.01  | 22.21   | <=34.77 | Pass    |         |      |
|       | 12    | 0     | 21.59 | 2.01  | 21.45   | <=34.77 | Pass    |         |      |
|       |       | 6     | 21.38 | 2.01  | 21.24   | <=34.77 | Pass    |         |      |
|       |       | 13    | 21.62 | 2.01  | 21.48   | <=34.77 | Pass    |         |      |
| 25    | 0     | 21.67 | 2.01  | 21.53 | <=34.77 | Pass    |         |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

#### 1.1.4 B12\_10MHz\_ERP

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |      |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                               | 704             | 1             | 0      | 23.47                 | 2.01       | 23.33     | <=34.77 | Pass    |      |
|                                    |                 |               | 25     | 23.39                 | 2.01       | 23.25     | <=34.77 | Pass    |      |
|                                    |                 |               | 49     | 23.62                 | 2.01       | 23.48     | <=34.77 | Pass    |      |
|                                    |                 | 25            | 0      | 22.59                 | 2.01       | 22.45     | <=34.77 | Pass    |      |
|                                    |                 |               | 13     | 22.52                 | 2.01       | 22.38     | <=34.77 | Pass    |      |
|                                    |                 |               | 25     | 22.78                 | 2.01       | 22.64     | <=34.77 | Pass    |      |
|                                    |                 | 50            | 0      | 22.68                 | 2.01       | 22.54     | <=34.77 | Pass    |      |
|                                    |                 | 707.5         | 1      | 0                     | 23.42      | 2.01      | 23.28   | <=34.77 | Pass |
|                                    |                 |               |        | 25                    | 24.05      | 2.01      | 23.91   | <=34.77 | Pass |
|                                    | 49              |               |        | 23.34                 | 2.01       | 23.20     | <=34.77 | Pass    |      |
|                                    | 25              |               | 0      | 22.61                 | 2.01       | 22.47     | <=34.77 | Pass    |      |
|                                    |                 |               | 13     | 22.68                 | 2.01       | 22.54     | <=34.77 | Pass    |      |
|                                    |                 |               | 25     | 22.70                 | 2.01       | 22.56     | <=34.77 | Pass    |      |
|                                    | 50              |               | 0      | 22.67                 | 2.01       | 22.53     | <=34.77 | Pass    |      |
|                                    | 711             |               | 1      | 0                     | 23.58      | 2.01      | 23.44   | <=34.77 | Pass |
|                                    |                 |               |        | 25                    | 23.94      | 2.01      | 23.80   | <=34.77 | Pass |
|                                    |                 | 49            |        | 23.50                 | 2.01       | 23.36     | <=34.77 | Pass    |      |
|                                    |                 | 25            | 0      | 22.89                 | 2.01       | 22.75     | <=34.77 | Pass    |      |
|                                    |                 |               | 13     | 22.63                 | 2.01       | 22.49     | <=34.77 | Pass    |      |
|                                    |                 |               | 25     | 22.72                 | 2.01       | 22.58     | <=34.77 | Pass    |      |

|       |     |                                              |    |       |       |       |         |         |      |  |
|-------|-----|----------------------------------------------|----|-------|-------|-------|---------|---------|------|--|
|       |     | 50                                           | 0  | 22.82 | 2.01  | 22.68 | <=34.77 | Pass    |      |  |
| 16QAM | 704 | 1                                            | 0  | 22.88 | 2.01  | 22.74 | <=34.77 | Pass    |      |  |
|       |     |                                              | 25 | 23.02 | 2.01  | 22.88 | <=34.77 | Pass    |      |  |
|       |     |                                              | 49 | 23.58 | 2.01  | 23.44 | <=34.77 | Pass    |      |  |
|       |     |                                              | 0  | 21.68 | 2.01  | 21.54 | <=34.77 | Pass    |      |  |
|       |     | 25                                           | 13 | 21.61 | 2.01  | 21.47 | <=34.77 | Pass    |      |  |
|       |     |                                              | 25 | 21.80 | 2.01  | 21.66 | <=34.77 | Pass    |      |  |
|       |     |                                              | 50 | 0     | 21.66 | 2.01  | 21.52   | <=34.77 | Pass |  |
|       |     | 707.5                                        | 1  | 0     | 23.16 | 2.01  | 23.02   | <=34.77 | Pass |  |
|       |     |                                              |    | 25    | 23.73 | 2.01  | 23.59   | <=34.77 | Pass |  |
|       | 49  |                                              |    | 23.03 | 2.01  | 22.89 | <=34.77 | Pass    |      |  |
|       | 0   |                                              |    | 21.75 | 2.01  | 21.61 | <=34.77 | Pass    |      |  |
|       | 25  |                                              | 13 | 21.85 | 2.01  | 21.71 | <=34.77 | Pass    |      |  |
|       |     |                                              | 25 | 21.75 | 2.01  | 21.61 | <=34.77 | Pass    |      |  |
|       |     |                                              | 50 | 0     | 21.54 | 2.01  | 21.40   | <=34.77 | Pass |  |
|       | 711 |                                              | 1  | 0     | 22.47 | 2.01  | 22.33   | <=34.77 | Pass |  |
|       |     |                                              |    | 25    | 22.79 | 2.01  | 22.65   | <=34.77 | Pass |  |
|       |     | 49                                           |    | 23.23 | 2.01  | 23.09 | <=34.77 | Pass    |      |  |
|       |     | 0                                            |    | 21.93 | 2.01  | 21.79 | <=34.77 | Pass    |      |  |
|       |     | 25                                           | 13 | 21.70 | 2.01  | 21.56 | <=34.77 | Pass    |      |  |
|       |     |                                              | 25 | 21.82 | 2.01  | 21.68 | <=34.77 | Pass    |      |  |
|       |     |                                              | 50 | 0     | 21.73 | 2.01  | 21.59   | <=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          | 3.4           | -1.111           | -0.0016               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 3.8           | -1.157           | -0.0017               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 4.2           | -1.384           | -0.0020               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | -30         | 3.8           | -0.695           | -0.0010               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | -20           | 3.8              | -0.801                | -0.0011     | -2.5 to 2.5 | Pass |
|                              |                 |               |         |             |               | 3.8              | -1.588                | -0.0023     | -2.5 to 2.5 | Pass |
|                              |                 |               |         | 0           | 3.8           | -1.018           | -0.0015               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 10          | 3.8           | -1.531           | -0.0022               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 30          | 3.8           | 0.346            | 0.0005                | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 40          | 3.8           | -1.500           | -0.0021               | -2.5 to 2.5 | Pass        |      |
|                              | 50              | 3.8           | -0.290  | -0.0004     | -2.5 to 2.5   | Pass             |                       |             |             |      |
|                              | 707.5           | 6             | 0       | 20          | 3.4           | -1.628           | -0.0023               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 3.8           | -1.347           | -0.0019               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 4.2           | -1.903           | -0.0027               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | -30         | 3.8           | -0.928           | -0.0013               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | -20           | 3.8              | -0.330                | -0.0005     | -2.5 to 2.5 | Pass |
|                              |                 |               |         |             |               | 3.8              | 0.019                 | 0.0000      | -2.5 to 2.5 | Pass |
|                              |                 |               |         | 0           | 3.8           | -0.209           | -0.0003               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 10          | 3.8           | -1.427           | -0.0020               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 30          | 3.8           | -0.305           | -0.0004               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 40          | 3.8           | -1.599           | -0.0023               | -2.5 to 2.5 | Pass        |      |
|                              | 50              | 3.8           | -1.427  | -0.0020     | -2.5 to 2.5   | Pass             |                       |             |             |      |
|                              | 715.3           | 6             | 0       | 20          | 3.4           | 0.148            | 0.0002                | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 3.8           | -1.245           | -0.0017               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 4.2           | -1.267           | -0.0018               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | -30         | 3.8           | -1.828           | -0.0026               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | -20           | 3.8              | -1.580                | -0.0022     | -2.5 to 2.5 | Pass |
|                              |                 |               |         |             |               | 3.8              | -0.604                | -0.0008     | -2.5 to 2.5 | Pass |
|                              |                 |               |         | 0           | 3.8           | -0.954           | -0.0013               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 10          | 3.8           | -1.214           | -0.0017               | -2.5 to 2.5 | Pass        |      |
| 30                           |                 |               |         | 3.8         | -0.580        | -0.0008          | -2.5 to 2.5           | Pass        |             |      |
| 40                           |                 |               |         | 3.8         | -0.942        | -0.0013          | -2.5 to 2.5           | Pass        |             |      |
| 50                           | 3.8             | -1.885        | -0.0026 | -2.5 to 2.5 | Pass          |                  |                       |             |             |      |
| 16QAM                        | 699.7           | 6             | 0       | 20          | 3.4           | -1.012           | -0.0014               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 3.8           | -0.362           | -0.0005               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 4.2           | -1.729           | -0.0025               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | -30         | 3.8           | -0.241           | -0.0003               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | -20           | 3.8              | -0.342                | -0.0005     | -2.5 to 2.5 | Pass |
|                              |                 |               |         |             |               | 3.8              | -0.883                | -0.0013     | -2.5 to 2.5 | Pass |
|                              |                 |               |         | 0           | 3.8           | -0.814           | -0.0012               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 10          | 3.8           | -0.496           | -0.0007               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 30          | 3.8           | -0.126           | -0.0002               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | 40          | 3.8           | 0.068            | 0.0001                | -2.5 to 2.5 | Pass        |      |
|                              | 50              | 3.8           | -1.400  | -0.0020     | -2.5 to 2.5   | Pass             |                       |             |             |      |
|                              | 707.5           | 6             | 0       | 20          | 3.4           | -0.374           | -0.0005               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 3.8           | -0.298           | -0.0004               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         |             | 4.2           | -0.772           | -0.0011               | -2.5 to 2.5 | Pass        |      |
|                              |                 |               |         | -30         | 3.8           | -0.483           | -0.0007               | -2.5 to 2.5 | Pass        |      |

|  |       |     |       |        |             |        |         |             |             |      |
|--|-------|-----|-------|--------|-------------|--------|---------|-------------|-------------|------|
|  |       |     |       | -20    | 3.8         | -0.103 | -0.0001 | -2.5 to 2.5 | Pass        |      |
|  |       |     |       | -10    | 3.8         | 0.368  | 0.0005  | -2.5 to 2.5 | Pass        |      |
|  |       |     |       | 0      | 3.8         | 0.392  | 0.0006  | -2.5 to 2.5 | Pass        |      |
|  |       |     |       | 10     | 3.8         | -0.093 | -0.0001 | -2.5 to 2.5 | Pass        |      |
|  |       |     |       | 30     | 3.8         | -0.811 | -0.0011 | -2.5 to 2.5 | Pass        |      |
|  |       |     |       | 40     | 3.8         | 0.794  | 0.0011  | -2.5 to 2.5 | Pass        |      |
|  | 50    | 3.8 | 0.460 | 0.0007 | -2.5 to 2.5 | Pass   |         |             |             |      |
|  | 715.3 | 6   |       | 0      | 20          | 3.4    | -0.792  | -0.0011     | -2.5 to 2.5 | Pass |
|  |       |     |       |        |             | 3.8    | -1.157  | -0.0016     | -2.5 to 2.5 | Pass |
|  |       |     |       |        |             | 4.2    | -0.566  | -0.0008     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | -30         | 3.8    | -1.489  | -0.0021     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | -20         | 3.8    | -0.175  | -0.0002     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | -10         | 3.8    | -0.466  | -0.0007     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | 0           | 3.8    | -1.751  | -0.0024     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | 10          | 3.8    | -1.310  | -0.0018     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | 30          | 3.8    | -0.831  | -0.0012     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | 40          | 3.8    | -1.396  | -0.0020     | -2.5 to 2.5 | Pass |
|  |       |     |       |        | 50          | 3.8    | -0.409  | -0.0006     | -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         | 3.4           | -2.458           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |            | 3.8           | -1.349           | -0.0019               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         |            | 4.2           | -2.685           | -0.0038               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30        | 3.8           | -2.409           | -0.0034               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20        | 3.8           | -1.117           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10        | 3.8           | -2.250           | -0.0032               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0          | 3.8           | -1.228           | -0.0018               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10         | 3.8           | -2.321           | -0.0033               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 30         | 3.8           | -0.423           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 40         | 3.8           | -0.859           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 50         | 3.8           | -1.694           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 707.5      | 15            | 0                | 20                    | 3.4         | -1.884  |
|                            | 3.8             | -1.643        | -0.0023 |            |               |                  |                       | -2.5 to 2.5 | Pass    |
|                            | 4.2             | -1.012        | -0.0014 |            |               |                  |                       | -2.5 to 2.5 | Pass    |
|                            | -30             | 3.8           | -1.033  |            |               |                  | -0.0015               | -2.5 to 2.5 | Pass    |
|                            | -20             | 3.8           | -0.675  |            |               |                  | -0.0010               | -2.5 to 2.5 | Pass    |
|                            | -10             | 3.8           | -1.678  |            |               |                  | -0.0024               | -2.5 to 2.5 | Pass    |
|                            | 0               | 3.8           | -1.102  |            |               |                  | -0.0016               | -2.5 to 2.5 | Pass    |
|                            | 10              | 3.8           | -1.289  |            |               |                  | -0.0018               | -2.5 to 2.5 | Pass    |
|                            | 30              | 3.8           | -0.106  |            |               |                  | -0.0001               | -2.5 to 2.5 | Pass    |
|                            | 40              | 3.8           | -0.634  |            |               |                  | -0.0009               | -2.5 to 2.5 | Pass    |
|                            | 50              | 3.8           | -1.720  |            |               |                  | -0.0024               | -2.5 to 2.5 | Pass    |
|                            | 714.5           | 15            | 0       |            |               |                  | 20                    | 3.4         | -0.478  |
|                            |                 |               |         | 3.8        | -0.074        | -0.0001          |                       | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 4.2        | 0.370         | 0.0005           |                       | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -30        | 3.8           | 1.242            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -20        | 3.8           | 0.506            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | -10        | 3.8           | -0.765           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 0          | 3.8           | 0.103            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |         | 10         | 3.8           | -0.231           | -0.0003               | -2.5 to 2.5 | Pass    |
| 30                         |                 |               |         | 3.8        | -0.587        | -0.0008          | -2.5 to 2.5           | Pass        |         |
| 40                         |                 |               |         | 3.8        | 0.461         | 0.0006           | -2.5 to 2.5           | Pass        |         |
| 50                         |                 |               |         | 3.8        | 0.236         | 0.0003           | -2.5 to 2.5           | Pass        |         |
| 16QAM                      |                 |               |         | 700.5      | 15            | 0                | 20                    | 3.4         | -0.530  |
|                            | 3.8             | -2.335        | -0.0033 |            |               |                  |                       | -2.5 to 2.5 | Pass    |

|  |       |    |    |     |        |         |             |             |         |             |      |
|--|-------|----|----|-----|--------|---------|-------------|-------------|---------|-------------|------|
|  |       |    |    |     | 4.2    | -1.554  | -0.0022     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | -30 | 3.8    | -2.617  | -0.0037     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | -20 | 3.8    | -1.406  | -0.0020     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | -10 | 3.8    | -1.683  | -0.0024     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | 0   | 3.8    | -0.702  | -0.0010     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | 10  | 3.8    | -1.568  | -0.0022     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | 30  | 3.8    | -0.815  | -0.0012     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | 40  | 3.8    | -0.620  | -0.0009     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    | 50  | 3.8    | -1.146  | -0.0016     | -2.5 to 2.5 | Pass    |             |      |
|  | 707.5 | 15 | 0  | 20  | 3.4    | -1.276  | -0.0018     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    |     |        |         | 3.8         | -0.280      | -0.0004 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        |         | 4.2         | -0.644      | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | -30     | 3.8         | 0.652       | 0.0009  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | -20     | 3.8         | 0.126       | 0.0002  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | -10     | 3.8         | -1.092      | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 0       | 3.8         | -0.118      | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 10      | 3.8         | 0.264       | 0.0004  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 30      | 3.8         | -0.770      | -0.0011 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 40      | 3.8         | -0.814      | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    | 50 | 3.8 | -1.223 | -0.0017 | -2.5 to 2.5 | Pass        |         |             |      |
|  | 714.5 | 15 | 0  | 20  | 3.4    | -0.207  | -0.0003     | -2.5 to 2.5 | Pass    |             |      |
|  |       |    |    |     |        |         | 3.8         | -0.582      | -0.0008 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        |         | 4.2         | 0.575       | 0.0008  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | -30     | 3.8         | -1.218      | -0.0017 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | -20     | 3.8         | 0.372       | 0.0005  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | -10     | 3.8         | 0.118       | 0.0002  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 0       | 3.8         | -0.974      | -0.0014 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 10      | 3.8         | 0.842       | 0.0012  | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 30      | 3.8         | -0.149      | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |    |    |     |        | 40      | 3.8         | 0.976       | 0.0014  | -2.5 to 2.5 | Pass |
|  |       |    | 50 | 3.8 | -0.138 | -0.0002 | -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         | 3.4           | -0.726           | -0.0010               | -2.5 to 2.5 | Pass        |             |             |      |
|                            |                 |               |        |            |               | 3.8              | -1.151                | -0.0016     | -2.5 to 2.5 | Pass        |             |      |
|                            |                 |               |        |            |               | 4.2              | 0.373                 | 0.0005      | -2.5 to 2.5 | Pass        |             |      |
|                            |                 |               |        |            |               |                  | -30                   | 3.8         | -0.161      | -0.0002     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | -20                   | 3.8         | 1.069       | 0.0015      | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | -10                   | 3.8         | -0.345      | -0.0005     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 0                     | 3.8         | -0.958      | -0.0014     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 10                    | 3.8         | -0.156      | -0.0002     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 30                    | 3.8         | -1.307      | -0.0019     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 40                    | 3.8         | -0.214      | -0.0003     | -2.5 to 2.5 | Pass |
|                            |                 |               |        | 50         | 3.8           | -0.257           | -0.0004               | -2.5 to 2.5 | Pass        |             |             |      |
|                            |                 | 707.5         | 25     | 0          | 20            | 3.4              | 0.028                 | 0.0000      | -2.5 to 2.5 | Pass        |             |      |
|                            |                 |               |        |            |               |                  |                       | 3.8         | -1.569      | -0.0022     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  |                       | 4.2         | -0.492      | -0.0007     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | -30                   | 3.8         | -0.396      | -0.0006     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | -20                   | 3.8         | -1.478      | -0.0021     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | -10                   | 3.8         | -1.234      | -0.0017     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 0                     | 3.8         | -1.056      | -0.0015     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 10                    | 3.8         | -1.259      | -0.0018     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               |                  | 30                    | 3.8         | -1.867      | -0.0026     | -2.5 to 2.5 | Pass |
|                            |                 |               |        |            |               | 40               | 3.8                   | -0.240      | -0.0003     | -2.5 to 2.5 | Pass        |      |
|                            |                 |               | 50     | 3.8        | -1.089        | -0.0015          | -2.5 to 2.5           | Pass        |             |             |             |      |

|       |       |       |        |         |             |        |         |             |             |             |      |
|-------|-------|-------|--------|---------|-------------|--------|---------|-------------|-------------|-------------|------|
|       | 713.5 | 25    | 0      | 20      | 3.4         | 0.426  | 0.0006  | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 3.8         | 0.393  | 0.0006  | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 4.2         | -1.255 | -0.0018 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        | -30     | 3.8         | -0.038 | -0.0001 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | -20         | 3.8    | -0.233  | -0.0003     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         |             | 3.8    | -0.065  | -0.0001     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        | 0       | 3.8         | -0.147 | -0.0002 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 10          | 3.8    | -0.447  | -0.0006     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        | 30      | 3.8         | -0.488 | -0.0007 | -2.5 to 2.5 | Pass        |             |      |
|       | 40    | 3.8   | -0.668 | -0.0009 | -2.5 to 2.5 | Pass   |         |             |             |             |      |
|       | 50    | 3.8   | 0.519  | 0.0007  | -2.5 to 2.5 | Pass   |         |             |             |             |      |
|       | 16QAM | 701.5 | 25     | 0       | 20          | 3.4    | -0.433  | -0.0006     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         |             | 3.8    | -0.712  | -0.0010     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         |             | 4.2    | -1.103  | -0.0016     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         | -30         | 3.8    | -0.246  | -0.0004     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         |             | -20    | 3.8     | -0.103      | -0.0001     | -2.5 to 2.5 | Pass |
|       |       |       |        |         |             |        | 3.8     | -1.034      | -0.0015     | -2.5 to 2.5 | Pass |
|       |       |       |        |         | 0           | 3.8    | -1.516  | -0.0022     | -2.5 to 2.5 | Pass        |      |
| 10    |       |       |        |         |             | 3.8    | 0.543   | 0.0008      | -2.5 to 2.5 | Pass        |      |
| 30    |       |       |        |         | 3.8         | -0.443 | -0.0006 | -2.5 to 2.5 | Pass        |             |      |
| 40    |       | 3.8   | -0.093 | -0.0001 | -2.5 to 2.5 | Pass   |         |             |             |             |      |
| 50    |       | 3.8   | -0.939 | -0.0013 | -2.5 to 2.5 | Pass   |         |             |             |             |      |
| 707.5 |       | 25    | 0      | 20      | 3.4         | -0.738 | -0.0010 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 3.8         | 0.426  | 0.0006  | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 4.2         | -0.608 | -0.0009 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        | -30     | 3.8         | -0.901 | -0.0013 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | -20         | 3.8    | 0.652   | 0.0009      | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         |             | 3.8    | -0.661  | -0.0009     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        | 0       | 3.8         | -0.071 | -0.0001 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 10          | 3.8    | -0.806  | -0.0011     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        | 30      | 3.8         | 1.506  | 0.0021  | -2.5 to 2.5 | Pass        |             |      |
| 40    |       | 3.8   | 0.060  | 0.0001  | -2.5 to 2.5 | Pass   |         |             |             |             |      |
| 50    |       | 3.8   | 1.191  | 0.0017  | -2.5 to 2.5 | Pass   |         |             |             |             |      |
| 713.5 |       | 25    | 0      | 20      | 3.4         | -0.253 | -0.0004 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 3.8         | -0.256 | -0.0004 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 4.2         | -1.054 | -0.0015 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        | -30     | 3.8         | -0.172 | -0.0002 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | -20         | 3.8    | -1.575  | -0.0022     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        |         |             | 3.8    | -1.507  | -0.0021     | -2.5 to 2.5 | Pass        |      |
|       |       |       |        | 0       | 3.8         | -1.428 | -0.0020 | -2.5 to 2.5 | Pass        |             |      |
|       |       |       |        |         | 10          | 3.8    | 0.218   | 0.0003      | -2.5 to 2.5 | Pass        |      |
|       |       |       |        | 30      | 3.8         | -0.264 | -0.0004 | -2.5 to 2.5 | Pass        |             |      |
| 40    |       | 3.8   | -0.839 | -0.0012 | -2.5 to 2.5 | Pass   |         |             |             |             |      |
| 50    |       | 3.8   | -1.015 | -0.0014 | -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         | 3.4           | 0.268            | 0.0004                | -2.5 to 2.5 | Pass        |      |
|                             |                 |               |        |            | 3.8           | -0.759           | -0.0011               | -2.5 to 2.5 | Pass        |      |
|                             |                 |               |        |            | 4.2           | 0.089            | 0.0001                | -2.5 to 2.5 | Pass        |      |
|                             |                 |               |        | -30        | 3.8           | 0.178            | 0.0003                | -2.5 to 2.5 | Pass        |      |
|                             |                 |               |        |            | -20           | 3.8              | 0.446                 | 0.0006      | -2.5 to 2.5 | Pass |
|                             |                 |               |        |            |               | 3.8              | -0.792                | -0.0011     | -2.5 to 2.5 | Pass |
|                             |                 |               |        | 0          | 3.8           | 0.370            | 0.0005                | -2.5 to 2.5 | Pass        |      |
|                             |                 |               |        |            | 10            | 3.8              | -0.635                | -0.0009     | -2.5 to 2.5 | Pass |
|                             |                 |               |        | 30         | 3.8           | -1.298           | -0.0018               | -2.5 to 2.5 | Pass        |      |



|       |       |        |         |        |         |         |         |             |             |         |             |             |
|-------|-------|--------|---------|--------|---------|---------|---------|-------------|-------------|---------|-------------|-------------|
|       | 707.5 | 50     | 0       | 40     | 3.8     | 0.296   | 0.0004  | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 50     | 3.8     | -0.728  | -0.0010 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 20     | 3.4     | -0.219  | -0.0003 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         |        | 3.8     | -0.542  | -0.0008 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         |        | 4.2     | -1.479  | -0.0021 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | -30    | 3.8     | -0.083  | -0.0001 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | -20    | 3.8     | -1.286  | -0.0018 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | -10    | 3.8     | -0.190  | -0.0003 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 0      | 3.8     | -1.138  | -0.0016 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 10     | 3.8     | -0.550  | -0.0008 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 30     | 3.8     | -0.305  | -0.0004 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 40     | 3.8     | -0.143  | -0.0002 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 50     | 3.8     | -0.500  | -0.0007 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       |        |         | 711    | 50      | 0       | 20      | 3.4         | -0.749      | -0.0011 | -2.5 to 2.5 | Pass        |
|       |       |        |         |        |         |         |         | 3.8         | -0.282      | -0.0004 | -2.5 to 2.5 | Pass        |
|       | 4.2   | -1.753 | -0.0025 |        |         |         |         | -2.5 to 2.5 | Pass        |         |             |             |
|       | -30   | 3.8    | -1.262  |        |         |         | -0.0018 | -2.5 to 2.5 | Pass        |         |             |             |
|       | -20   | 3.8    | -2.758  |        |         |         | -0.0039 | -2.5 to 2.5 | Pass        |         |             |             |
|       | -10   | 3.8    | -1.872  |        |         |         | -0.0026 | -2.5 to 2.5 | Pass        |         |             |             |
|       | 0     | 3.8    | -0.780  |        |         |         | -0.0011 | -2.5 to 2.5 | Pass        |         |             |             |
|       | 10    | 3.8    | -2.980  |        |         |         | -0.0042 | -2.5 to 2.5 | Pass        |         |             |             |
|       | 30    | 3.8    | -2.631  |        |         |         | -0.0037 | -2.5 to 2.5 | Pass        |         |             |             |
|       | 40    | 3.8    | -1.500  |        |         |         | -0.0021 | -2.5 to 2.5 | Pass        |         |             |             |
|       | 50    | 3.8    | -2.513  |        |         |         | -0.0035 | -2.5 to 2.5 | Pass        |         |             |             |
|       | 16QAM | 704    | 50      |        |         |         | 0       | 20          | 3.4         | -1.630  | -0.0023     | -2.5 to 2.5 |
|       |       |        |         | 3.8    | -0.335  | -0.0005 |         |             | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | 4.2    | -1.435  | -0.0020 |         |             | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | -30    | 3.8     | -0.564  |         | -0.0008     | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | -20    | 3.8     | -0.408  |         | -0.0006     | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | -10    | 3.8     | -1.245  |         | -0.0018     | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | 0      | 3.8     | 0.645   |         | 0.0009      | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | 10     | 3.8     | -2.080  |         | -0.0030     | -2.5 to 2.5 | Pass    |             |             |
|       |       |        |         | 30     | 3.8     | -0.054  |         | -0.0001     | -2.5 to 2.5 | Pass    |             |             |
| 40    |       |        |         | 3.8    | -0.360  | -0.0005 |         | -2.5 to 2.5 | Pass        |         |             |             |
| 50    |       |        |         | 3.8    | 0.089   | 0.0001  |         | -2.5 to 2.5 | Pass        |         |             |             |
| 707.5 |       |        |         | 50     | 0       | 20      |         | 3.4         | -0.872      | -0.0012 | -2.5 to 2.5 | Pass        |
|       |       |        |         |        |         |         |         | 3.8         | -1.145      | -0.0016 | -2.5 to 2.5 | Pass        |
|       |       |        |         |        |         |         |         | 4.2         | 0.671       | 0.0009  | -2.5 to 2.5 | Pass        |
|       |       |        |         |        |         | -30     |         | 3.8         | -1.922      | -0.0027 | -2.5 to 2.5 | Pass        |
|       |       | -20    | 3.8     |        |         | -1.463  | -0.0021 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | -10    | 3.8     |        |         | -0.894  | -0.0013 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | 0      | 3.8     |        |         | -1.275  | -0.0018 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | 10     | 3.8     |        |         | -0.859  | -0.0012 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | 30     | 3.8     |        |         | -0.976  | -0.0014 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | 40     | 3.8     |        |         | -0.406  | -0.0006 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | 50     | 3.8     |        |         | -0.743  | -0.0011 | -2.5 to 2.5 | Pass        |         |             |             |
|       |       | 711    | 50      |        |         | 0       | 20      | 3.4         | -1.951      | -0.0027 | -2.5 to 2.5 | Pass        |
| 3.8   |       |        |         | -1.290 | -0.0018 |         |         | -2.5 to 2.5 | Pass        |         |             |             |
| 4.2   |       |        |         | -1.415 | -0.0020 |         |         | -2.5 to 2.5 | Pass        |         |             |             |
| -30   |       |        |         | 3.8    | -2.540  |         | -0.0036 | -2.5 to 2.5 | Pass        |         |             |             |
| -20   |       |        |         | 3.8    | -0.190  |         | -0.0003 | -2.5 to 2.5 | Pass        |         |             |             |
| -10   |       |        |         | 3.8    | -0.231  |         | -0.0003 | -2.5 to 2.5 | Pass        |         |             |             |
| 0     |       |        |         | 3.8    | -2.149  |         | -0.0030 | -2.5 to 2.5 | Pass        |         |             |             |
| 10    |       |        |         | 3.8    | -2.549  |         | -0.0036 | -2.5 to 2.5 | Pass        |         |             |             |
| 30    |       |        |         | 3.8    | -2.625  |         | -0.0037 | -2.5 to 2.5 | Pass        |         |             |             |
| 40    |       |        |         | 3.8    | -1.665  |         | -0.0023 | -2.5 to 2.5 | Pass        |         |             |             |
| 50    |       |        |         | 3.8    | -2.391  |         | -0.0034 | -2.5 to 2.5 | Pass        |         |             |             |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band12\_OBW

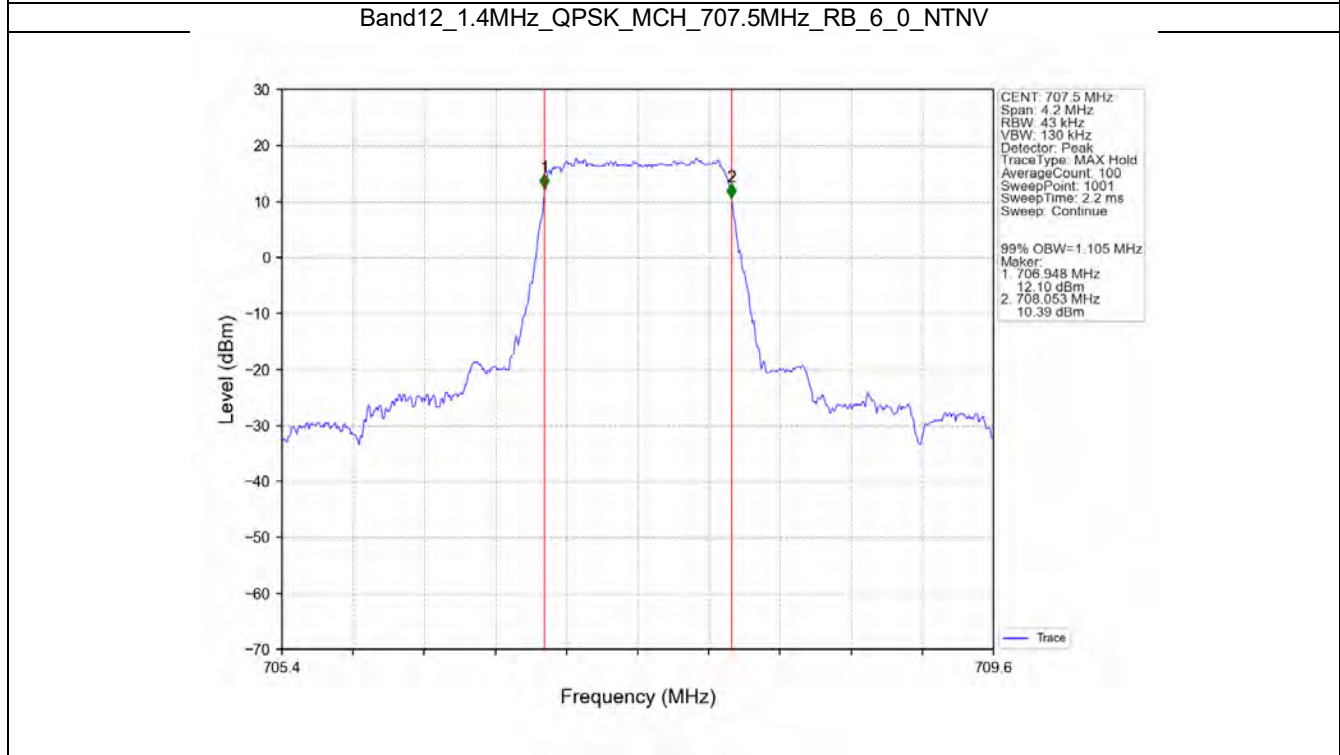
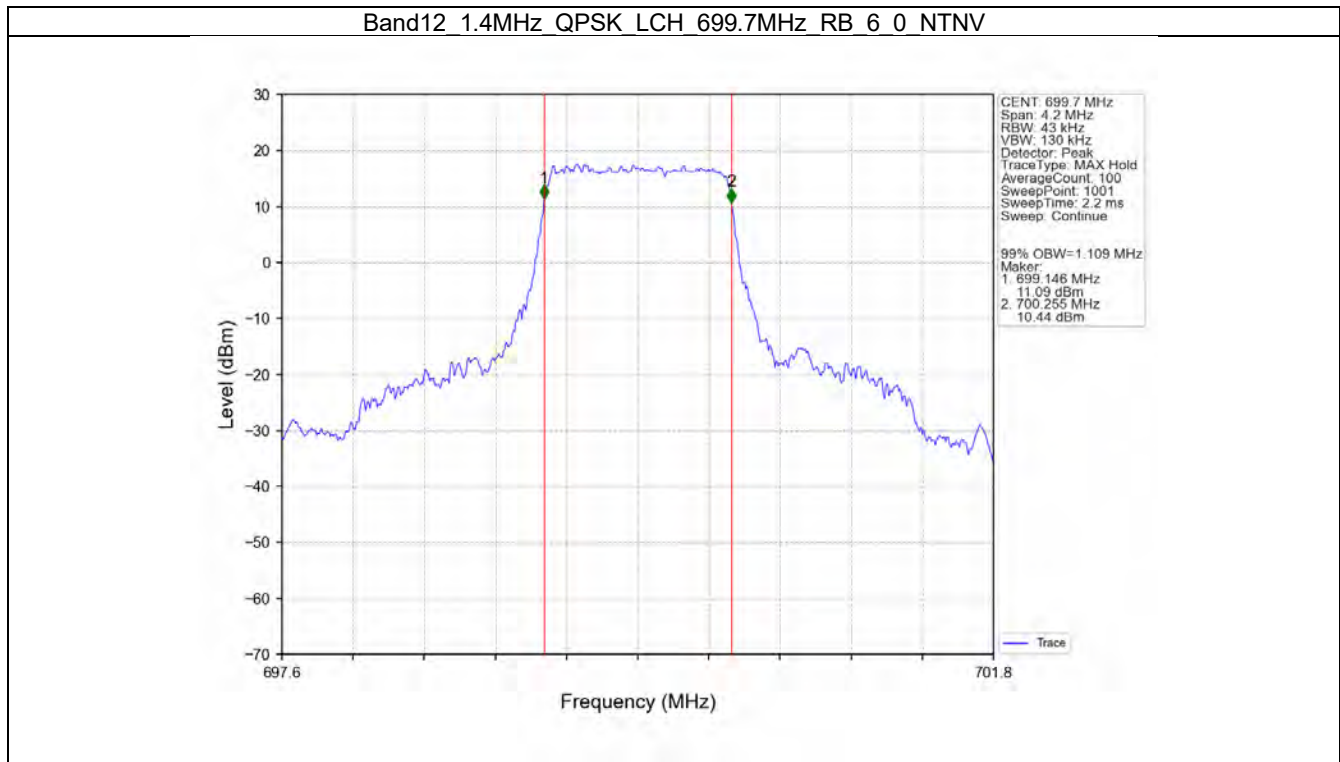
| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.109                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.105                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.110                        | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.109                        | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.116                        | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.112                        | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 2.735                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.737                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.752                        | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 2.726                        | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 2.737                        | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 2.750                        | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 4.575                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.546                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.571                        | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 4.541                        | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 4.564                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.562                        | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 9.084                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.025                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 8.983                        | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 9.086                        | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 9.028                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 8.983                        | /     | Pass    |

### 3.1.2 Band12\_XDB

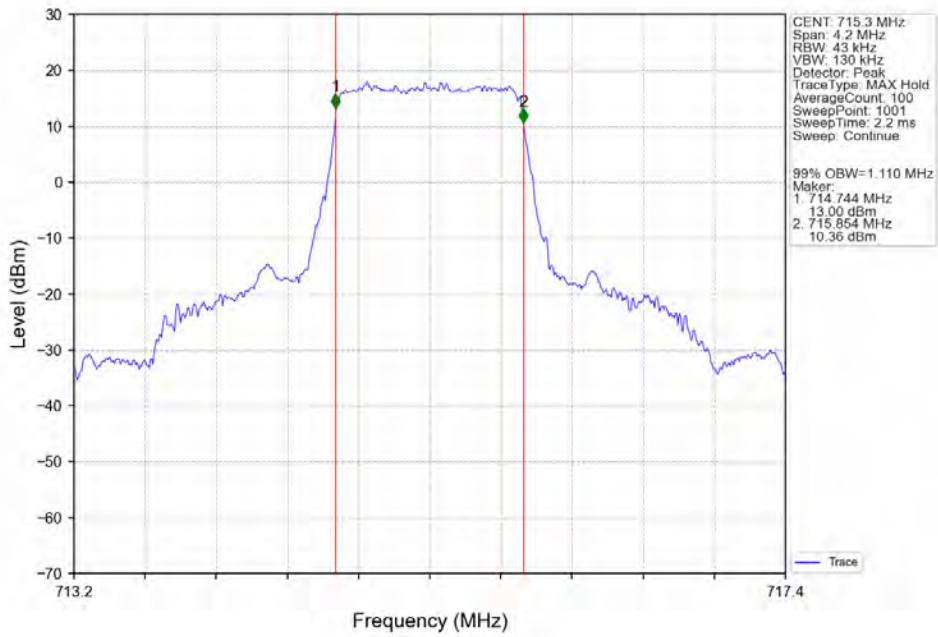
| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 699.7           | 6             | 0      | 1.381                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.313                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.326                | /     | Pass    |
|                 | 16QAM      | 699.7           | 6             | 0      | 1.325                | /     | Pass    |
|                 |            | 707.5           | 6             | 0      | 1.305                | /     | Pass    |
|                 |            | 715.3           | 6             | 0      | 1.348                | /     | Pass    |
| 3               | QPSK       | 700.5           | 15            | 0      | 3.070                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.023                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.080                | /     | Pass    |
|                 | 16QAM      | 700.5           | 15            | 0      | 3.028                | /     | Pass    |
|                 |            | 707.5           | 15            | 0      | 3.065                | /     | Pass    |
|                 |            | 714.5           | 15            | 0      | 3.064                | /     | Pass    |
| 5               | QPSK       | 701.5           | 25            | 0      | 5.059                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.106                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.100                | /     | Pass    |
|                 | 16QAM      | 701.5           | 25            | 0      | 5.044                | /     | Pass    |
|                 |            | 707.5           | 25            | 0      | 5.053                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.100                | /     | Pass    |
| 10              | QPSK       | 704             | 50            | 0      | 10.087               | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 10.061               | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.982                | /     | Pass    |
|                 | 16QAM      | 704             | 50            | 0      | 10.037               | /     | Pass    |
|                 |            | 707.5           | 50            | 0      | 10.110               | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.859                | /     | Pass    |

### 3.2 Test Graph

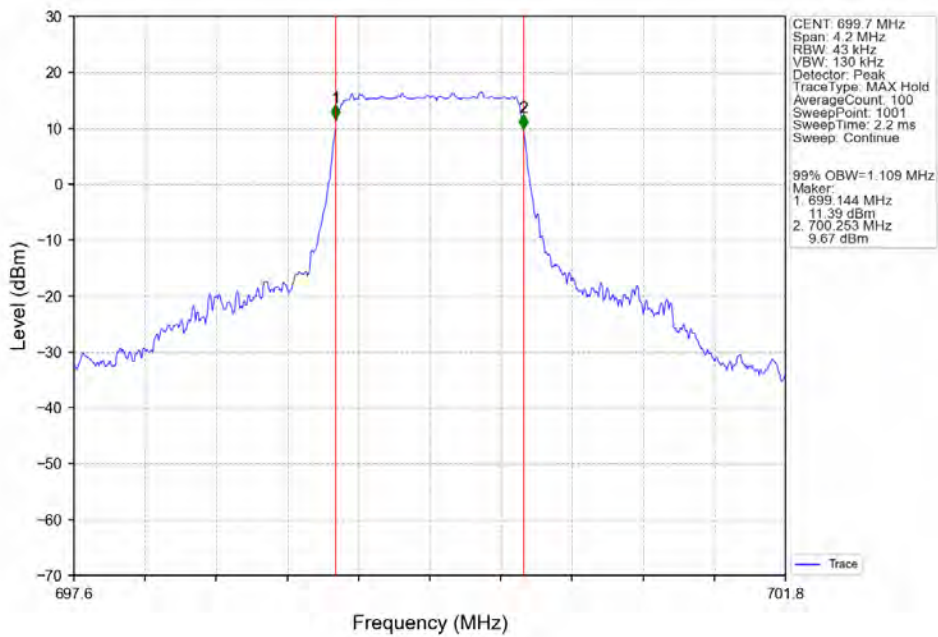
#### 3.2.1 Band12\_OBW



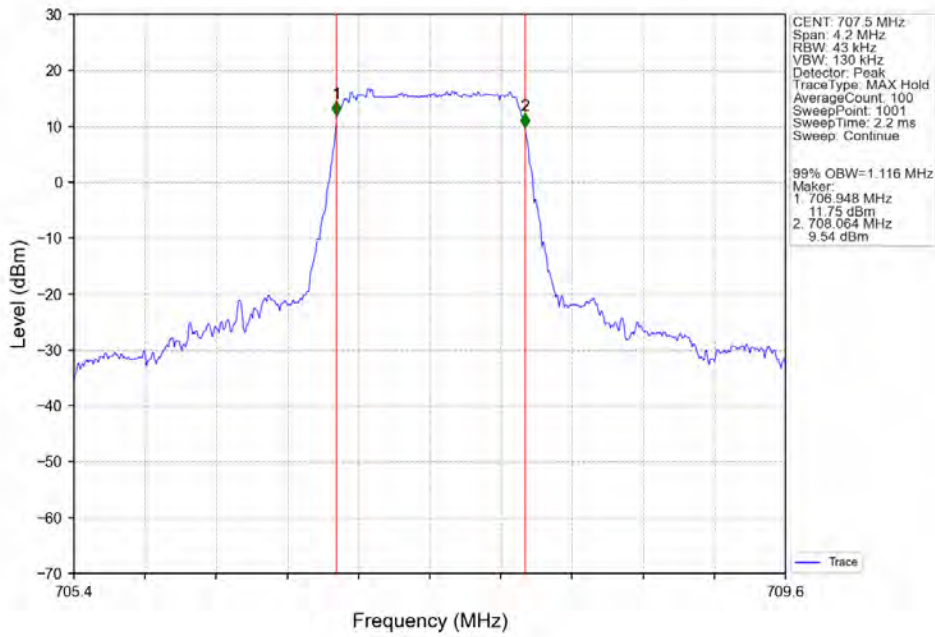
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



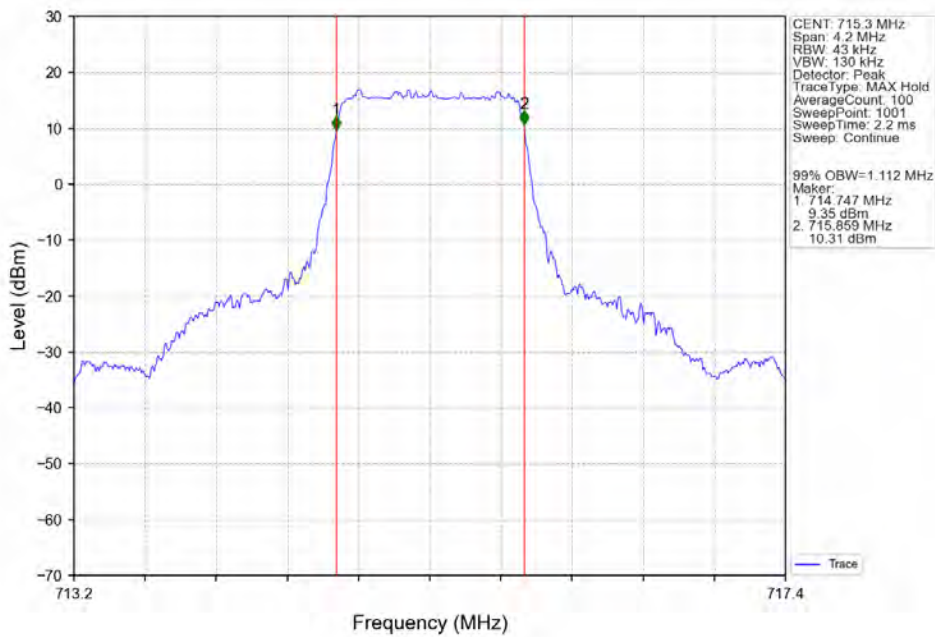
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



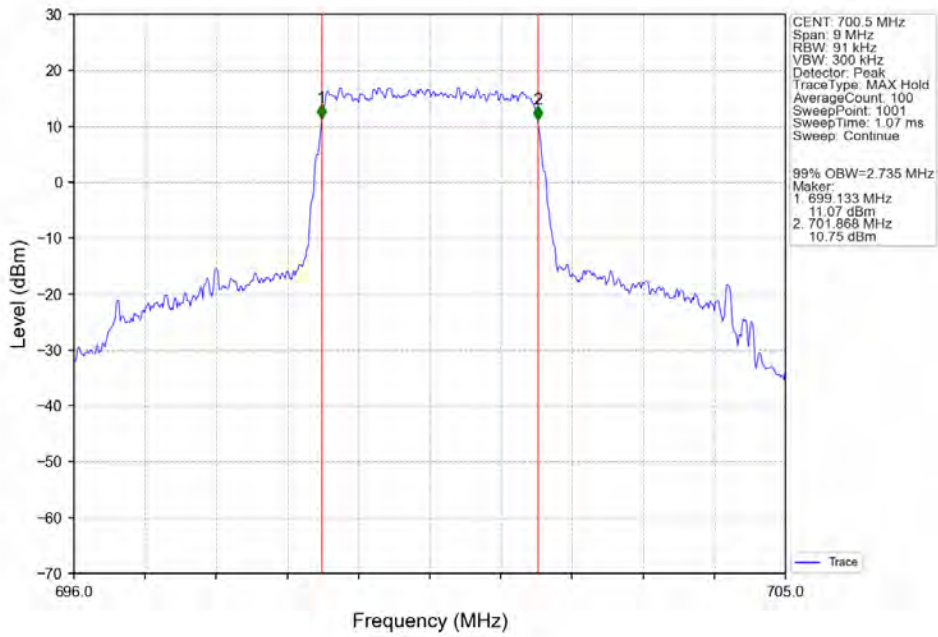
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTV



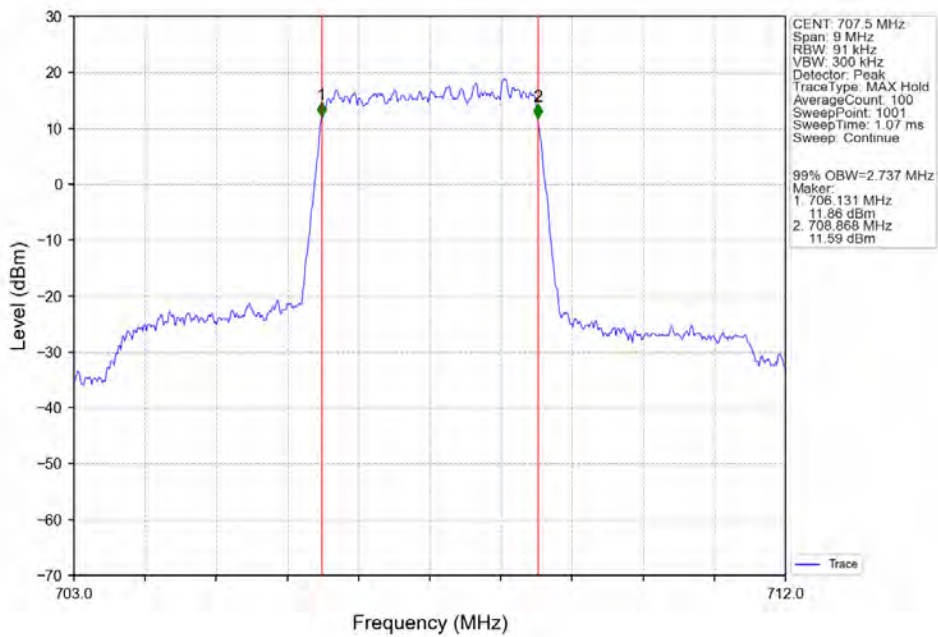
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTV



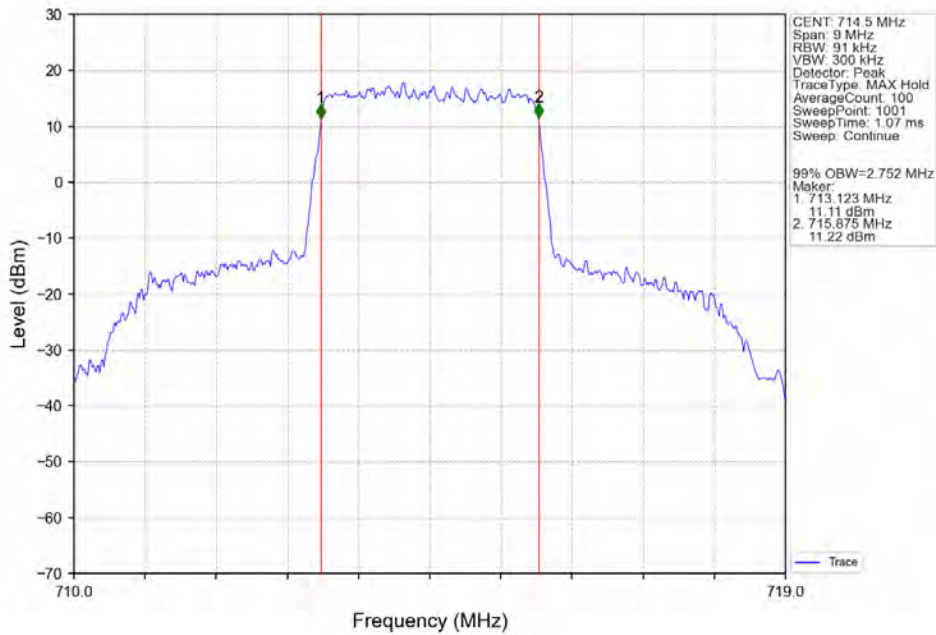
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



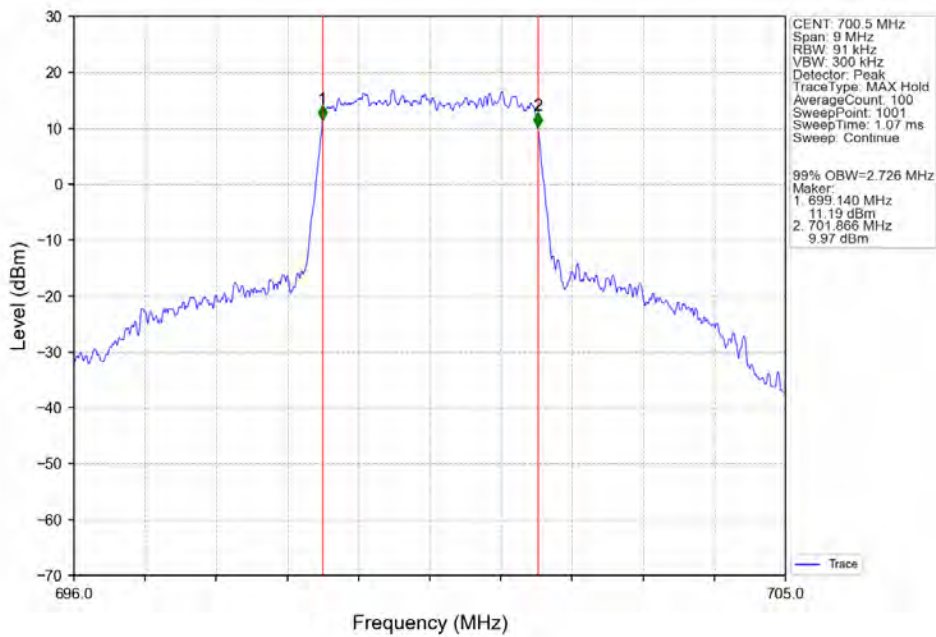
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

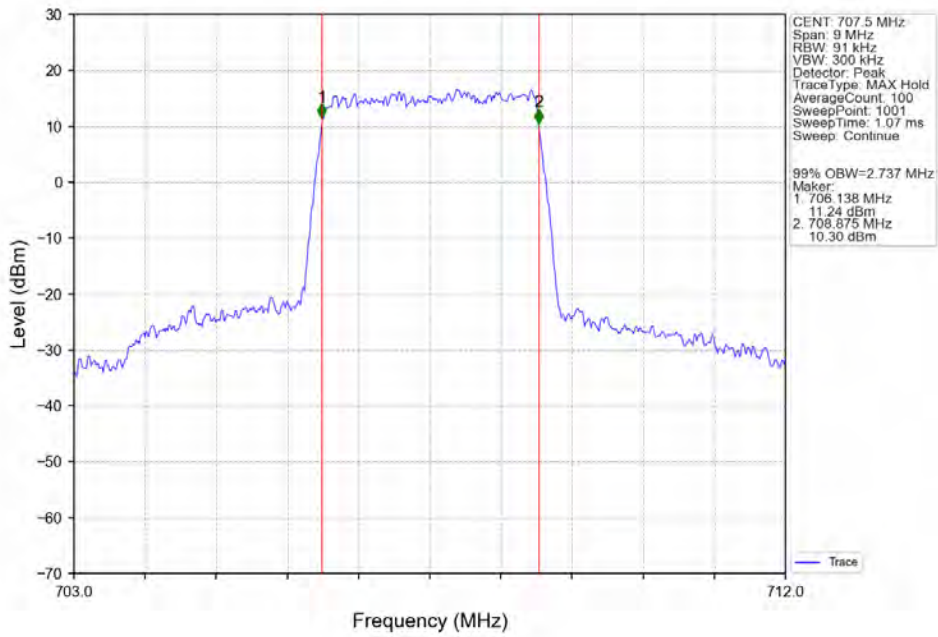


Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

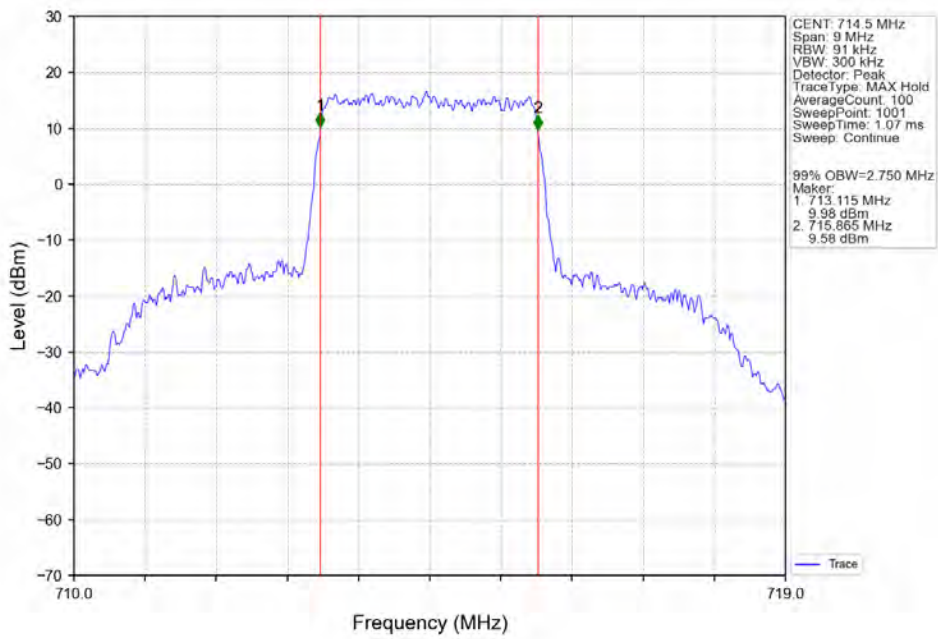




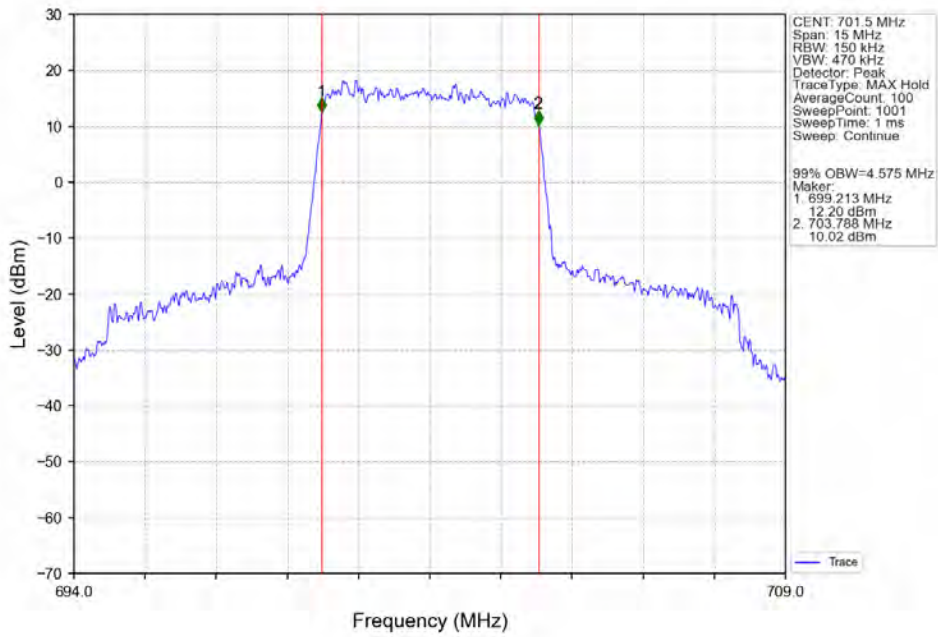
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



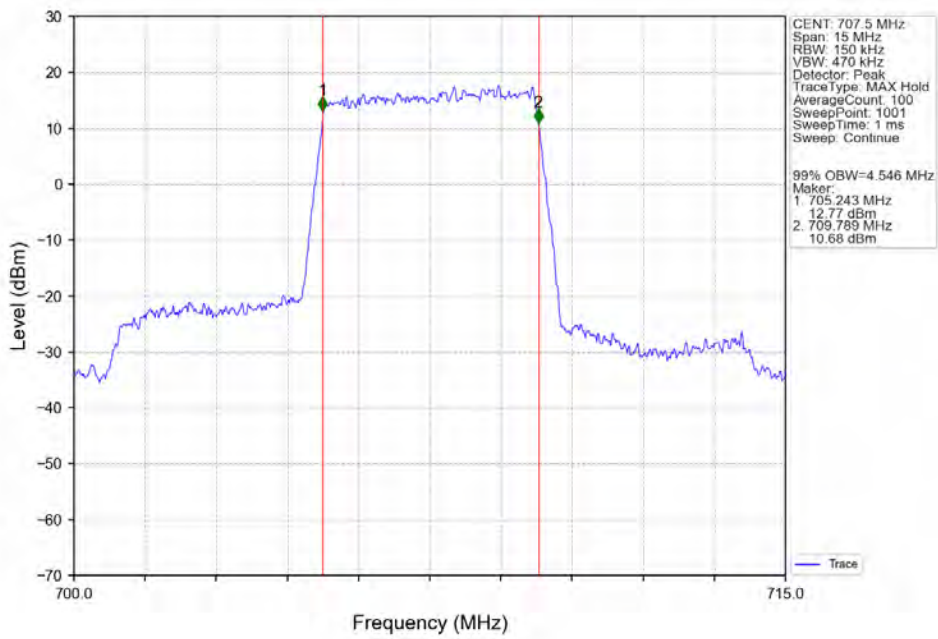
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



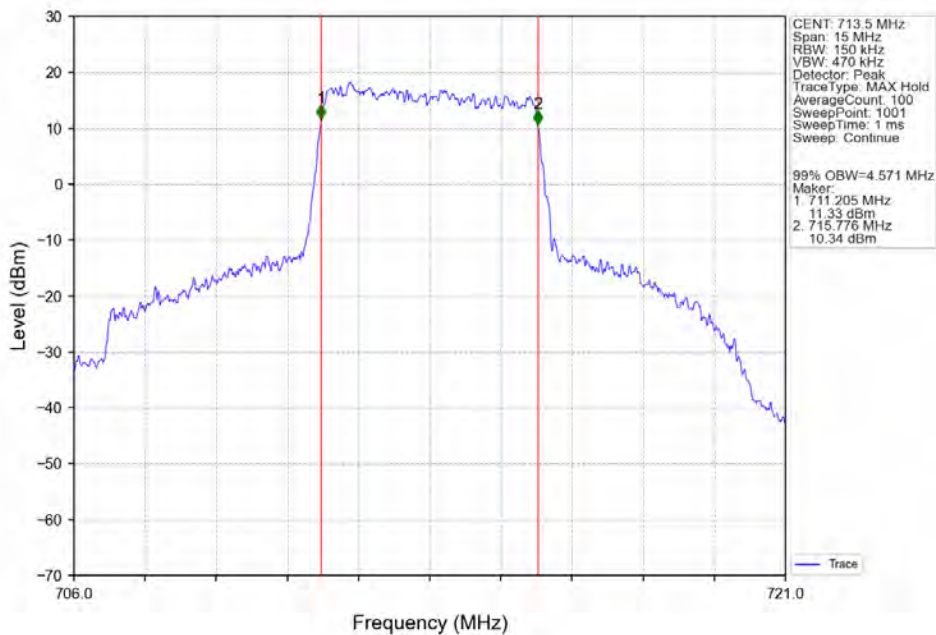
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



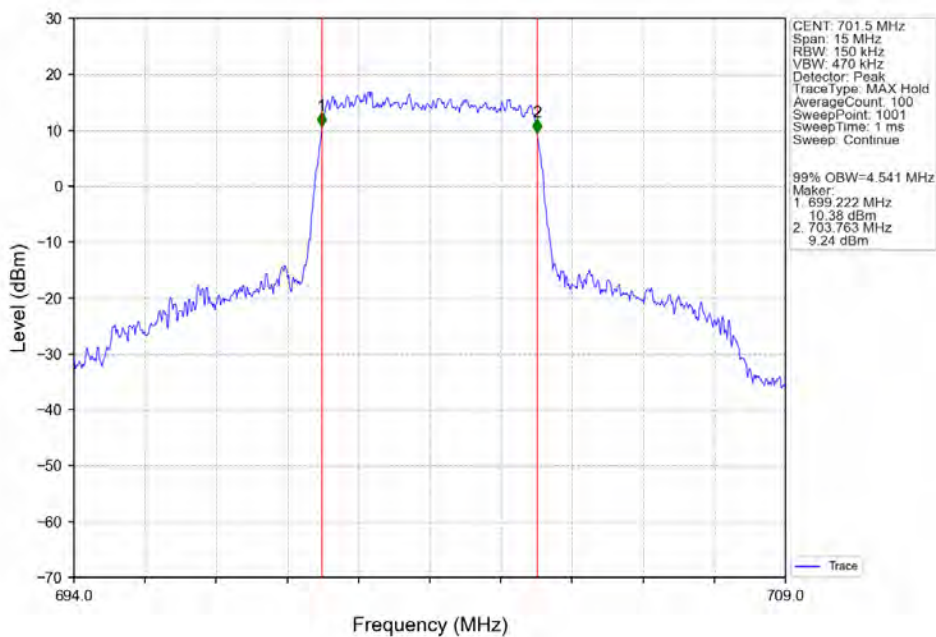
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



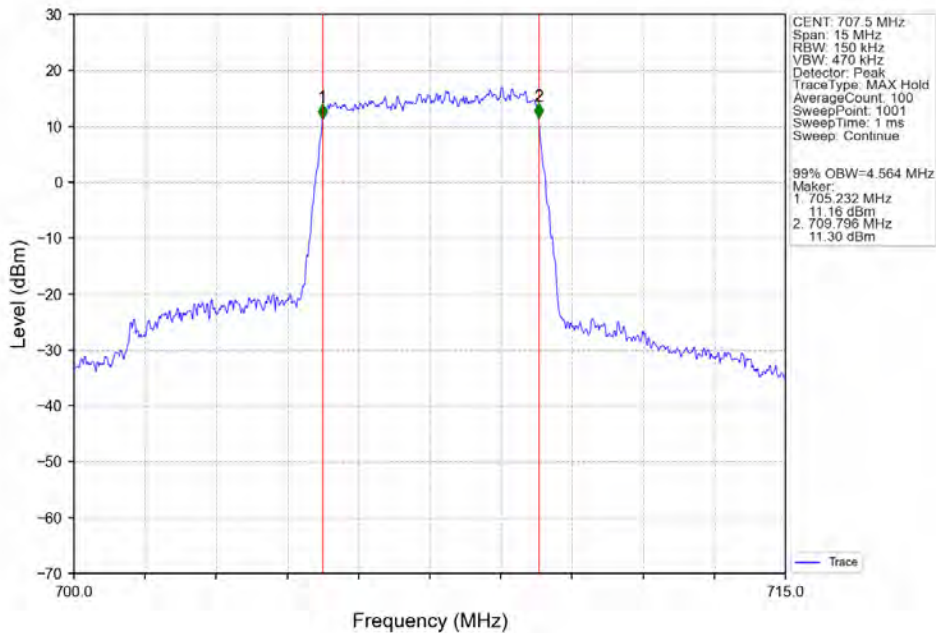
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



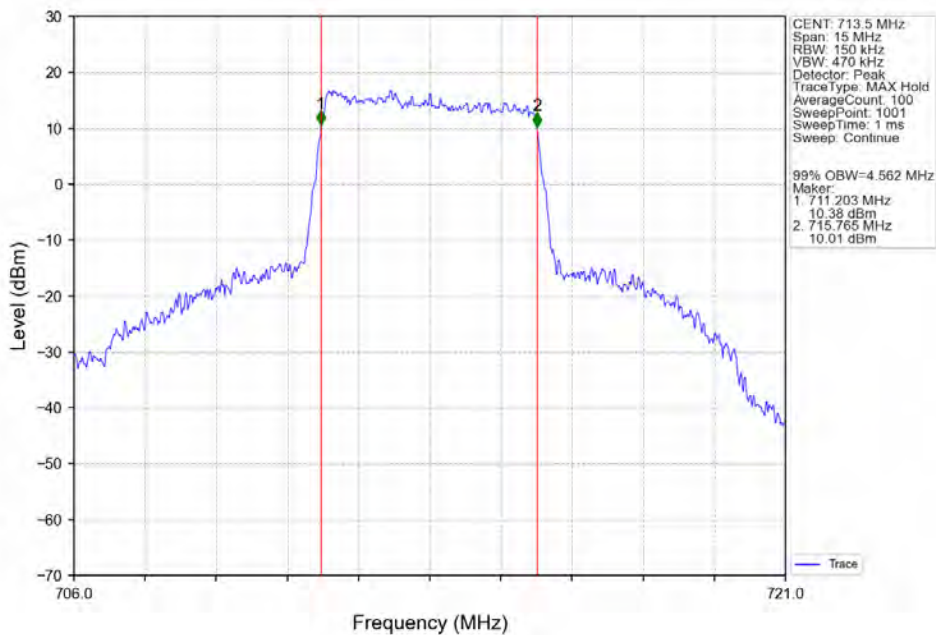
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



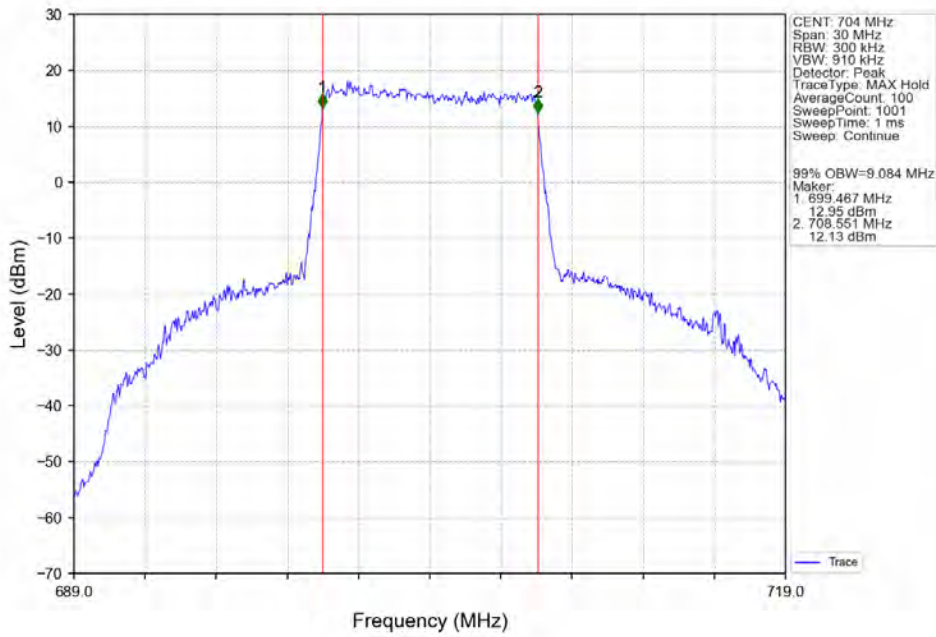
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



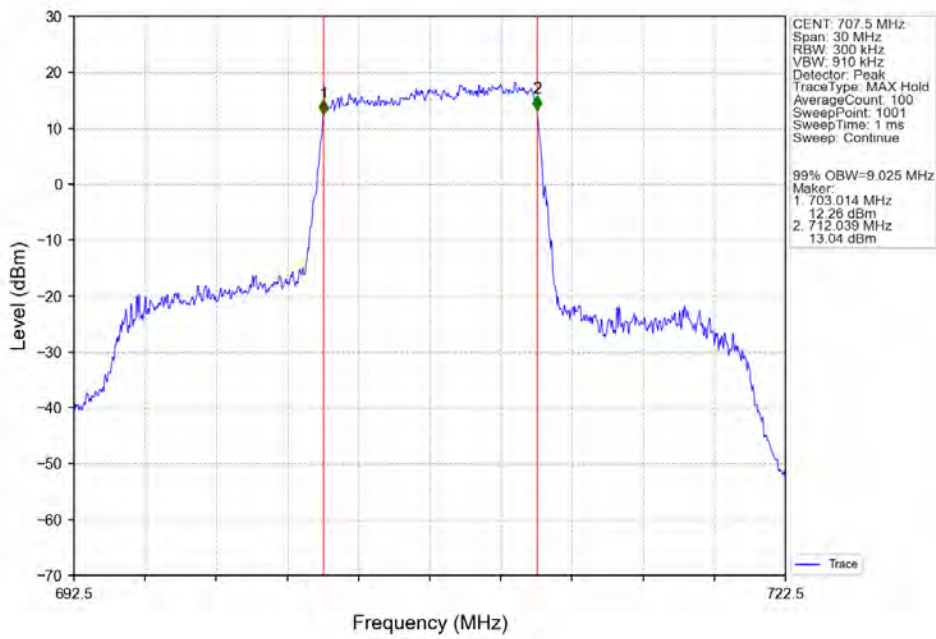
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



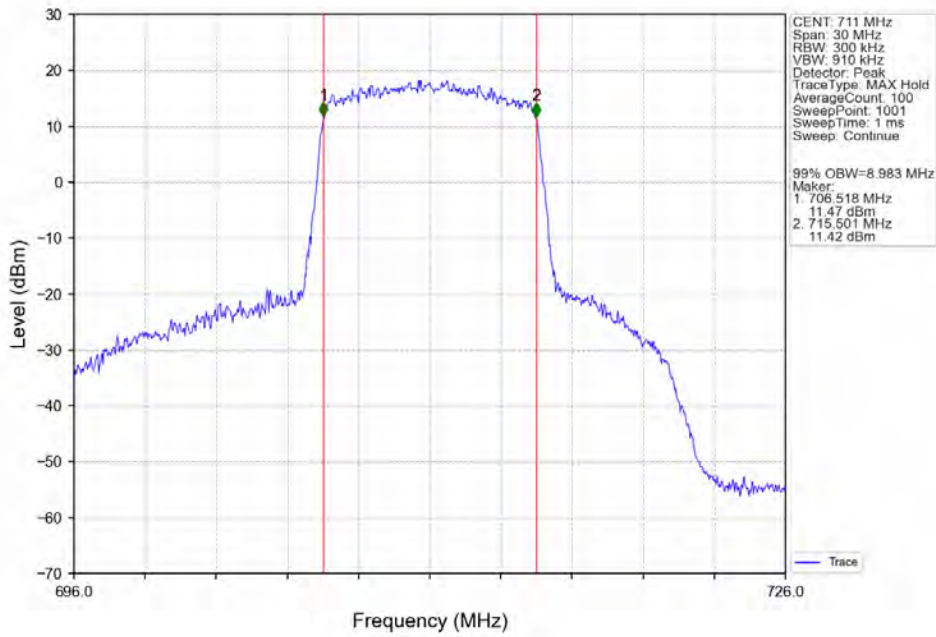
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



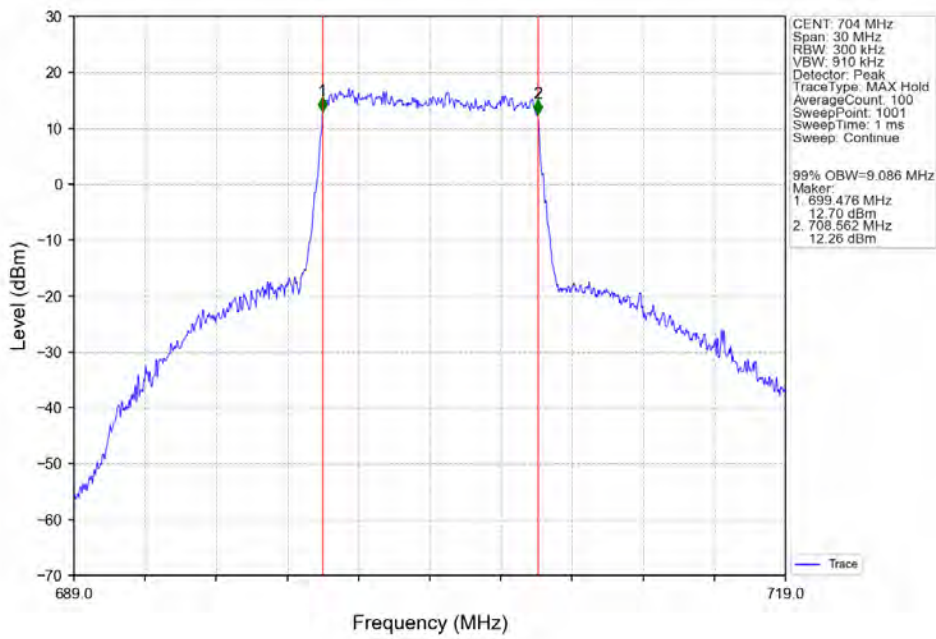
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



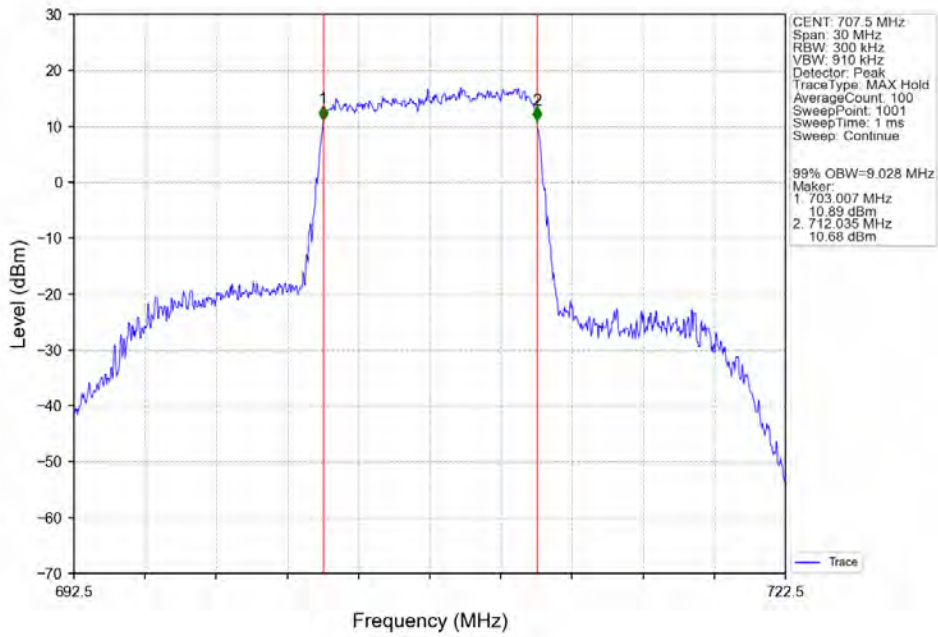
Band12 10MHz QPSK HCH 711MHz RB 50\_0 NTV



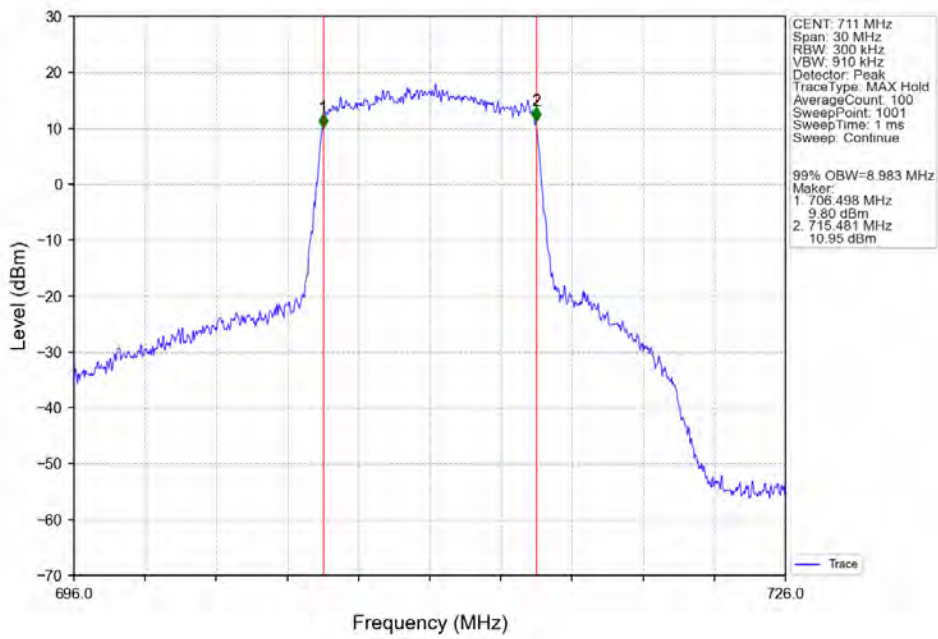
Band12 10MHz 16QAM LCH 704MHz RB 50\_0 NTV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV

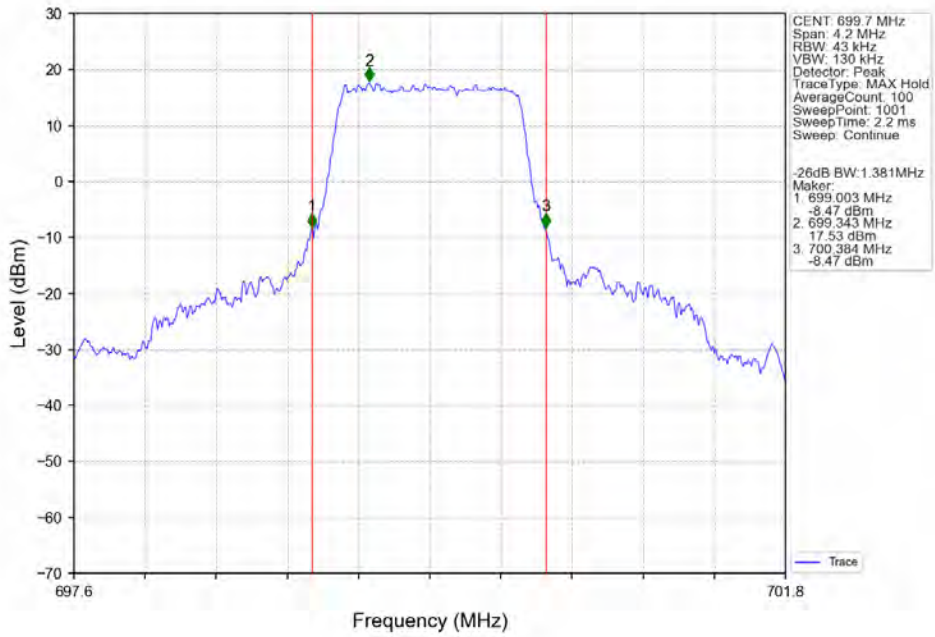


Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV

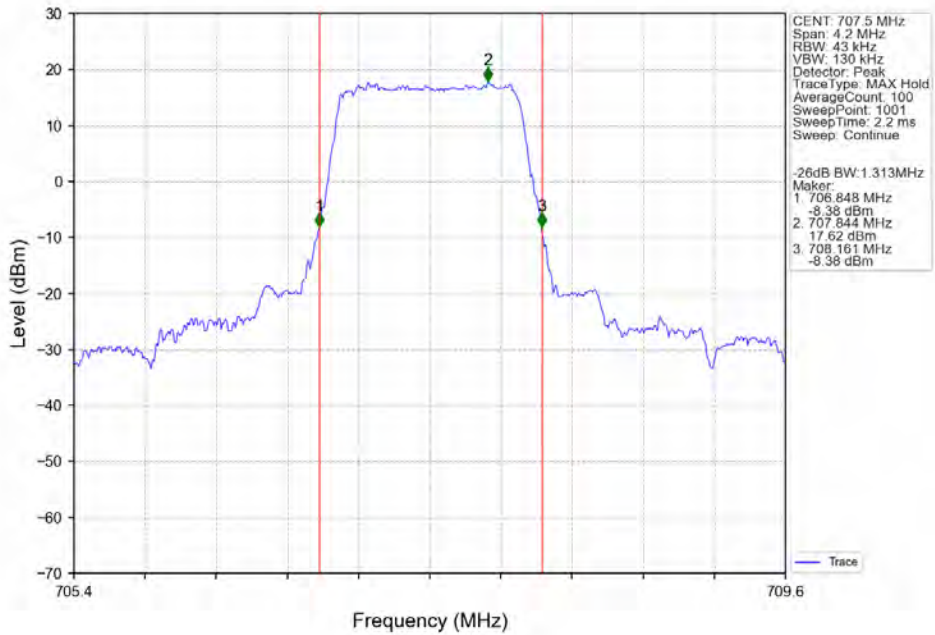


### 3.2.2 Band12\_XDB

Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTNV

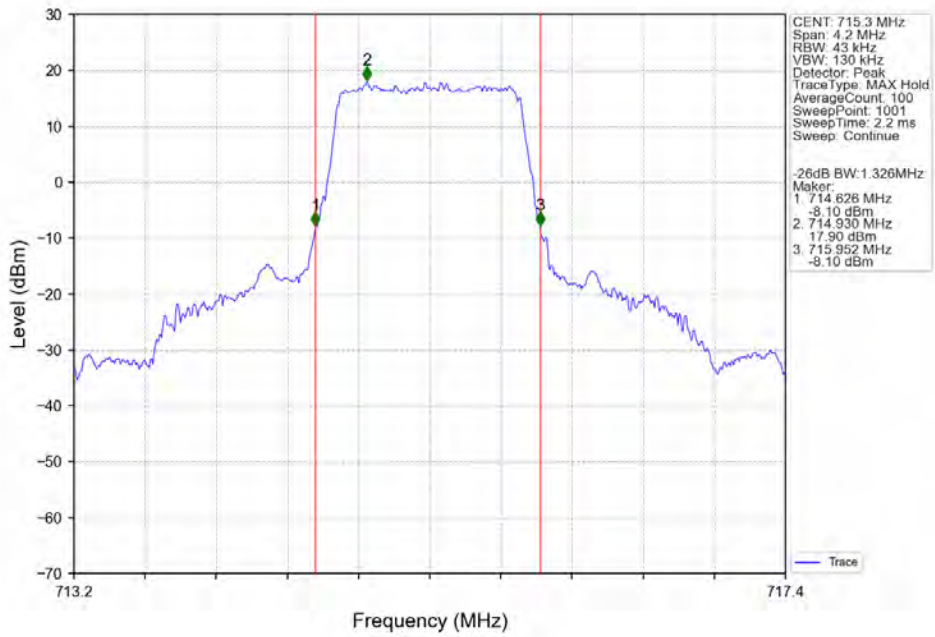


Band12 1.4MHz QPSK MCH 707.5MHz RB 6 0 NTNV

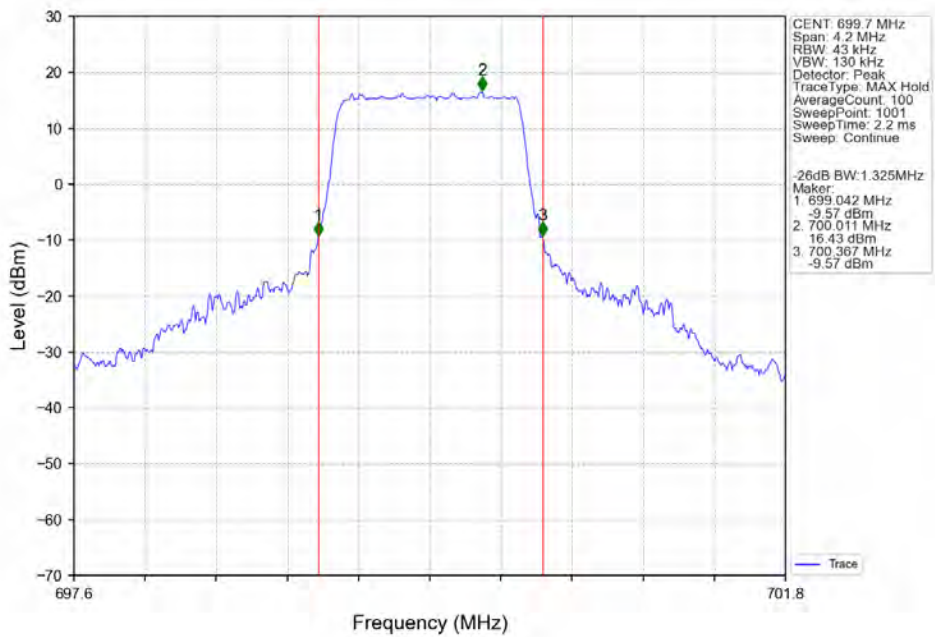




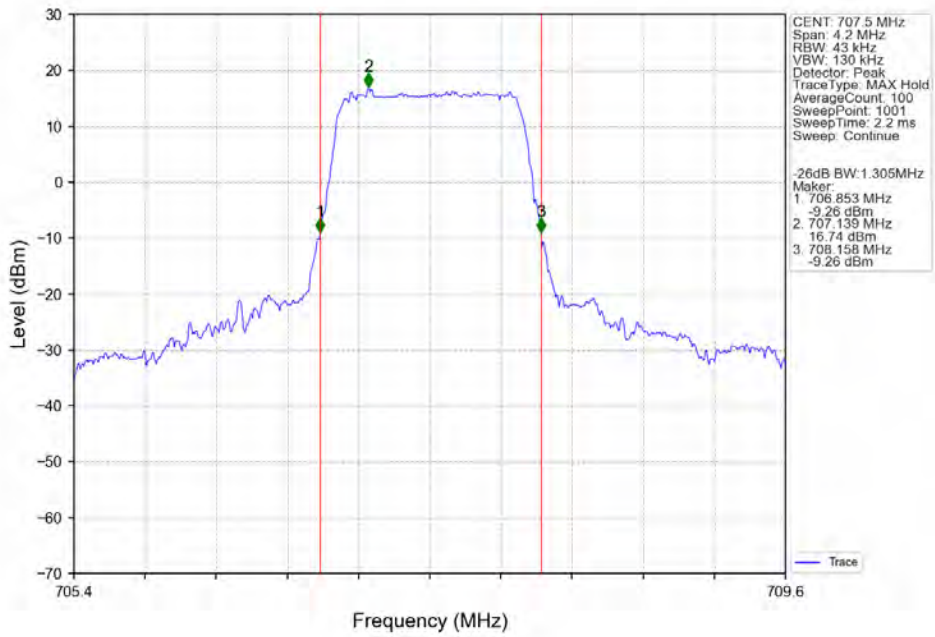
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



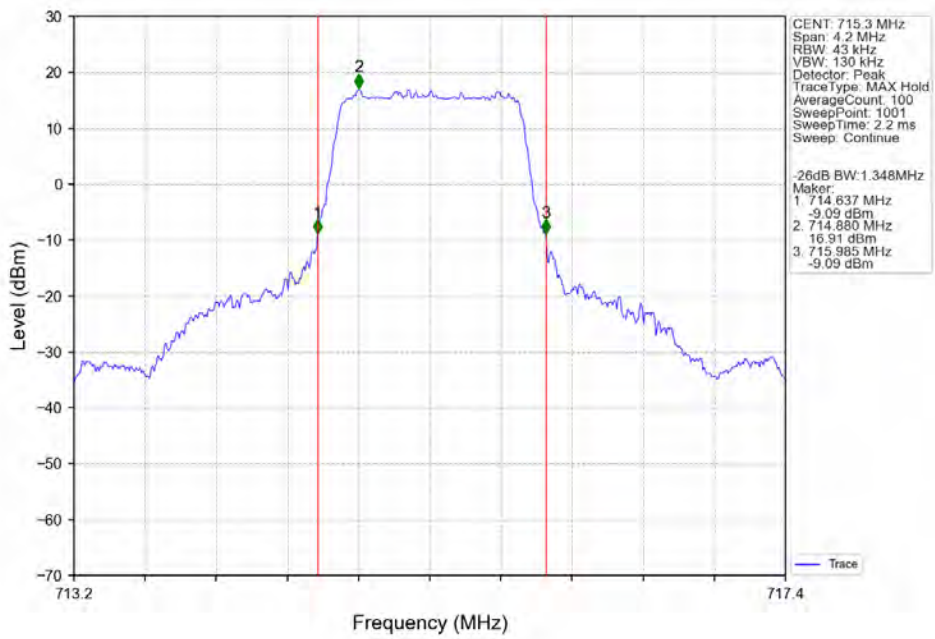
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



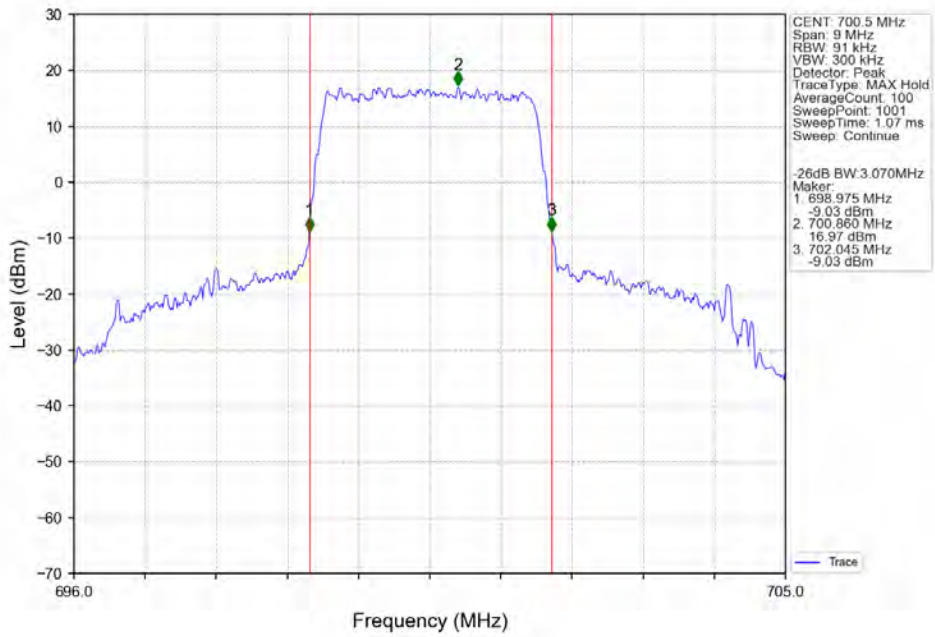
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



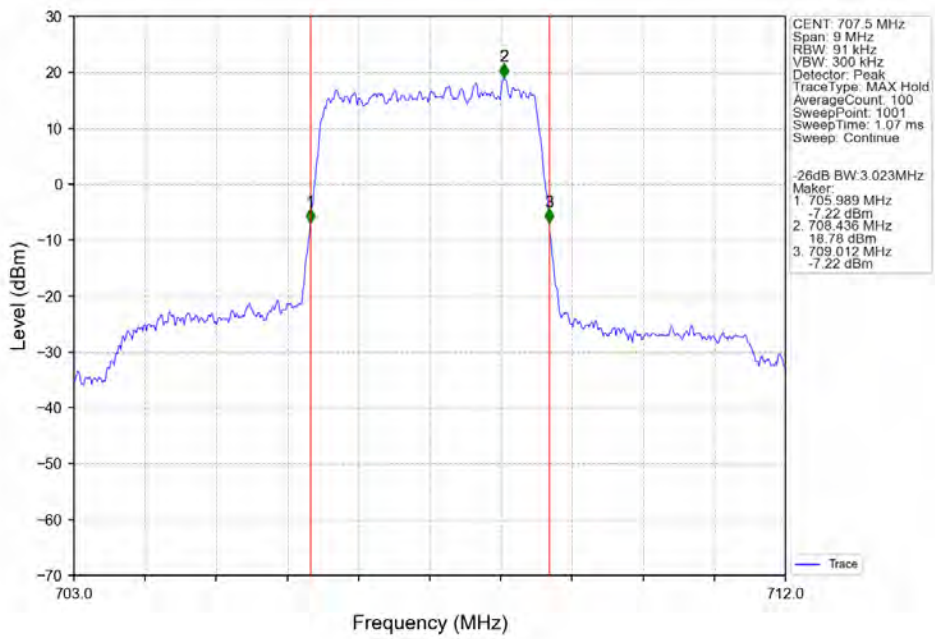
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



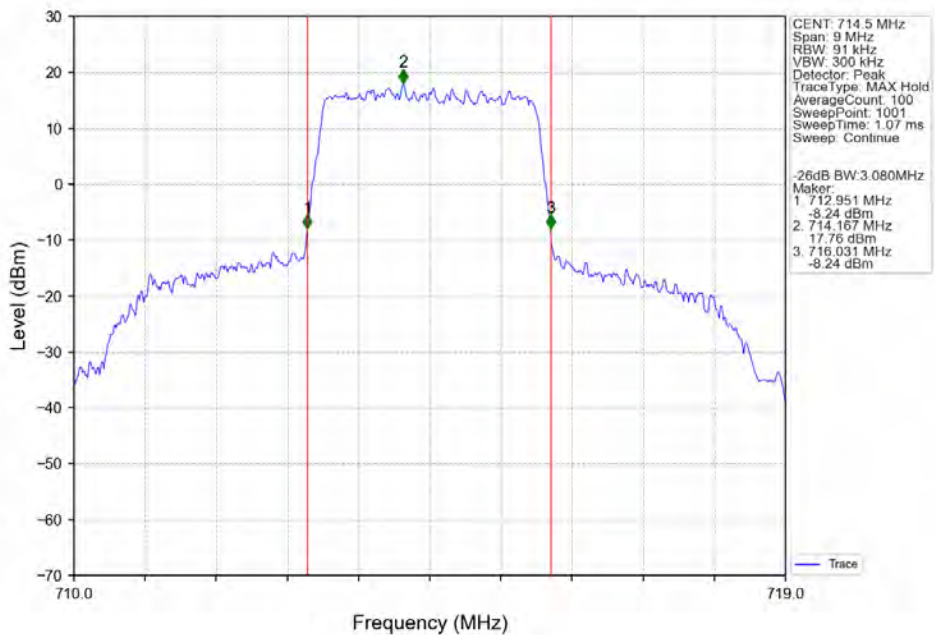
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



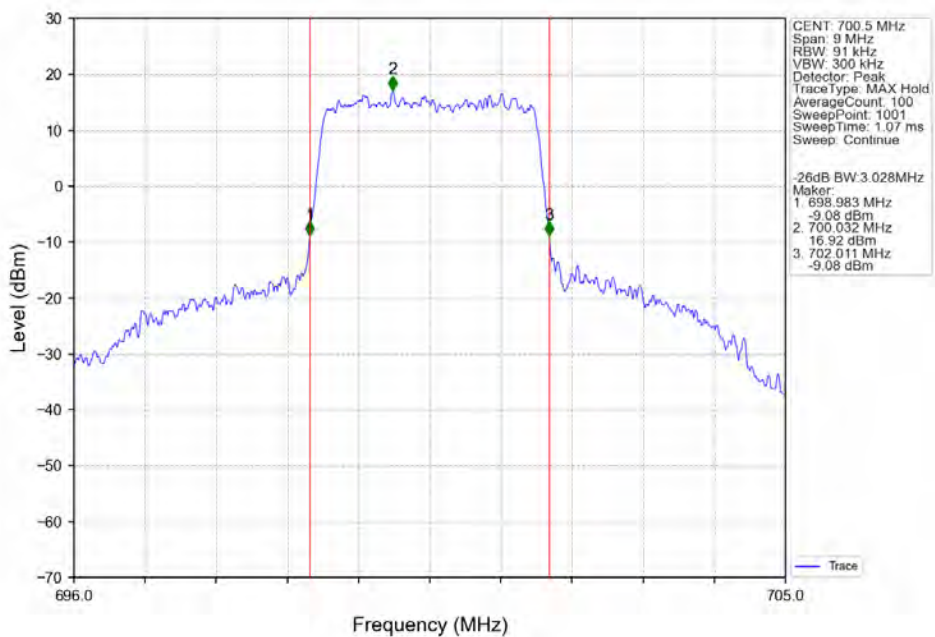
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



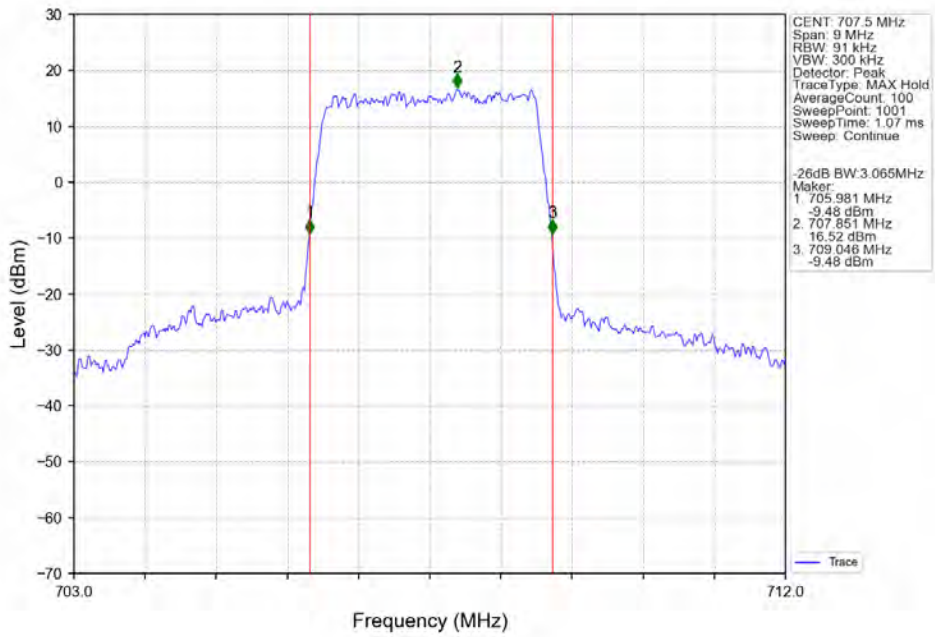
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



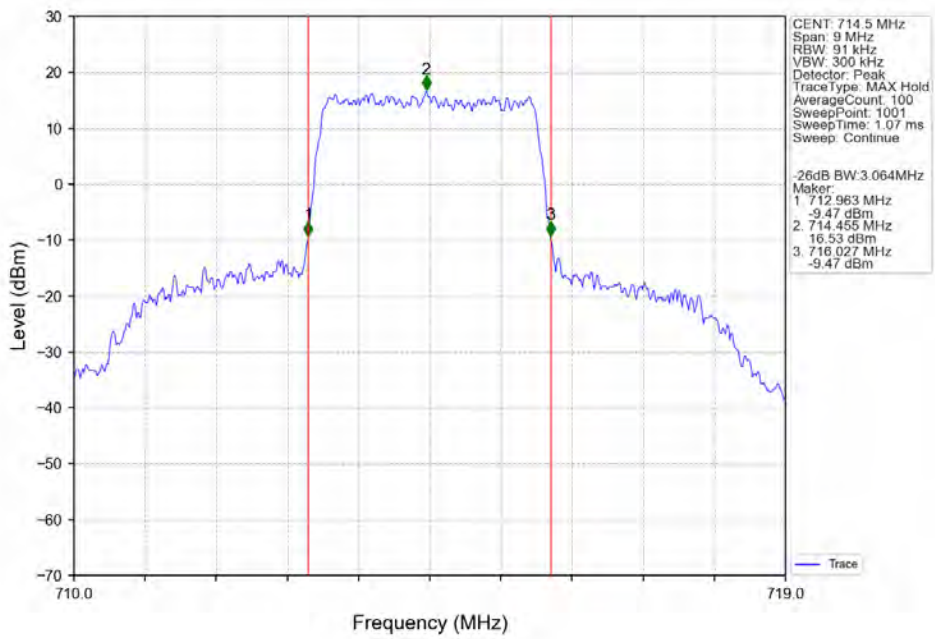
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



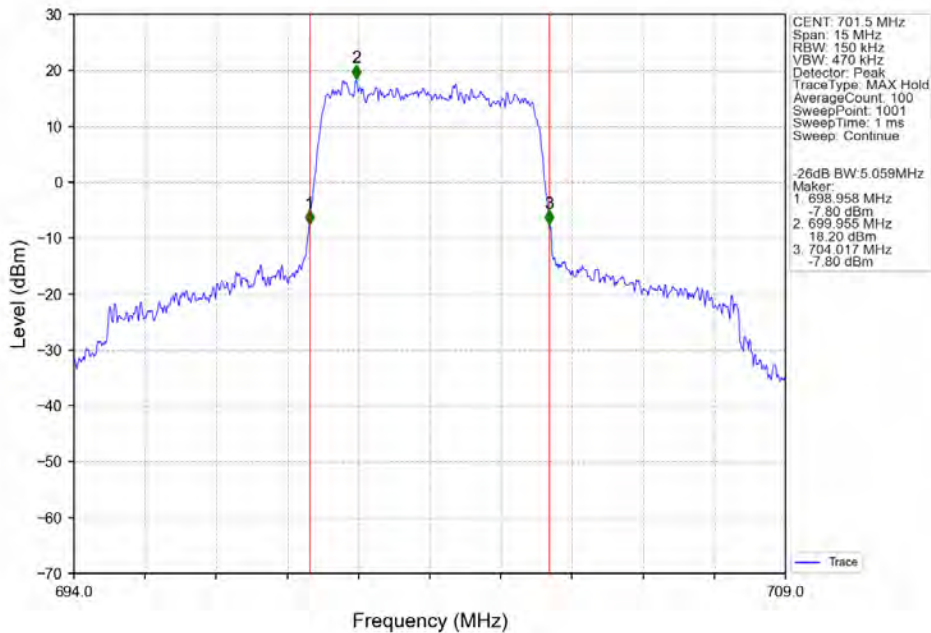
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



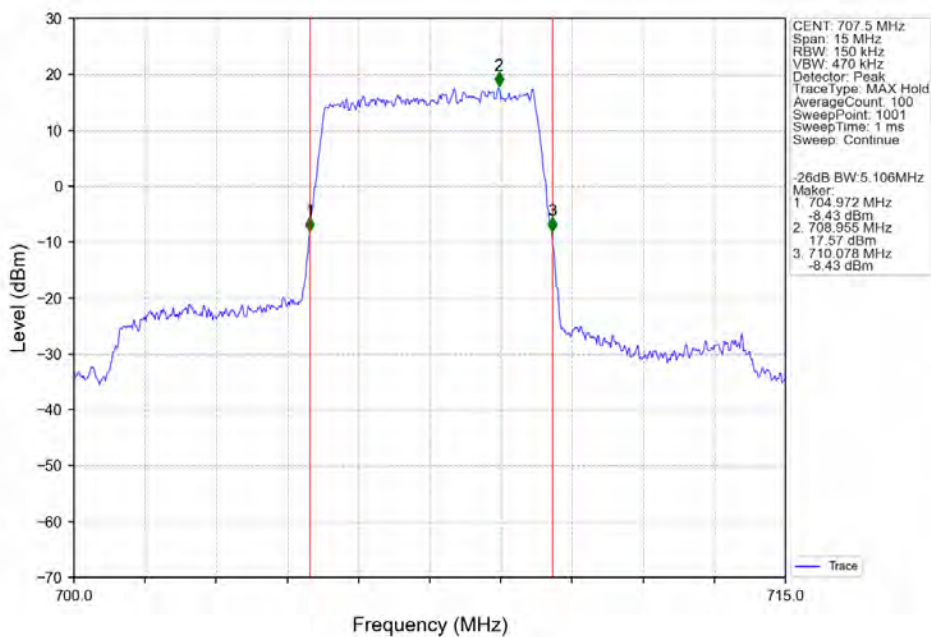
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



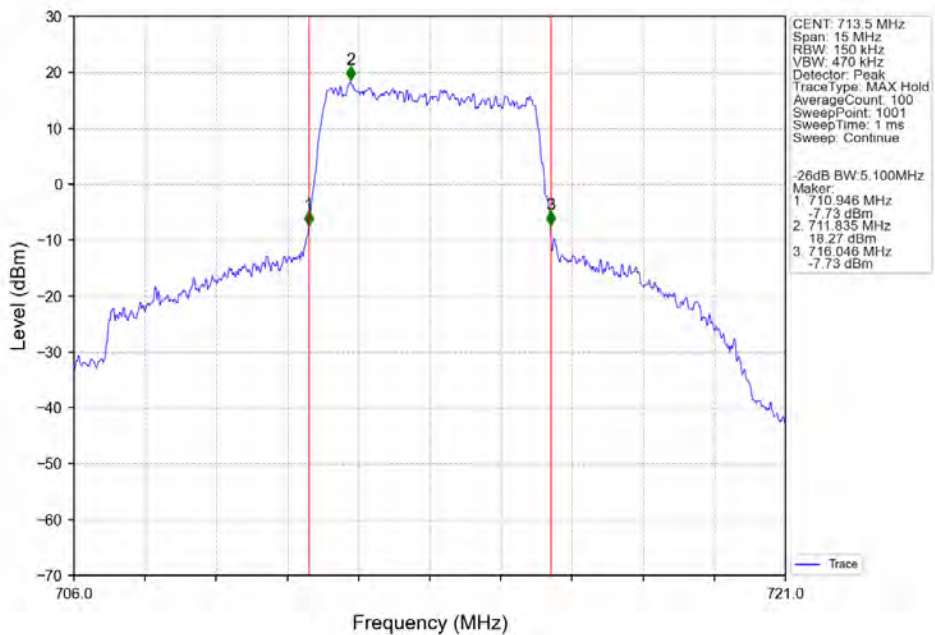
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



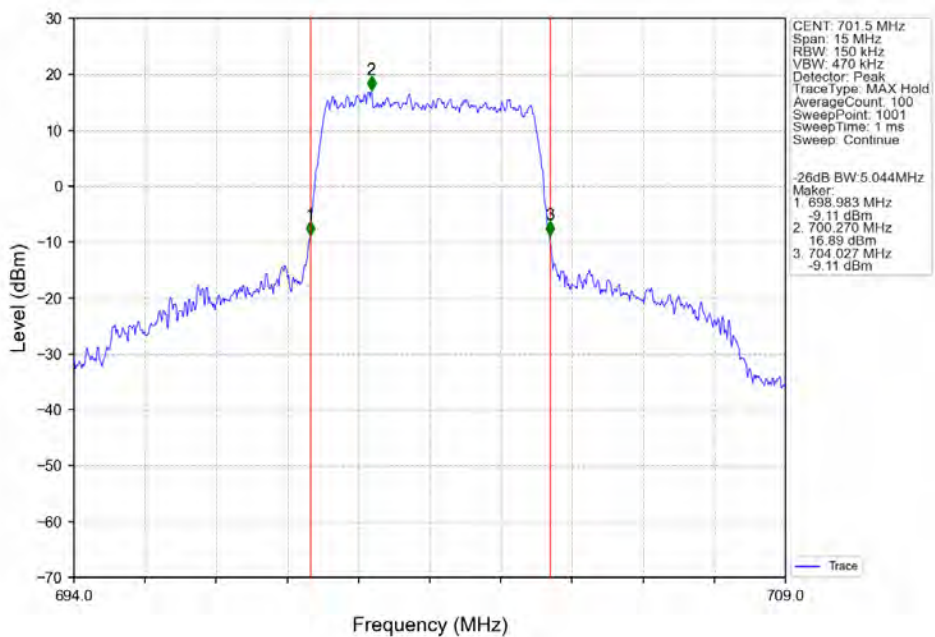
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



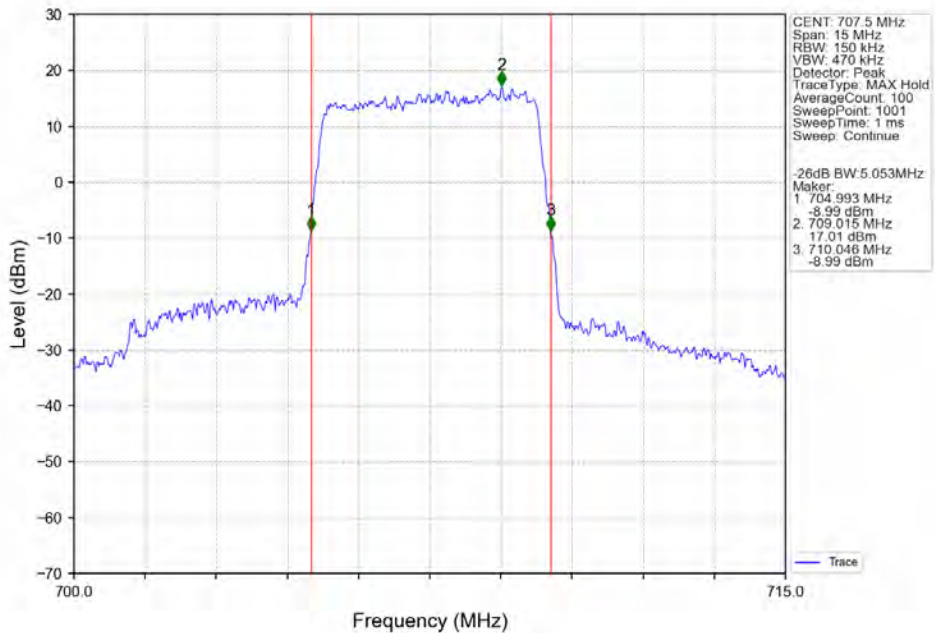
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



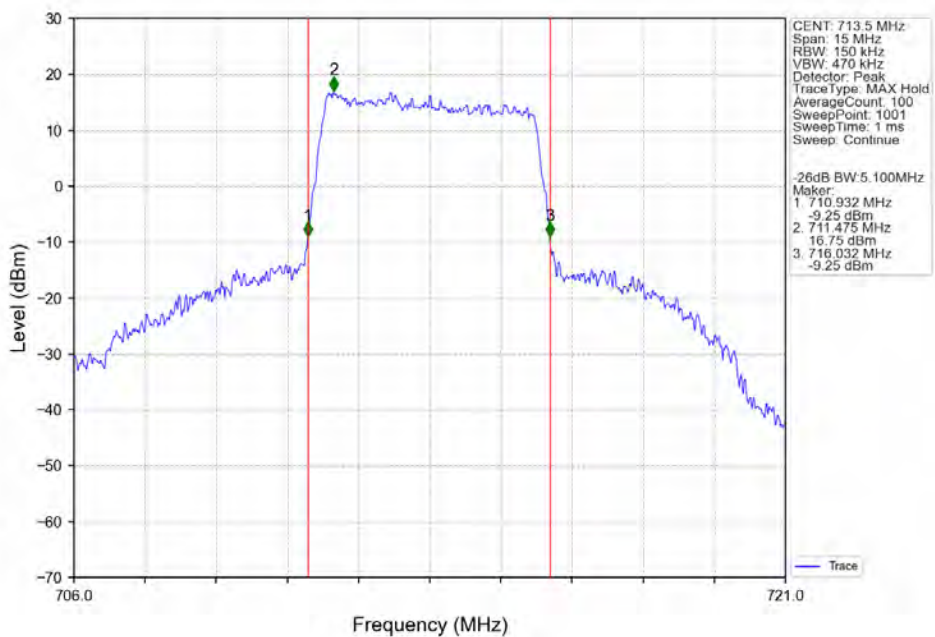
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV

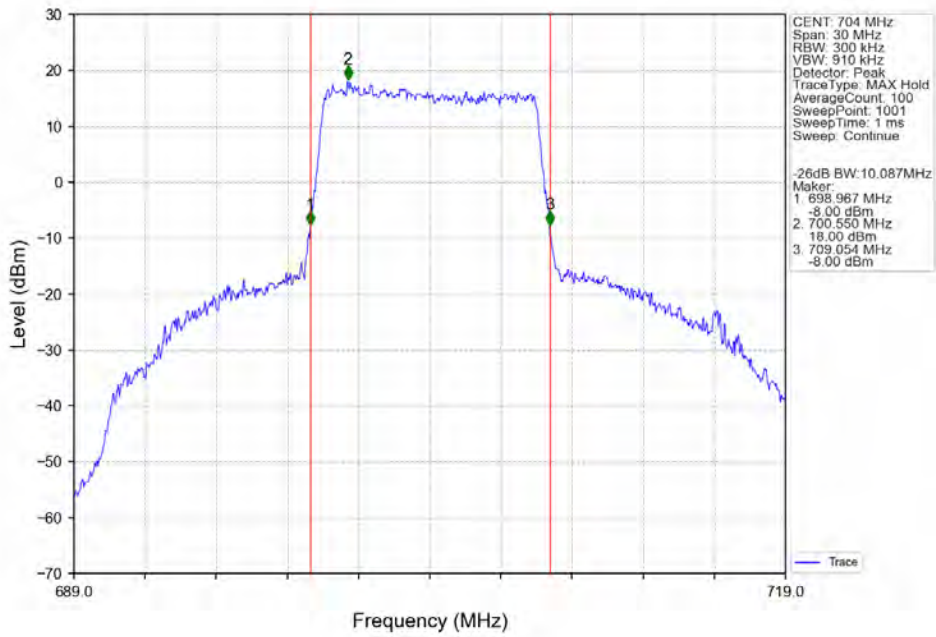


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

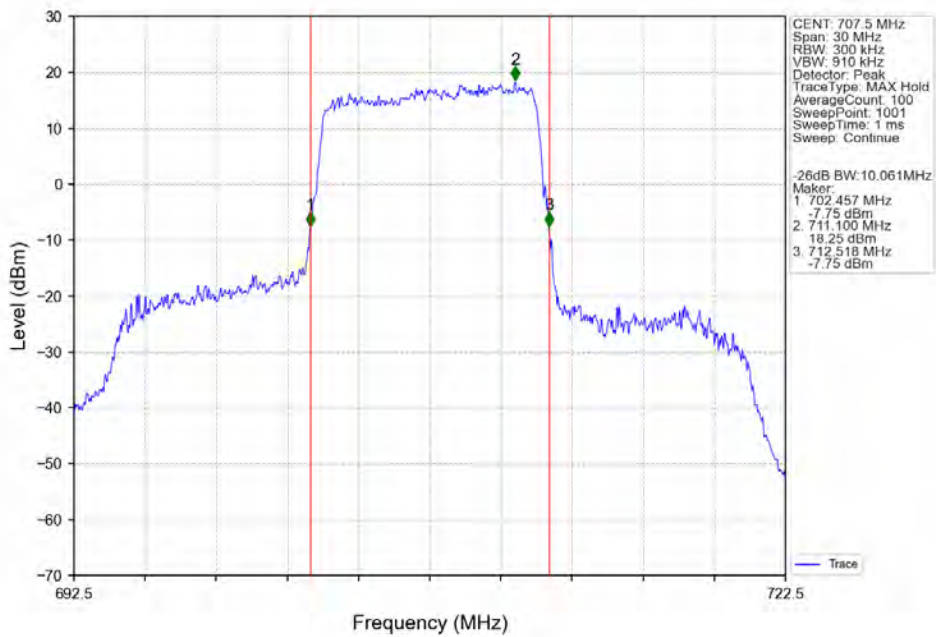




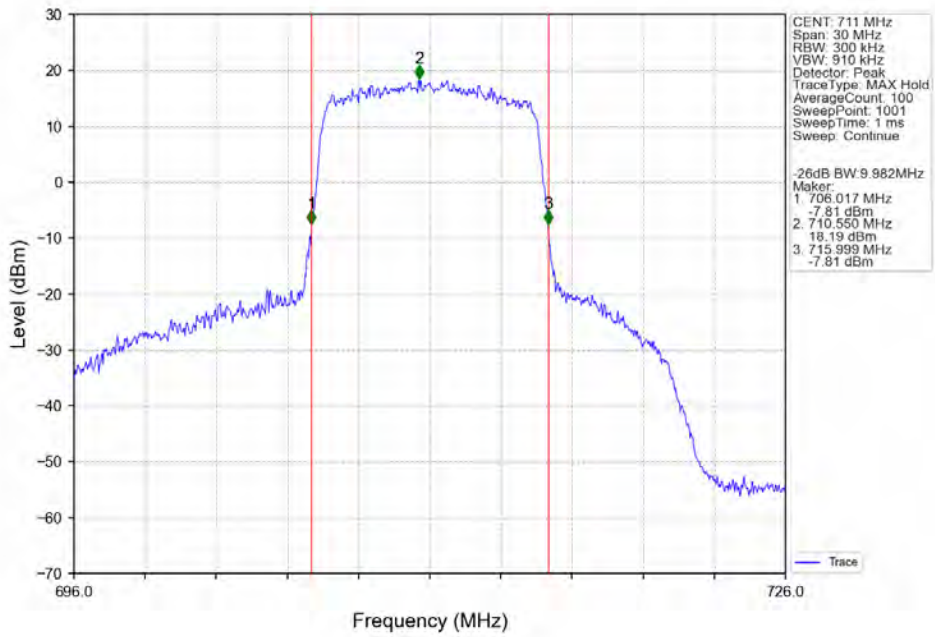
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



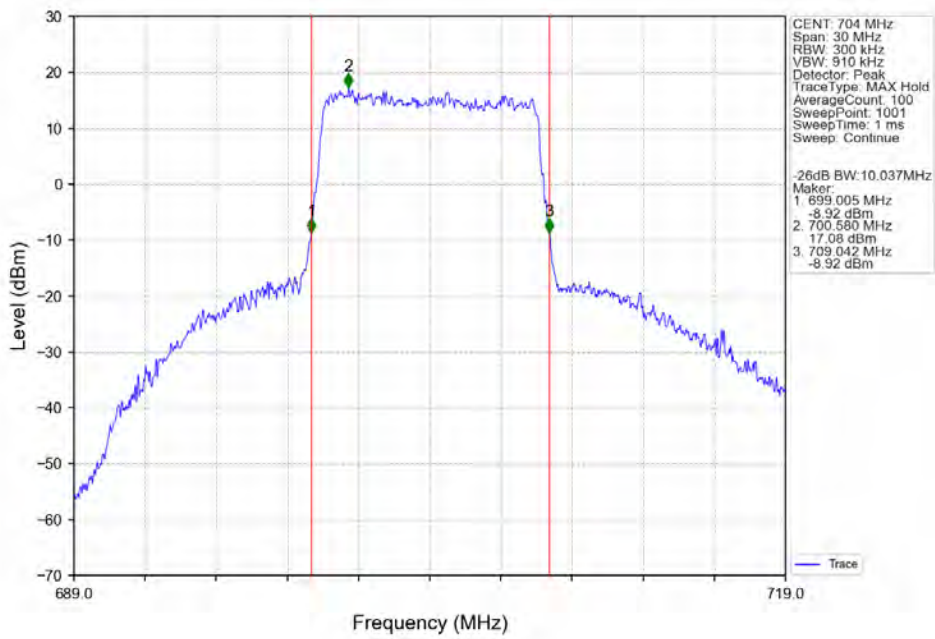
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



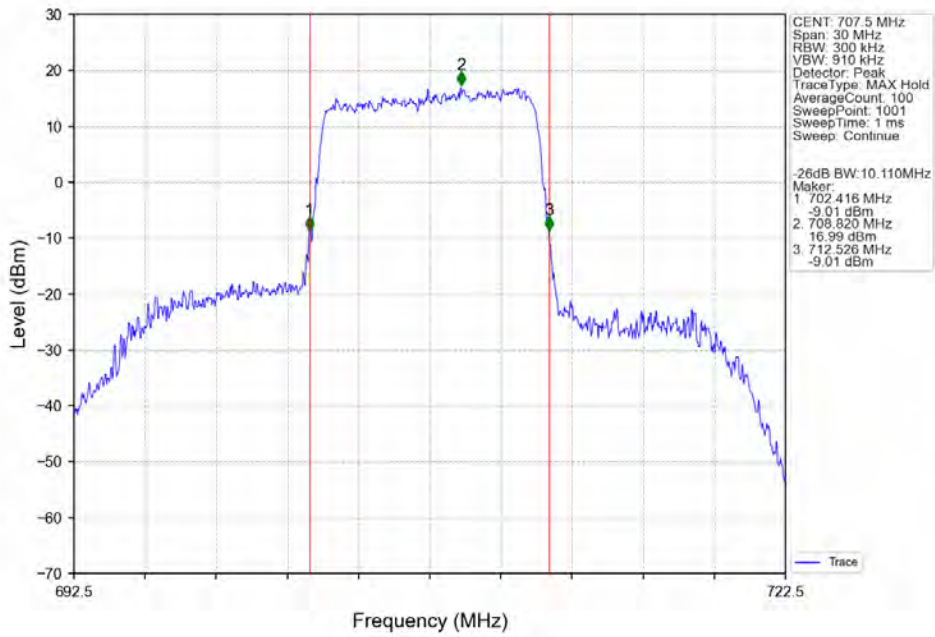
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTV



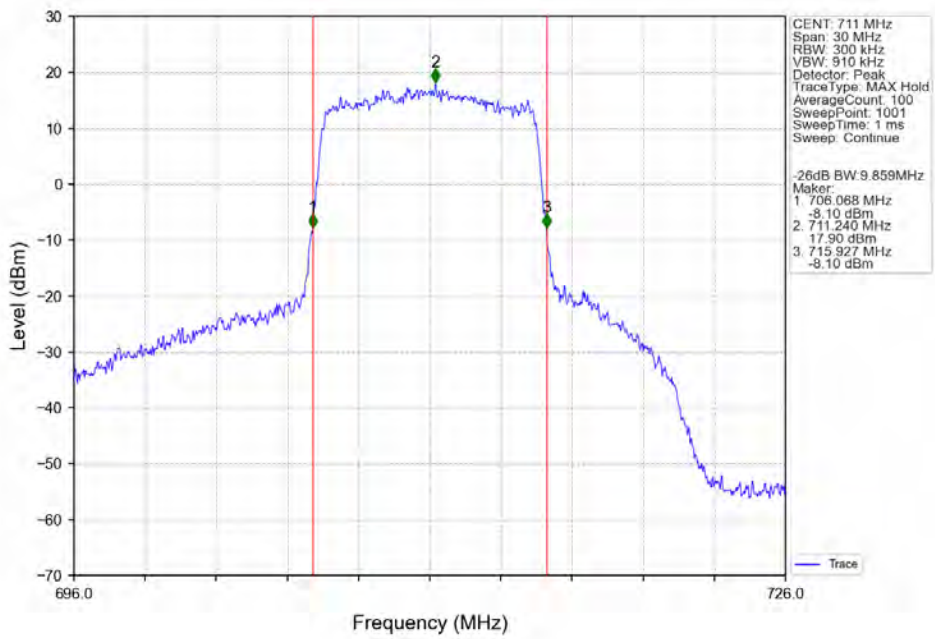
Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B12\_1.4MHz

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|-------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                     |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                                | 699.7           | 6             | 0      | 3.72                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.12                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 4.39                    | <=13  | Pass    |
| 16QAM                               | 699.7           | 6             | 0      | 4.68                    | <=13  | Pass    |
|                                     | 707.5           | 6             | 0      | 5.98                    | <=13  | Pass    |
|                                     | 715.3           | 6             | 0      | 5.17                    | <=13  | Pass    |

#### 4.1.2 B12\_3MHz

| Band: 12 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 700.5           | 15            | 0      | 3.83                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 5.14                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 4.17                    | <=13  | Pass    |
| 16QAM                             | 700.5           | 15            | 0      | 4.82                    | <=13  | Pass    |
|                                   | 707.5           | 15            | 0      | 6.00                    | <=13  | Pass    |
|                                   | 714.5           | 15            | 0      | 4.97                    | <=13  | Pass    |

#### 4.1.3 B12\_5MHz

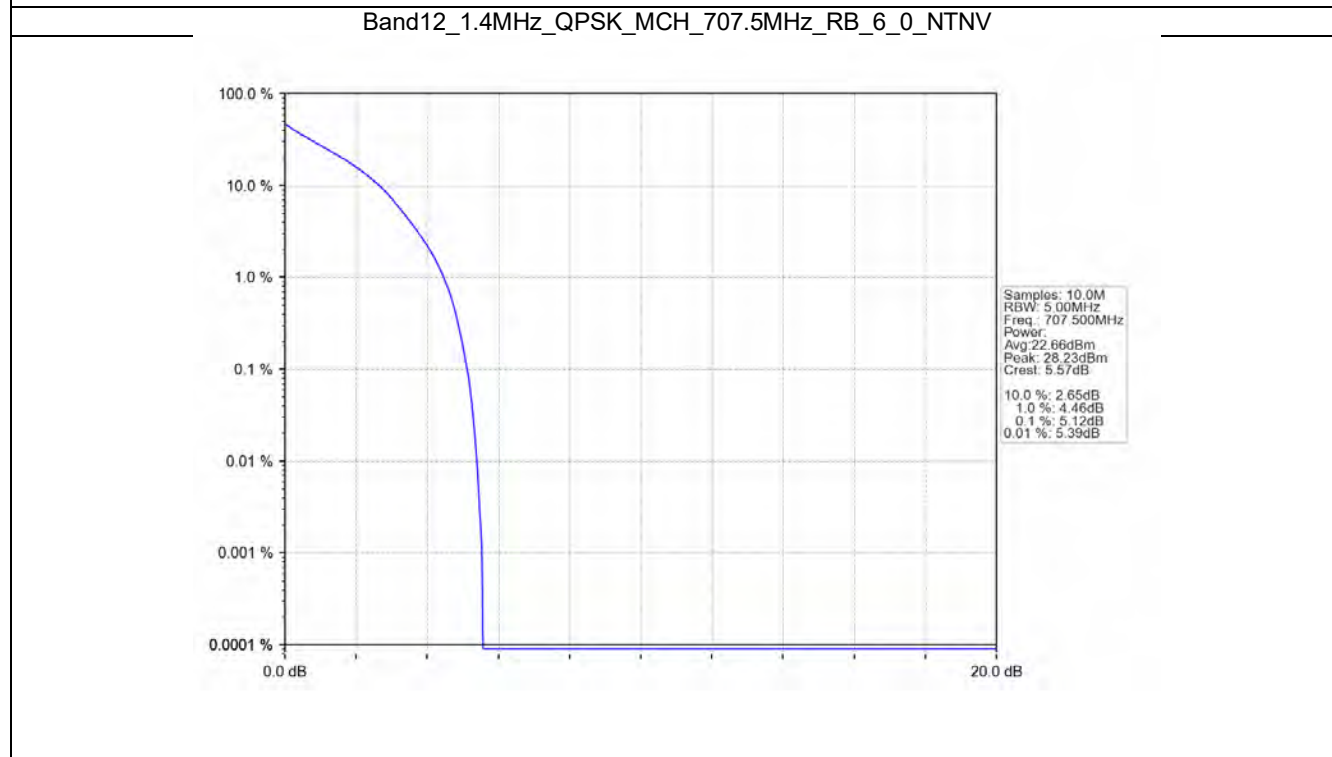
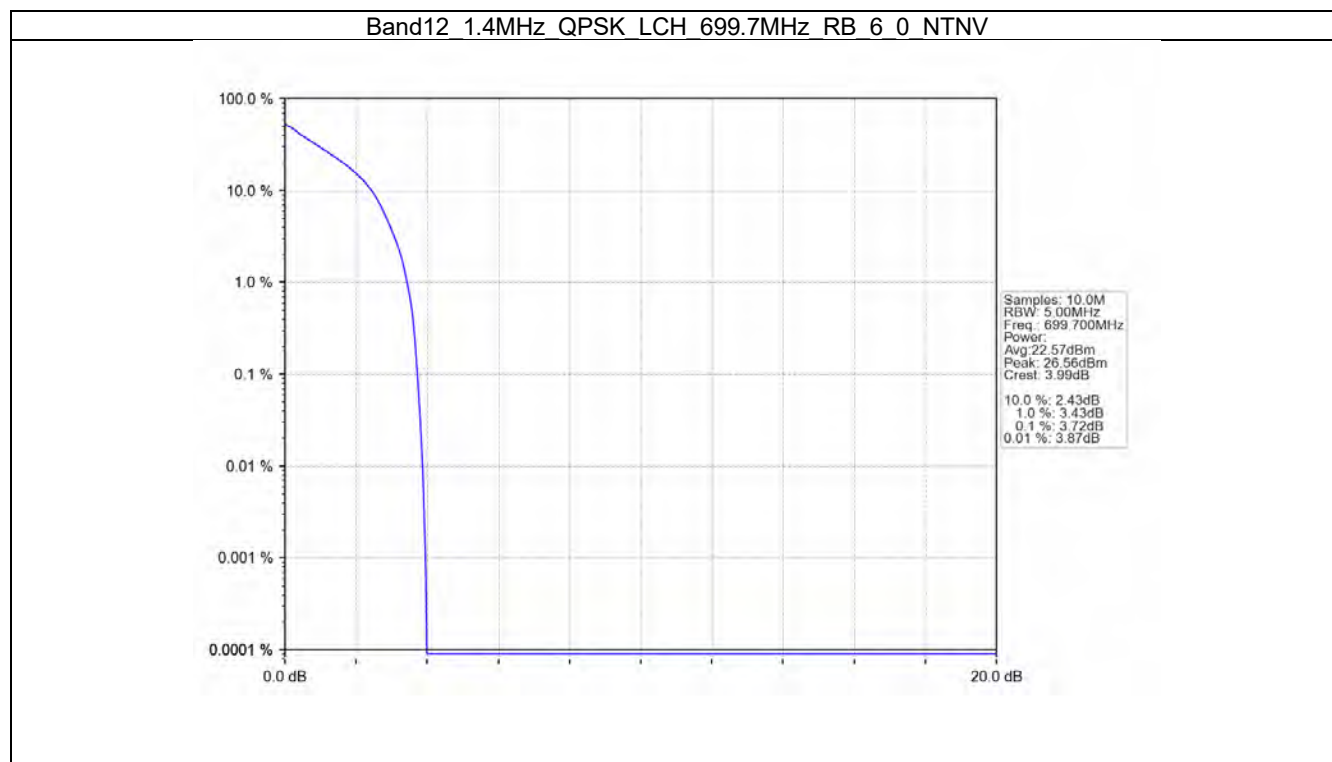
| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 701.5           | 25            | 0      | 4.34                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 5.15                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 4.42                    | <=13  | Pass    |
| 16QAM                             | 701.5           | 25            | 0      | 5.09                    | <=13  | Pass    |
|                                   | 707.5           | 25            | 0      | 6.02                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 5.16                    | <=13  | Pass    |

#### 4.1.4 B12\_10MHz

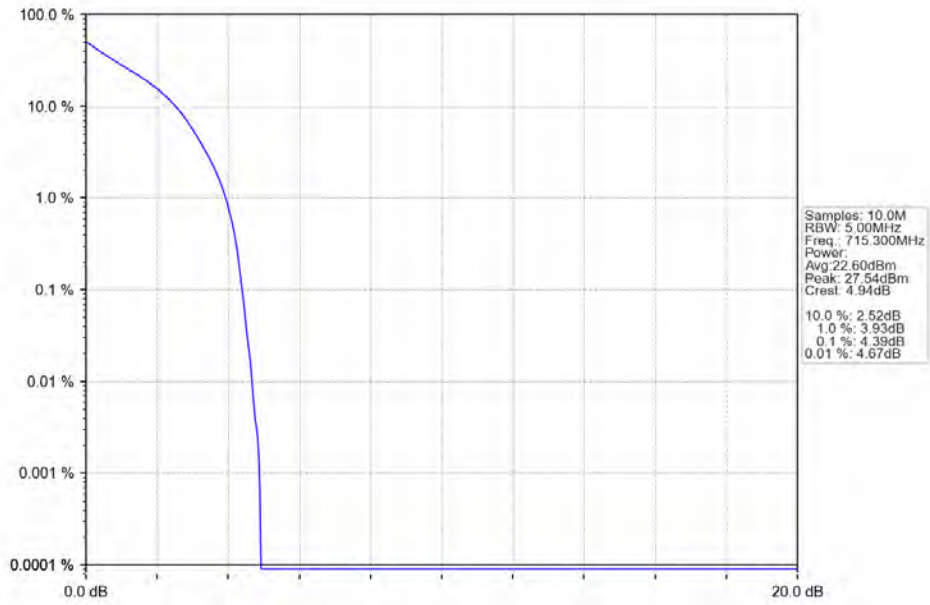
| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 704             | 50            | 0      | 4.98                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 4.93                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 4.56                    | <=13  | Pass    |
| 16QAM                              | 704             | 50            | 0      | 5.72                    | <=13  | Pass    |
|                                    | 707.5           | 50            | 0      | 5.85                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.53                    | <=13  | Pass    |

## 4.2 Test Graph

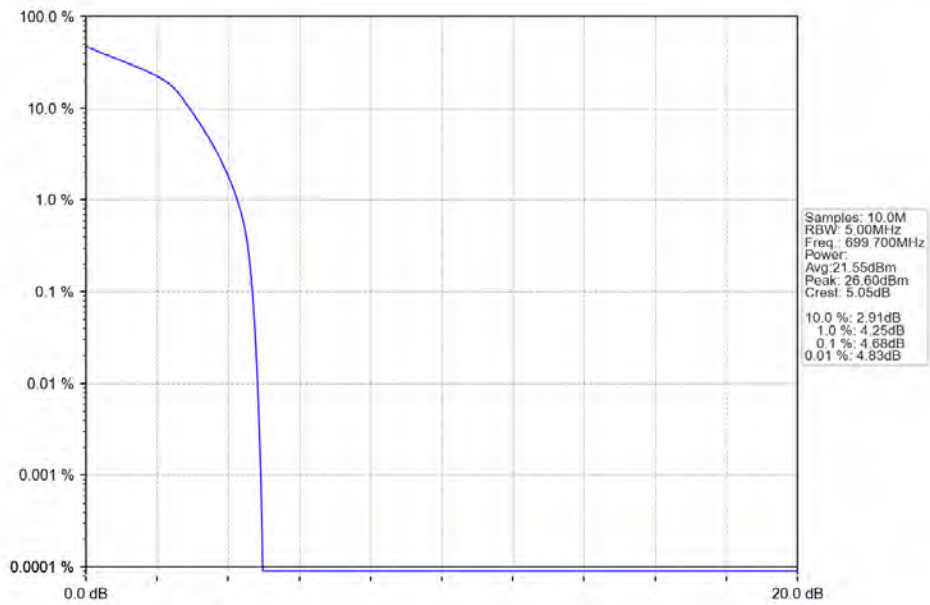
### 4.2.1 B12\_1.4MHz



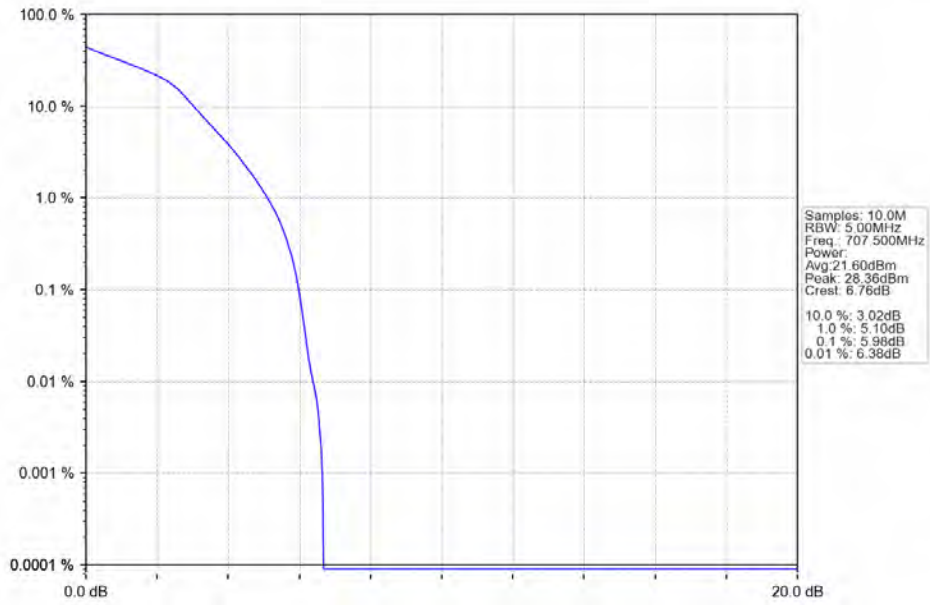
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



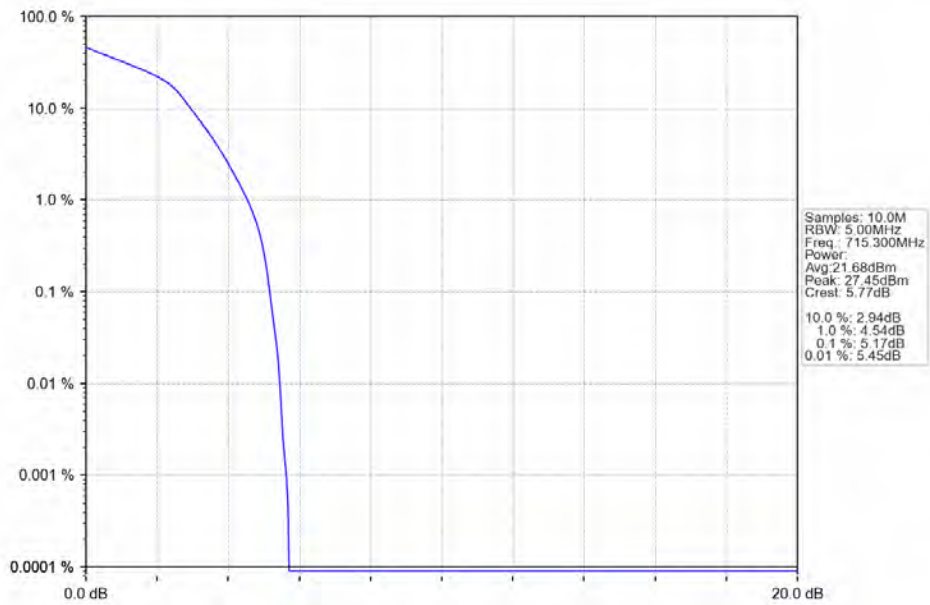
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



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

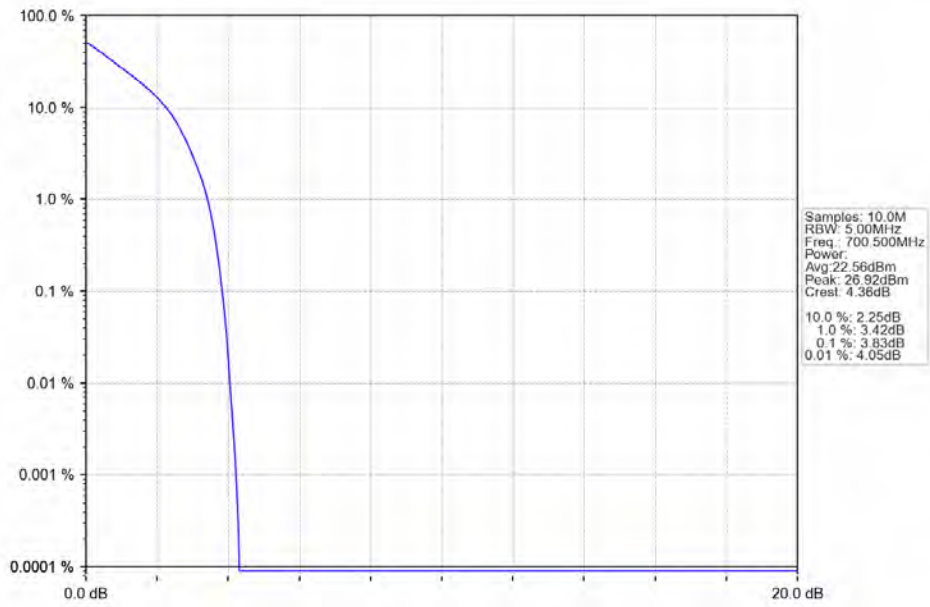


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

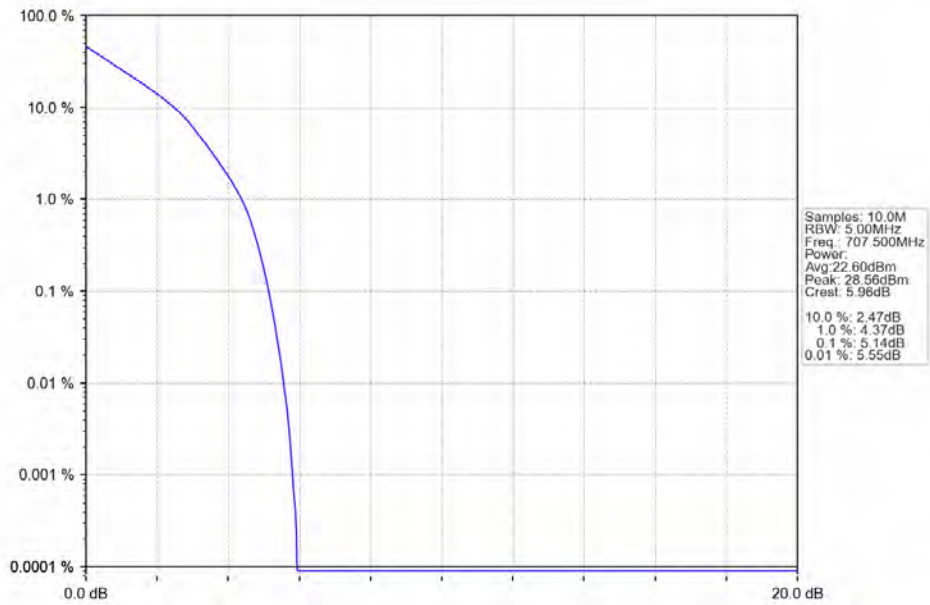


### 4.2.2 B12\_3MHz

Band12 3MHz QPSK LCH 700.5MHz RB 15.0 NTV

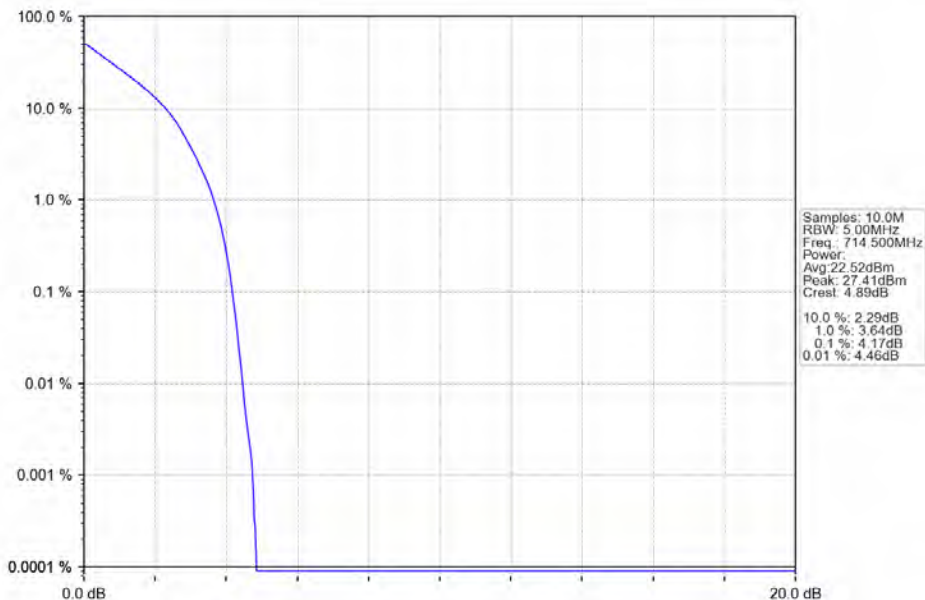


Band12 3MHz QPSK MCH 707.5MHz RB 15.0 NTV

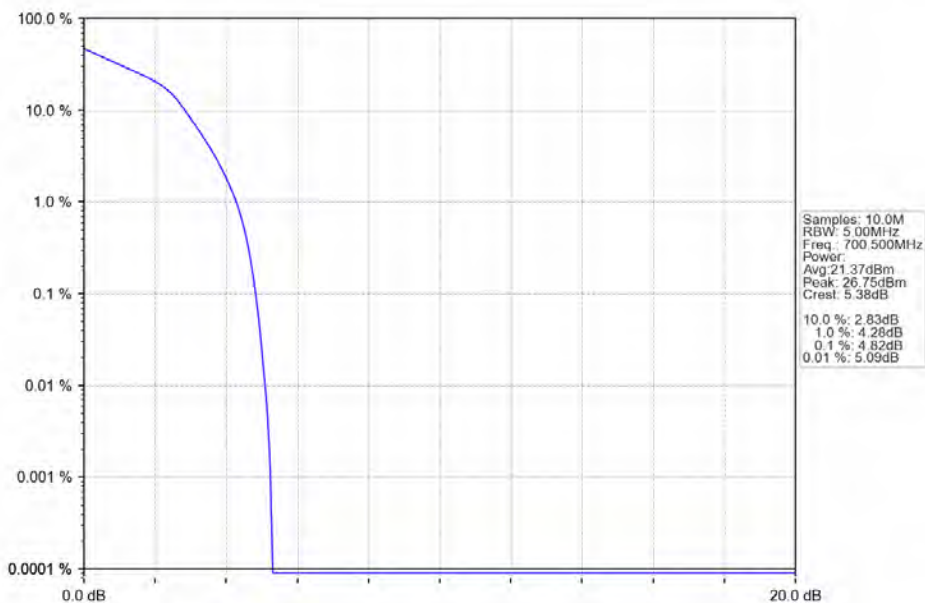




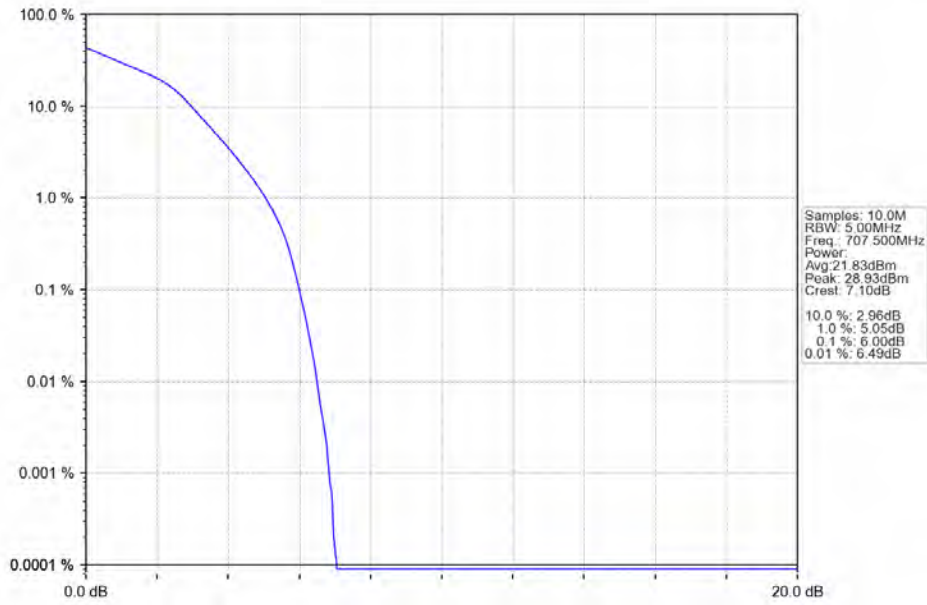
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



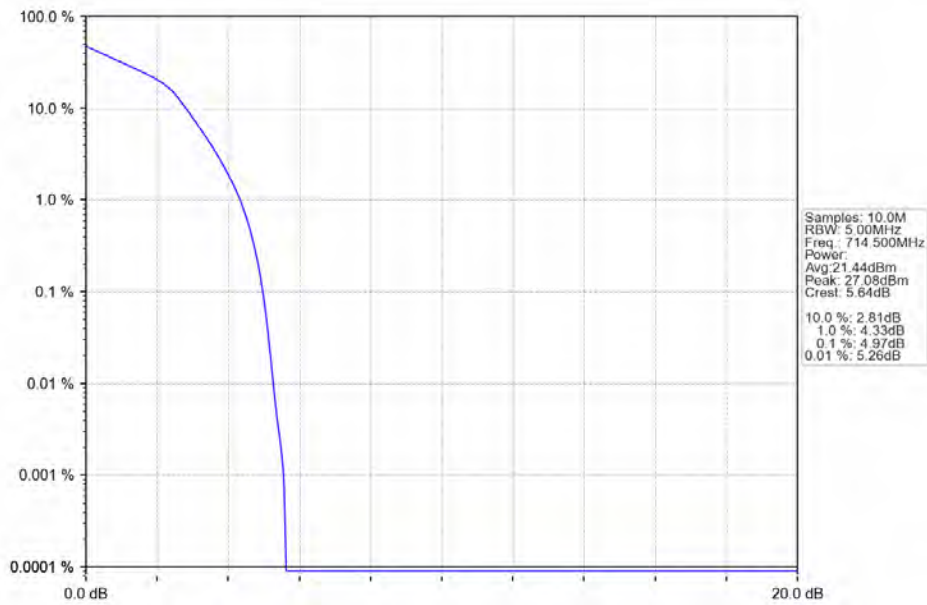
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

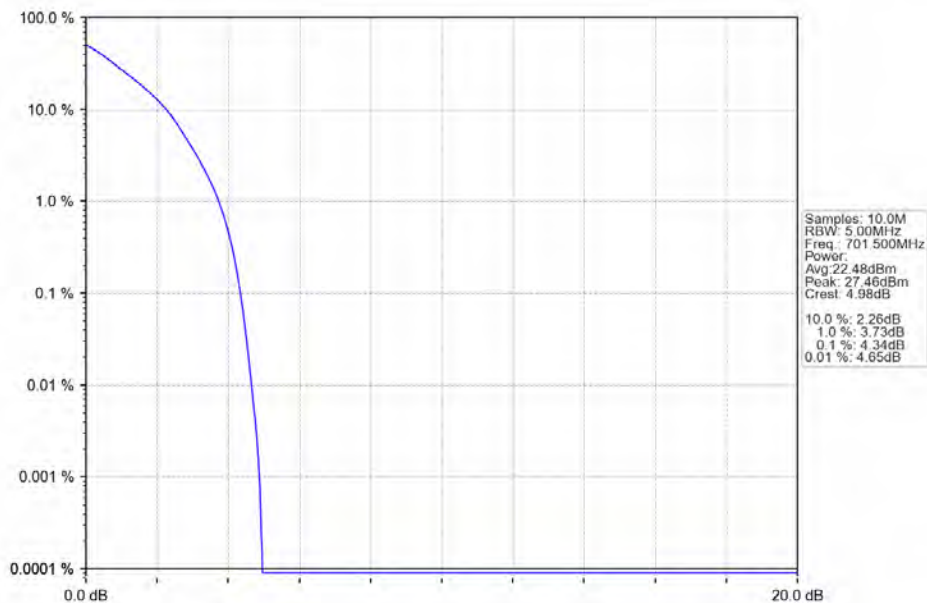


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

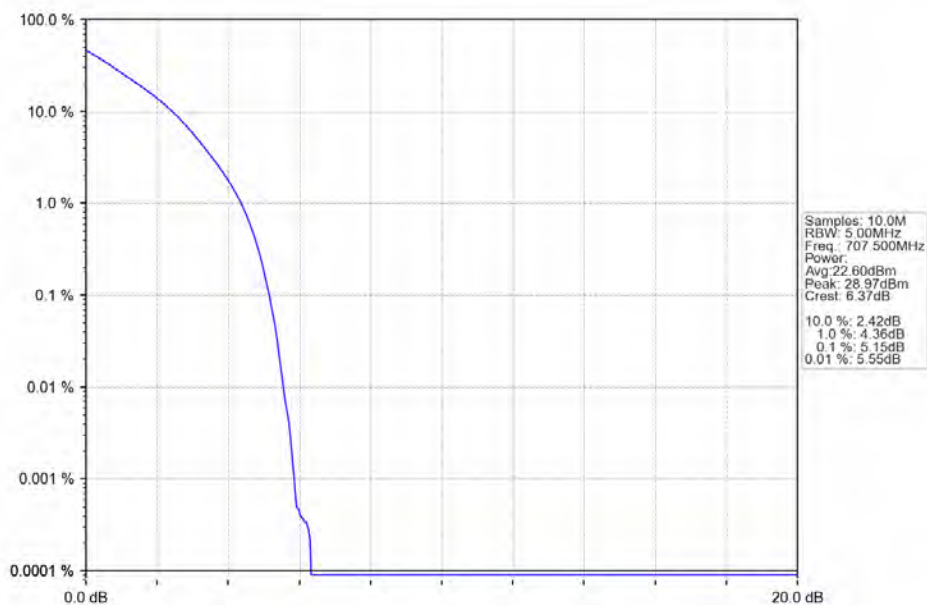


### 4.2.3 B12\_5MHz

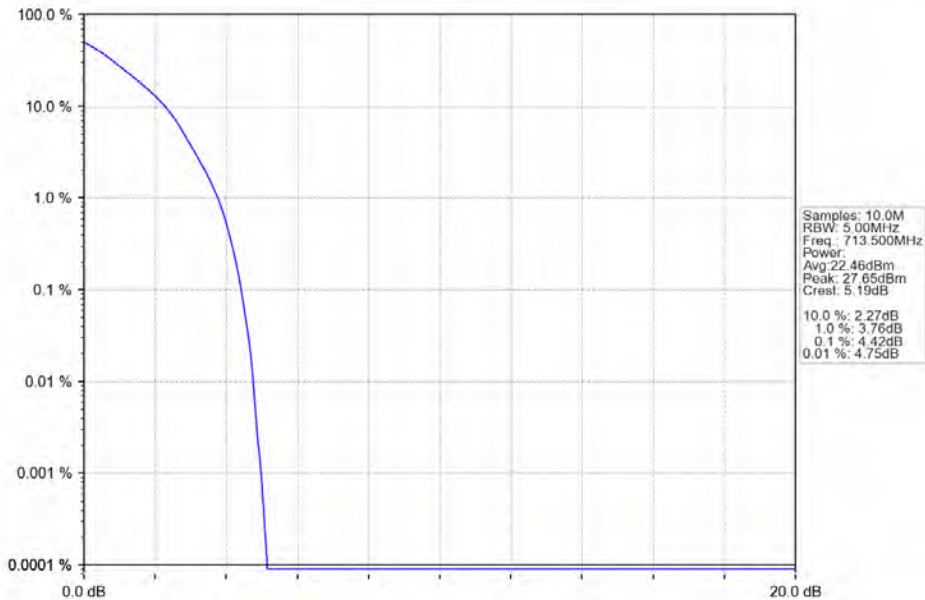
Band12 5MHz QPSK LCH 701.5MHz RB 25.0 NTNV



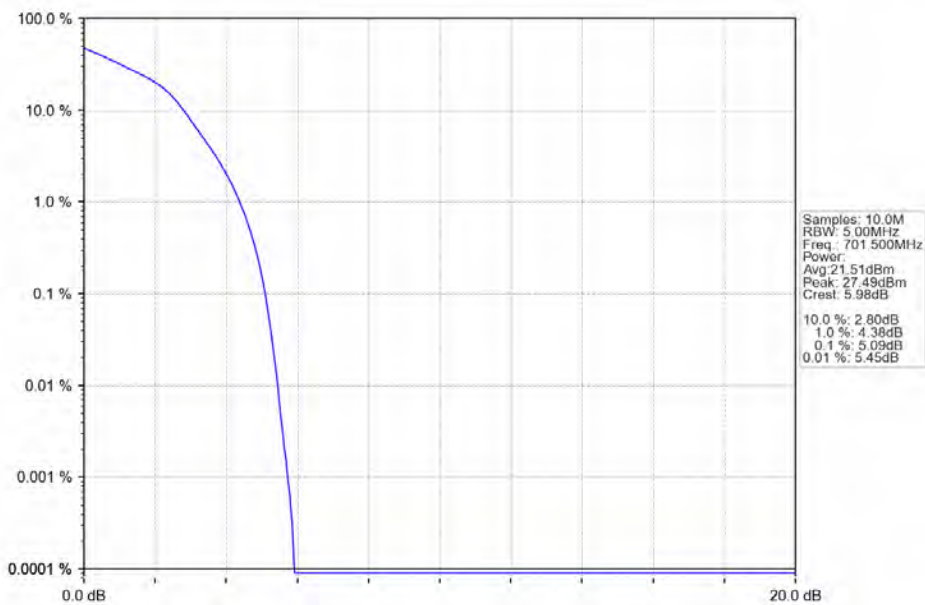
Band12 5MHz QPSK MCH 707.5MHz RB 25.0 NTNV



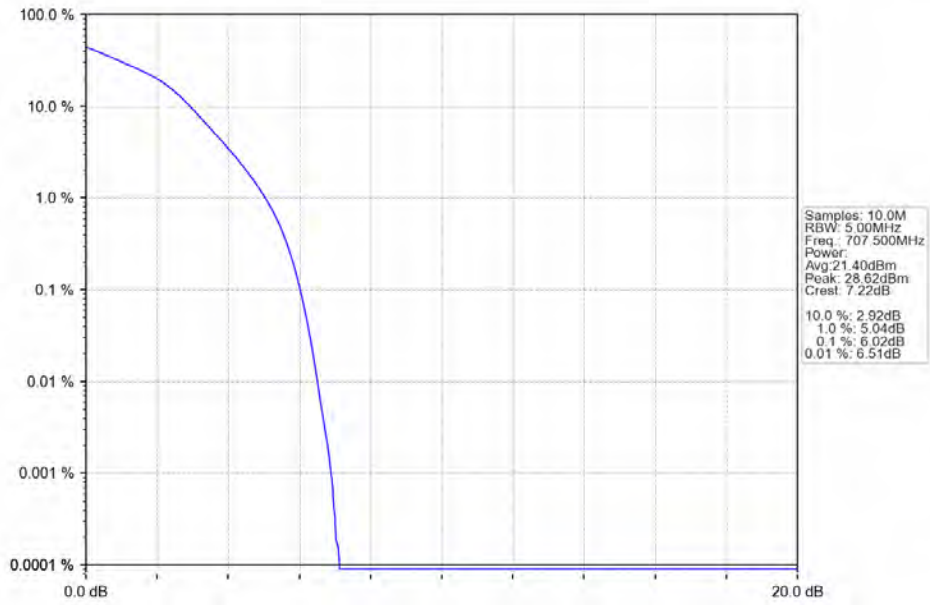
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



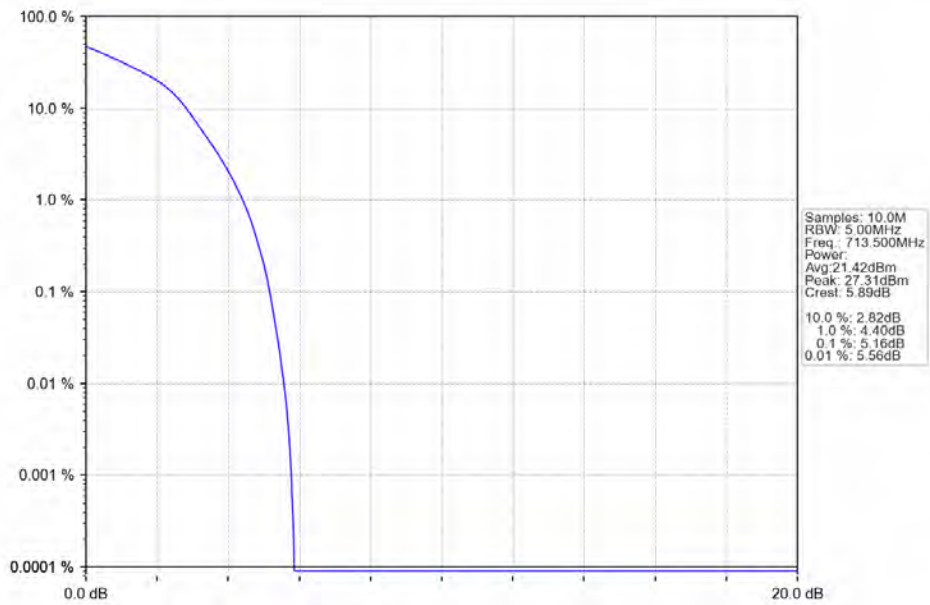
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV

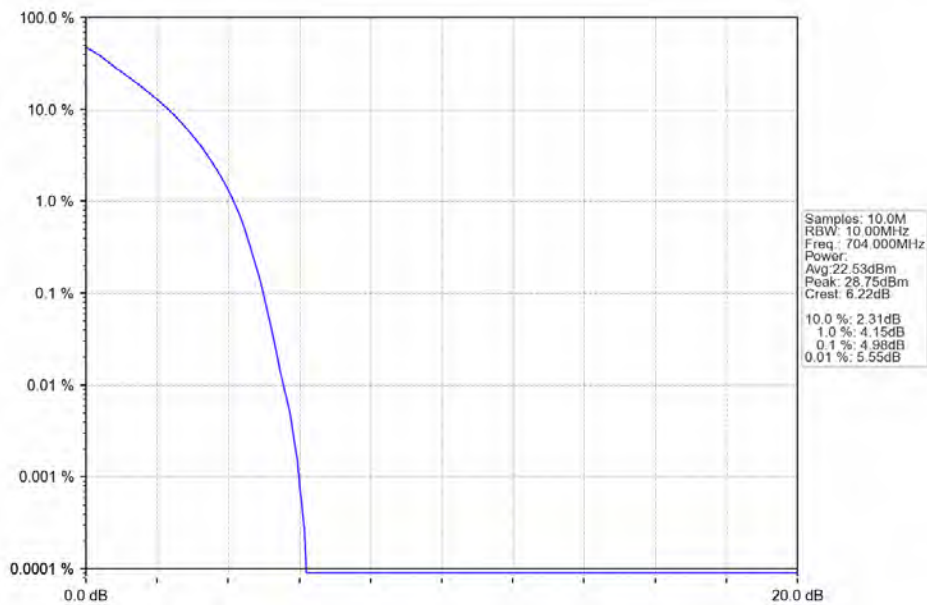


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

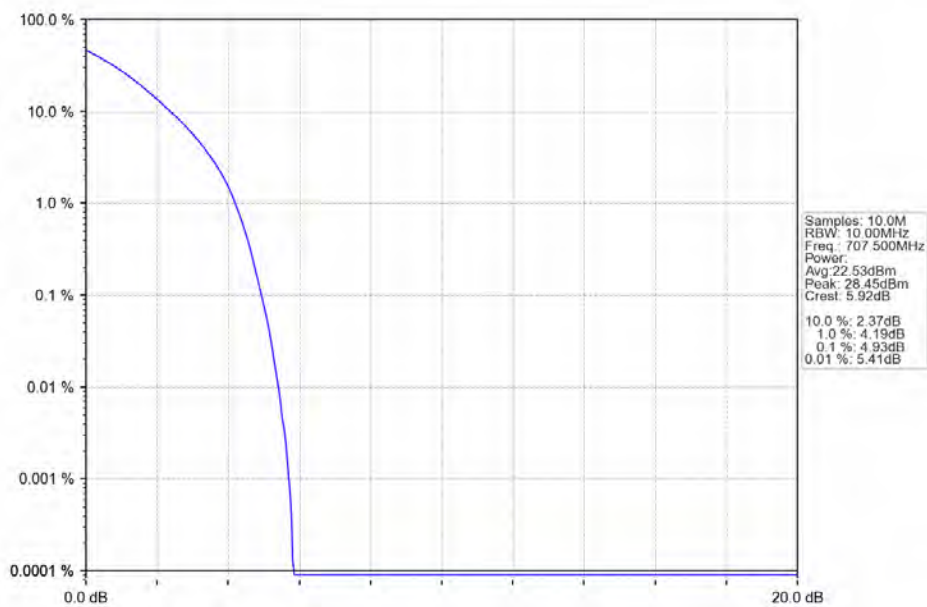


### 4.2.4 B12\_10MHz

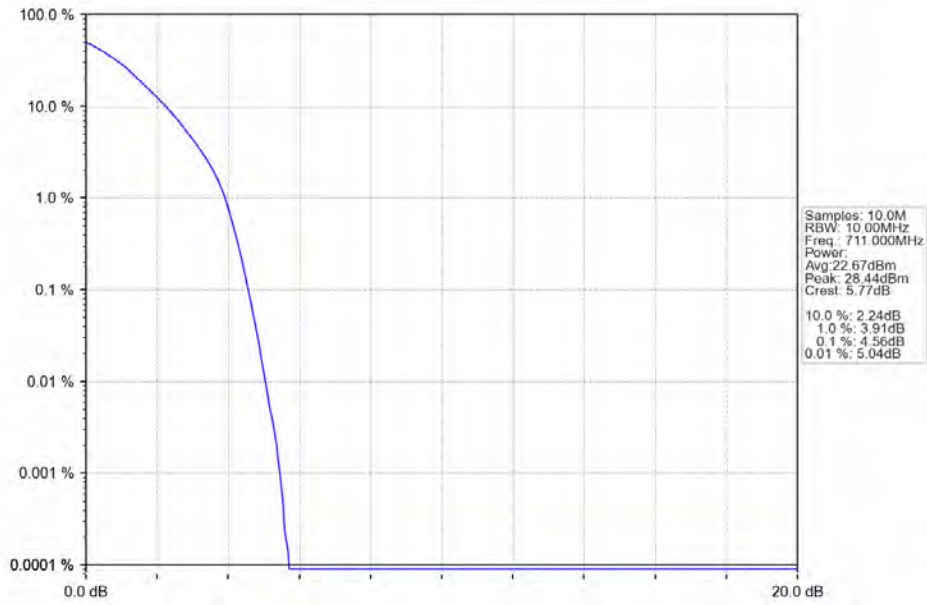
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



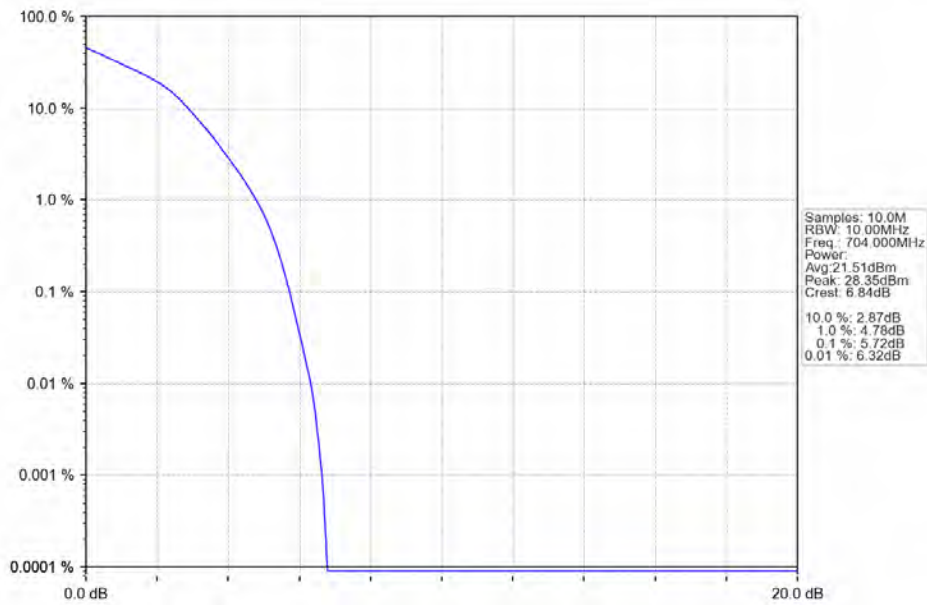
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



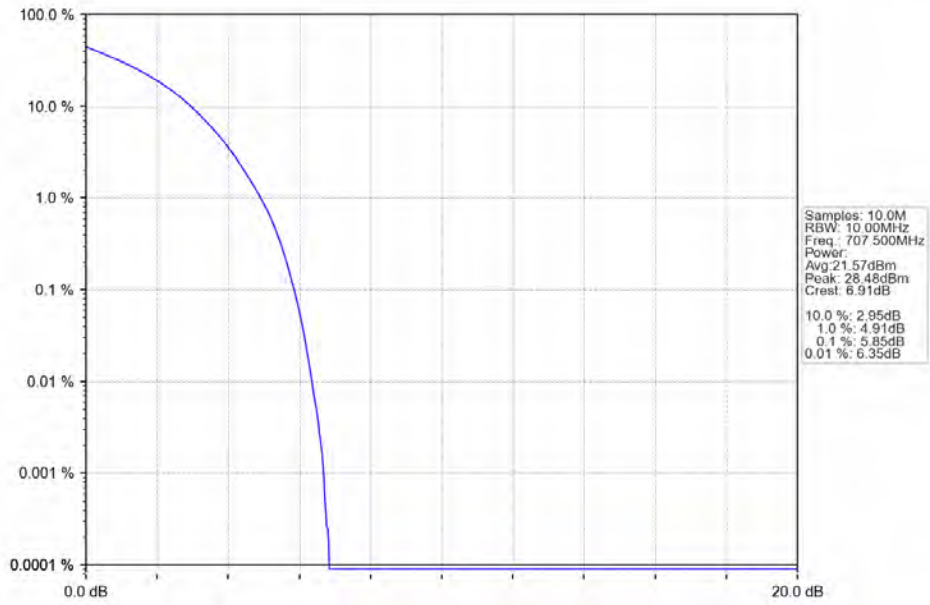
Band12 10MHz QPSK HCH 711MHz RB 50\_0 NTV



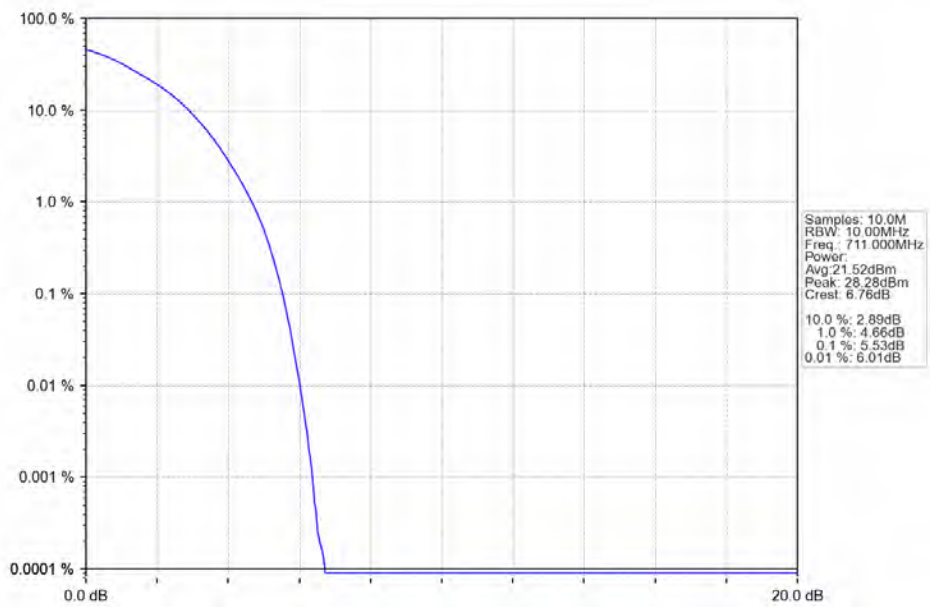
Band12 10MHz 16QAM LCH 704MHz RB 50\_0 NTV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV





## 5. Spurious Emission & Band Edges

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

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

#### 5.1.2 B12\_3MHz

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

#### 5.1.3 B12\_5MHz

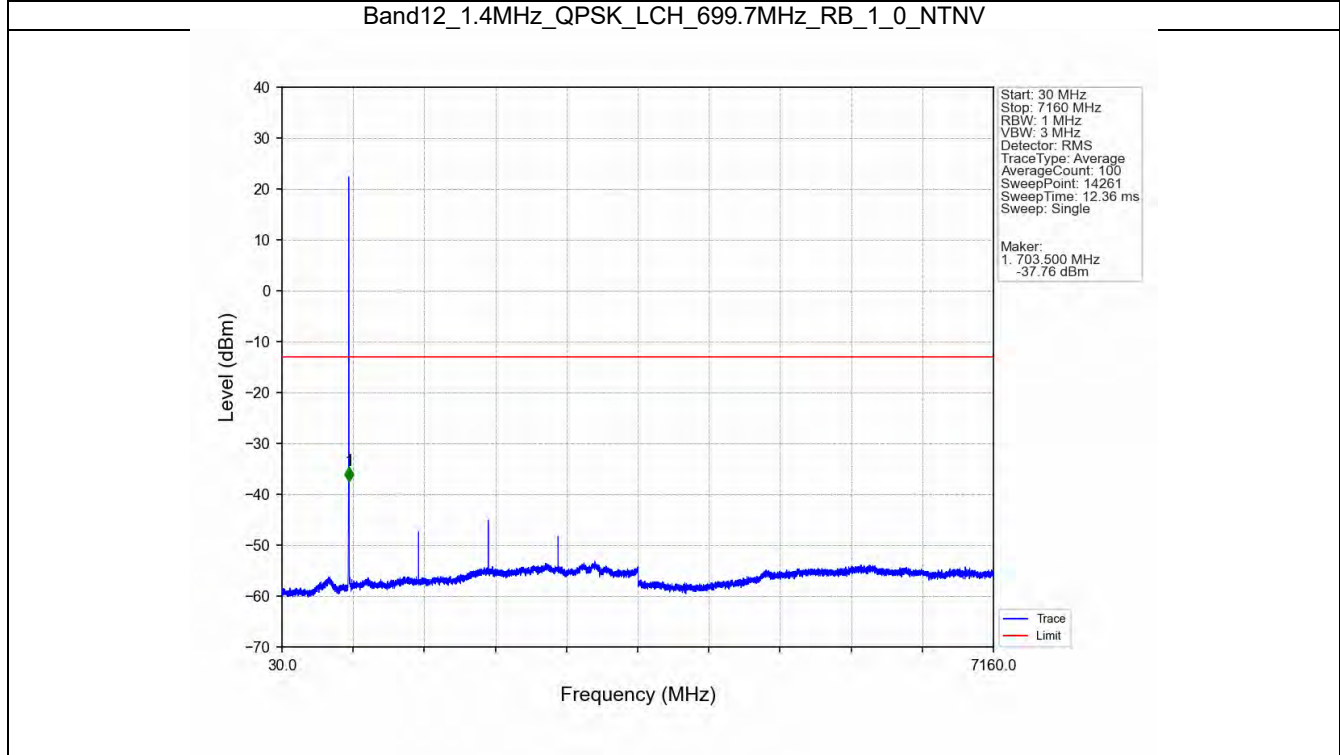
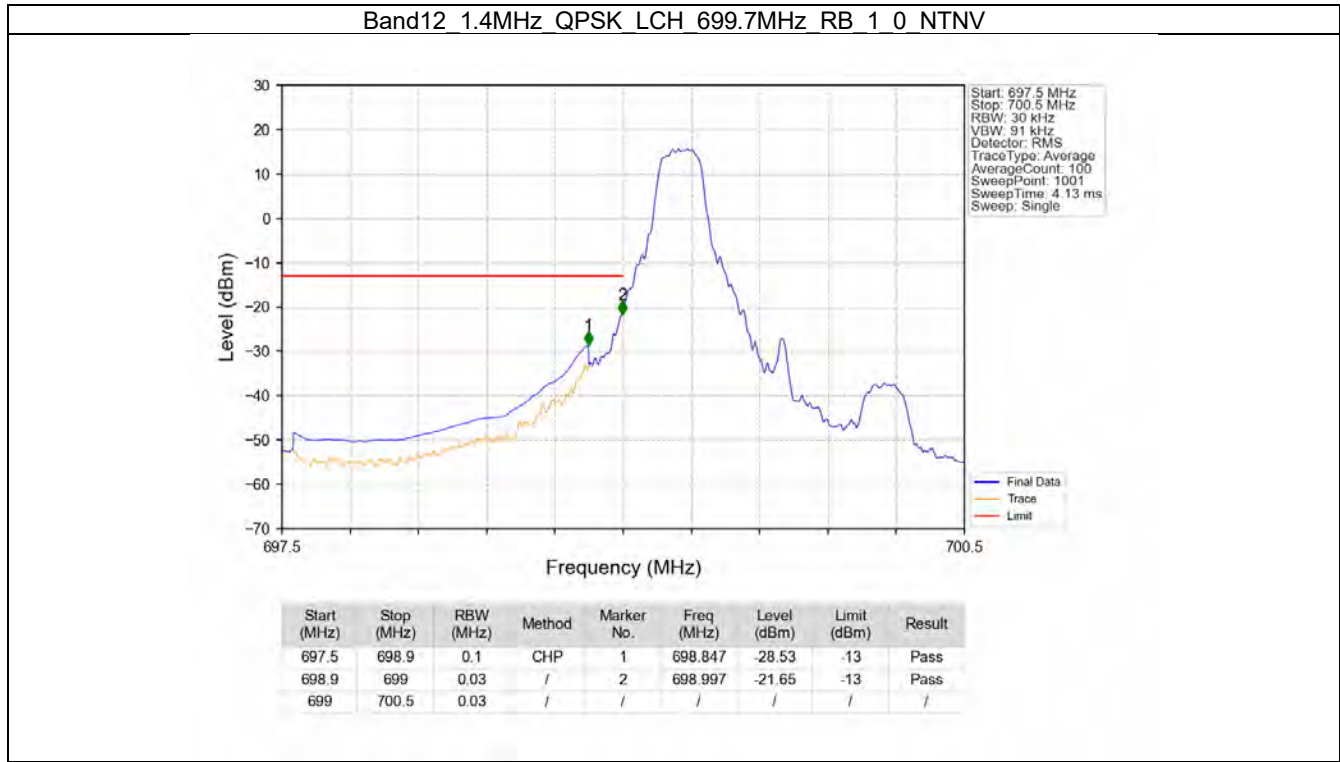
| Band: 12 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation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

#### 5.1.4 B12\_10MHz

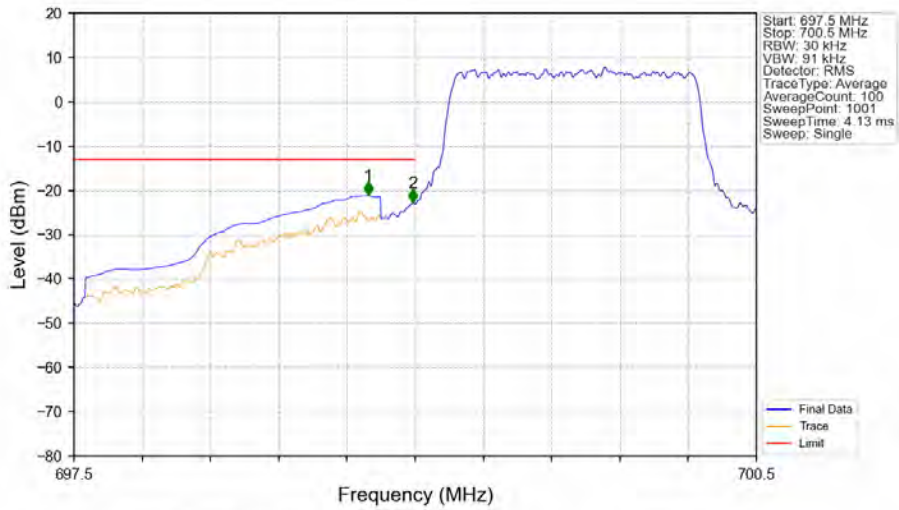
| Band: 12 / Bandwidth: 10MHz / NTV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB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

## 5.2 Test Graph

### 5.2.1 B12\_1.4MHz

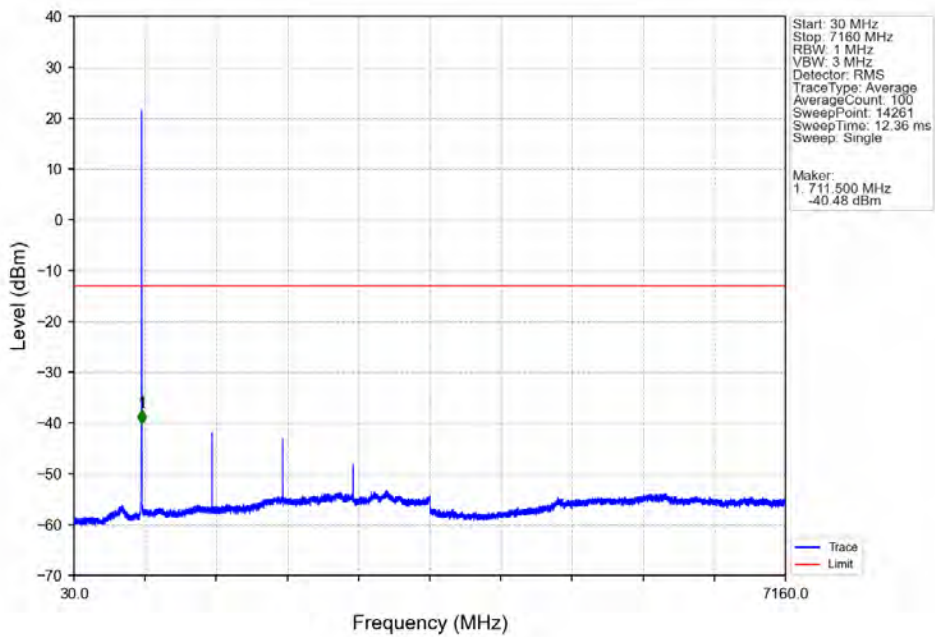


Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 697.5       | 698.9      | 0.1       | CHP    | 1          | 698.793    | -21.17      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.991    | -22.76      | -13         | Pass   |
| 699         | 700.5      | 0.03      | /      | /          | /          | /           | /           | /      |

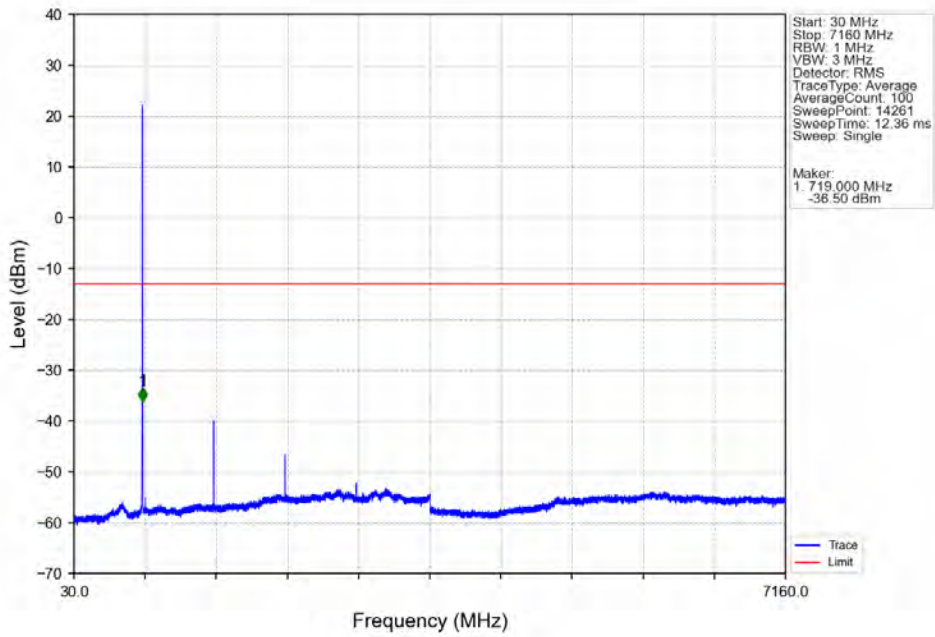
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTV



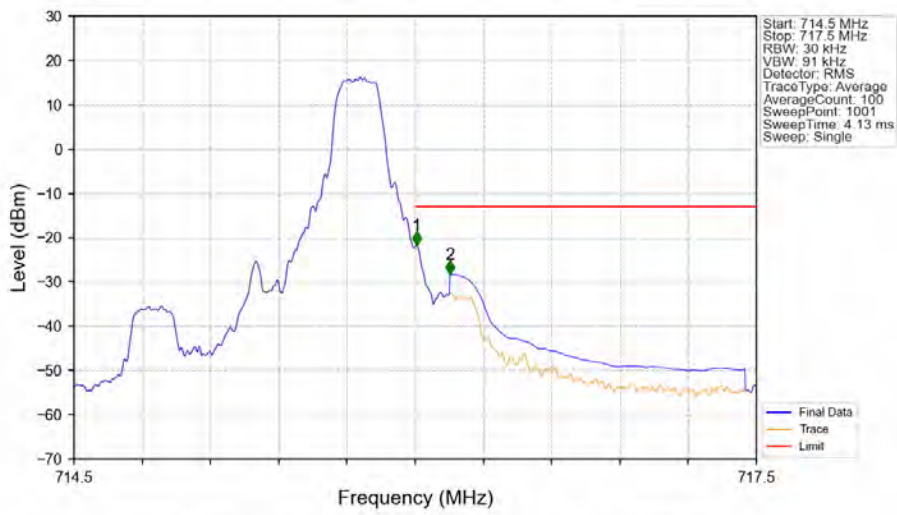
Start: 30 MHz  
 Stop: 7160 MHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 TraceType: Average  
 AverageCount: 100  
 SweepPoint: 14261  
 SweepTime: 12.36 ms  
 Sweep: Single

Marker:  
 1: 711.500 MHz  
 -40.48 dBm

Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

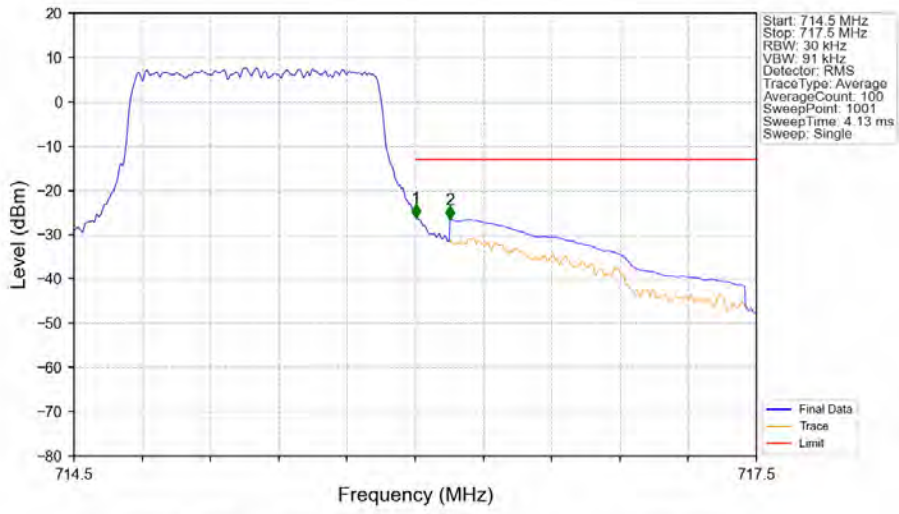


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -21.70      | -13         | Pass   |
| 716.1       | 717.5      | 0.1       | CHP    | 2          | 716.153    | -28.29      | -13         | Pass   |

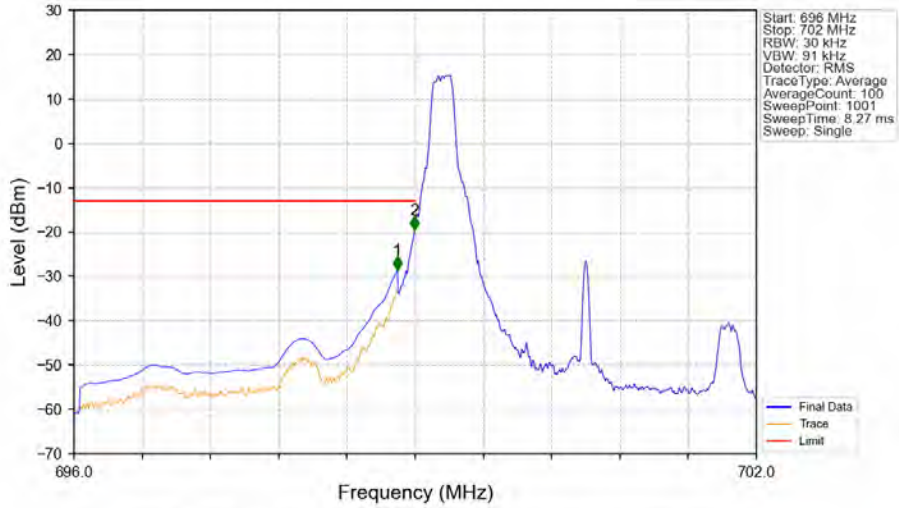
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 714.5       | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.003    | -26.23      | -13         | Pass   |
| 716.1       | 717.5      | 0.1       | CHP    | 2          | 716.153    | -26.50      | -13         | Pass   |

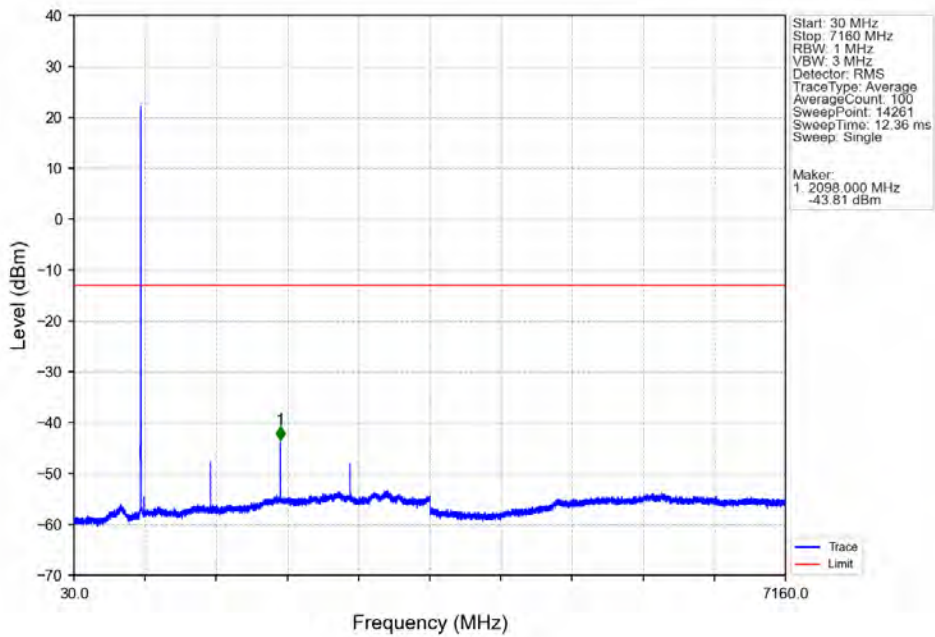
### 5.2.2 B12\_3MHz

Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTN

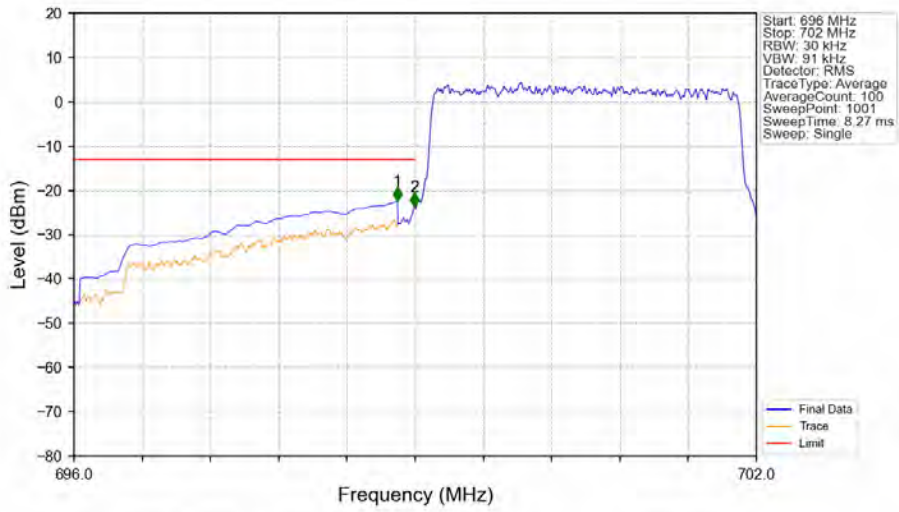


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -28.53      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -19.52      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTN

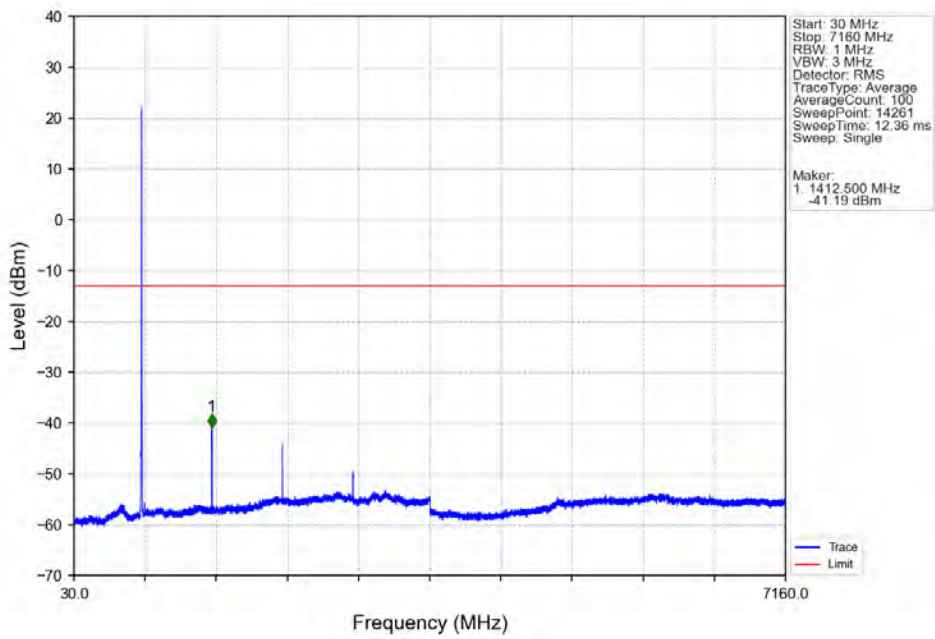


Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

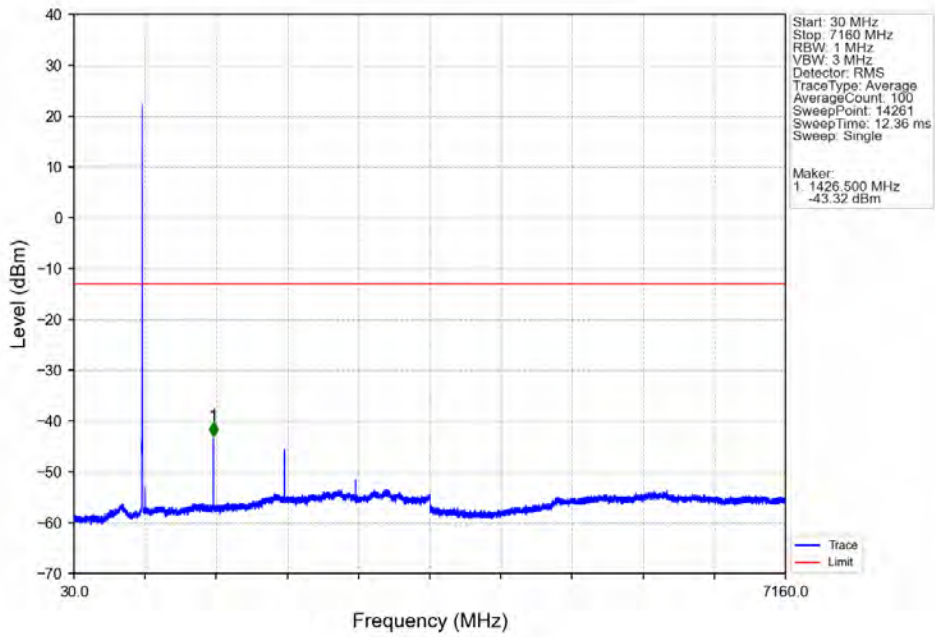


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -22.41      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -23.65      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

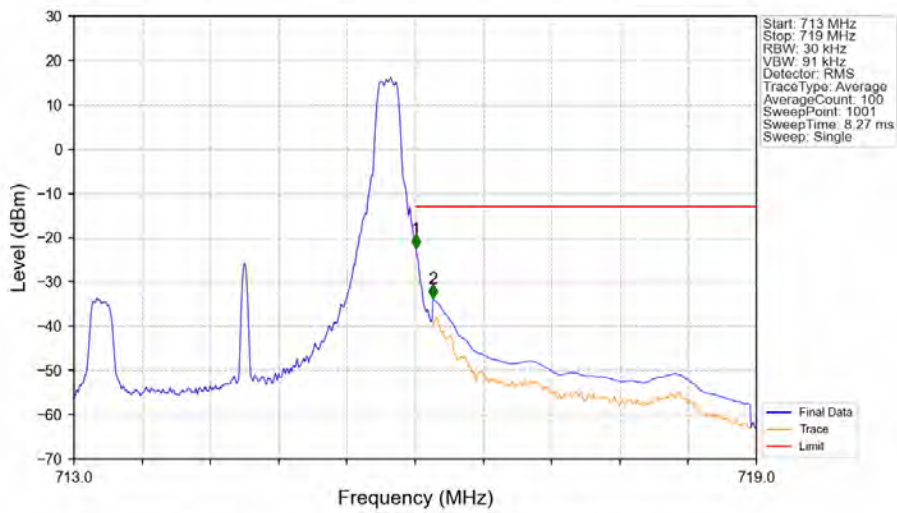
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



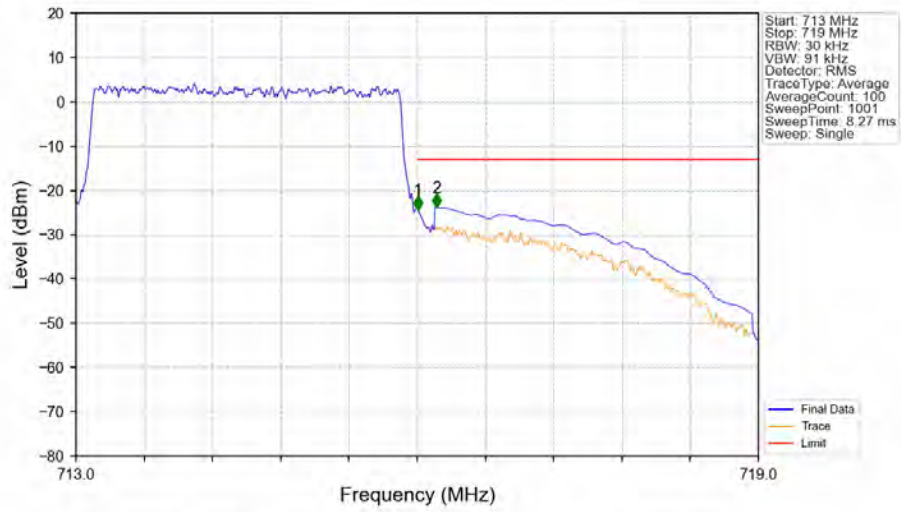
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -22.35      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -33.65      | -13         | Pass   |



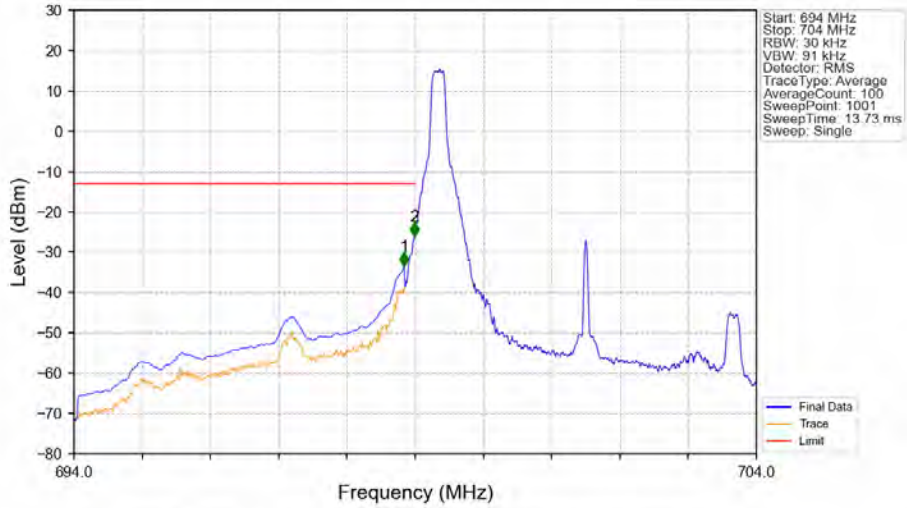
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -24.38      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.168    | -23.79      | -13         | Pass   |

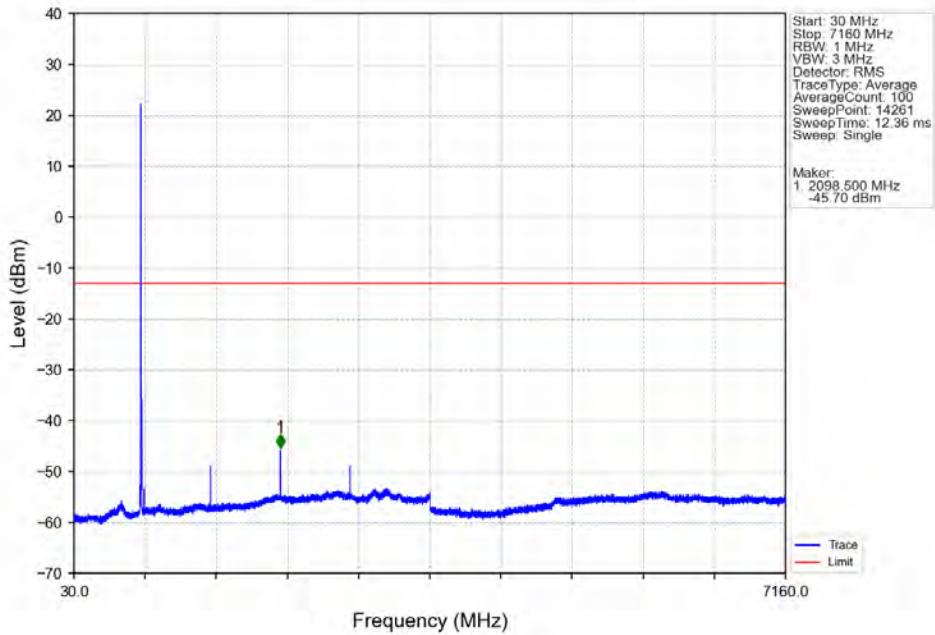
### 5.2.3 B12\_5MHz

Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTN

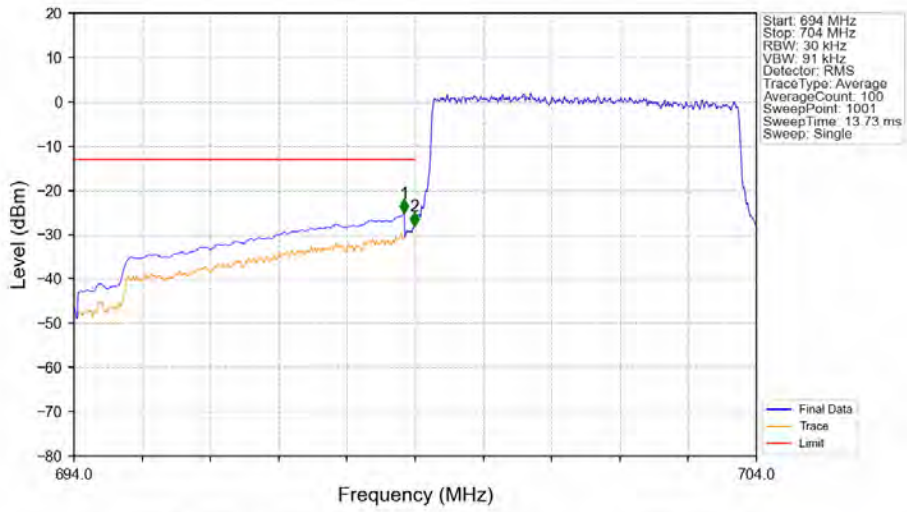


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.840    | -33.45      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.990    | -26.09      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

Band12 5MHz QPSK LCH 701.5MHz RB 1 0 NTN

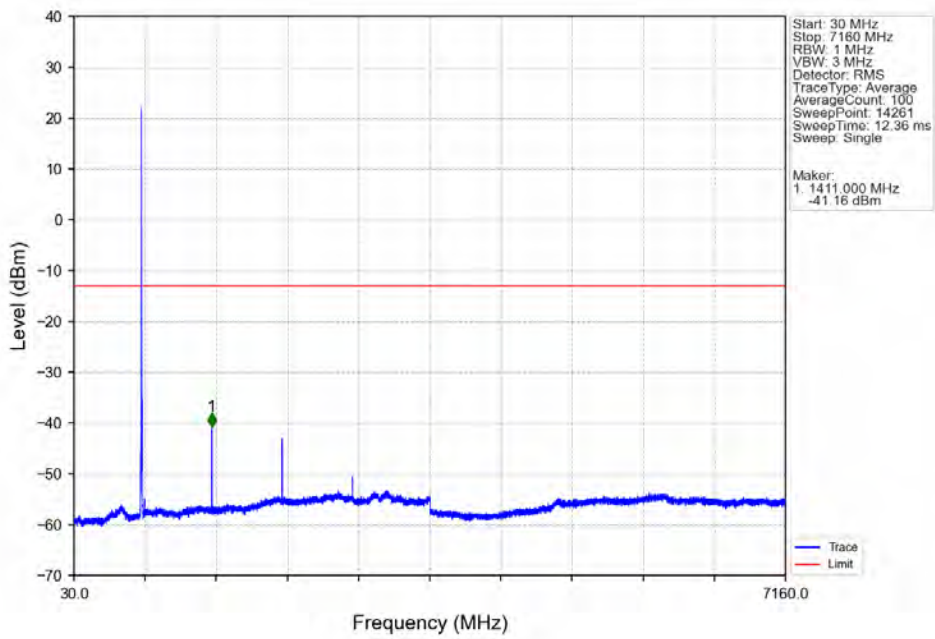


Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

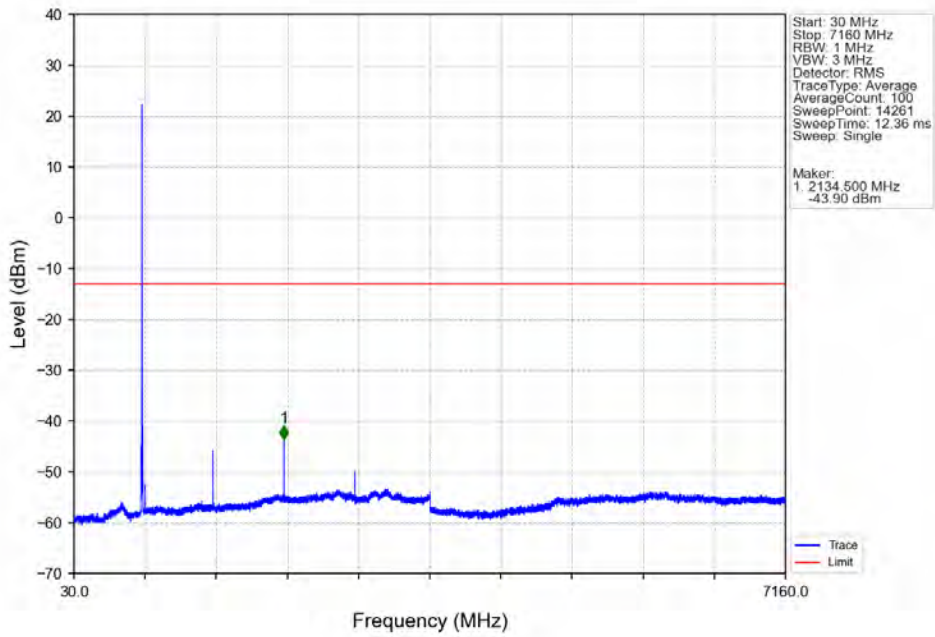


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.840    | -25.20      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.990    | -28.09      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

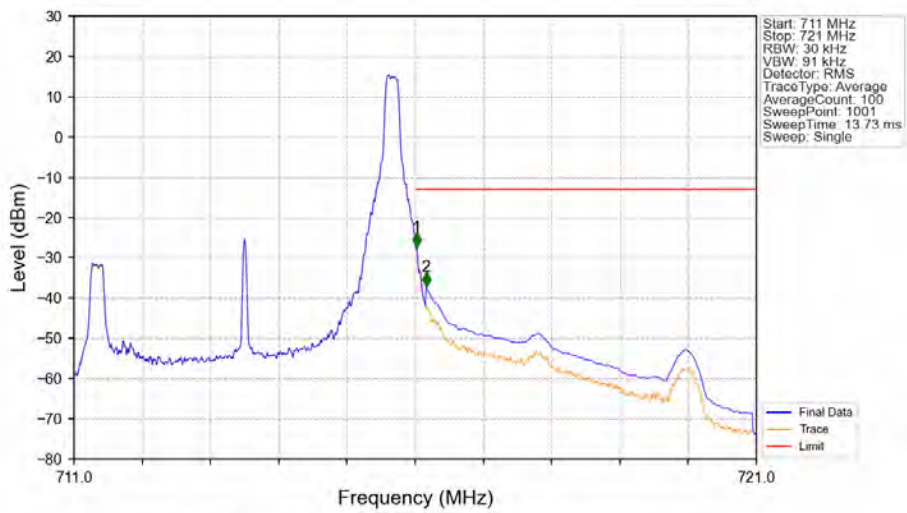
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

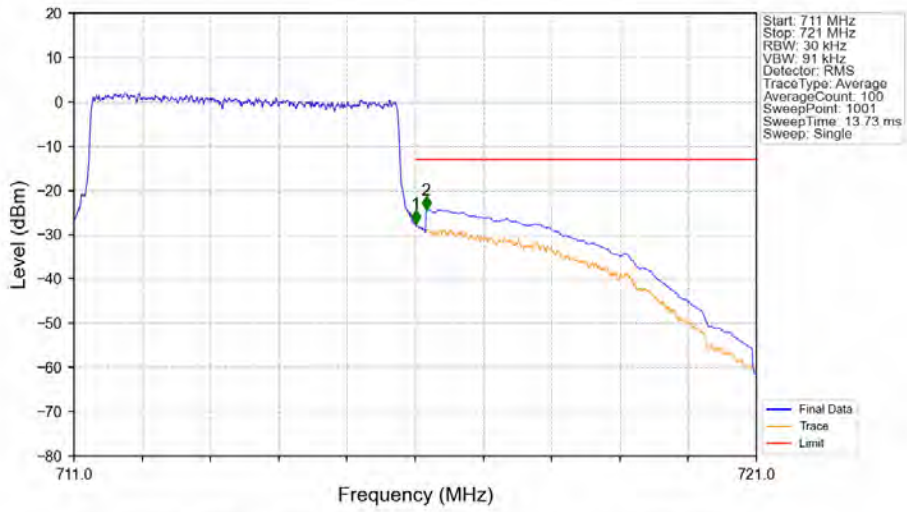


Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.020    | -27.19      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -37.04      | -13         | Pass   |

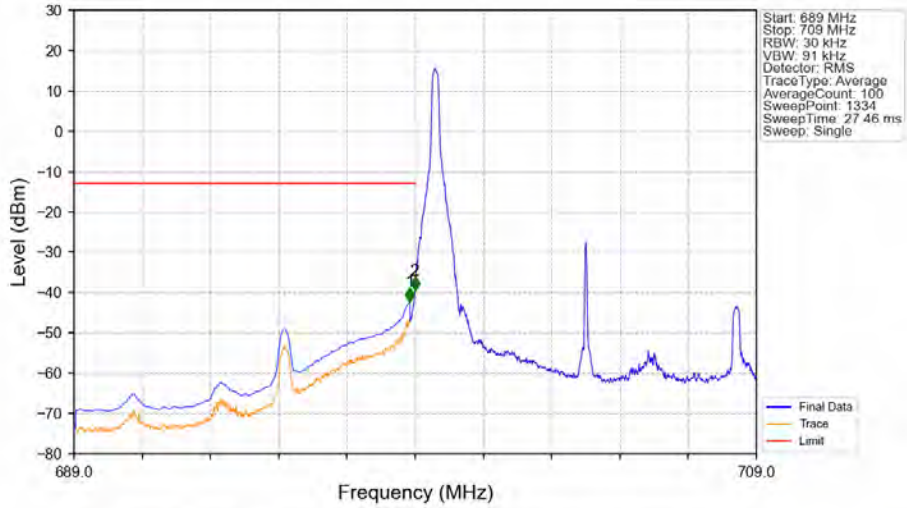
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.010    | -27.43      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -24.37      | -13         | Pass   |

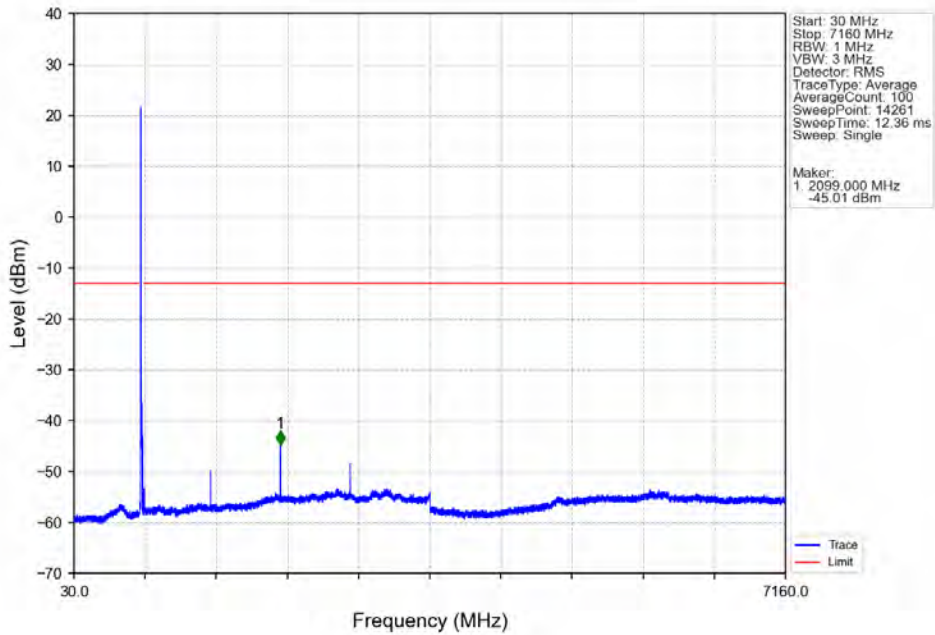
### 5.2.4 B12\_10MHz

Band12 10MHz QPSK LCH 704MHz RB 1 0 NTVN

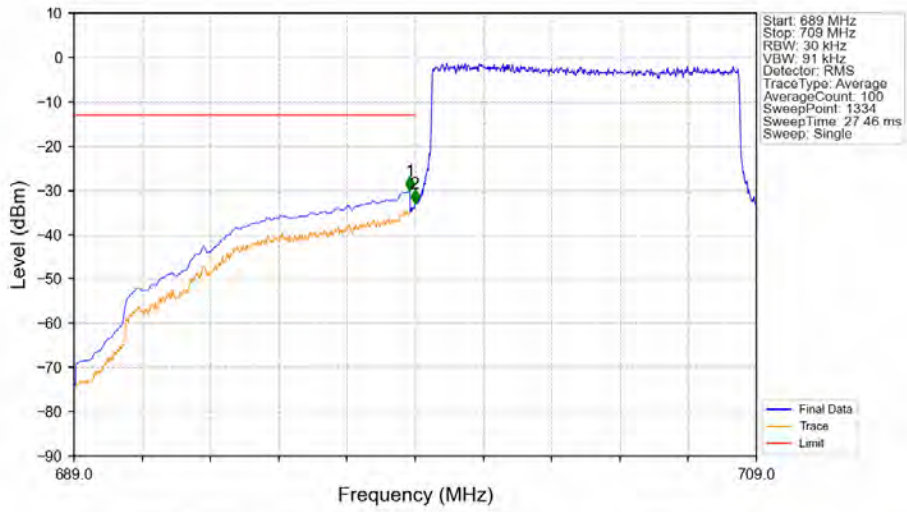


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -42.17      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.992    | -39.51      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

Band12 10MHz QPSK LCH 704MHz RB 1 0 NTVN

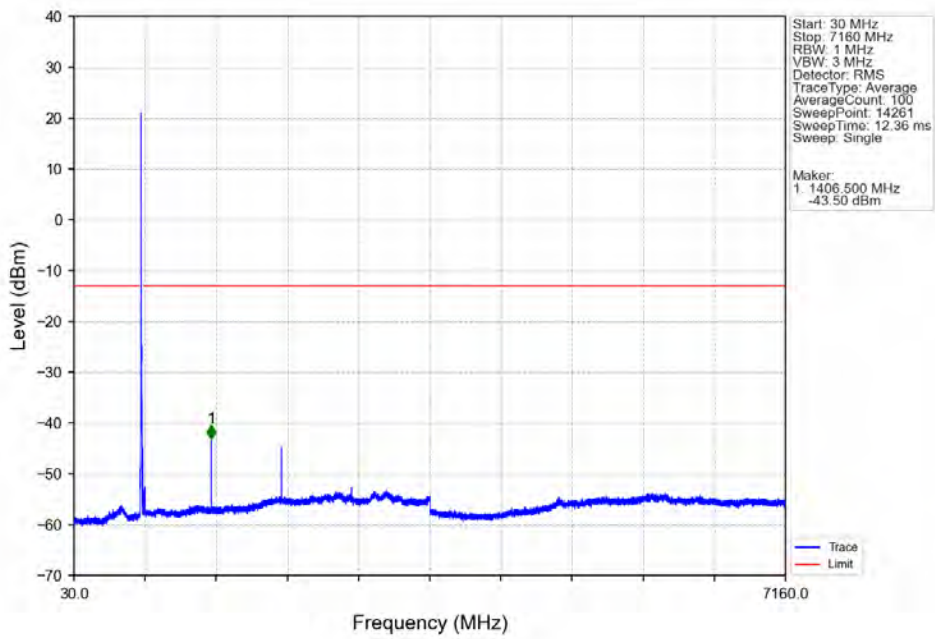


Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV

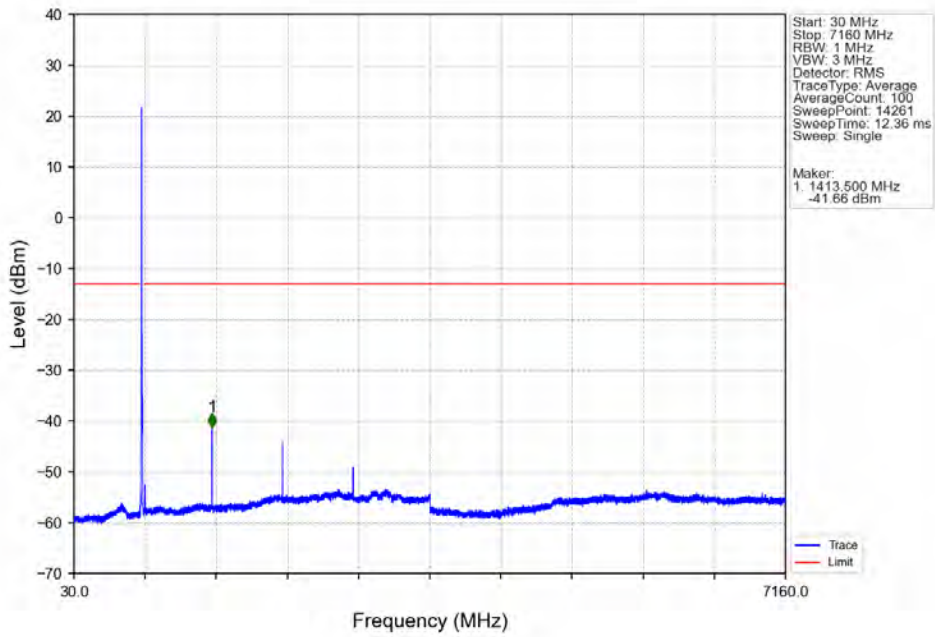


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -29.97      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.992    | -32.89      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

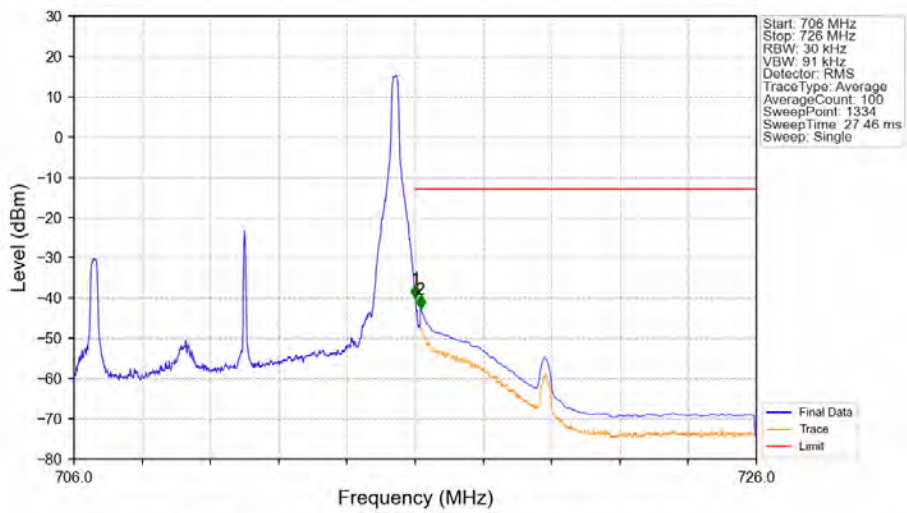
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV



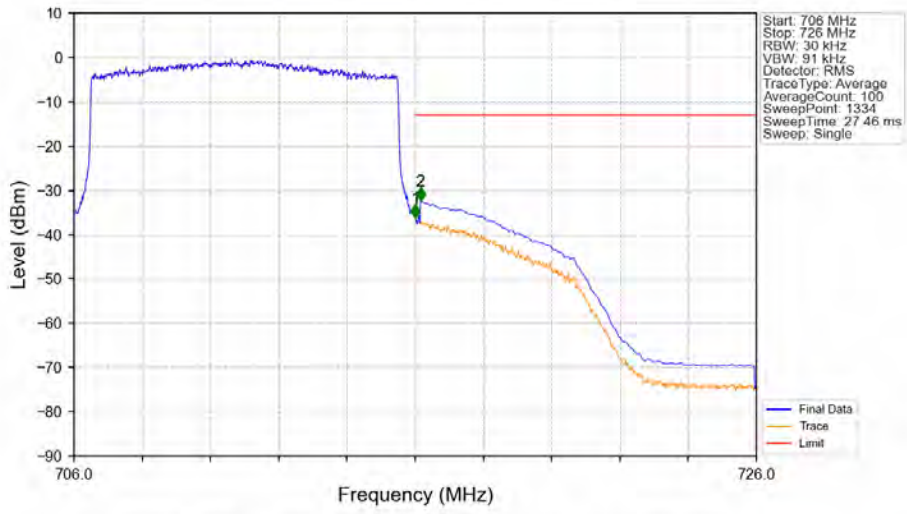
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.008    | -40.16      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -42.64      | -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          | 716.008    | -36.13      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -32.40      | -13         | Pass   |

## 6. Field Strength of Spurious Radiation

**Test Band = LTE Band12\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                      |             |          |             |             |             |            |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1398.8571       | 73.45                | -48.00      | 25.20    | -44.61      | -13.00      | 31.61       | Horizontal |
| 2               | 2098.8571       | 63.59                | -47.71      | 26.40    | -52.98      | -13.00      | 39.98       | Horizontal |
| 3               | 2798.2857       | 74.32                | -46.92      | 27.74    | -40.13      | -13.00      | 27.13       | Horizontal |
| 4               | 3497.7143       | 53.98                | -46.54      | 28.60    | -59.22      | -13.00      | 46.22       | Horizontal |
| 5               | 4197.7143       | 44.38                | -45.96      | 29.87    | -66.96      | -13.00      | 53.96       | Horizontal |
| 6               | 5775.4286       | 43.31                | -44.64      | 32.36    | -64.23      | -13.00      | 51.23       | Horizontal |

| Final Data List |                 |                      |             |          |             |             |             |          |
|-----------------|-----------------|----------------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1398.8571       | 66.87                | -48.00      | 25.20    | -51.19      | -13.00      | 38.19       | Vertical |
| 2               | 2098.8571       | 52.65                | -47.71      | 26.40    | -63.92      | -13.00      | 50.92       | Vertical |
| 3               | 2798.2857       | 59.40                | -46.92      | 27.74    | -55.05      | -13.00      | 42.05       | Vertical |
| 4               | 3498.2857       | 50.09                | -46.54      | 28.60    | -63.11      | -13.00      | 50.11       | Vertical |
| 5               | 4578.8571       | 43.79                | -45.75      | 30.73    | -66.49      | -13.00      | 53.49       | Vertical |
| 6               | 5824            | 43.11                | -44.73      | 32.36    | -64.52      | -13.00      | 51.52       | Vertical |

**Test Band = LTE Band12\_ TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1406.2857       | 67.37          | -48.02      | 25.21    | -50.70      | -13.00      | 37.70       | Horizontal |
| 2               | 2109.1429       | 59.49          | -47.71      | 26.42    | -57.06      | -13.00      | 44.06       | Horizontal |
| 3               | 2812            | 63.21          | -46.88      | 27.76    | -51.17      | -13.00      | 38.17       | Horizontal |
| 4               | 3515.4286       | 48.49          | -46.51      | 28.62    | -64.65      | -13.00      | 51.65       | Horizontal |
| 5               | 4577.1429       | 43.53          | -45.75      | 30.72    | -66.75      | -13.00      | 53.75       | Horizontal |
| 6               | 6056            | 43.59          | -44.58      | 32.59    | -63.66      | -13.00      | 50.66       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1406.2857       | 62.24          | -48.02      | 25.21    | -55.83      | -13.00      | 42.83       | Vertical |
| 2               | 2109.1429       | 53.42          | -47.71      | 26.42    | -63.13      | -13.00      | 50.13       | Vertical |
| 3               | 2812.5714       | 53.00          | -46.88      | 27.76    | -61.37      | -13.00      | 48.37       | Vertical |
| 4               | 3515.4286       | 44.86          | -46.51      | 28.62    | -68.28      | -13.00      | 55.28       | Vertical |
| 5               | 4572.5714       | 43.41          | -45.74      | 30.72    | -66.87      | -13.00      | 53.87       | Vertical |
| 6               | 6638.2857       | 41.83          | -44.33      | 34.35    | -63.41      | -13.00      | 50.41       | Vertical |

**Test Band = LTE Band12\_ TM1**  
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1413.1429       | 73.57          | -48.04      | 25.21    | -44.52      | -13.00      | 31.52       | Horizontal |
| 2               | 2120            | 65.59          | -47.70      | 26.44    | -50.93      | -13.00      | 37.93       | Horizontal |
| 3               | 2826.2857       | 67.44          | -46.83      | 27.79    | -46.86      | -13.00      | 33.86       | Horizontal |
| 4               | 3533.1429       | 48.92          | -46.47      | 28.65    | -64.16      | -13.00      | 51.16       | Horizontal |
| 5               | 4913.7143       | 43.27          | -45.61      | 31.26    | -66.34      | -13.00      | 53.34       | Horizontal |
| 6               | 6399.4286       | 42.63          | -44.74      | 33.76    | -63.61      | -13.00      | 50.61       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1413.1429       | 68.42          | -48.04      | 25.21    | -49.67      | -13.00      | 36.67       | Vertical |
| 2               | 2120            | 55.81          | -47.70      | 26.44    | -60.71      | -13.00      | 47.71       | Vertical |
| 3               | 2826.2857       | 55.49          | -46.83      | 27.79    | -58.81      | -13.00      | 45.81       | Vertical |
| 4               | 3970.8571       | 43.90          | -46.21      | 29.35    | -68.22      | -13.00      | 55.22       | Vertical |
| 5               | 5400.5714       | 44.00          | -44.97      | 32.12    | -64.11      | -13.00      | 51.11       | Vertical |
| 6               | 6927.4286       | 42.33          | -44.01      | 34.87    | -62.07      | -13.00      | 49.07       | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---