

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B71\_5MHz\_ERP

| Band: 71 / Bandwidth: 5MHz / NTV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 665.5           | 1             | 0      | 24.12                 | 3.00       | 24.97     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 24.15                 | 3.00       | 25.00     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 24.02                 | 3.00       | 24.87     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 23.07                 | 3.00       | 23.92     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 23.13                 | 3.00       | 23.98     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 23.06                 | 3.00       | 23.91     | <=34.77 | Pass    |
|                                  |                 | 25            | 0      | 23.09                 | 3.00       | 23.94     | <=34.77 | Pass    |
|                                  | 680.5           | 1             | 0      | 24.08                 | 3.00       | 24.93     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 24.10                 | 3.00       | 24.95     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 24.00                 | 3.00       | 24.85     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 23.06                 | 3.00       | 23.91     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 23.11                 | 3.00       | 23.96     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 23.05                 | 3.00       | 23.90     | <=34.77 | Pass    |
|                                  |                 | 25            | 0      | 23.08                 | 3.00       | 23.93     | <=34.77 | Pass    |
|                                  | 695.5           | 1             | 0      | 24.00                 | 3.00       | 24.85     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 24.04                 | 3.00       | 24.89     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 23.89                 | 3.00       | 24.74     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 22.97                 | 3.00       | 23.82     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 23.01                 | 3.00       | 23.86     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 22.93                 | 3.00       | 23.78     | <=34.77 | Pass    |
|                                  |                 | 25            | 0      | 22.96                 | 3.00       | 23.81     | <=34.77 | Pass    |
| 16QAM                            | 665.5           | 1             | 0      | 22.91                 | 3.00       | 23.76     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 22.97                 | 3.00       | 23.82     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 22.88                 | 3.00       | 23.73     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 22.05                 | 3.00       | 22.90     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 22.11                 | 3.00       | 22.96     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 22.11                 | 3.00       | 22.96     | <=34.77 | Pass    |
|                                  |                 | 25            | 0      | 22.15                 | 3.00       | 23.00     | <=34.77 | Pass    |
|                                  | 680.5           | 1             | 0      | 23.27                 | 3.00       | 24.12     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 23.33                 | 3.00       | 24.18     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 23.22                 | 3.00       | 24.07     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 22.14                 | 3.00       | 22.99     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 22.17                 | 3.00       | 23.02     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 22.13                 | 3.00       | 22.98     | <=34.77 | Pass    |
|                                  |                 | 25            | 0      | 22.09                 | 3.00       | 22.94     | <=34.77 | Pass    |
|                                  | 695.5           | 1             | 0      | 23.04                 | 3.00       | 23.89     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 23.04                 | 3.00       | 23.89     | <=34.77 | Pass    |
|                                  |                 |               | 24     | 22.97                 | 3.00       | 23.82     | <=34.77 | Pass    |
|                                  |                 | 12            | 0      | 21.97                 | 3.00       | 22.82     | <=34.77 | Pass    |
|                                  |                 |               | 6      | 21.97                 | 3.00       | 22.82     | <=34.77 | Pass    |
|                                  |                 |               | 13     | 21.92                 | 3.00       | 22.77     | <=34.77 | Pass    |
|                                  |                 | 25            | 0      | 21.95                 | 3.00       | 22.80     | <=34.77 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B71\_10MHz\_ERP

| Band: 71 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 668             | 1             | 0      | 24.13                 | 3.00       | 24.98     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.04                 | 3.00       | 24.89     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.96                 | 3.00       | 24.81     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.08                 | 3.00       | 23.93     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.13                 | 3.00       | 23.98     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.03                 | 3.00       | 23.88     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.10                 | 3.00       | 23.95     | <=34.77 | Pass    |
|                                    | 680.5           | 1             | 0      | 24.09                 | 3.00       | 24.94     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.01                 | 3.00       | 24.86     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.91                 | 3.00       | 24.76     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.08                 | 3.00       | 23.93     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.14                 | 3.00       | 23.99     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.10                 | 3.00       | 23.95     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.07                 | 3.00       | 23.92     | <=34.77 | Pass    |
|                                    | 693             | 1             | 0      | 24.10                 | 3.00       | 24.95     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.00                 | 3.00       | 24.85     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.92                 | 3.00       | 24.77     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.04                 | 3.00       | 23.89     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.04                 | 3.00       | 23.89     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.94                 | 3.00       | 23.79     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.00                 | 3.00       | 23.85     | <=34.77 | Pass    |
| 16QAM                              | 668             | 1             | 0      | 23.54                 | 3.00       | 24.39     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.59                 | 3.00       | 24.44     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.49                 | 3.00       | 24.34     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.17                 | 3.00       | 23.02     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.19                 | 3.00       | 23.04     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.12                 | 3.00       | 22.97     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.13                 | 3.00       | 22.98     | <=34.77 | Pass    |
|                                    | 680.5           | 1             | 0      | 23.26                 | 3.00       | 24.11     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.20                 | 3.00       | 24.05     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 23.15                 | 3.00       | 24.00     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.15                 | 3.00       | 23.00     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.13                 | 3.00       | 22.98     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.09                 | 3.00       | 22.94     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.10                 | 3.00       | 22.95     | <=34.77 | Pass    |
|                                    | 693             | 1             | 0      | 23.13                 | 3.00       | 23.98     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.96                 | 3.00       | 23.81     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 22.85                 | 3.00       | 23.70     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 22.15                 | 3.00       | 23.00     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.11                 | 3.00       | 22.96     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 22.02                 | 3.00       | 22.87     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 22.05                 | 3.00       | 22.90     | <=34.77 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B71\_15MHz\_ERP

| Band: 71 / Bandwidth: 15MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 670.5           | 1             | 0      | 24.11                 | 3.00       | 24.96     | <=34.77 | Pass    |
|                                    |                 |               | 38     | 24.01                 | 3.00       | 24.86     | <=34.77 | Pass    |
|                                    |                 |               | 74     | 24.05                 | 3.00       | 24.90     | <=34.77 | Pass    |

|       |       |    |    |       |      |       |         |      |
|-------|-------|----|----|-------|------|-------|---------|------|
| 16QAM | 680.5 | 36 | 0  | 23.18 | 3.00 | 24.03 | <=34.77 | Pass |
|       |       |    | 18 | 23.14 | 3.00 | 23.99 | <=34.77 | Pass |
|       |       |    | 39 | 23.17 | 3.00 | 24.02 | <=34.77 | Pass |
|       |       | 75 | 0  | 23.22 | 3.00 | 24.07 | <=34.77 | Pass |
|       |       |    | 0  | 24.04 | 3.00 | 24.89 | <=34.77 | Pass |
|       |       |    | 38 | 24.03 | 3.00 | 24.88 | <=34.77 | Pass |
|       |       | 1  | 74 | 24.00 | 3.00 | 24.85 | <=34.77 | Pass |
|       |       |    | 0  | 23.16 | 3.00 | 24.01 | <=34.77 | Pass |
|       |       |    | 18 | 23.15 | 3.00 | 24.00 | <=34.77 | Pass |
|       |       | 36 | 39 | 23.08 | 3.00 | 23.93 | <=34.77 | Pass |
|       |       |    | 0  | 23.11 | 3.00 | 23.96 | <=34.77 | Pass |
|       |       |    | 74 | 23.11 | 3.00 | 23.96 | <=34.77 | Pass |
|       | 690.5 | 1  | 0  | 24.08 | 3.00 | 24.93 | <=34.77 | Pass |
|       |       |    | 38 | 24.01 | 3.00 | 24.86 | <=34.77 | Pass |
|       |       |    | 74 | 23.91 | 3.00 | 24.76 | <=34.77 | Pass |
|       |       | 36 | 0  | 23.05 | 3.00 | 23.90 | <=34.77 | Pass |
|       |       |    | 18 | 23.11 | 3.00 | 23.96 | <=34.77 | Pass |
|       |       |    | 39 | 23.05 | 3.00 | 23.90 | <=34.77 | Pass |
|       |       | 75 | 0  | 23.02 | 3.00 | 23.87 | <=34.77 | Pass |
|       |       |    | 0  | 23.61 | 3.00 | 24.46 | <=34.77 | Pass |
|       |       |    | 38 | 23.63 | 3.00 | 24.48 | <=34.77 | Pass |
|       |       | 1  | 74 | 23.55 | 3.00 | 24.40 | <=34.77 | Pass |
|       |       |    | 0  | 22.17 | 3.00 | 23.02 | <=34.77 | Pass |
|       |       |    | 18 | 22.17 | 3.00 | 23.02 | <=34.77 | Pass |
|       | 670.5 | 36 | 39 | 22.17 | 3.00 | 23.02 | <=34.77 | Pass |
|       |       |    | 0  | 22.24 | 3.00 | 23.09 | <=34.77 | Pass |
|       |       |    | 74 | 22.24 | 3.00 | 23.09 | <=34.77 | Pass |
|       |       | 1  | 0  | 23.20 | 3.00 | 24.05 | <=34.77 | Pass |
|       |       |    | 38 | 23.21 | 3.00 | 24.06 | <=34.77 | Pass |
|       |       |    | 74 | 23.19 | 3.00 | 24.04 | <=34.77 | Pass |
|       |       | 36 | 0  | 22.15 | 3.00 | 23.00 | <=34.77 | Pass |
|       |       |    | 18 | 22.16 | 3.00 | 23.01 | <=34.77 | Pass |
|       |       |    | 39 | 22.07 | 3.00 | 22.92 | <=34.77 | Pass |
|       |       | 75 | 0  | 22.16 | 3.00 | 23.01 | <=34.77 | Pass |
|       |       |    | 0  | 23.45 | 3.00 | 24.30 | <=34.77 | Pass |
|       |       |    | 38 | 23.39 | 3.00 | 24.24 | <=34.77 | Pass |
|       | 680.5 | 1  | 74 | 23.16 | 3.00 | 24.01 | <=34.77 | Pass |
|       |       |    | 0  | 22.06 | 3.00 | 22.91 | <=34.77 | Pass |
|       |       |    | 18 | 22.11 | 3.00 | 22.96 | <=34.77 | Pass |
|       |       | 36 | 39 | 21.99 | 3.00 | 22.84 | <=34.77 | Pass |
|       |       |    | 0  | 21.96 | 3.00 | 22.81 | <=34.77 | Pass |
|       |       |    | 74 | 21.96 | 3.00 | 22.81 | <=34.77 | Pass |
|       | 690.5 | 1  | 0  | 23.45 | 3.00 | 24.30 | <=34.77 | Pass |
|       |       |    | 38 | 23.39 | 3.00 | 24.24 | <=34.77 | Pass |
|       |       |    | 74 | 23.16 | 3.00 | 24.01 | <=34.77 | Pass |
|       |       | 36 | 0  | 22.06 | 3.00 | 22.91 | <=34.77 | Pass |
|       |       |    | 18 | 22.11 | 3.00 | 22.96 | <=34.77 | Pass |
|       |       |    | 39 | 21.99 | 3.00 | 22.84 | <=34.77 | Pass |
|       |       | 75 | 0  | 21.96 | 3.00 | 22.81 | <=34.77 | Pass |
|       |       |    | 74 | 21.96 | 3.00 | 22.81 | <=34.77 | Pass |
|       |       |    | 0  | 21.96 | 3.00 | 22.81 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

#### 1.1.4 B71\_20MHz\_ERP

| Band: 71 / Bandwidth: 20MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 673             | 1             | 0      | 24.10                 | 3.00       | 24.95     | <=34.77 | Pass    |
|                                    |                 |               | 50     | 23.99                 | 3.00       | 24.84     | <=34.77 | Pass    |
|                                    |                 |               | 99     | 23.96                 | 3.00       | 24.81     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.13                 | 3.00       | 23.98     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.15                 | 3.00       | 24.00     | <=34.77 | Pass    |
|                                    |                 |               | 50     | 23.07                 | 3.00       | 23.92     | <=34.77 | Pass    |
|                                    |                 | 100           | 0      | 23.12                 | 3.00       | 23.97     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 24.02                 | 3.00       | 24.87     | <=34.77 | Pass    |
|                                    |                 | 1             | 50     | 24.00                 | 3.00       | 24.85     | <=34.77 | Pass    |
|                                    |                 |               | 50     | 24.00                 | 3.00       | 24.85     | <=34.77 | Pass    |

|       |     |     |    |       |      |       |         |      |
|-------|-----|-----|----|-------|------|-------|---------|------|
| 16QAM | 688 | 50  | 99 | 23.92 | 3.00 | 24.77 | <=34.77 | Pass |
|       |     |     | 0  | 23.10 | 3.00 | 23.95 | <=34.77 | Pass |
|       |     |     | 25 | 23.02 | 3.00 | 23.87 | <=34.77 | Pass |
|       |     |     | 50 | 22.95 | 3.00 | 23.80 | <=34.77 | Pass |
|       |     | 100 | 0  | 23.05 | 3.00 | 23.90 | <=34.77 | Pass |
|       |     |     | 0  | 24.07 | 3.00 | 24.92 | <=34.77 | Pass |
|       |     | 1   | 50 | 24.04 | 3.00 | 24.89 | <=34.77 | Pass |
|       |     |     | 99 | 23.86 | 3.00 | 24.71 | <=34.77 | Pass |
|       |     | 50  | 0  | 23.09 | 3.00 | 23.94 | <=34.77 | Pass |
|       |     |     | 25 | 23.03 | 3.00 | 23.88 | <=34.77 | Pass |
|       |     |     | 50 | 22.98 | 3.00 | 23.83 | <=34.77 | Pass |
|       |     | 100 | 0  | 22.96 | 3.00 | 23.81 | <=34.77 | Pass |
|       | 673 | 1   | 0  | 23.28 | 3.00 | 24.13 | <=34.77 | Pass |
|       |     |     | 50 | 23.25 | 3.00 | 24.10 | <=34.77 | Pass |
|       |     |     | 99 | 23.20 | 3.00 | 24.05 | <=34.77 | Pass |
|       |     | 50  | 0  | 22.12 | 3.00 | 22.97 | <=34.77 | Pass |
|       |     |     | 25 | 22.13 | 3.00 | 22.98 | <=34.77 | Pass |
|       |     |     | 50 | 22.06 | 3.00 | 22.91 | <=34.77 | Pass |
|       |     | 100 | 0  | 22.14 | 3.00 | 22.99 | <=34.77 | Pass |
|       |     |     | 0  | 23.23 | 3.00 | 24.08 | <=34.77 | Pass |
|       | 683 | 1   | 50 | 23.20 | 3.00 | 24.05 | <=34.77 | Pass |
|       |     |     | 99 | 23.06 | 3.00 | 23.91 | <=34.77 | Pass |
|       |     | 50  | 0  | 22.14 | 3.00 | 22.99 | <=34.77 | Pass |
|       |     |     | 25 | 22.06 | 3.00 | 22.91 | <=34.77 | Pass |
|       |     |     | 50 | 21.98 | 3.00 | 22.83 | <=34.77 | Pass |
|       |     | 100 | 0  | 22.08 | 3.00 | 22.93 | <=34.77 | Pass |
|       |     |     | 0  | 23.60 | 3.00 | 24.45 | <=34.77 | Pass |
|       | 688 | 1   | 50 | 23.57 | 3.00 | 24.42 | <=34.77 | Pass |
|       |     |     | 99 | 23.28 | 3.00 | 24.13 | <=34.77 | Pass |
|       |     | 50  | 0  | 22.09 | 3.00 | 22.94 | <=34.77 | Pass |
|       |     |     | 25 | 22.04 | 3.00 | 22.89 | <=34.77 | Pass |
|       |     |     | 50 | 21.97 | 3.00 | 22.82 | <=34.77 | Pass |
|       |     | 100 | 0  | 21.98 | 3.00 | 22.83 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B71\_5MHz

| Band: 71 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 665.5           | 25            | 0      | 20         | 3.27          | 0.399            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -1.306           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 0.738            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -0.297           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 2.968            | 0.0045                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -0.281           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 3.802            | 0.0057                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 4.353            | 0.0065                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | 0.977            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.075           | -0.0001               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
| 16QAM | 680.5 | 25 | 0 | 50  | 3.85 | 1.004  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | -0.219 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.560 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 4.43 | 1.018  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 1.393  | 0.0020  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -1.953 | -0.0029 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.117  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -1.885 | -0.0028 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -0.251 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 1.418  | 0.0021  | -2.5 to 2.5 | Pass |
|       | 695.5 | 25 | 0 | 40  | 3.85 | -1.767 | -0.0026 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.922  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 3.27 | -0.832 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.919 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 4.43 | 2.602  | 0.0037  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 1.200  | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 0.115  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.045  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -0.965 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 1.888  | 0.0027  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 3.306  | 0.0048  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 1.846  | 0.0027  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.121  | 0.0002  | -2.5 to 2.5 | Pass |
|       | 665.5 | 25 | 0 | 20  | 3.27 | 3.101  | 0.0047  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -1.213 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 4.43 | 0.206  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.040  | 0.0001  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 2.892  | 0.0043  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.923  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.875  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 0.919  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -2.025 | -0.0030 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.642  | 0.0010  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -1.017 | -0.0015 | -2.5 to 2.5 | Pass |
|       | 680.5 | 25 | 0 | 20  | 3.27 | 3.111  | 0.0046  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.765  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 4.43 | 3.919  | 0.0058  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.829 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 2.294  | 0.0034  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.748  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.884  | 0.0013  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -2.493 | -0.0037 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.715  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -2.032 | -0.0030 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 0.483  | 0.0007  | -2.5 to 2.5 | Pass |
|       | 695.5 | 25 | 0 | 20  | 3.27 | -0.632 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 0.973  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 4.43 | 1.051  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -0.151 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -0.312 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 0.996  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 0.798  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -1.824 | -0.0026 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 0.791  | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 0.597  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -2.357 | -0.0034 | -2.5 to 2.5 | Pass |

## 2.1.2 B71\_10MHz

| Band: 71 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 668             | 50            | 0      | 20         | 3.27          | 5.475            | 0.0082                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -1.445           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.642           | -0.0025               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.136            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 0.041            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 1.199            | 0.0018                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -1.455           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -1.892           | -0.0028               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -2.220           | -0.0033               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 2.766            | 0.0041                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -1.009           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             | 680.5           | 50            | 0      | 20         | 3.27          | -0.131           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 3.099            | 0.0046                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.471           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.227           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.976           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 0.090            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.324           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 2.528            | 0.0037                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 1.517            | 0.0022                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 2.665            | 0.0039                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -0.906           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             | 693             | 50            | 0      | 20         | 3.27          | -1.355           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.871           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -0.432           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -1.574           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.955           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 2.542            | 0.0037                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 1.162            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 0.229            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 1.098            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -0.254           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 1.009            | 0.0015                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 668             | 50            | 0      | 20         | 3.27          | -2.115           | -0.0032               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.002           | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.360           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -2.123           | -0.0032               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -3.511           | -0.0053               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.914           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 1.077            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 0.413            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -1.351           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -1.383           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 1.941            | 0.0029                | -2.5 to 2.5 | Pass    |
|                             | 680.5           | 50            | 0      | 20         | 3.27          | -0.065           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 1.070            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -2.018           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 1.113            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -0.075           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 0.603            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.386           | -0.0006               | -2.5 to 2.5 | Pass    |

|  |     |    |   |     |      |        |         |             |      |
|--|-----|----|---|-----|------|--------|---------|-------------|------|
|  |     |    |   | 10  | 3.85 | -2.433 | -0.0036 | -2.5 to 2.5 | Pass |
|  |     |    |   | 30  | 3.85 | -1.901 | -0.0028 | -2.5 to 2.5 | Pass |
|  |     |    |   | 40  | 3.85 | -1.827 | -0.0027 | -2.5 to 2.5 | Pass |
|  |     |    |   | 50  | 3.85 | 0.206  | 0.0003  | -2.5 to 2.5 | Pass |
|  | 693 | 50 | 0 | 20  | 3.27 | 2.554  | 0.0037  | -2.5 to 2.5 | Pass |
|  |     |    |   |     | 3.85 | -0.685 | -0.0010 | -2.5 to 2.5 | Pass |
|  |     |    |   |     | 4.43 | -2.352 | -0.0034 | -2.5 to 2.5 | Pass |
|  |     |    |   | -30 | 3.85 | -1.952 | -0.0028 | -2.5 to 2.5 | Pass |
|  |     |    |   | -20 | 3.85 | 0.910  | 0.0013  | -2.5 to 2.5 | Pass |
|  |     |    |   | -10 | 3.85 | -1.615 | -0.0023 | -2.5 to 2.5 | Pass |
|  |     |    |   | 0   | 3.85 | 1.348  | 0.0019  | -2.5 to 2.5 | Pass |
|  |     |    |   | 10  | 3.85 | 2.168  | 0.0031  | -2.5 to 2.5 | Pass |
|  |     |    |   | 30  | 3.85 | -0.827 | -0.0012 | -2.5 to 2.5 | Pass |
|  |     |    |   | 40  | 3.85 | 0.802  | 0.0012  | -2.5 to 2.5 | Pass |
|  |     |    |   | 50  | 3.85 | -0.872 | -0.0013 | -2.5 to 2.5 | Pass |

### 2.1.3 B71\_15MHz

| Band: 71 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 670.5           | 75            | 0      | 20         | 3.27          | -1.741           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 2.067            | 0.0031                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.379            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -0.430           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 0.508            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -1.507           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 1.614            | 0.0024                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 2.614            | 0.0039                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 0.116            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -1.021           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 1.686            | 0.0025                | -2.5 to 2.5 | Pass    |
|                             | 680.5           | 75            | 0      | 20         | 3.27          | 2.567            | 0.0038                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.803            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 2.406            | 0.0035                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.102            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -2.067           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.503           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 0.164            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -1.606           | -0.0024               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.606           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 1.116            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -0.265           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             | 690.5           | 75            | 0      | 20         | 3.27          | -0.080           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.412           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 1.632            | 0.0024                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.939            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 2.525            | 0.0037                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.475           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 2.258            | 0.0033                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -0.620           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -0.673           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -1.997           | -0.0029               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 2.155            | 0.0031                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 670.5           | 75            | 0      | 20         | 3.27          | -1.910           | -0.0028               | -2.5 to 2.5 | Pass    |

|  |       |      |       |        |             |      |        |         |             |             |      |
|--|-------|------|-------|--------|-------------|------|--------|---------|-------------|-------------|------|
|  |       |      |       |        |             | 3.85 | -2.450 | -0.0037 | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        |             | 4.43 | 0.991  | 0.0015  | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | -30         | 3.85 | 1.646  | 0.0025  | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | -20         | 3.85 | -0.967 | -0.0014 | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | -10         | 3.85 | 2.087  | 0.0031  | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | 0           | 3.85 | 2.280  | 0.0034  | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | 10          | 3.85 | -1.597 | -0.0024 | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | 30          | 3.85 | -0.387 | -0.0006 | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | 40          | 3.85 | 0.846  | 0.0013  | -2.5 to 2.5 | Pass        |      |
|  |       |      |       |        | 50          | 3.85 | 1.361  | 0.0020  | -2.5 to 2.5 | Pass        |      |
|  | 680.5 | 75   | 0     |        |             | 20   | 3.27   | -1.108  | -0.0016     | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             |      | 3.85   | 0.368   | 0.0005      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             |      | 4.43   | 0.157   | 0.0002      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | -30  | 3.85   | -1.320  | -0.0019     | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | -20  | 3.85   | 3.506   | 0.0052      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | -10  | 3.85   | -0.284  | -0.0004     | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 0    | 3.85   | -0.897  | -0.0013     | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 10   | 3.85   | -3.041  | -0.0045     | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 30   | 3.85   | -0.012  | 0.0000      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 40   | 3.85   | 1.159   | 0.0017      | -2.5 to 2.5 | Pass |
|  | 50    | 3.85 | 2.071 | 0.0030 | -2.5 to 2.5 | Pass |        |         |             |             |      |
|  | 690.5 | 75   | 0     |        |             | 20   | 3.27   | 0.989   | 0.0014      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             |      | 3.85   | 0.841   | 0.0012      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             |      | 4.43   | -1.967  | -0.0028     | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | -30  | 3.85   | 1.074   | 0.0016      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | -20  | 3.85   | 0.908   | 0.0013      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | -10  | 3.85   | 2.016   | 0.0029      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 0    | 3.85   | 1.455   | 0.0021      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 10   | 3.85   | 0.602   | 0.0009      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 30   | 3.85   | 0.857   | 0.0012      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 40   | 3.85   | 0.863   | 0.0012      | -2.5 to 2.5 | Pass |
|  |       |      |       |        |             | 50   | 3.85   | 0.653   | 0.0009      | -2.5 to 2.5 | Pass |

## 2.1.4 B71\_20MHz

| Band: 71 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 673             | 100           | 0      | 20         | 3.27          | -3.942           | -0.0059               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -0.215           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.512            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.547            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -3.097           | -0.0046               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -0.749           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -1.547           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -0.427           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | -4.756           | -0.0071               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -4.861           | -0.0072               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -3.592           | -0.0053               | -2.5 to 2.5 | Pass    |
|                             | 683             | 100           | 0      | 20         | 3.27          | 1.150            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 3.859            | 0.0057                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -1.214           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.117            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 1.409            | 0.0021                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 2.302            | 0.0034                | -2.5 to 2.5 | Pass    |

|       |     |     |   |     |      |        |         |             |      |
|-------|-----|-----|---|-----|------|--------|---------|-------------|------|
|       |     |     |   | 0   | 3.85 | -0.712 | -0.0010 | -2.5 to 2.5 | Pass |
|       |     |     |   | 10  | 3.85 | -1.714 | -0.0025 | -2.5 to 2.5 | Pass |
|       |     |     |   | 30  | 3.85 | 3.335  | 0.0049  | -2.5 to 2.5 | Pass |
|       |     |     |   | 40  | 3.85 | 2.163  | 0.0032  | -2.5 to 2.5 | Pass |
|       |     |     |   | 50  | 3.85 | 2.860  | 0.0042  | -2.5 to 2.5 | Pass |
|       | 688 | 100 | 0 | 20  | 3.27 | -0.867 | -0.0013 | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 3.85 | 0.602  | 0.0009  | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 4.43 | -2.069 | -0.0030 | -2.5 to 2.5 | Pass |
|       |     |     |   | -30 | 3.85 | -2.241 | -0.0033 | -2.5 to 2.5 | Pass |
|       |     |     |   | -20 | 3.85 | -3.849 | -0.0056 | -2.5 to 2.5 | Pass |
|       |     |     |   | -10 | 3.85 | 0.294  | 0.0004  | -2.5 to 2.5 | Pass |
|       |     |     |   | 0   | 3.85 | -1.089 | -0.0016 | -2.5 to 2.5 | Pass |
|       |     |     |   | 10  | 3.85 | 1.126  | 0.0016  | -2.5 to 2.5 | Pass |
|       |     |     |   | 30  | 3.85 | -0.390 | -0.0006 | -2.5 to 2.5 | Pass |
|       |     |     |   | 40  | 3.85 | 2.331  | 0.0034  | -2.5 to 2.5 | Pass |
|       |     |     |   | 50  | 3.85 | -1.028 | -0.0015 | -2.5 to 2.5 | Pass |
| 16QAM | 673 | 100 | 0 | 20  | 3.27 | -0.771 | -0.0011 | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 3.85 | -4.157 | -0.0062 | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 4.43 | -4.428 | -0.0066 | -2.5 to 2.5 | Pass |
|       |     |     |   | -30 | 3.85 | -3.126 | -0.0046 | -2.5 to 2.5 | Pass |
|       |     |     |   | -20 | 3.85 | -1.953 | -0.0029 | -2.5 to 2.5 | Pass |
|       |     |     |   | -10 | 3.85 | -0.712 | -0.0011 | -2.5 to 2.5 | Pass |
|       |     |     |   | 0   | 3.85 | -1.908 | -0.0028 | -2.5 to 2.5 | Pass |
|       |     |     |   | 10  | 3.85 | -4.910 | -0.0073 | -2.5 to 2.5 | Pass |
|       |     |     |   | 30  | 3.85 | -0.195 | -0.0003 | -2.5 to 2.5 | Pass |
|       |     |     |   | 40  | 3.85 | -2.816 | -0.0042 | -2.5 to 2.5 | Pass |
|       |     |     |   | 50  | 3.85 | -4.861 | -0.0072 | -2.5 to 2.5 | Pass |
|       | 683 | 100 | 0 | 20  | 3.27 | -1.172 | -0.0017 | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 3.85 | -1.953 | -0.0029 | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 4.43 | -0.021 | 0.0000  | -2.5 to 2.5 | Pass |
|       |     |     |   | -30 | 3.85 | 0.306  | 0.0004  | -2.5 to 2.5 | Pass |
|       |     |     |   | -20 | 3.85 | 1.666  | 0.0024  | -2.5 to 2.5 | Pass |
|       |     |     |   | -10 | 3.85 | -1.208 | -0.0018 | -2.5 to 2.5 | Pass |
|       |     |     |   | 0   | 3.85 | -1.274 | -0.0019 | -2.5 to 2.5 | Pass |
|       |     |     |   | 10  | 3.85 | 0.573  | 0.0008  | -2.5 to 2.5 | Pass |
|       |     |     |   | 30  | 3.85 | -0.763 | -0.0011 | -2.5 to 2.5 | Pass |
|       |     |     |   | 40  | 3.85 | 2.680  | 0.0039  | -2.5 to 2.5 | Pass |
|       |     |     |   | 50  | 3.85 | 0.151  | 0.0002  | -2.5 to 2.5 | Pass |
|       | 688 | 100 | 0 | 20  | 3.27 | 2.637  | 0.0038  | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 3.85 | -2.310 | -0.0034 | -2.5 to 2.5 | Pass |
|       |     |     |   |     | 4.43 | -0.598 | -0.0009 | -2.5 to 2.5 | Pass |
|       |     |     |   | -30 | 3.85 | 1.222  | 0.0018  | -2.5 to 2.5 | Pass |
|       |     |     |   | -20 | 3.85 | -1.207 | -0.0018 | -2.5 to 2.5 | Pass |
|       |     |     |   | -10 | 3.85 | -0.409 | -0.0006 | -2.5 to 2.5 | Pass |
|       |     |     |   | 0   | 3.85 | 2.922  | 0.0042  | -2.5 to 2.5 | Pass |
|       |     |     |   | 10  | 3.85 | -2.380 | -0.0035 | -2.5 to 2.5 | Pass |
|       |     |     |   | 30  | 3.85 | 1.091  | 0.0016  | -2.5 to 2.5 | Pass |
|       |     |     |   | 40  | 3.85 | -0.904 | -0.0013 | -2.5 to 2.5 | Pass |
|       |     |     |   | 50  | 3.85 | 1.132  | 0.0016  | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

### 3.1.1 Band71\_OBW

| Band: 71 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 665.5           | 25            | 0      | 4.529                        | /     | Pass    |
|                 |            | 680.5           | 25            | 0      | 4.535                        | /     | Pass    |
|                 |            | 695.5           | 25            | 0      | 4.550                        | /     | Pass    |
|                 | 16QAM      | 665.5           | 25            | 0      | 4.554                        | /     | Pass    |
|                 |            | 680.5           | 25            | 0      | 4.555                        | /     | Pass    |
|                 |            | 695.5           | 25            | 0      | 4.539                        | /     | Pass    |
| 10              | QPSK       | 668             | 50            | 0      | 9.036                        | /     | Pass    |
|                 |            | 680.5           | 50            | 0      | 9.059                        | /     | Pass    |
|                 |            | 693             | 50            | 0      | 9.051                        | /     | Pass    |
|                 | 16QAM      | 668             | 50            | 0      | 9.046                        | /     | Pass    |
|                 |            | 680.5           | 50            | 0      | 9.022                        | /     | Pass    |
|                 |            | 693             | 50            | 0      | 9.047                        | /     | Pass    |
| 15              | QPSK       | 670.5           | 75            | 0      | 13.607                       | /     | Pass    |
|                 |            | 680.5           | 75            | 0      | 13.481                       | /     | Pass    |
|                 |            | 690.5           | 75            | 0      | 13.572                       | /     | Pass    |
|                 | 16QAM      | 670.5           | 75            | 0      | 13.579                       | /     | Pass    |
|                 |            | 680.5           | 75            | 0      | 13.524                       | /     | Pass    |
|                 |            | 690.5           | 75            | 0      | 13.575                       | /     | Pass    |
| 20              | QPSK       | 673             | 100           | 0      | 18.105                       | /     | Pass    |
|                 |            | 683             | 100           | 0      | 17.969                       | /     | Pass    |
|                 |            | 688             | 100           | 0      | 18.130                       | /     | Pass    |
|                 | 16QAM      | 673             | 100           | 0      | 18.024                       | /     | Pass    |
|                 |            | 683             | 100           | 0      | 18.013                       | /     | Pass    |
|                 |            | 688             | 100           | 0      | 18.106                       | /     | Pass    |

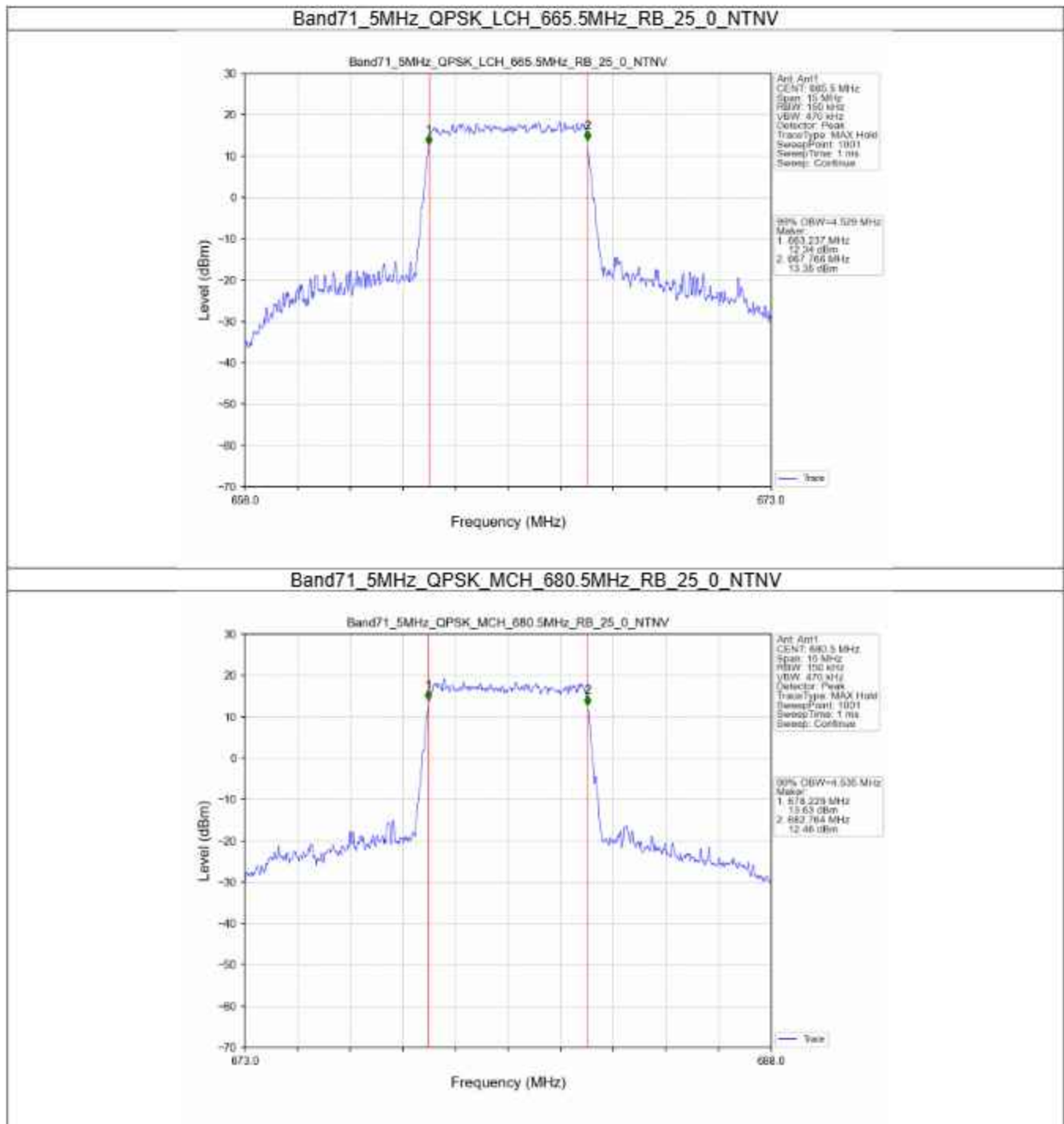
### 3.1.2 Band71\_XDB

| Band: 71 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 665.5           | 25            | 0      | 5.042                | /     | Pass    |
|                 |            | 680.5           | 25            | 0      | 5.041                | /     | Pass    |
|                 |            | 695.5           | 25            | 0      | 5.066                | /     | Pass    |
|                 | 16QAM      | 665.5           | 25            | 0      | 5.070                | /     | Pass    |
|                 |            | 680.5           | 25            | 0      | 5.036                | /     | Pass    |
|                 |            | 695.5           | 25            | 0      | 5.023                | /     | Pass    |
| 10              | QPSK       | 668             | 50            | 0      | 10.020               | /     | Pass    |
|                 |            | 680.5           | 50            | 0      | 9.910                | /     | Pass    |
|                 |            | 693             | 50            | 0      | 9.976                | /     | Pass    |
|                 | 16QAM      | 668             | 50            | 0      | 9.937                | /     | Pass    |
|                 |            | 680.5           | 50            | 0      | 9.929                | /     | Pass    |
|                 |            | 693             | 50            | 0      | 9.896                | /     | Pass    |
| 15              | QPSK       | 670.5           | 75            | 0      | 14.856               | /     | Pass    |
|                 |            | 680.5           | 75            | 0      | 14.808               | /     | Pass    |
|                 |            | 690.5           | 75            | 0      | 15.077               | /     | Pass    |
|                 | 16QAM      | 670.5           | 75            | 0      | 14.916               | /     | Pass    |
|                 |            | 680.5           | 75            | 0      | 14.888               | /     | Pass    |
|                 |            | 690.5           | 75            | 0      | 14.924               | /     | Pass    |
| 20              | QPSK       | 673             | 100           | 0      | 19.714               | /     | Pass    |
|                 |            | 683             | 100           | 0      | 19.652               | /     | Pass    |

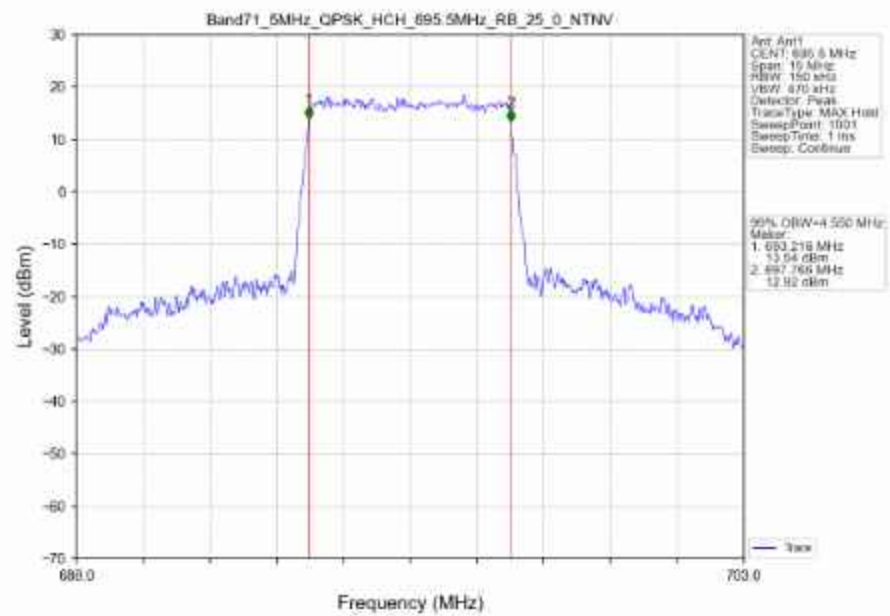
|  |       |     |     |   |        |   |      |
|--|-------|-----|-----|---|--------|---|------|
|  | 16QAM | 688 | 100 | 0 | 19.775 | / | Pass |
|  |       | 673 | 100 | 0 | 19.678 | / | Pass |
|  |       | 683 | 100 | 0 | 19.578 | / | Pass |
|  |       | 688 | 100 | 0 | 19.799 | / | Pass |

## 3.2 Test Graph

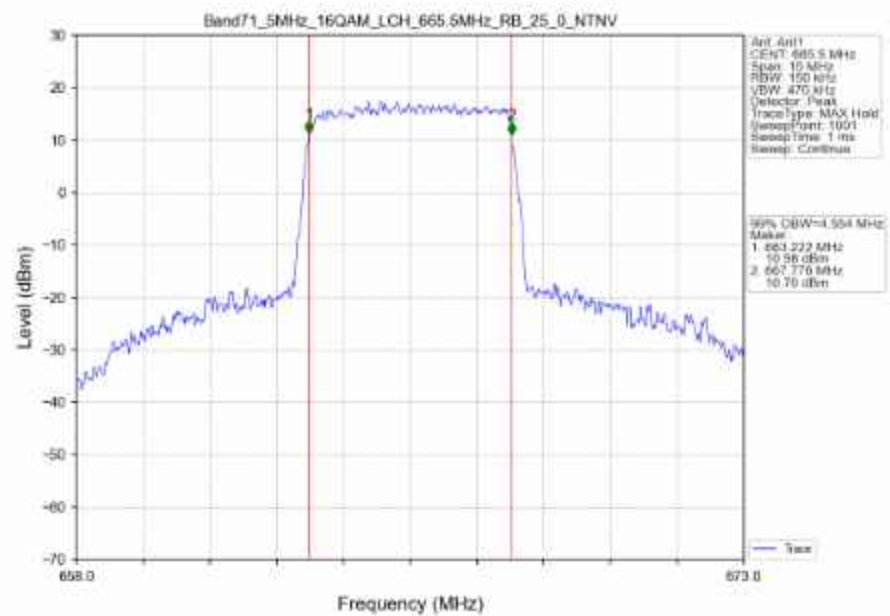
### 3.2.1 Band71\_OBW



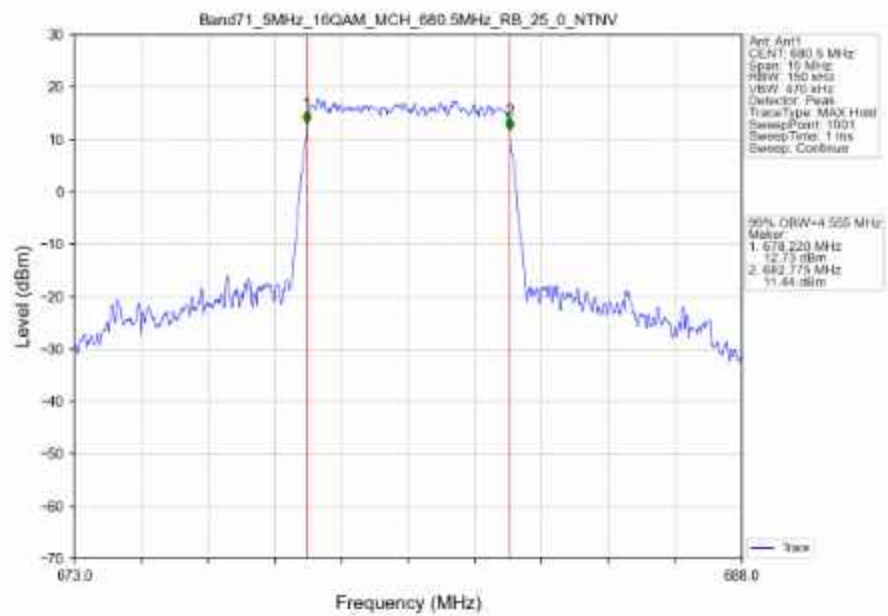
Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



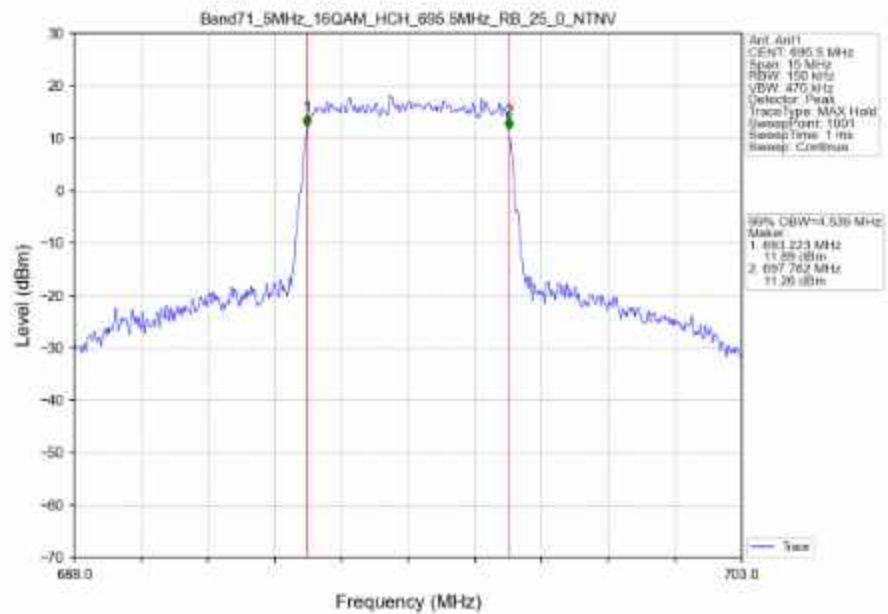
Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



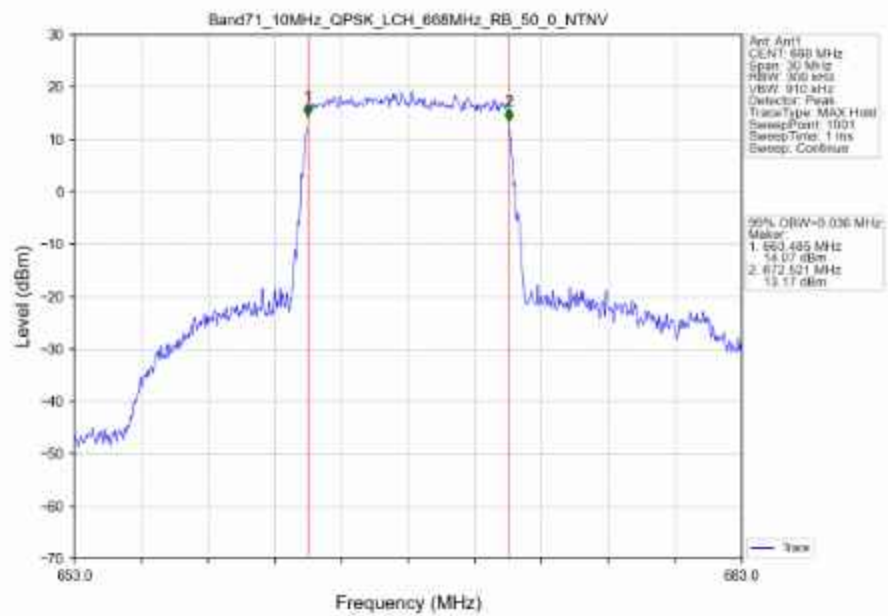
Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV



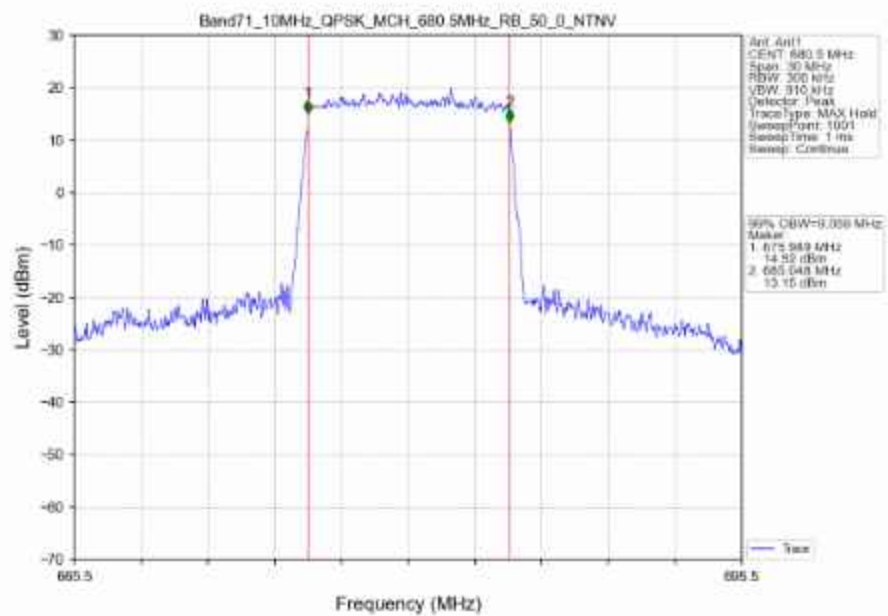
Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



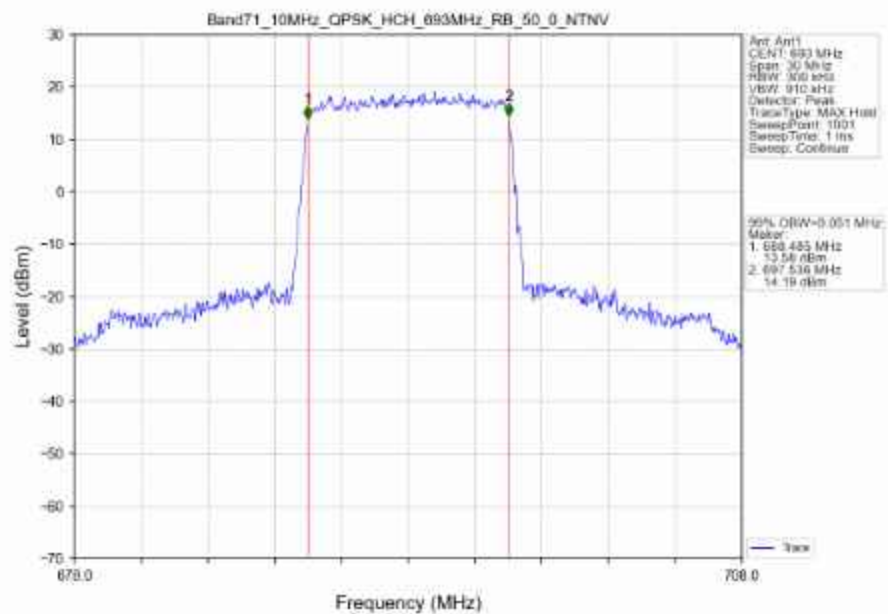
# Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV



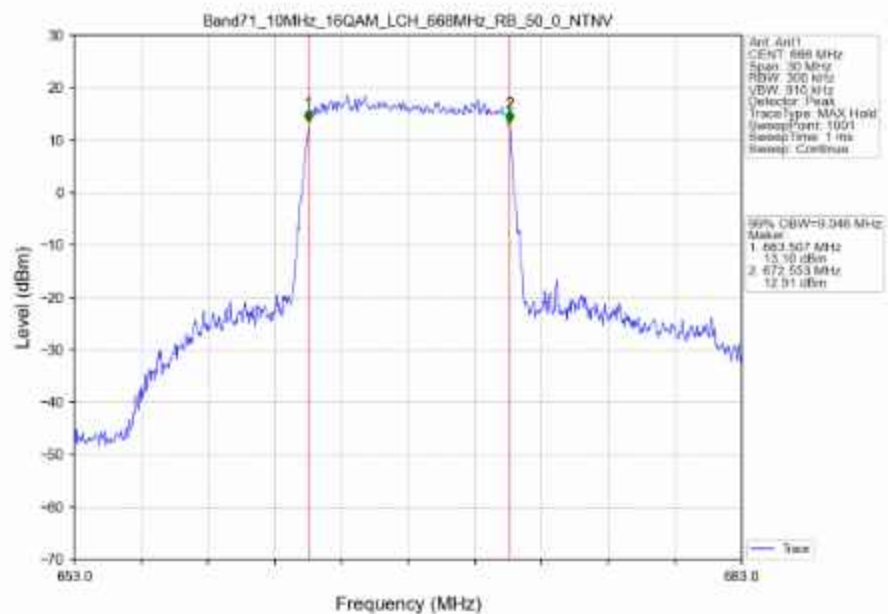
# Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



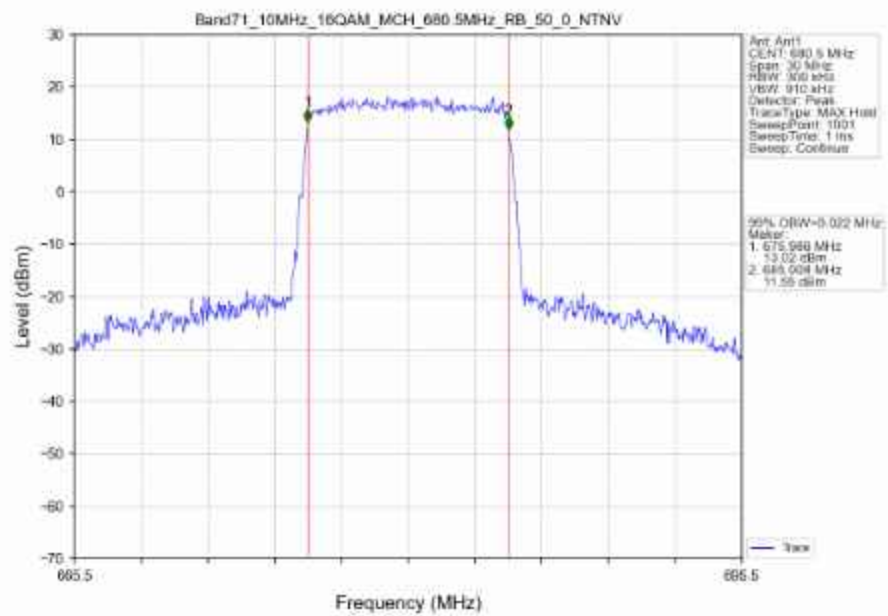
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



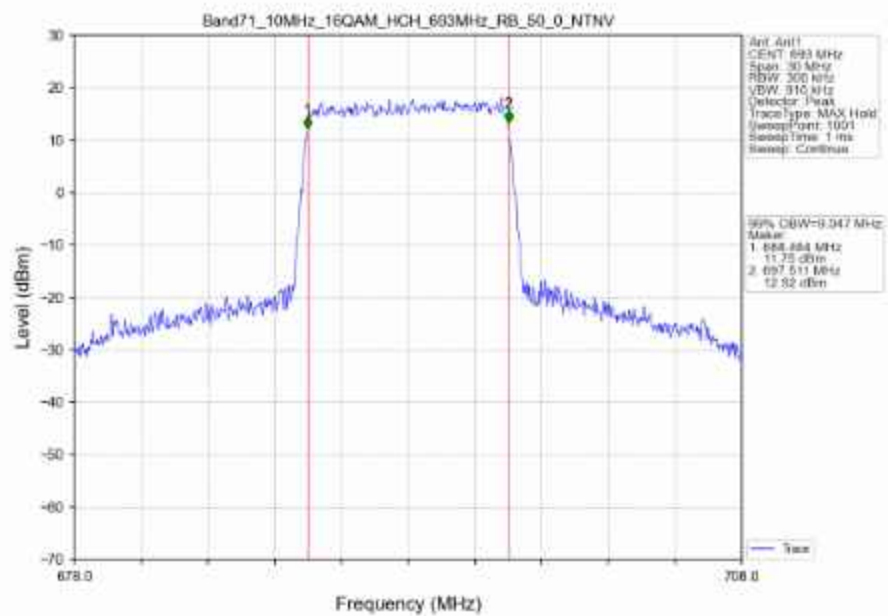
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



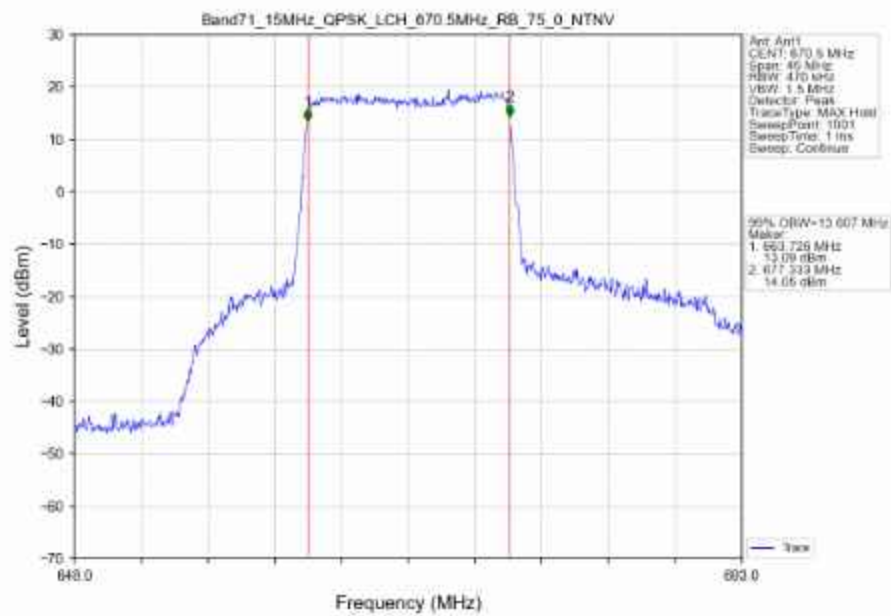
Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



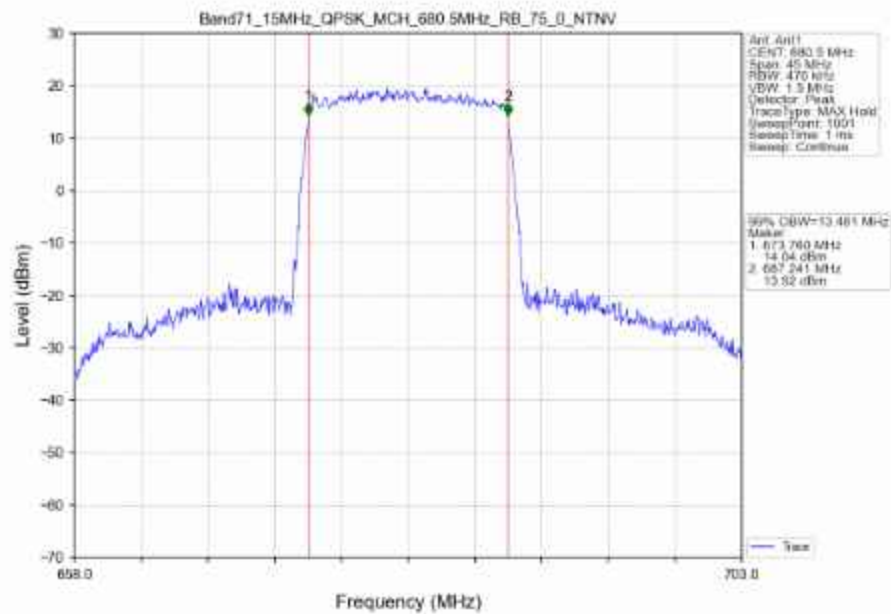
Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV



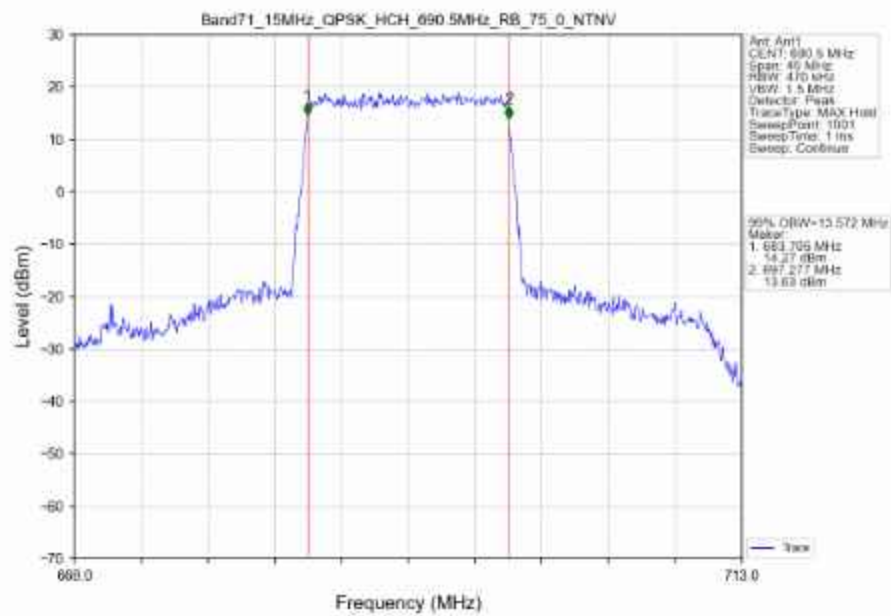
# Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



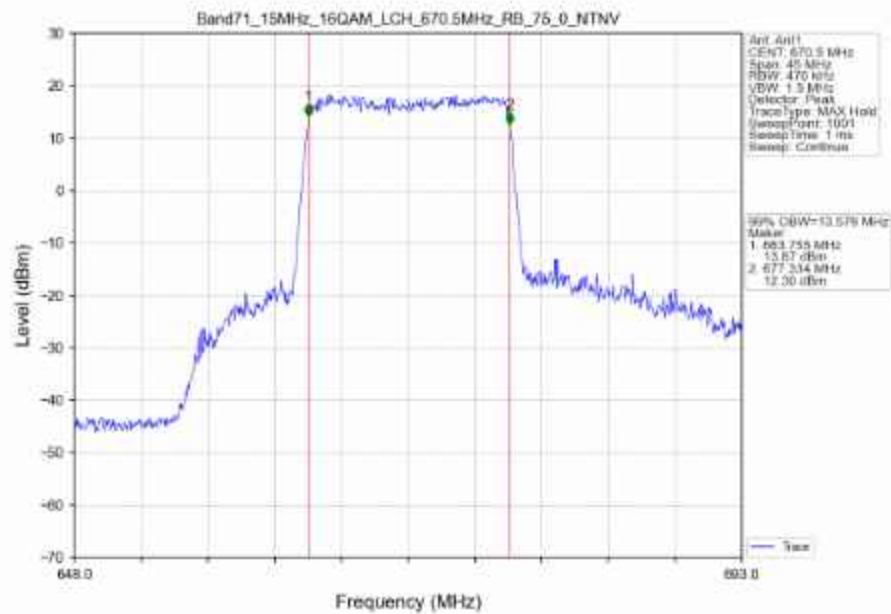
# Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



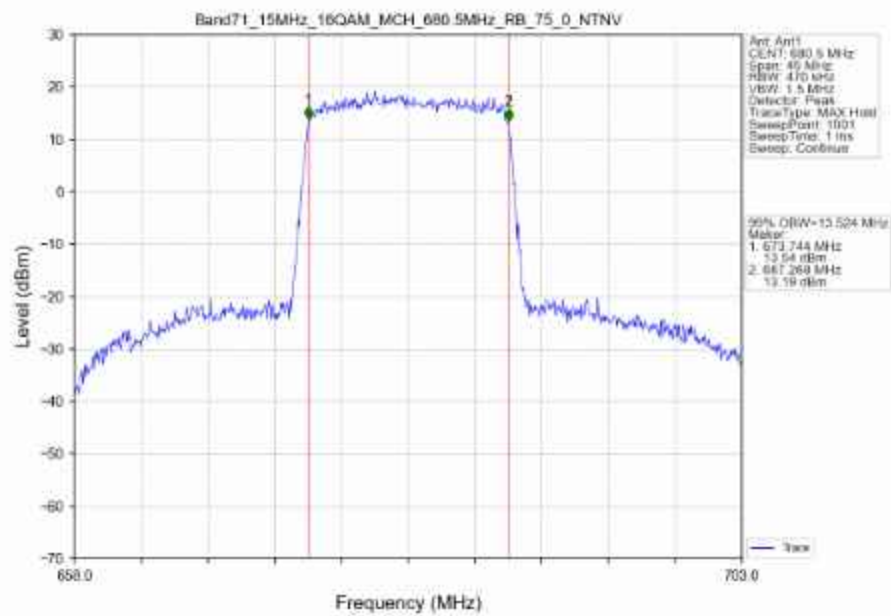
# Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



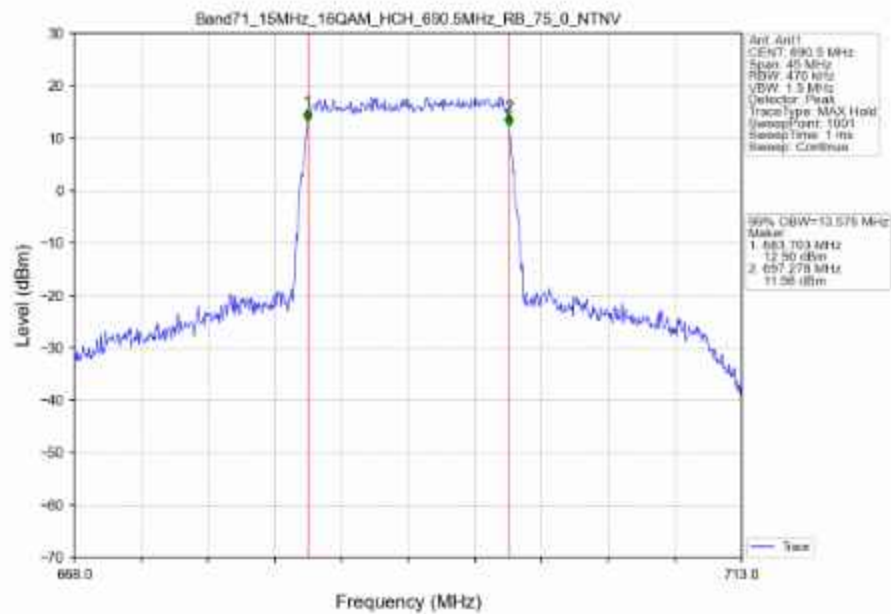
# Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



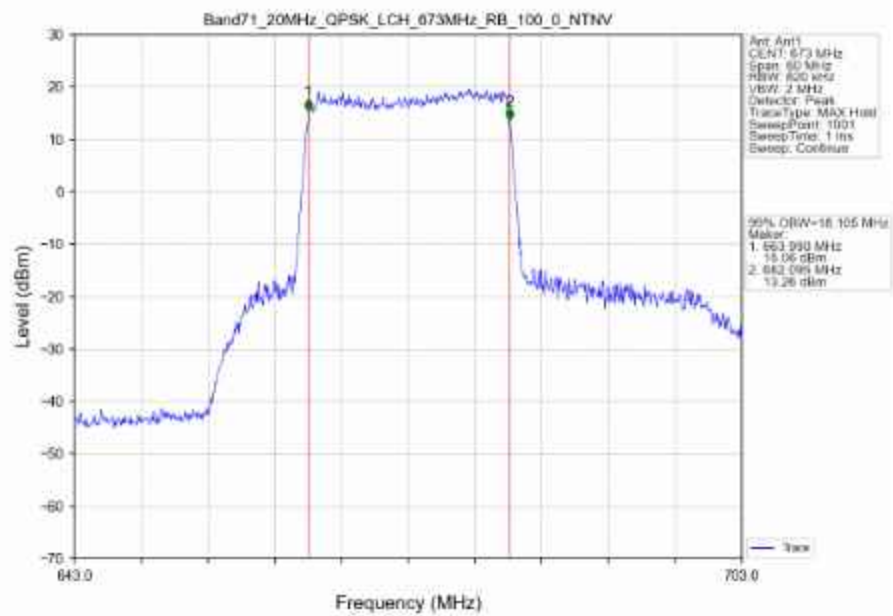
Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



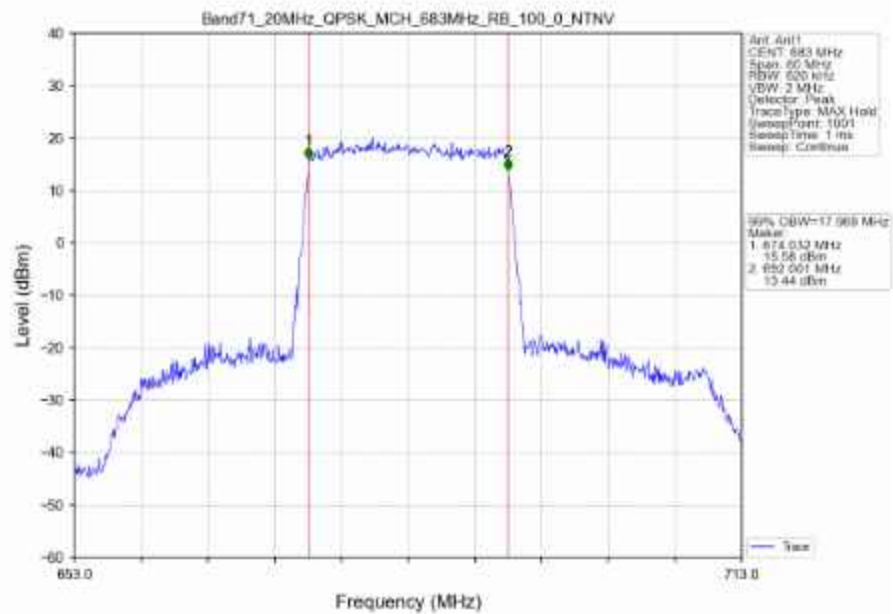
Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



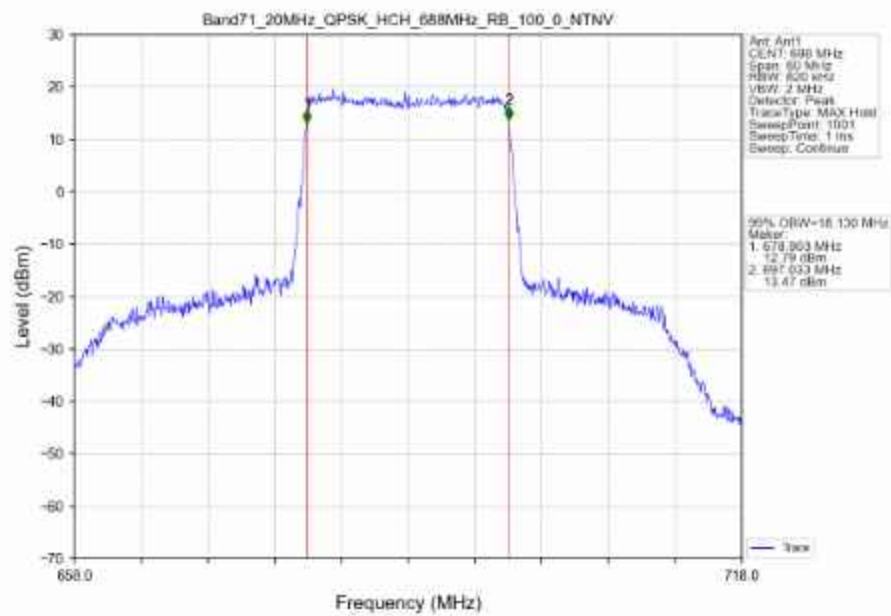
# Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



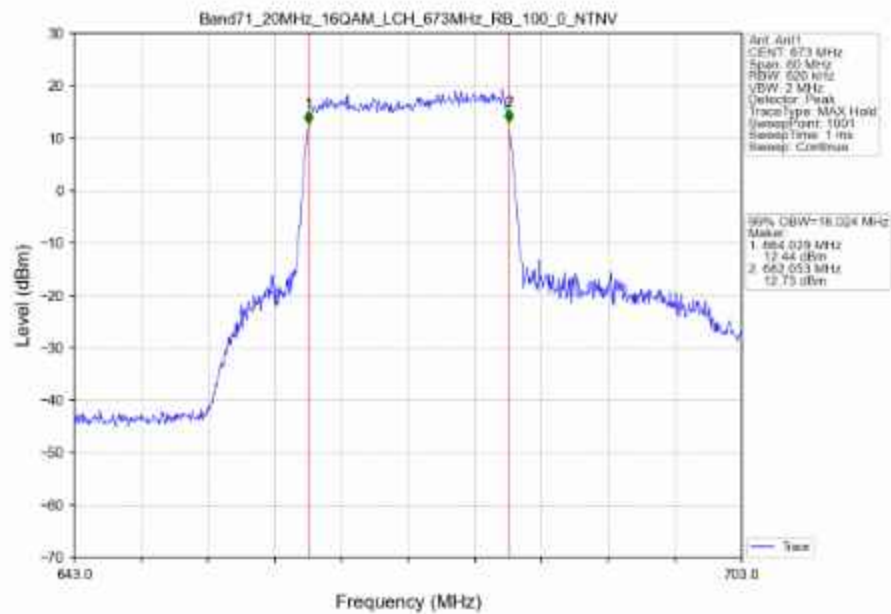
# Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_100\_0\_NTNV



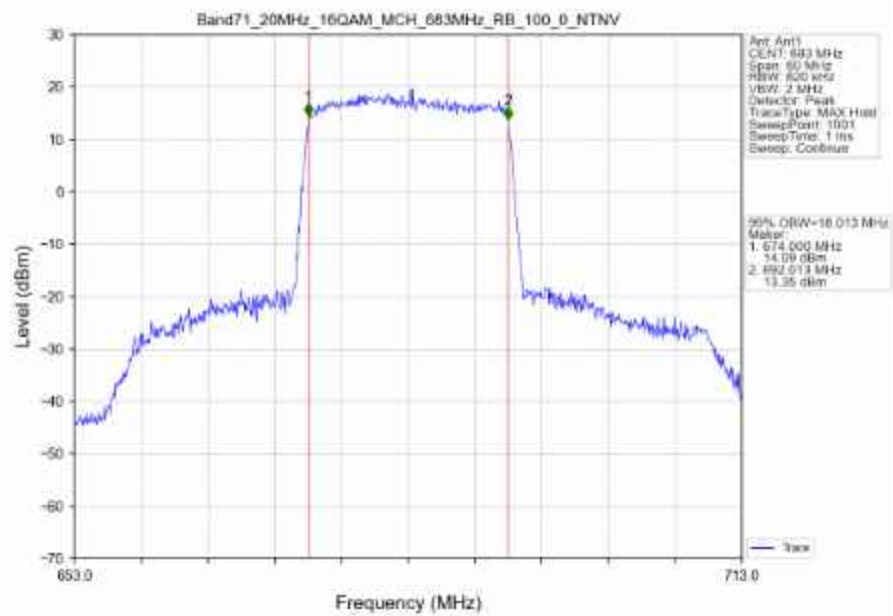
# Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



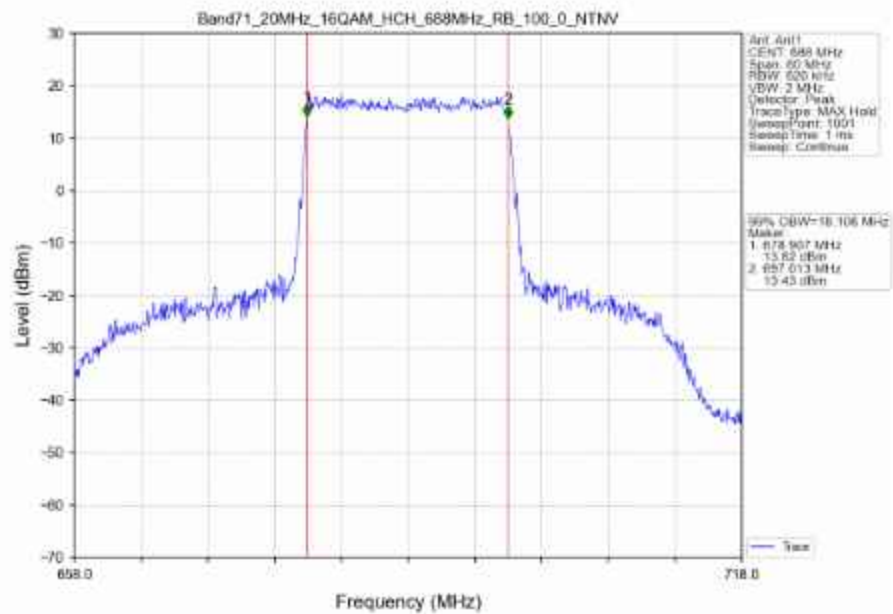
# Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



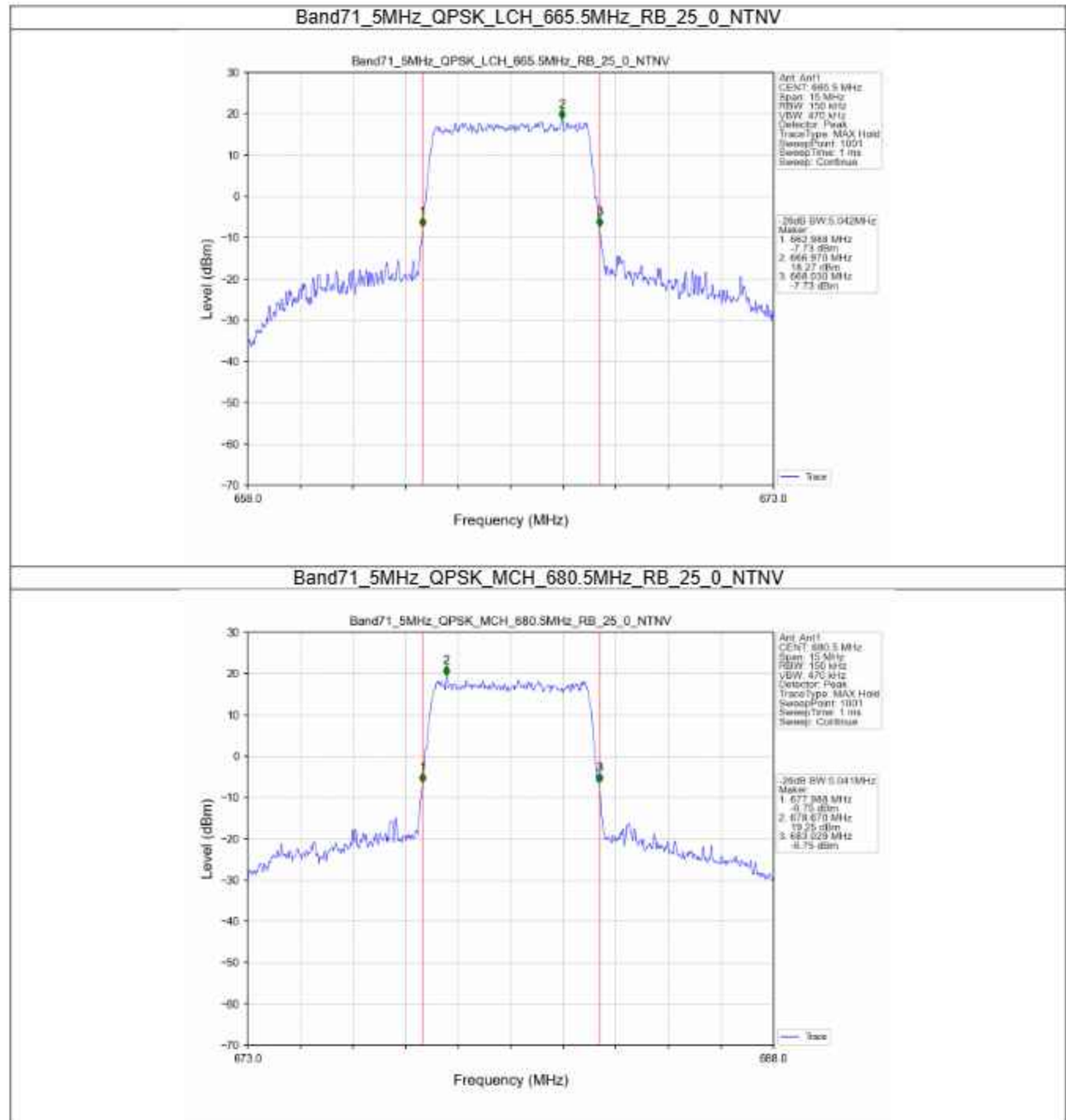
Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



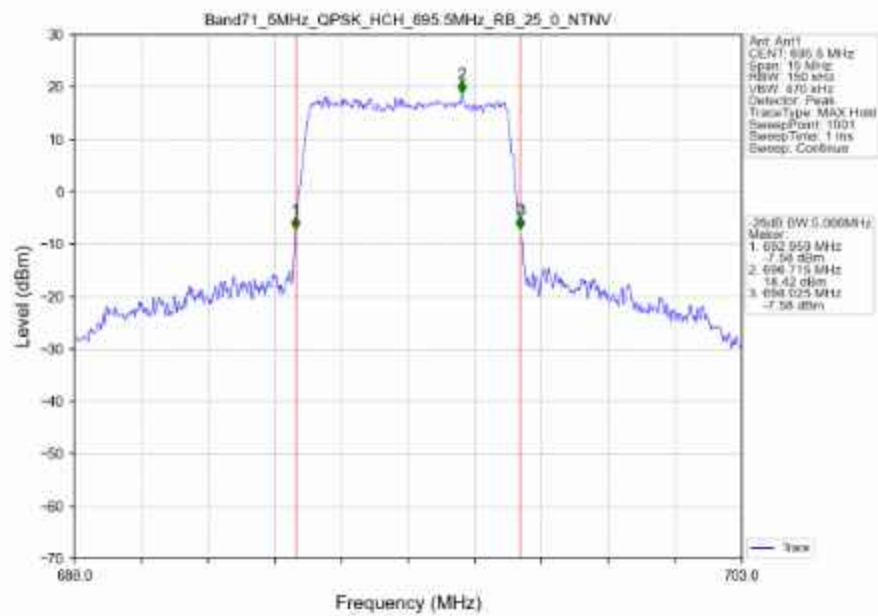
Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



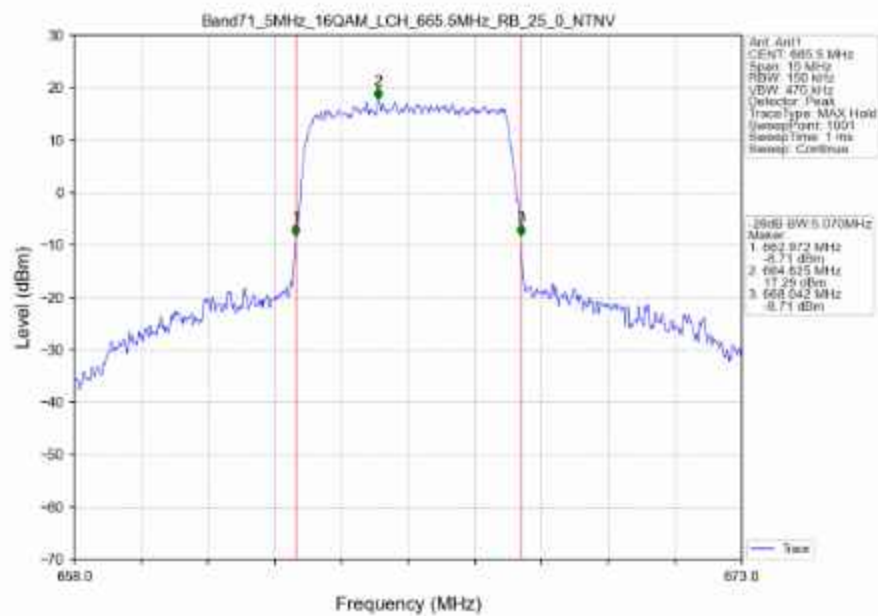
### 3.2.2 Band71\_XDB



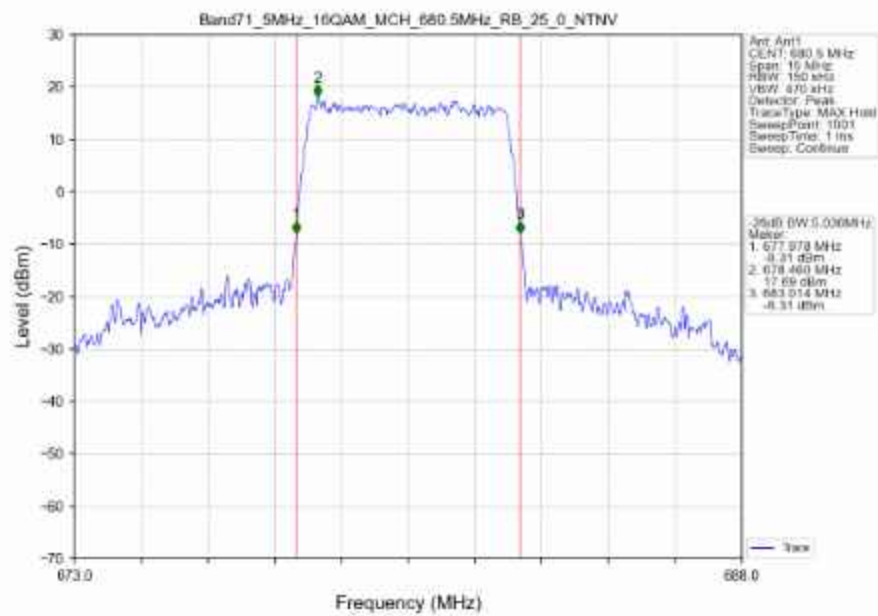
# Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



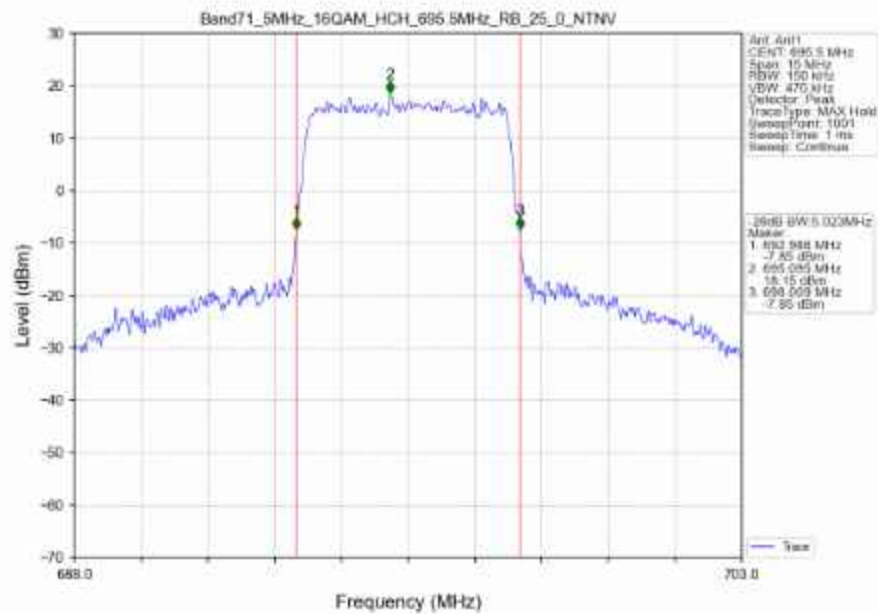
# Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



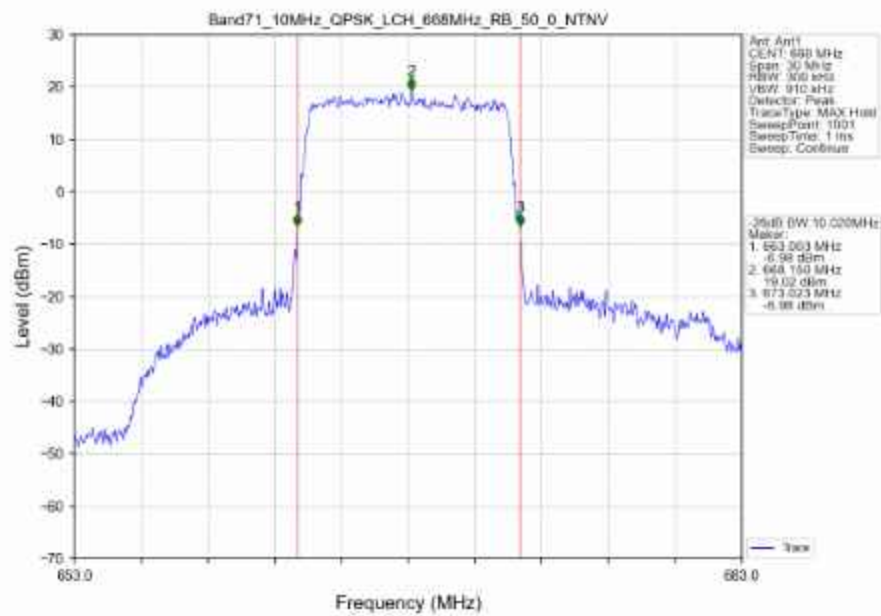
Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV



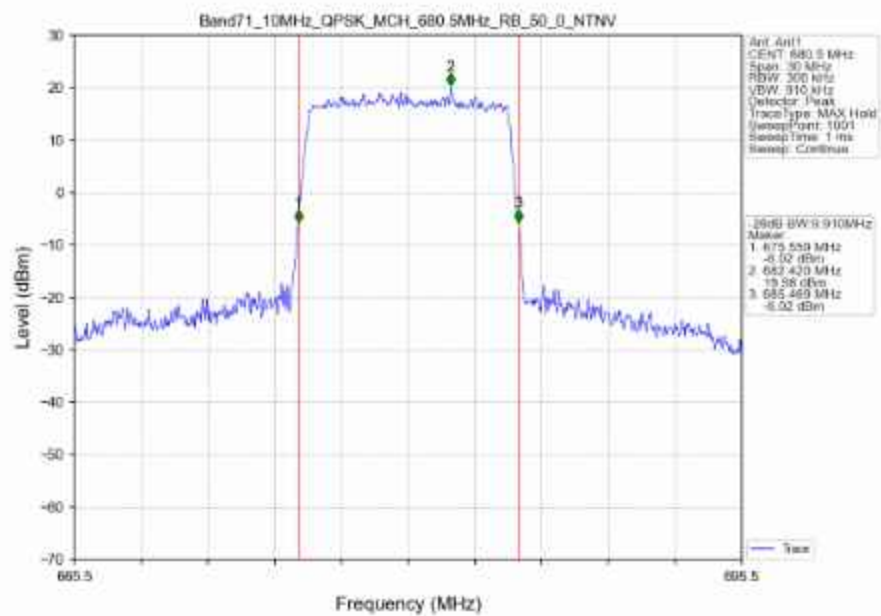
Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



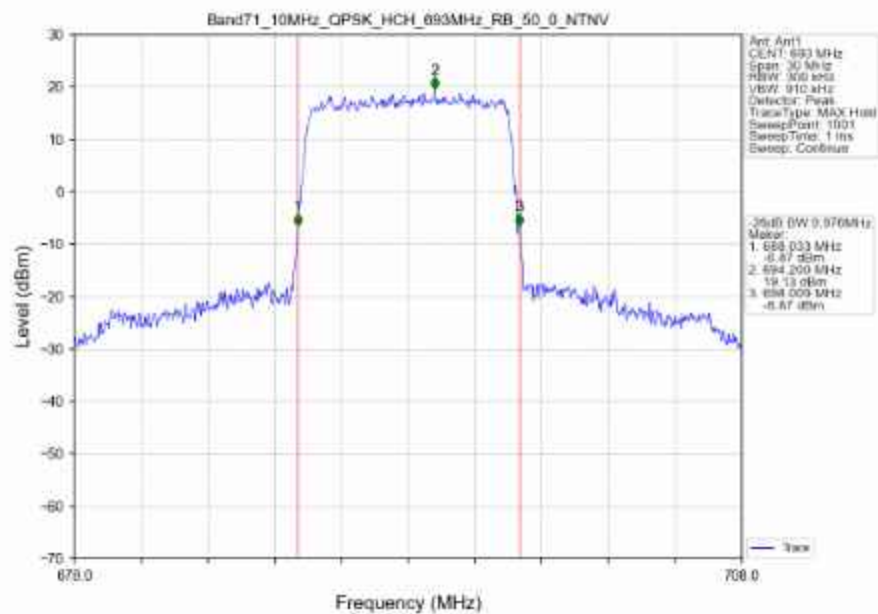
# Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV



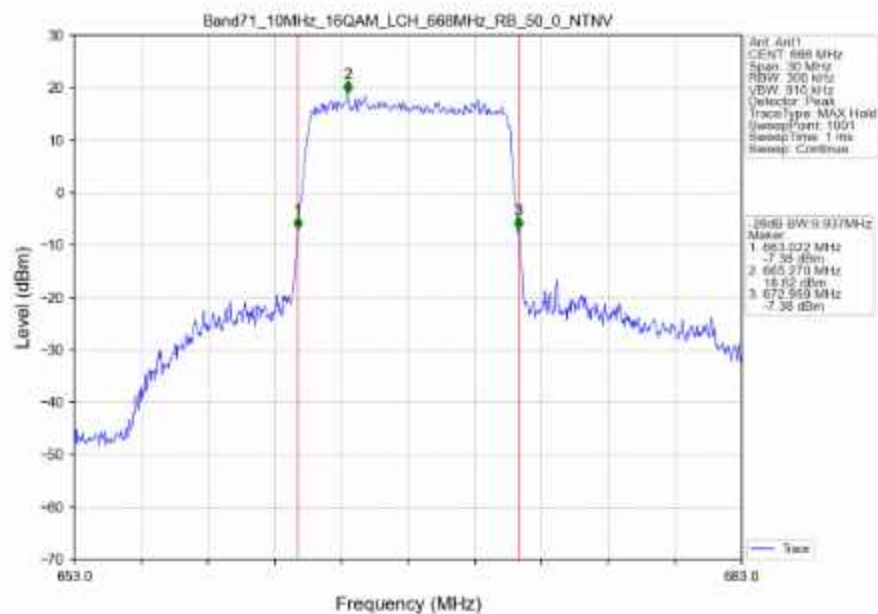
# Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



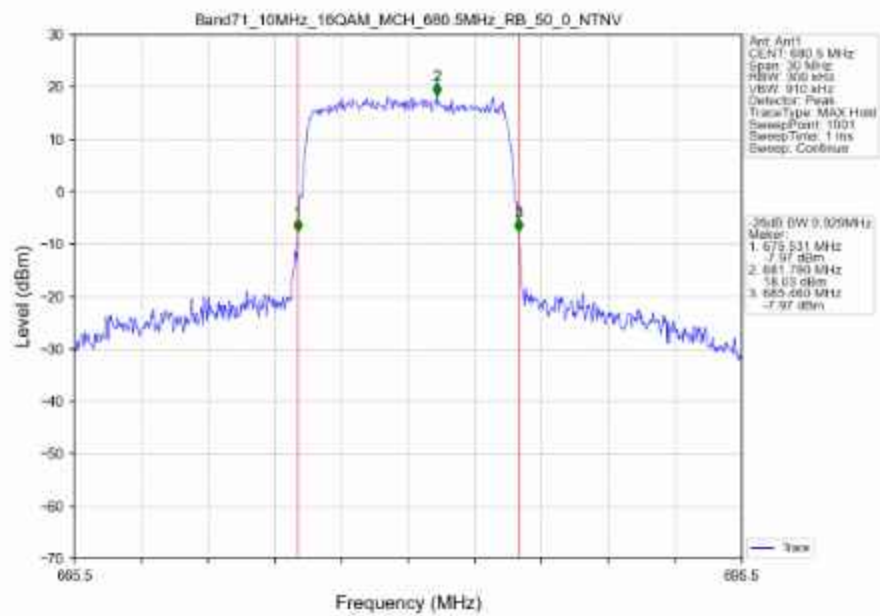
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



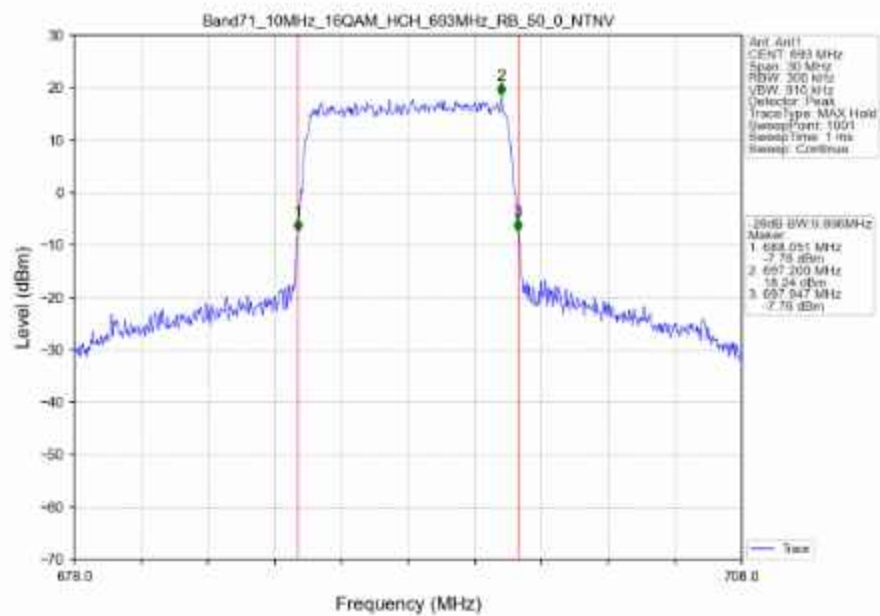
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



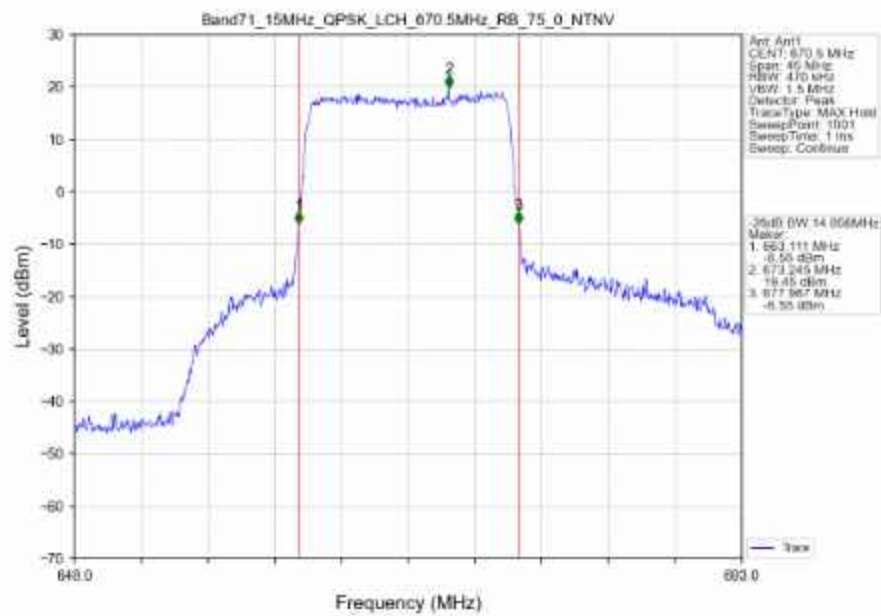
Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



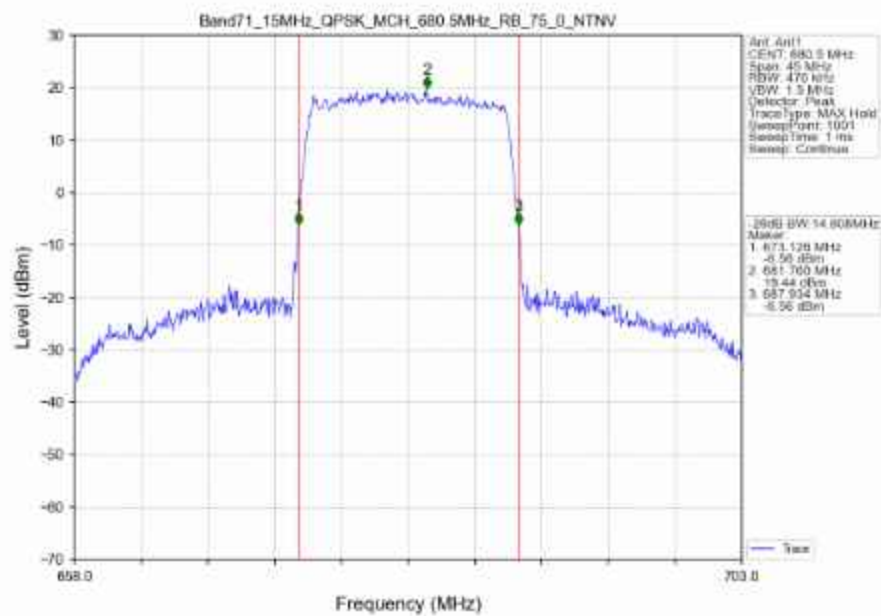
Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV



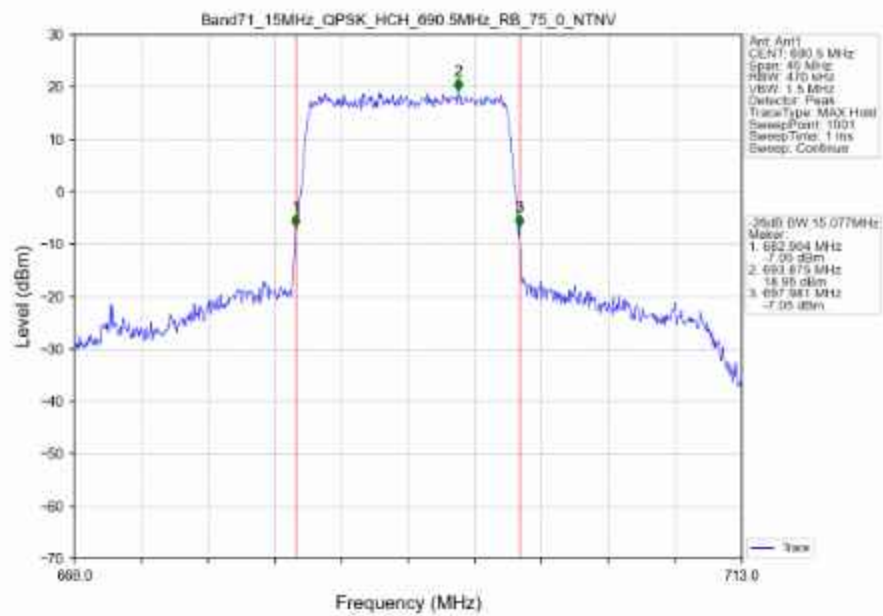
# Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



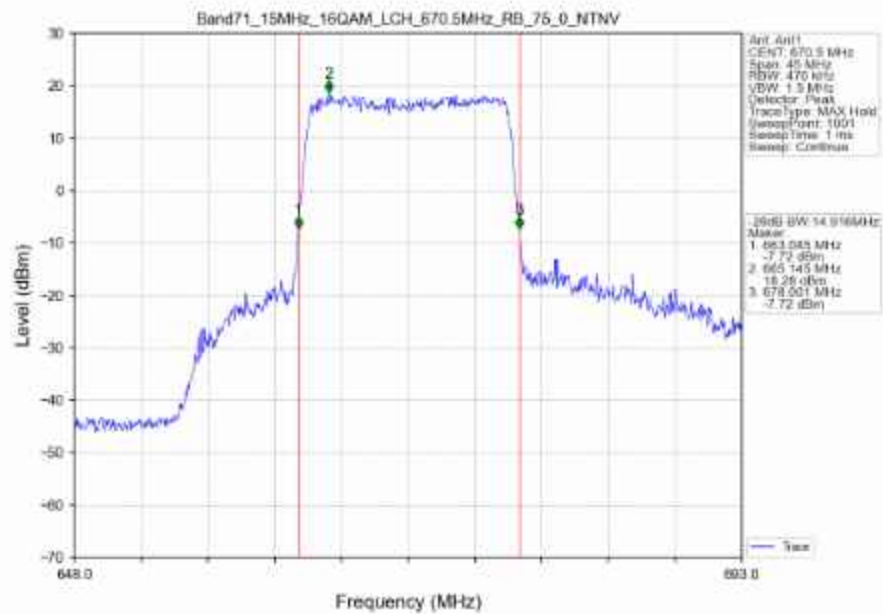
# Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



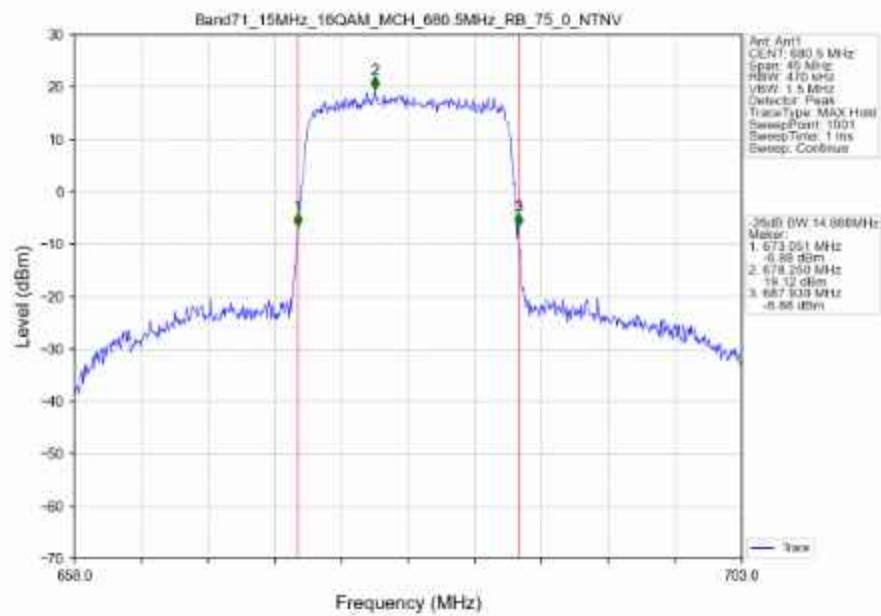
# Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



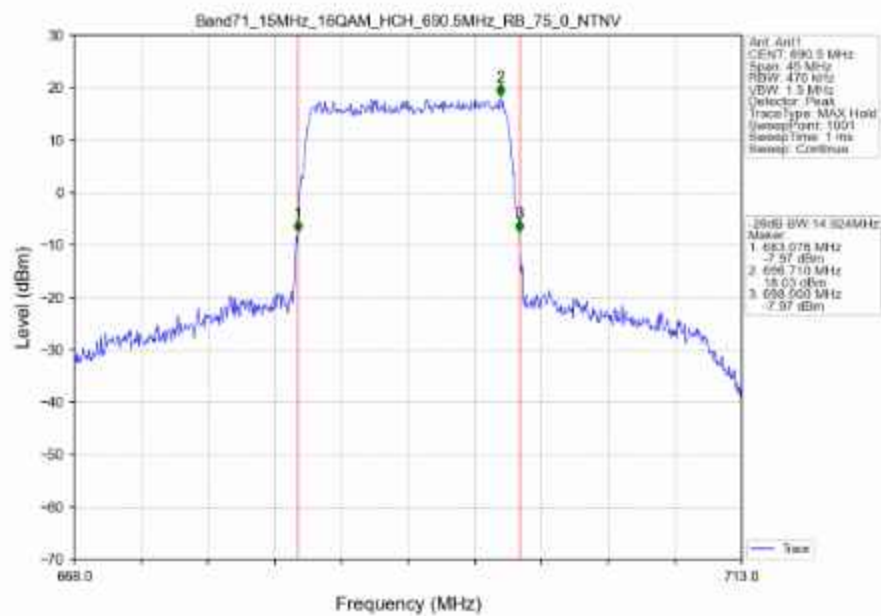
# Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



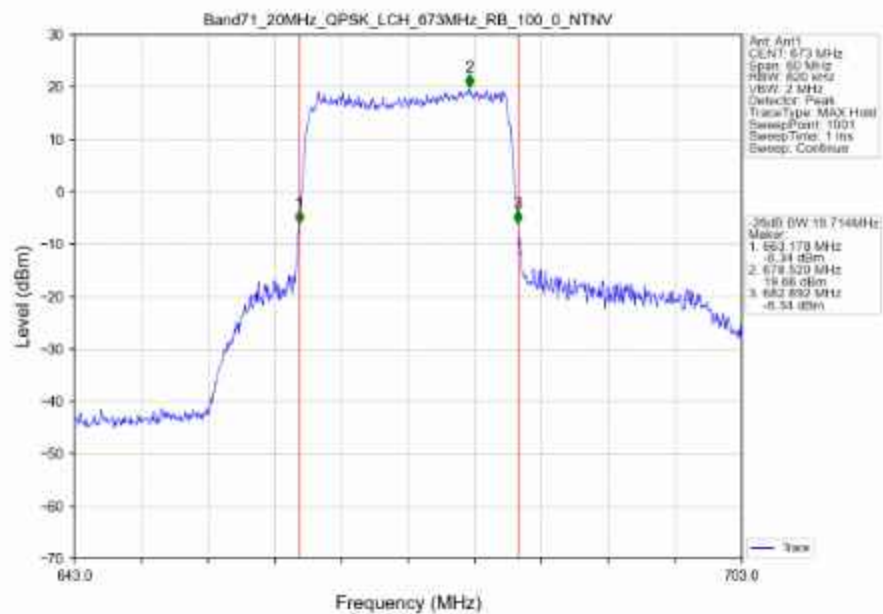
Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



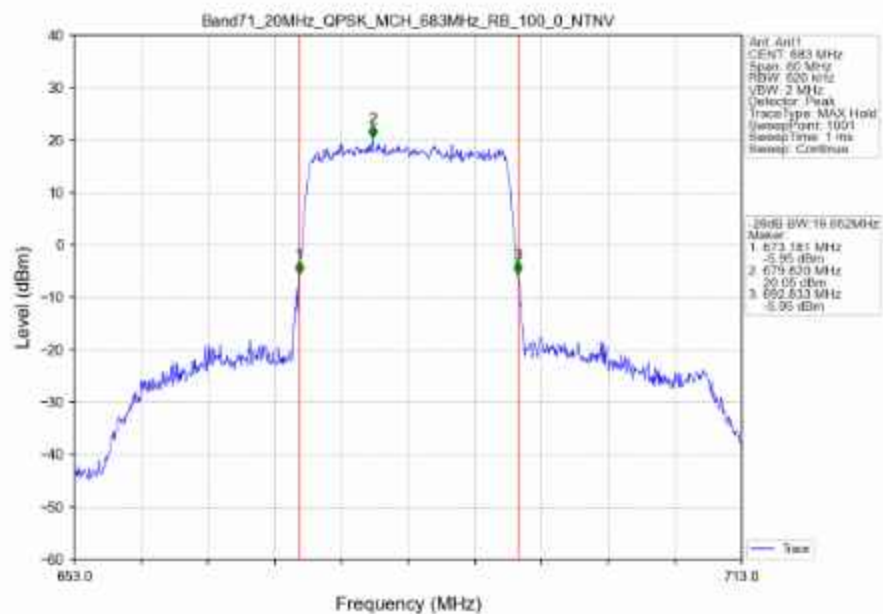
Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



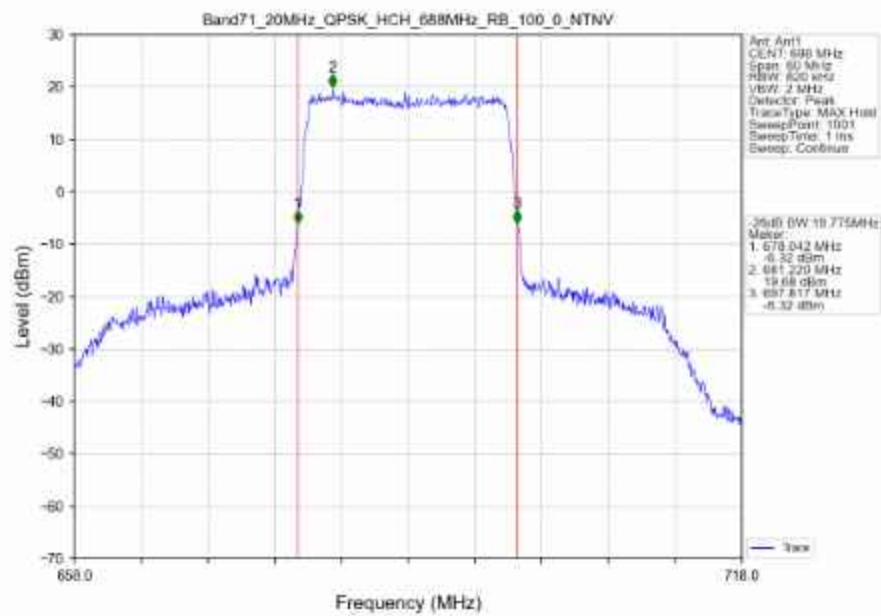
# Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



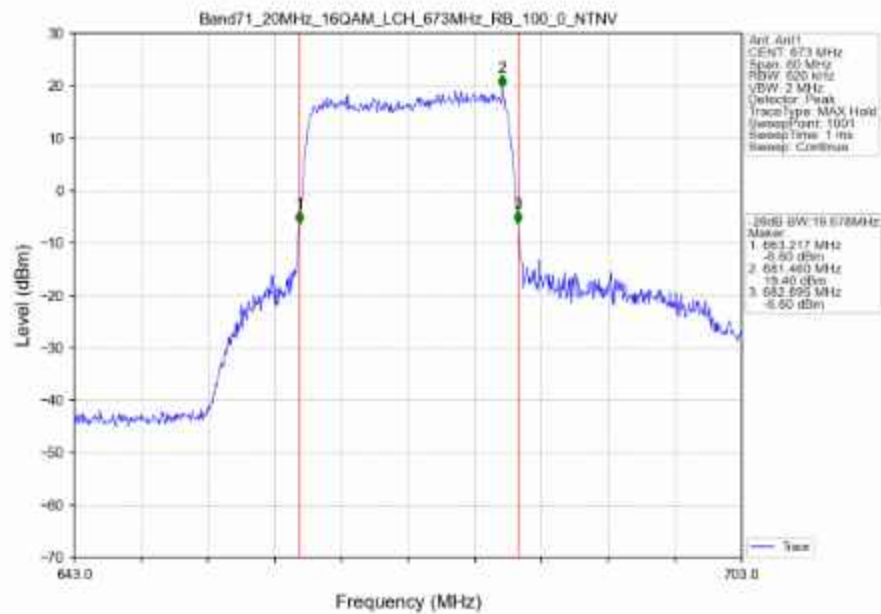
# Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_100\_0\_NTNV



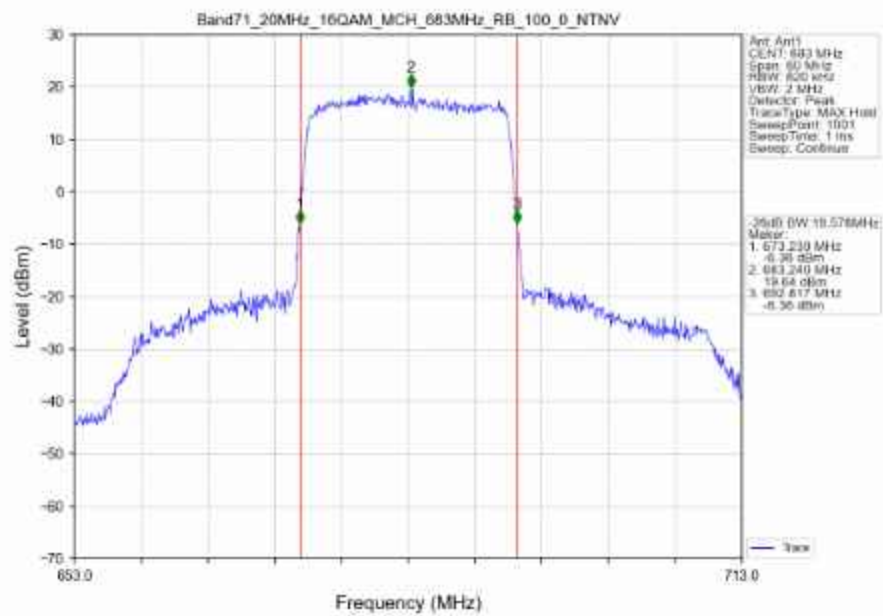
# Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



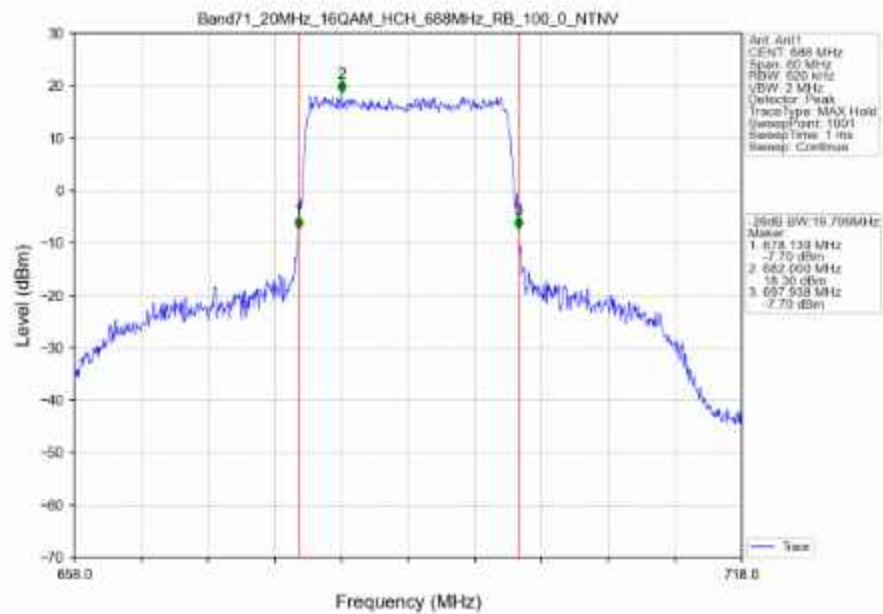
# Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B71\_5MHz

| Band: 71 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 665.5           | 25            | 0      | 4.99                    | <=13  | Pass    |
|                                   | 680.5           | 25            | 0      | 5.19                    | <=13  | Pass    |
|                                   | 695.5           | 25            | 0      | 5.01                    | <=13  | Pass    |
| 16QAM                             | 665.5           | 25            | 0      | 5.79                    | <=13  | Pass    |
|                                   | 680.5           | 25            | 0      | 5.97                    | <=13  | Pass    |
|                                   | 695.5           | 25            | 0      | 5.78                    | <=13  | Pass    |

#### 4.1.2 B71\_10MHz

| Band: 71 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 668             | 50            | 0      | 5.20                    | <=13  | Pass    |
|                                    | 680.5           | 50            | 0      | 5.17                    | <=13  | Pass    |
|                                    | 693             | 50            | 0      | 5.15                    | <=13  | Pass    |
| 16QAM                              | 668             | 50            | 0      | 6.04                    | <=13  | Pass    |
|                                    | 680.5           | 50            | 0      | 6.01                    | <=13  | Pass    |
|                                    | 693             | 50            | 0      | 5.95                    | <=13  | Pass    |

#### 4.1.3 B71\_15MHz

| Band: 71 / Bandwidth: 15MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 670.5           | 75            | 0      | 5.34                    | <=13  | Pass    |
|                                    | 680.5           | 75            | 0      | 5.28                    | <=13  | Pass    |
|                                    | 690.5           | 75            | 0      | 5.38                    | <=13  | Pass    |
| 16QAM                              | 670.5           | 75            | 0      | 6.08                    | <=13  | Pass    |
|                                    | 680.5           | 75            | 0      | 6.03                    | <=13  | Pass    |
|                                    | 690.5           | 75            | 0      | 6.12                    | <=13  | Pass    |

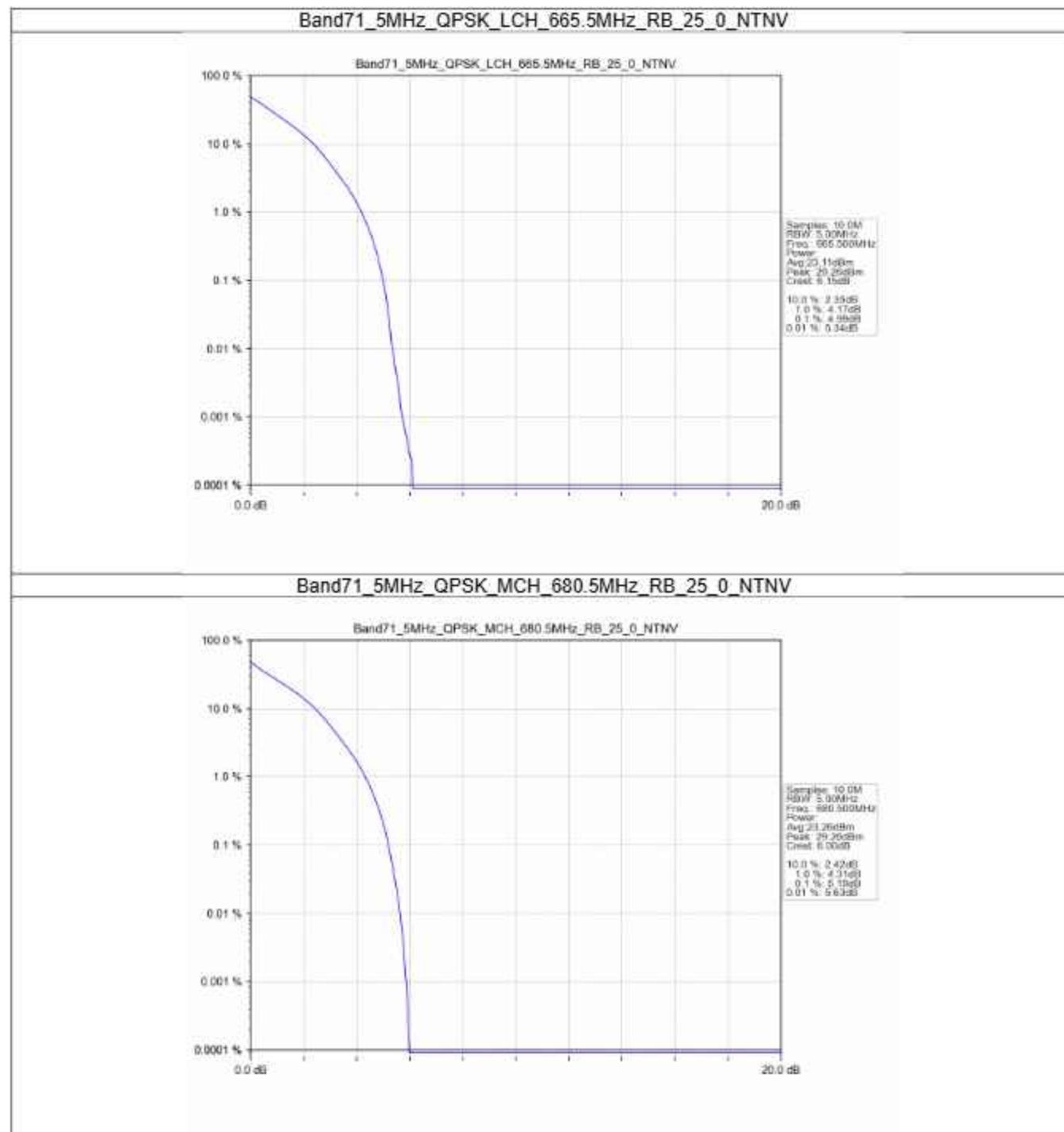
#### 4.1.4 B71\_20MHz

| Band: 71 / Bandwidth: 20MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 673             | 100           | 0      | 5.24                    | <=13  | Pass    |
|                                    | 683             | 100           | 0      | 5.14                    | <=13  | Pass    |
|                                    | 688             | 100           | 0      | 5.24                    | <=13  | Pass    |

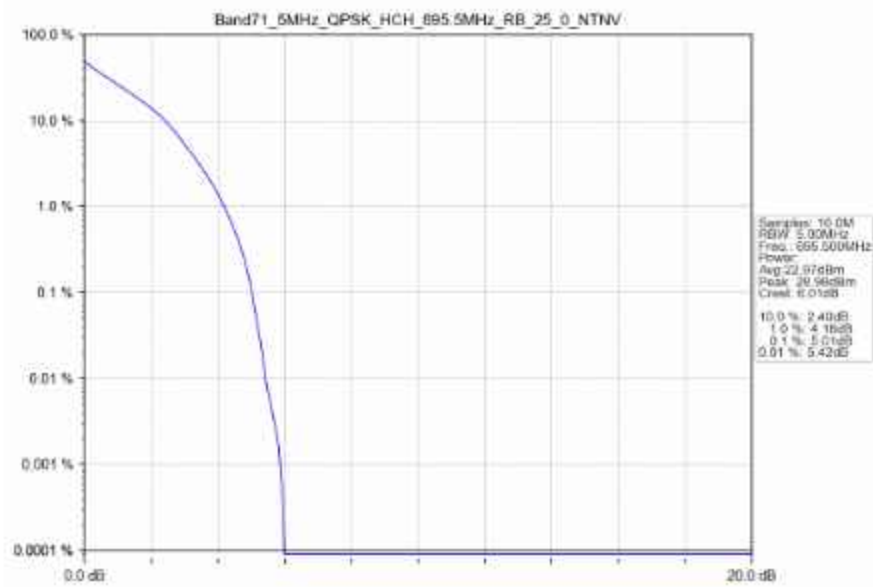
|       |     |     |   |      |           |      |
|-------|-----|-----|---|------|-----------|------|
| 16QAM | 673 | 100 | 0 | 6.05 | $\leq 13$ | Pass |
|       | 683 | 100 | 0 | 6.01 | $\leq 13$ | Pass |
|       | 688 | 100 | 0 | 6.07 | $\leq 13$ | Pass |

## 4.2 Test Graph

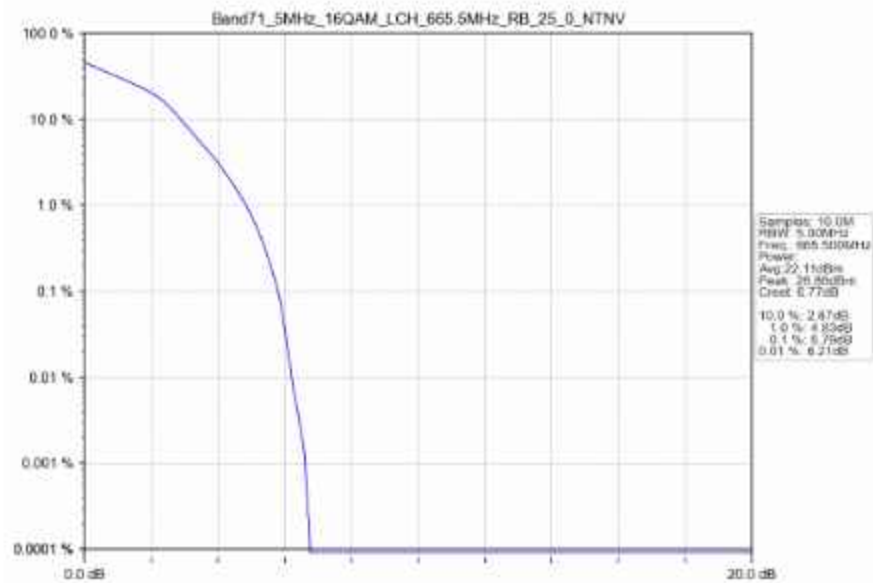
### 4.2.1 B71\_5MHz



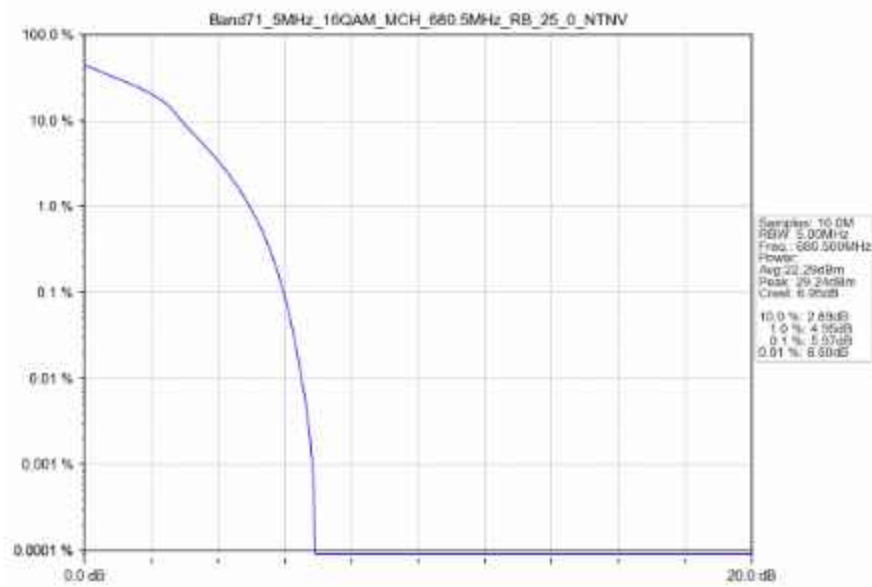
# Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



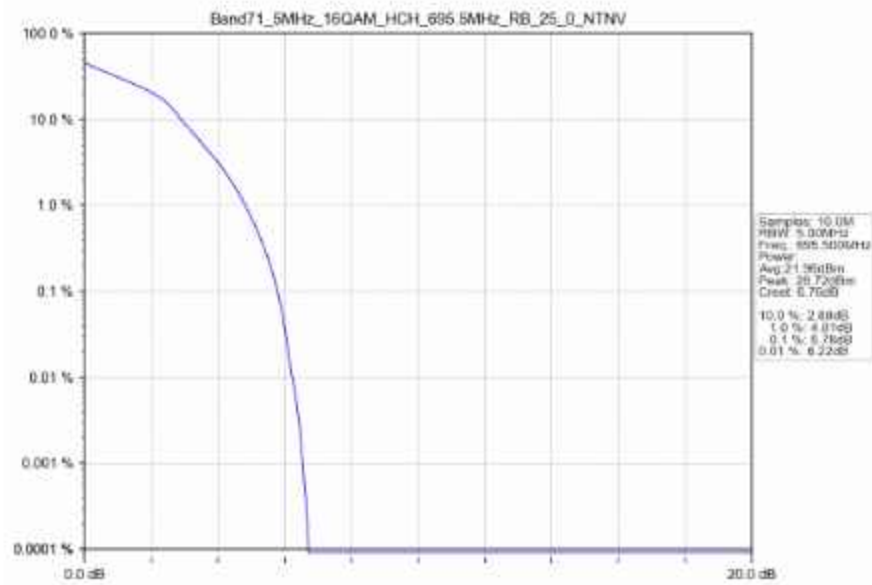
# Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



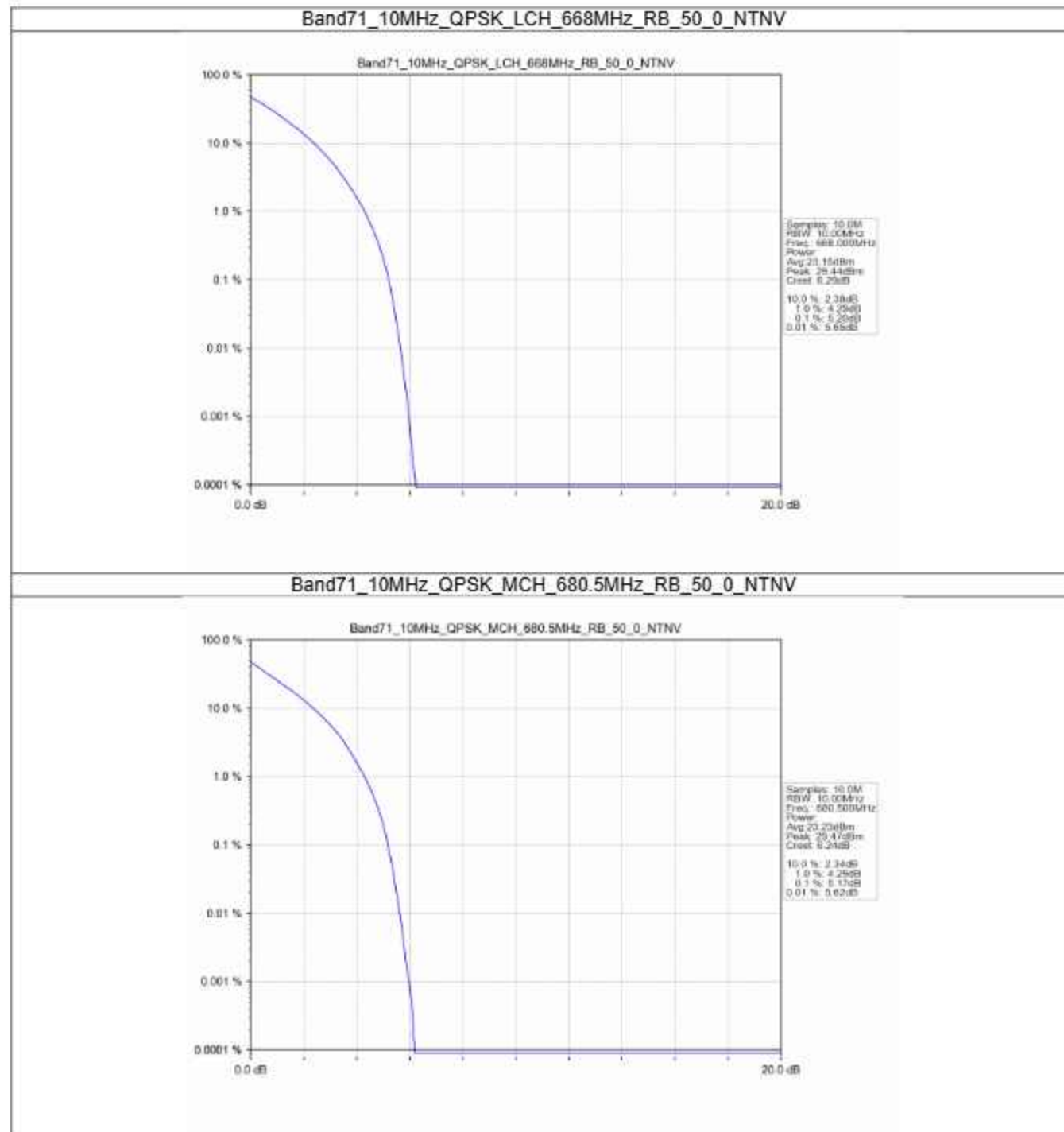
Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV



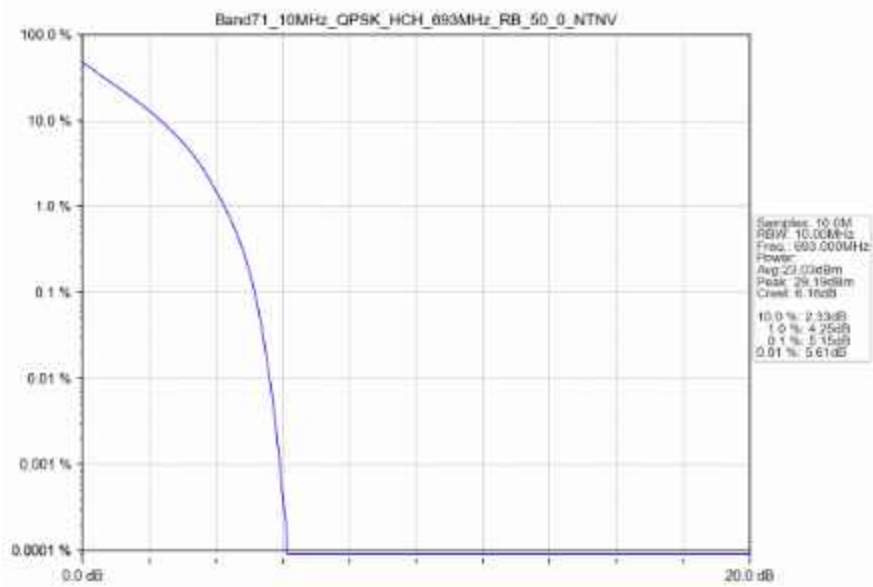
Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



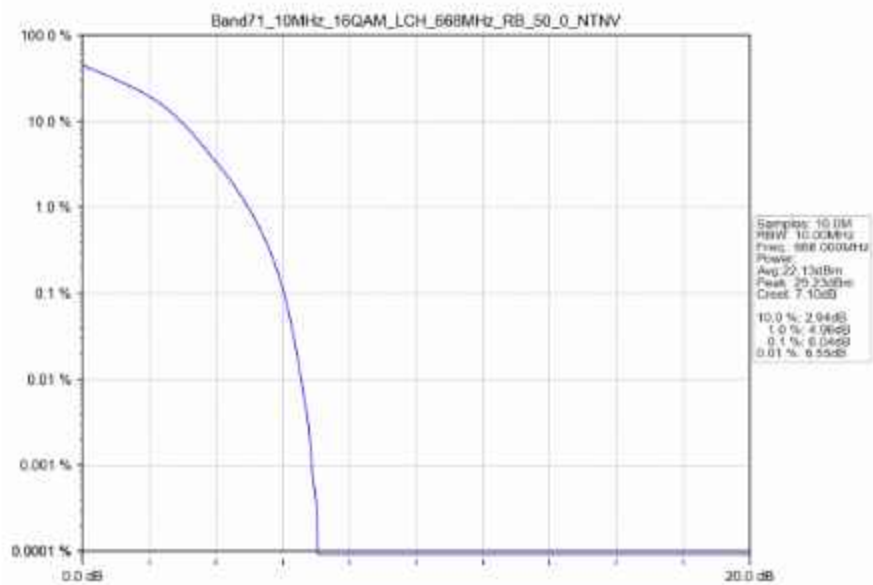
## 4.2.2 B71\_10MHz



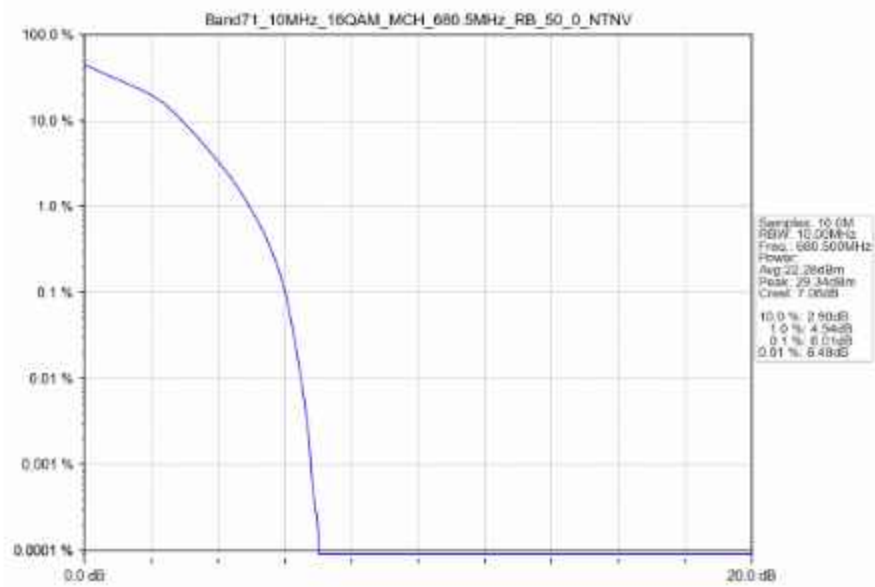
Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



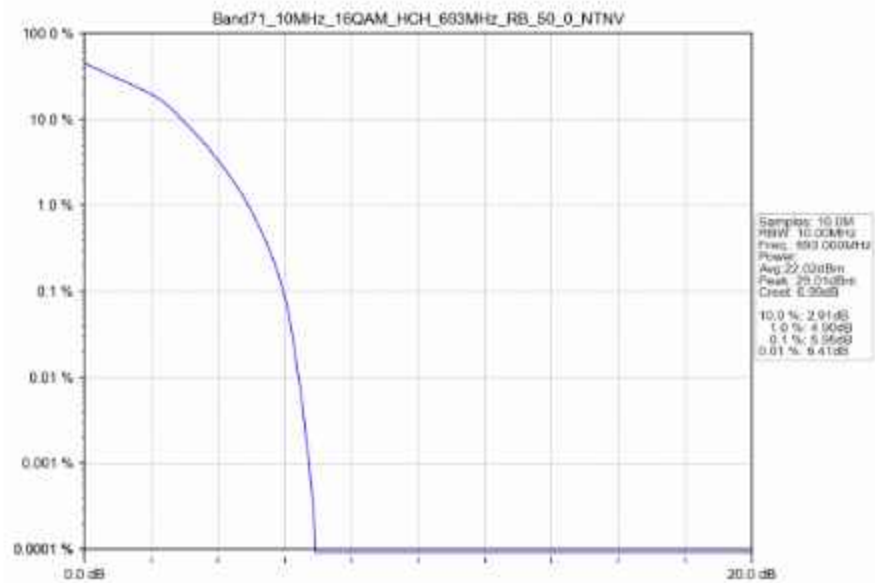
Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



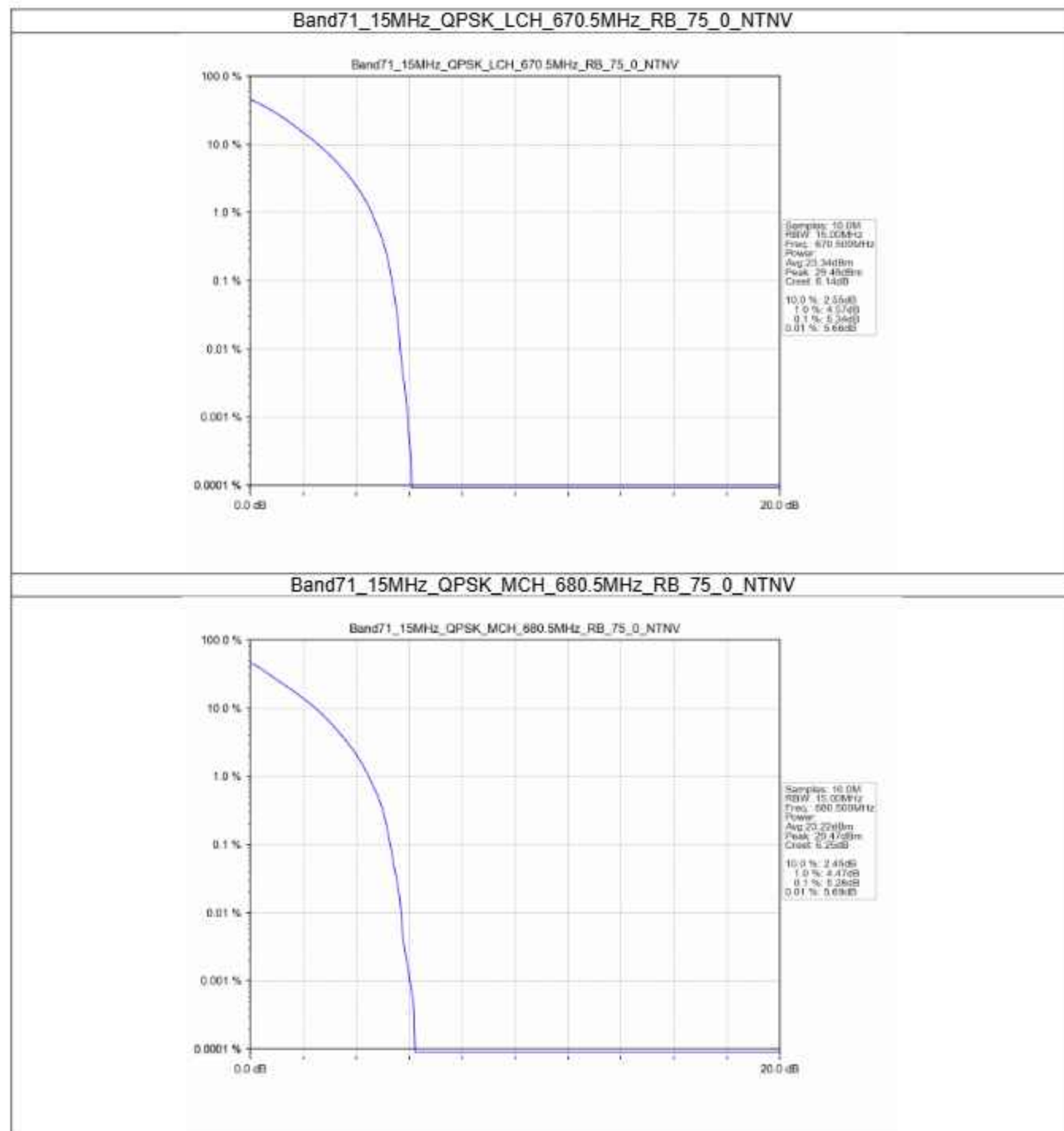
# Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



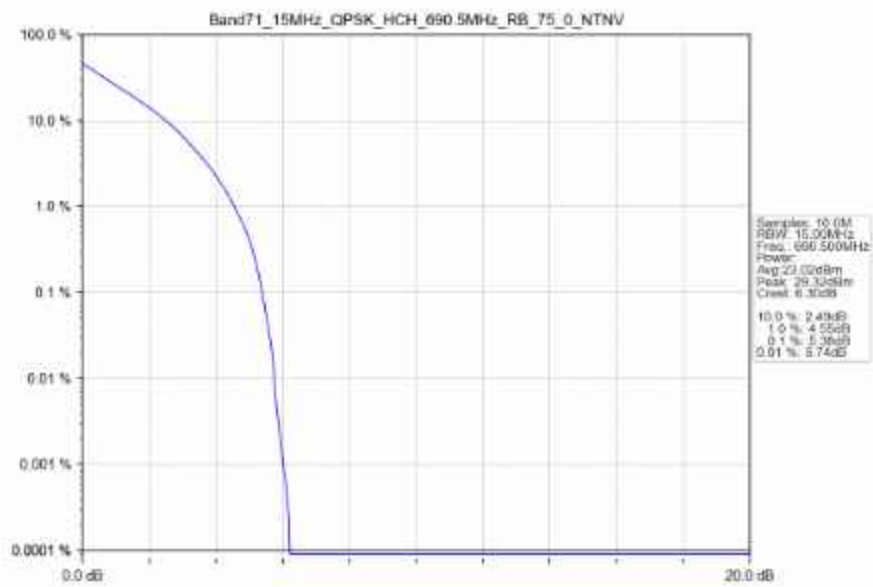
# Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV



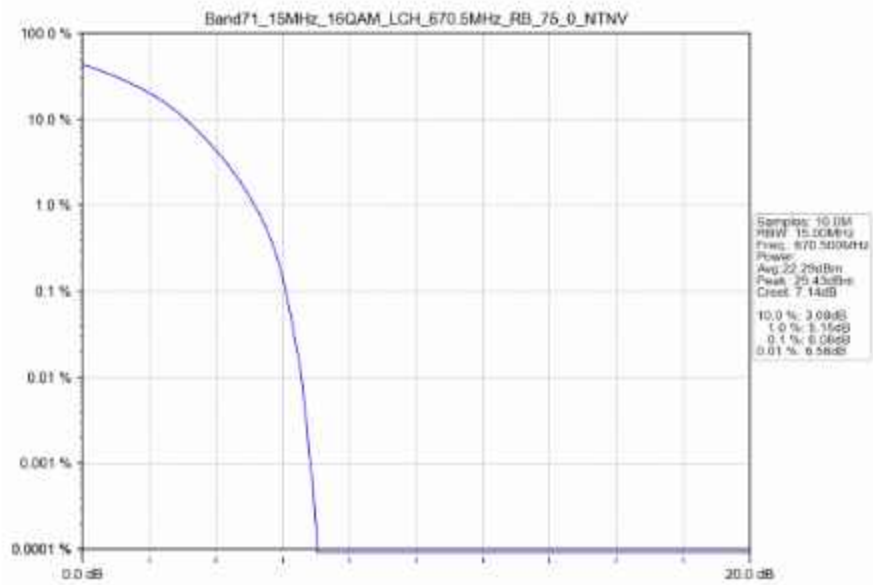
### 4.2.3 B71\_15MHz



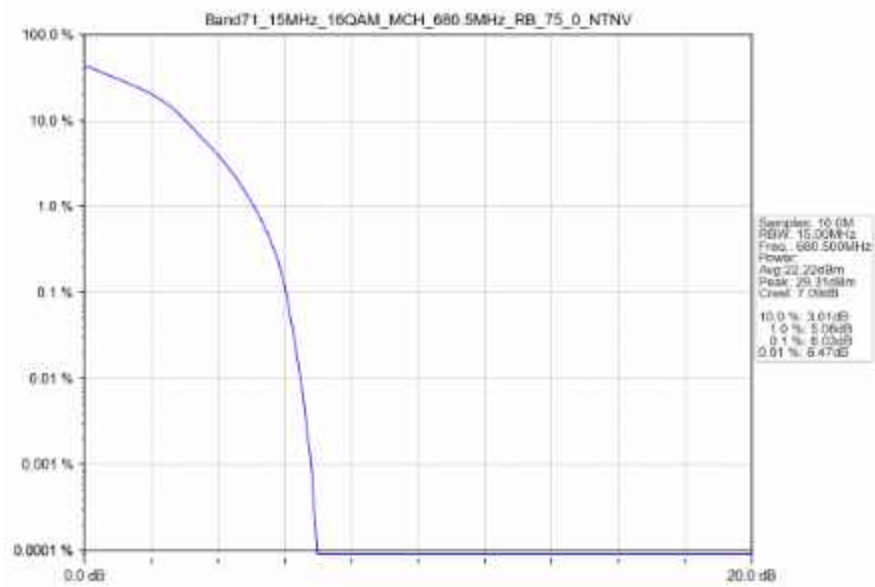
# Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



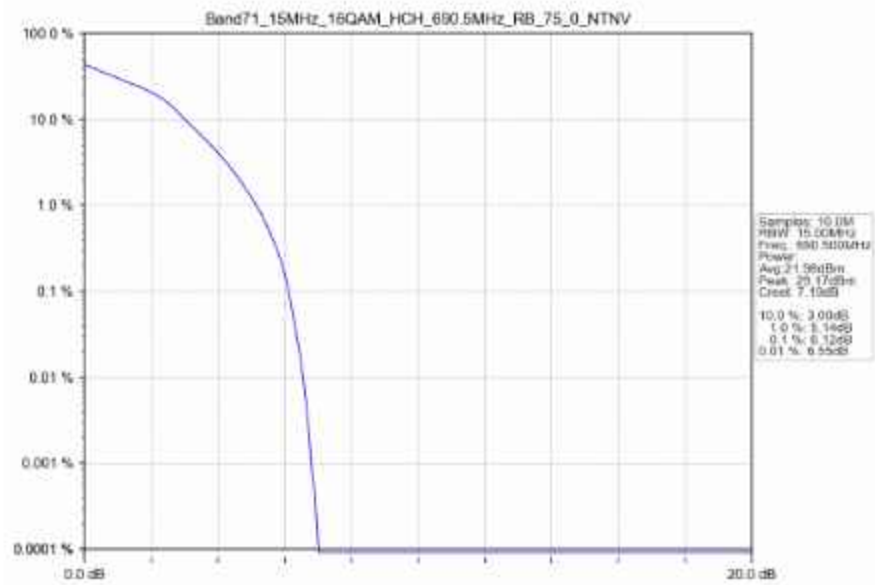
# Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



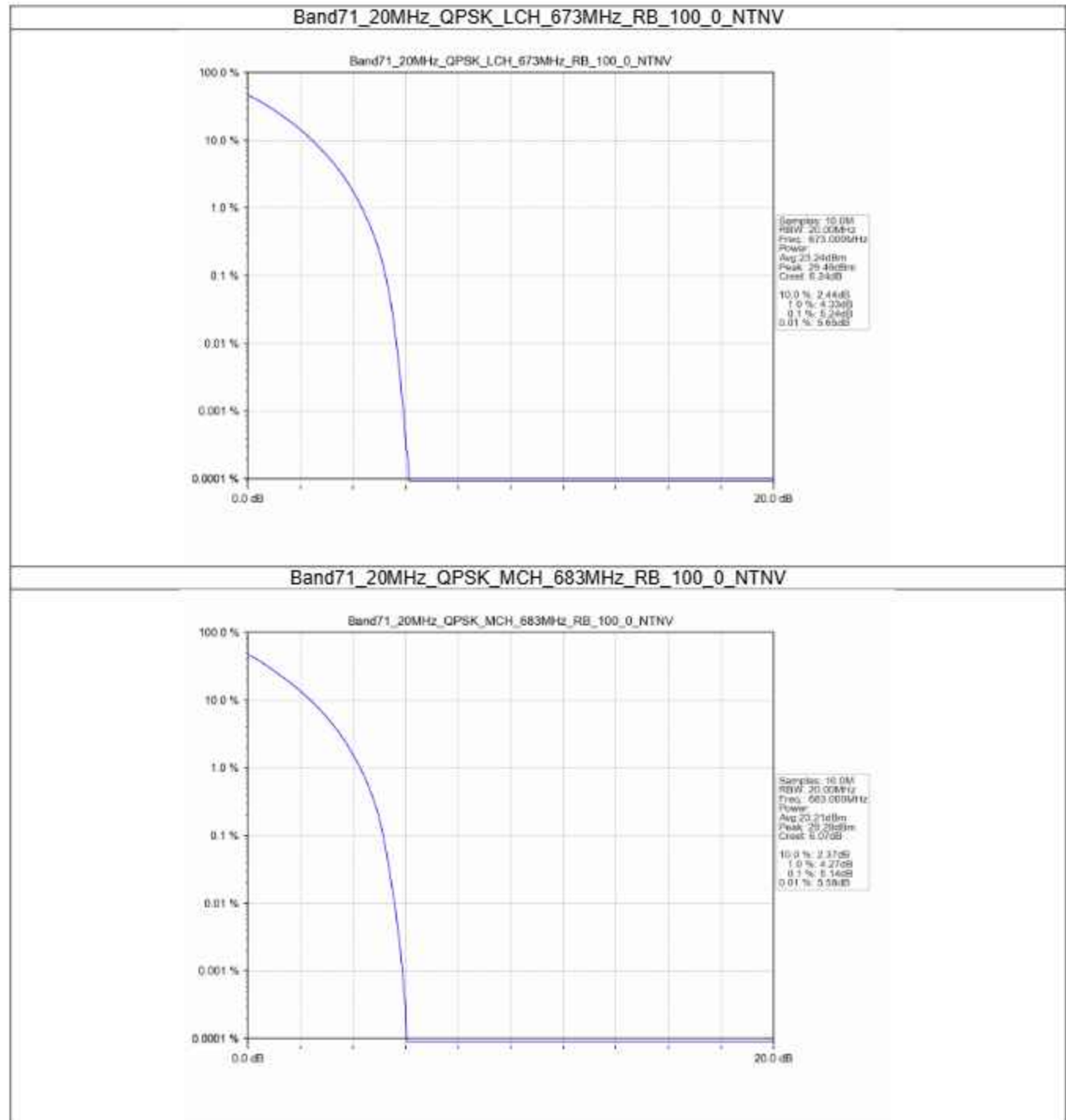
# Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



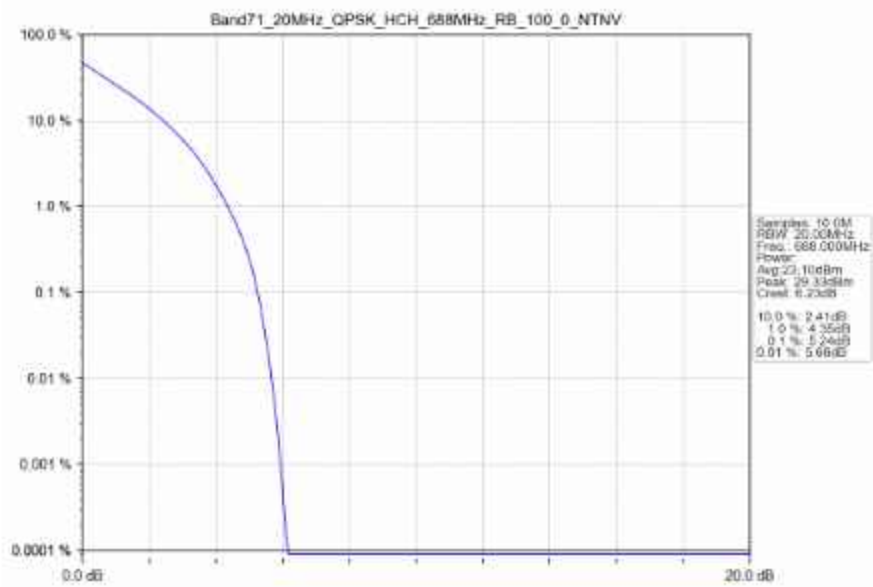
# Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



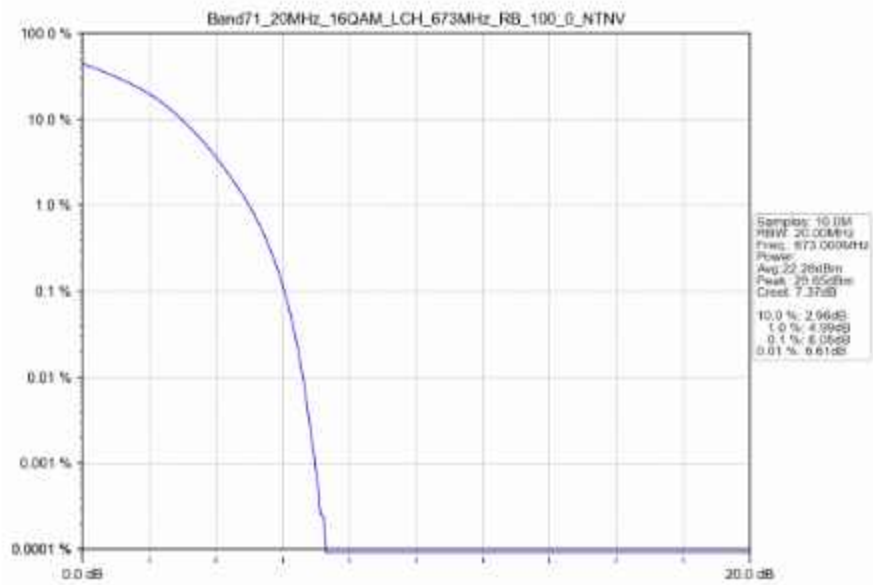
#### 4.2.4 B71\_20MHz



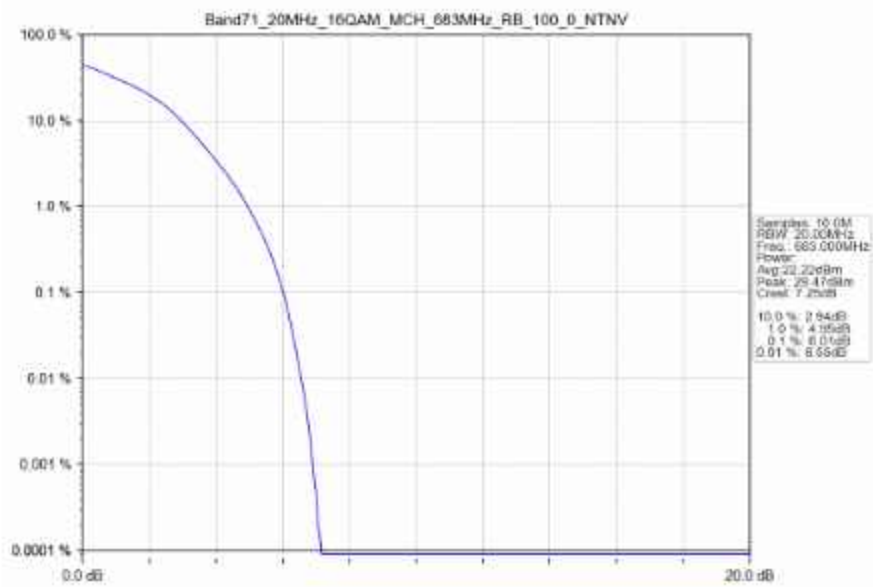
# Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



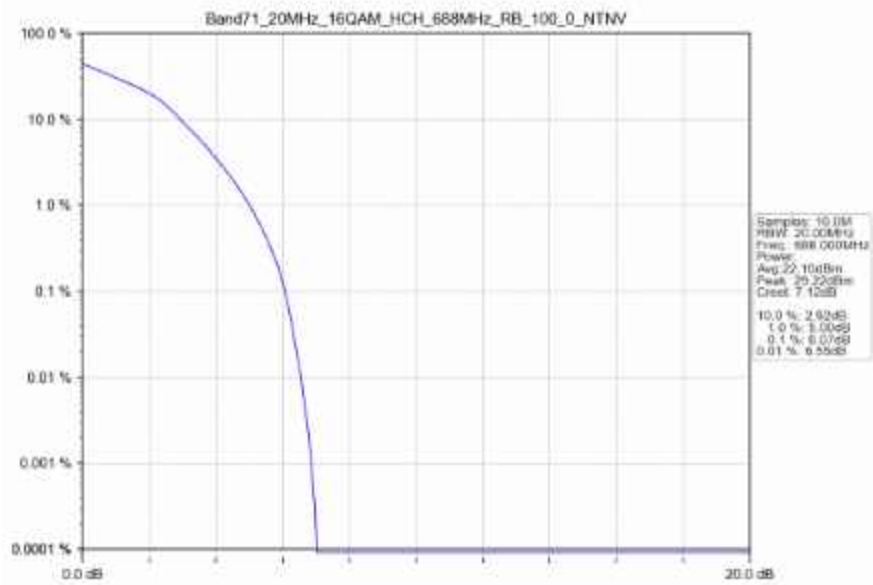
# Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



# Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



# Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B71\_5MHz

| Band: 71 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 665.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 680.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
| 16QAM                            | 665.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 680.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.2 B71\_10MHz

| Band: 71 / Bandwidth: 10MHz / NTV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 668             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 680.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 49     | Refer To Test Graph |       | Pass    |
| 16QAM                             | 668             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 680.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 49     | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.3 B71\_15MHz

| Band: 71 / Bandwidth: 15MHz / NTV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 670.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 75            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 680.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 74     | Refer To Test Graph |       | Pass    |

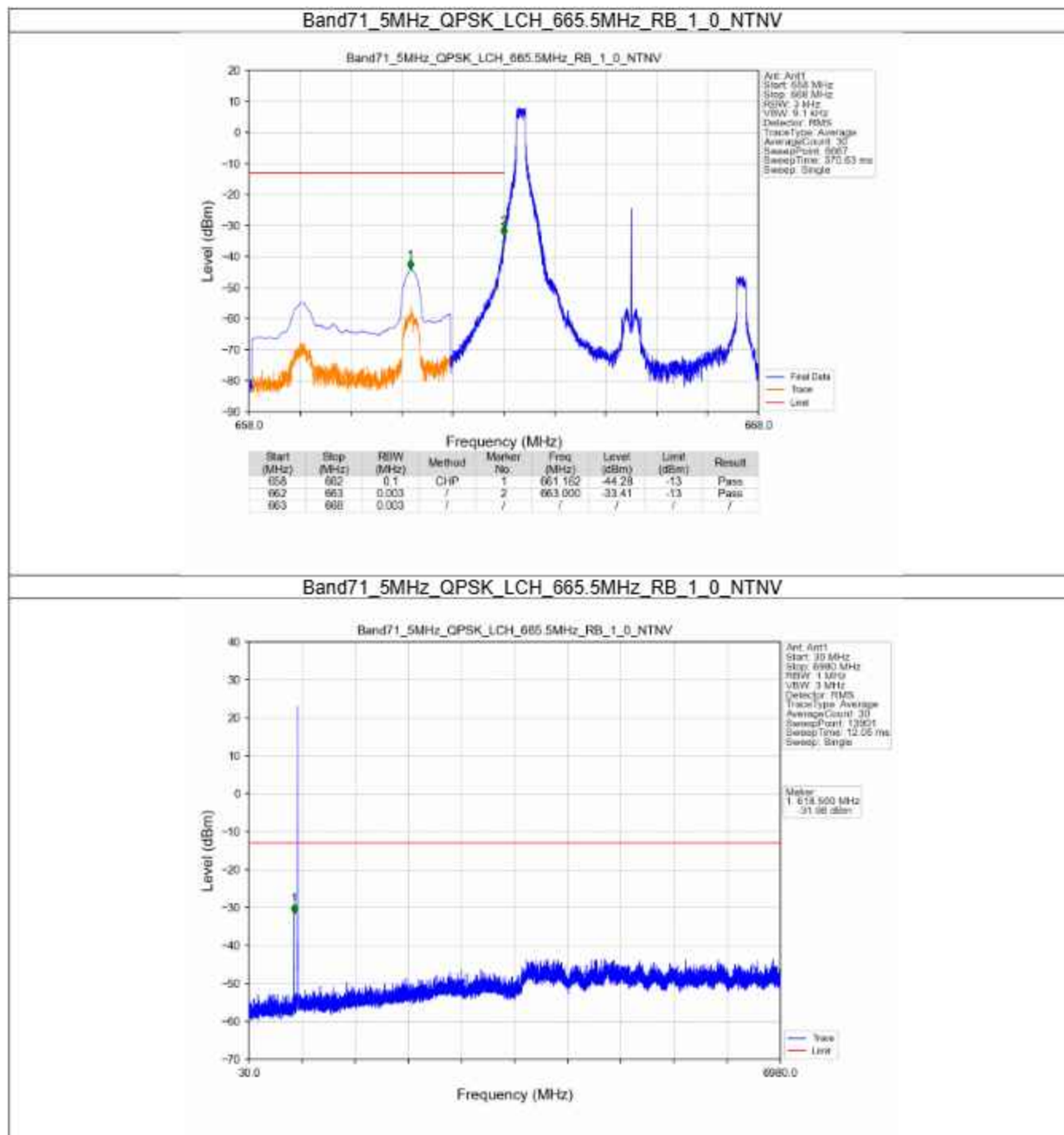
|       |       |    |    |                     |      |
|-------|-------|----|----|---------------------|------|
|       |       | 75 | 0  | Refer To Test Graph | Pass |
| 16QAM | 670.5 | 1  | 0  | Refer To Test Graph | Pass |
|       |       | 75 | 0  | Refer To Test Graph | Pass |
|       |       |    |    |                     |      |
|       | 680.5 | 1  | 0  | Refer To Test Graph | Pass |
|       |       |    |    |                     |      |
|       |       |    |    |                     |      |
|       | 690.5 | 1  | 0  | Refer To Test Graph | Pass |
|       |       |    | 74 | Refer To Test Graph | Pass |
|       |       | 75 | 0  | Refer To Test Graph | Pass |

#### 5.1.4 B71\_20MHz

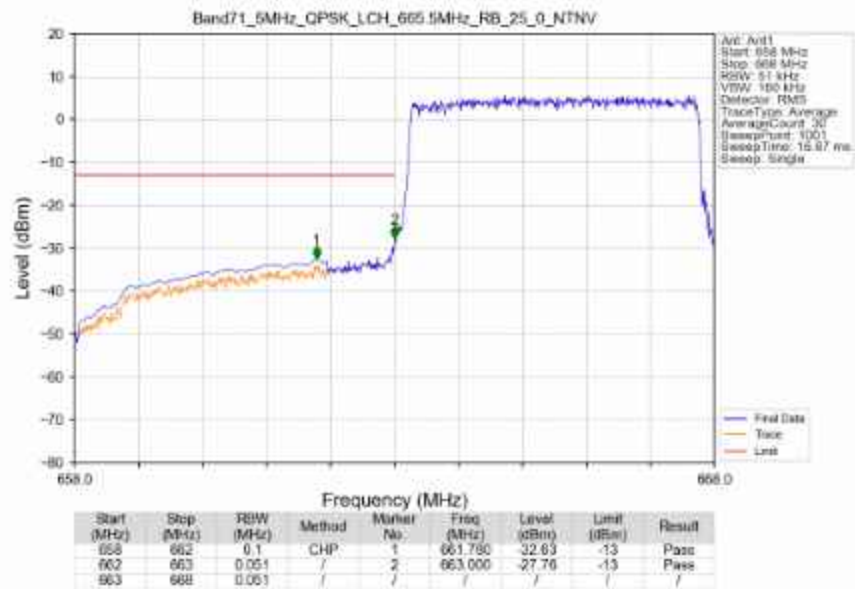
| Band: 71 / Bandwidth: 20MHz / NTV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 673             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 100           | 0      | Refer To Test Graph |       | Pass    |
|                                   | 683             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               |        |                     |       |         |
|                                   | 688             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 99     | Refer To Test Graph |       | Pass    |
| 16QAM                             | 673             | 100           | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               |        |                     |       |         |
|                                   | 683             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               |        |                     |       |         |
|                                   | 688             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               |        |                     |       |         |
|                                   |                 |               | 99     | Refer To Test Graph |       | Pass    |
|                                   |                 | 100           | 0      | Refer To Test Graph |       | Pass    |

## 5.2 Test Graph

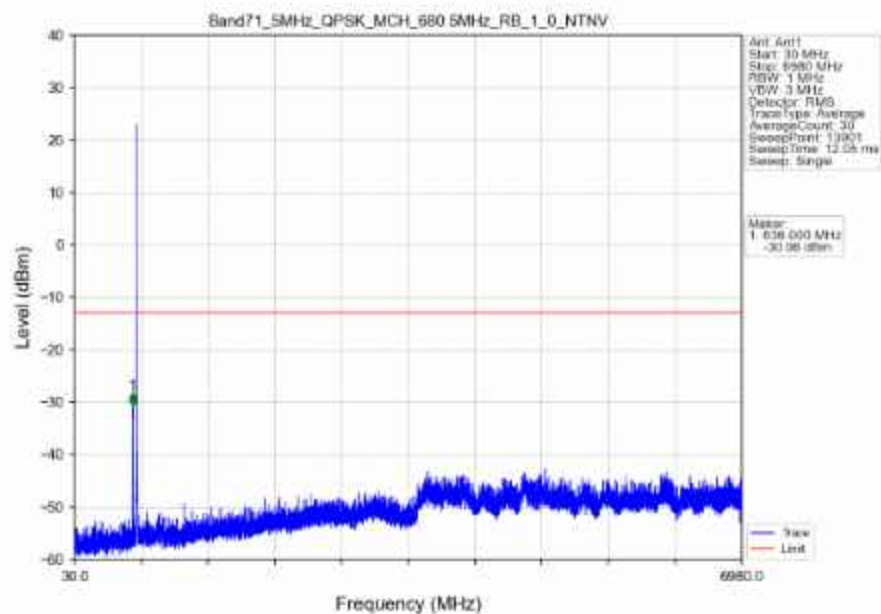
### 5.2.1 B71\_5MHz



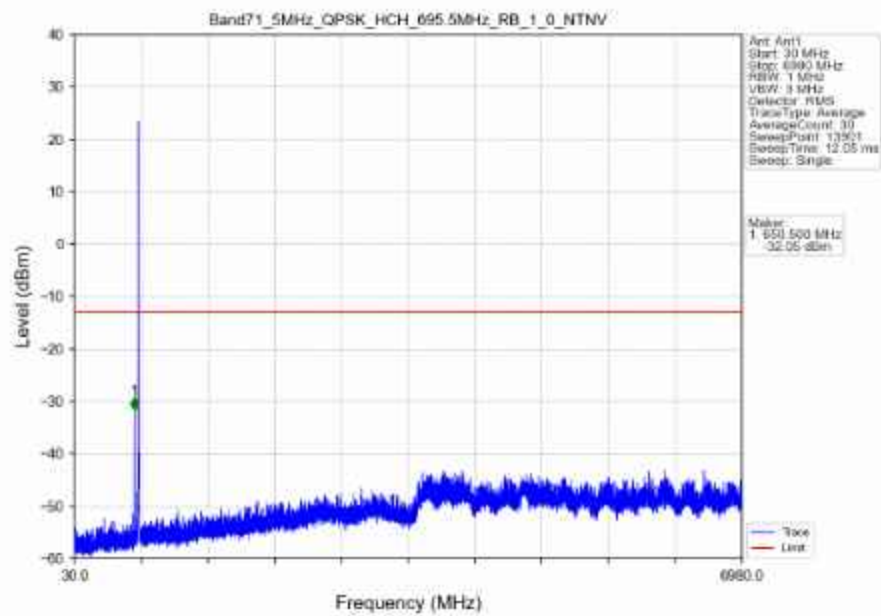
# Band71\_5MHz\_QPSK\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



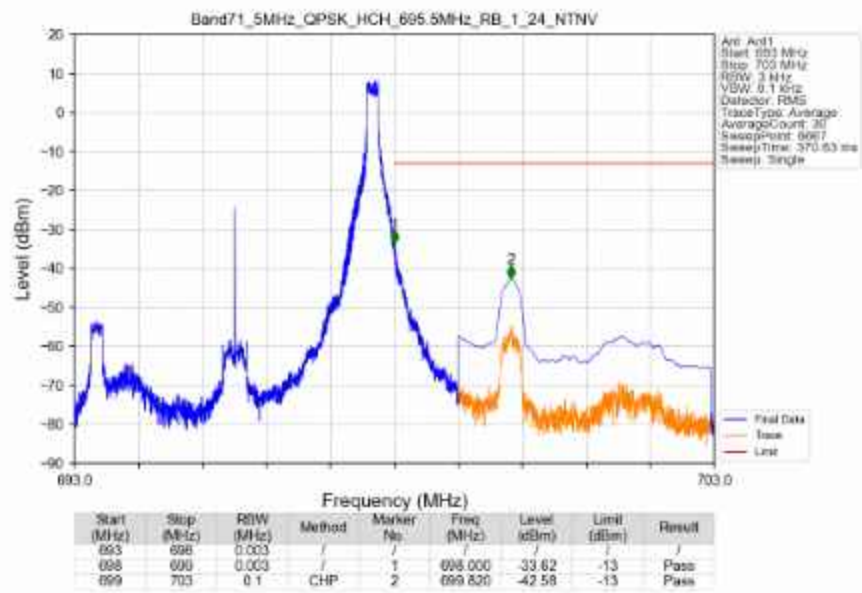
# Band71\_5MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



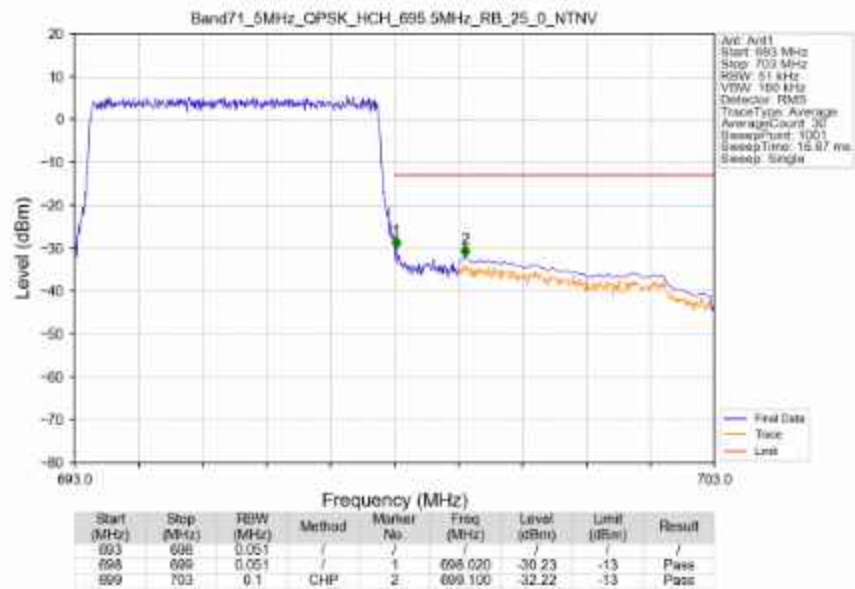
### Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_1\_0\_NTNV



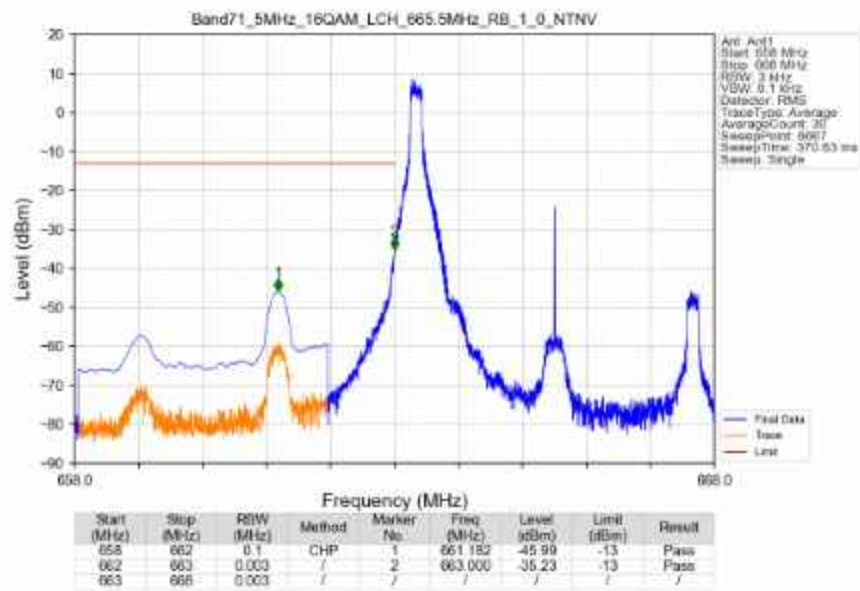
### Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_1\_24\_NTNV



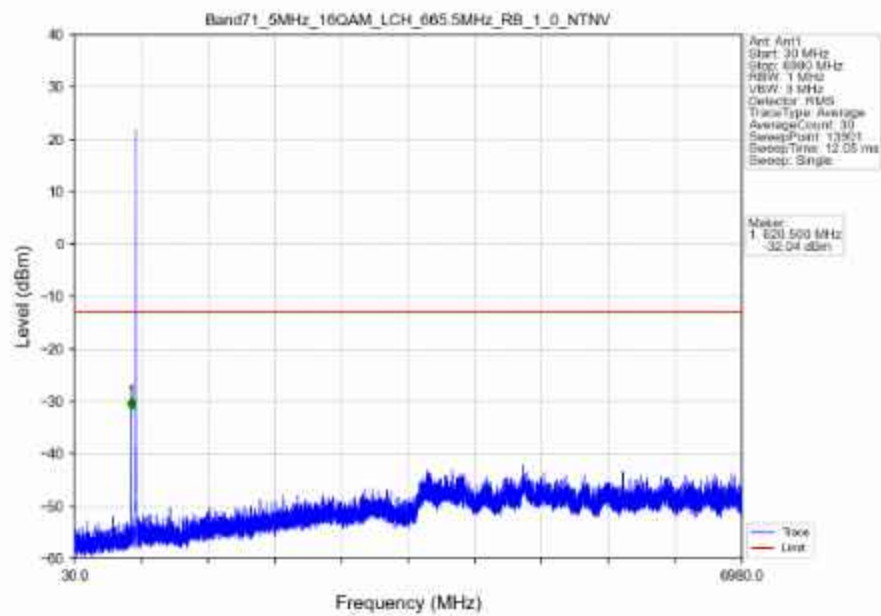
# Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



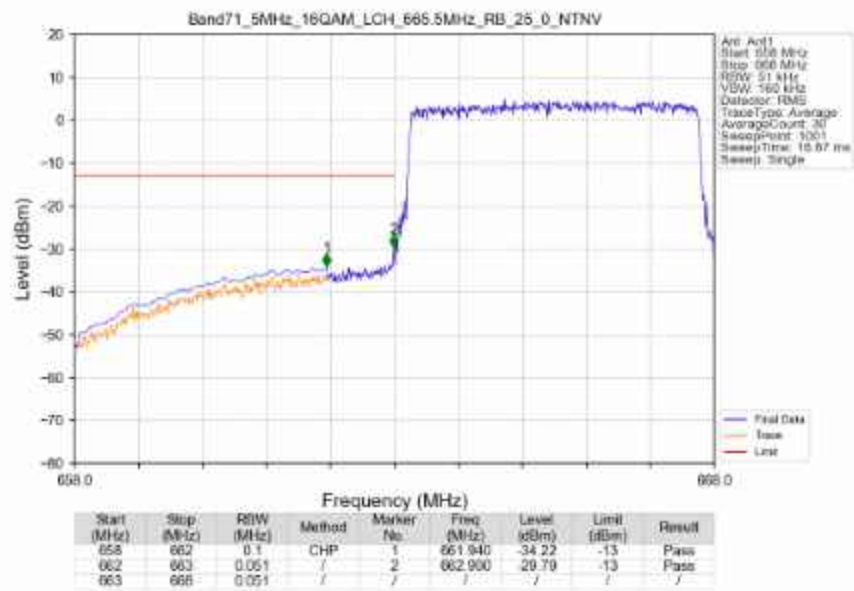
# Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_1\_0\_NTNV



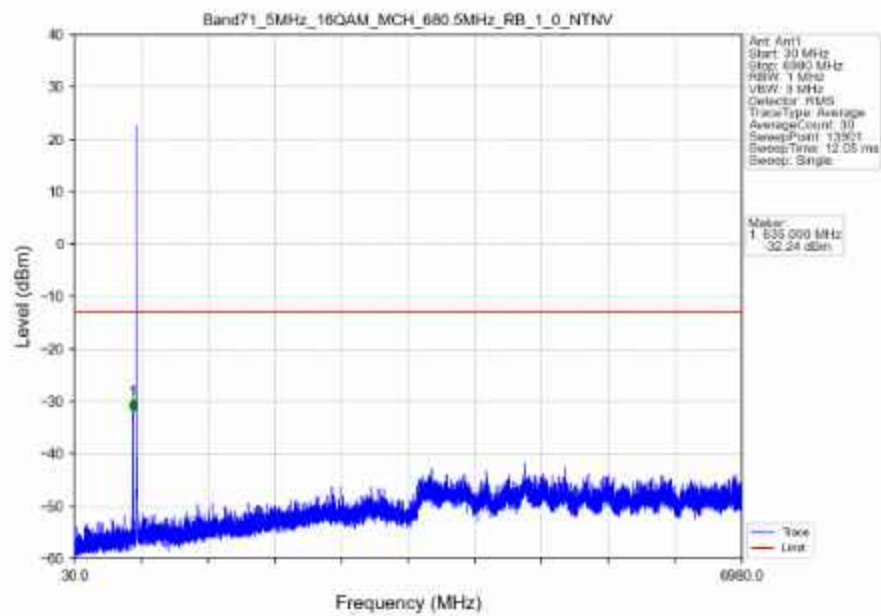
# Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_1\_0\_NTNV



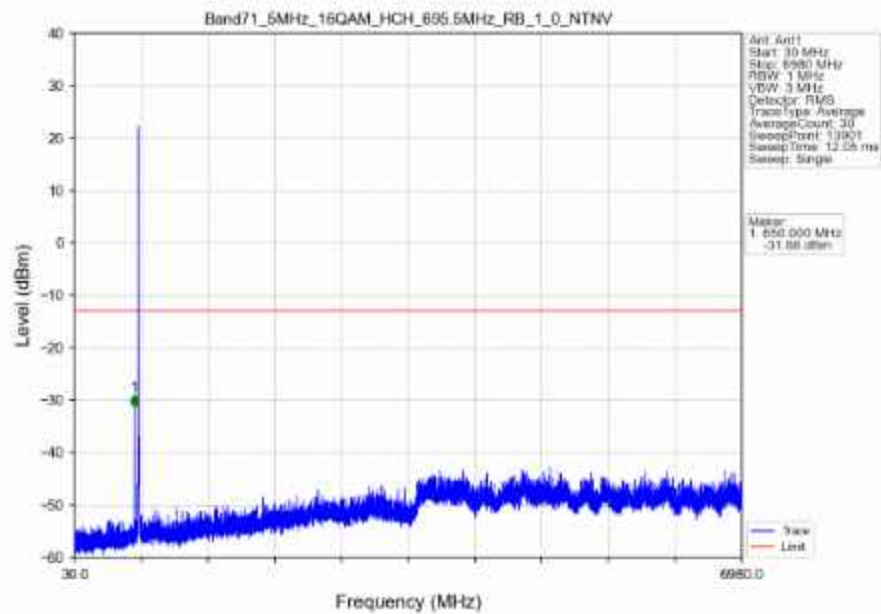
# Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



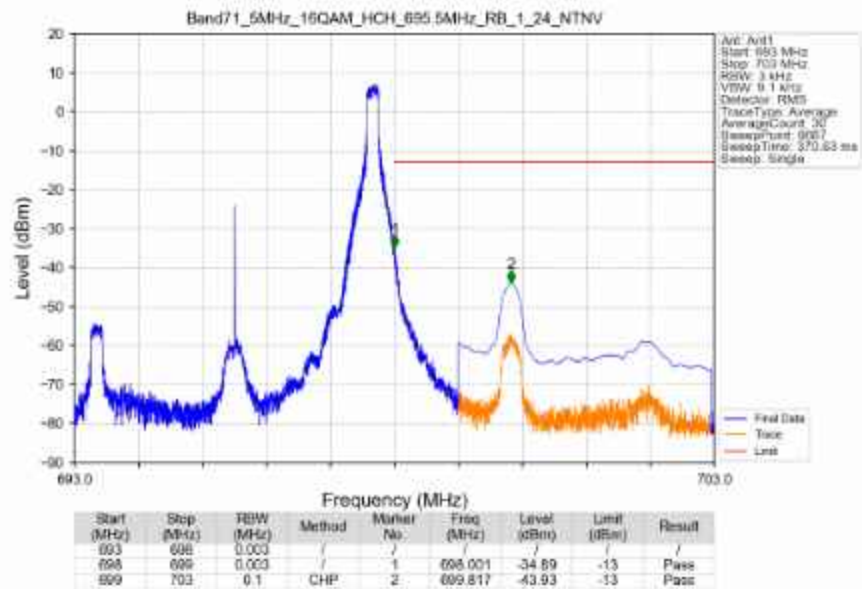
Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



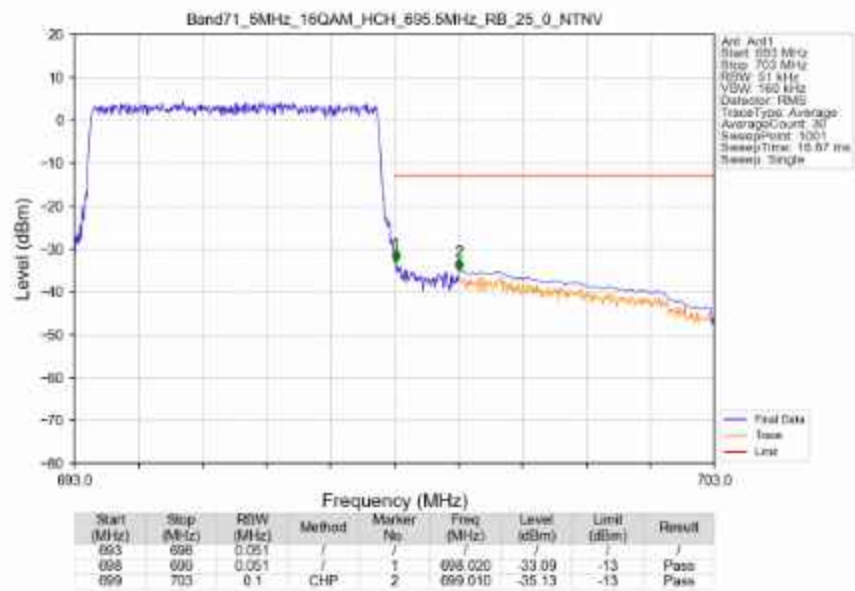
Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_1\_0\_NTNV



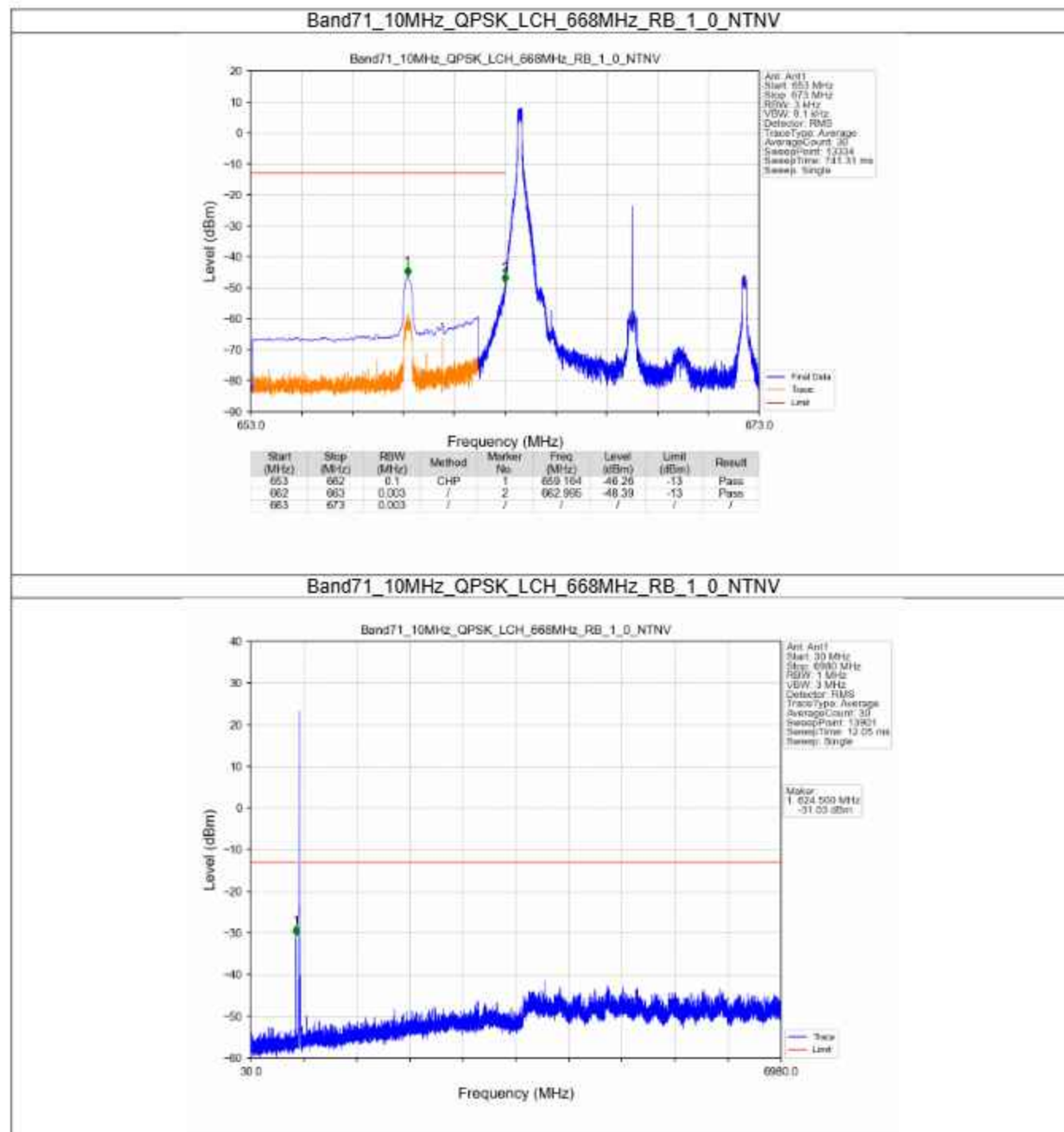
# Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_1\_24\_NTNV



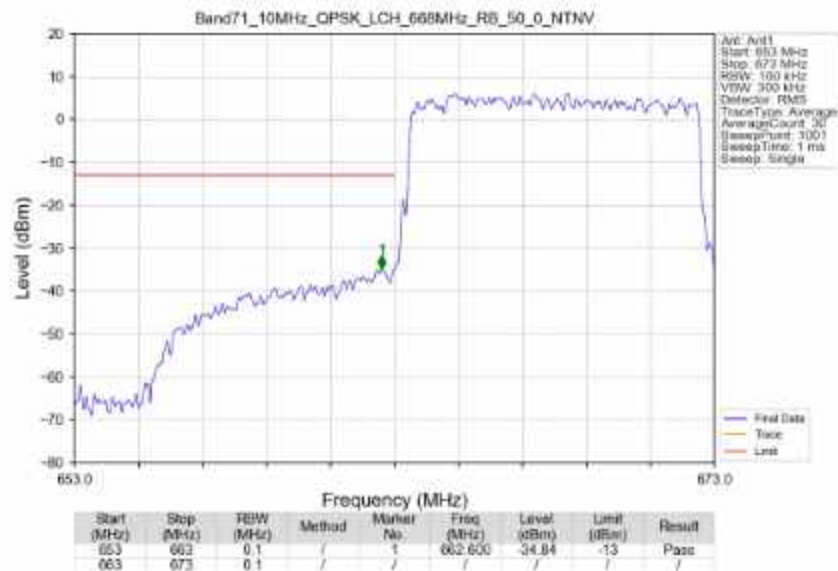
# Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



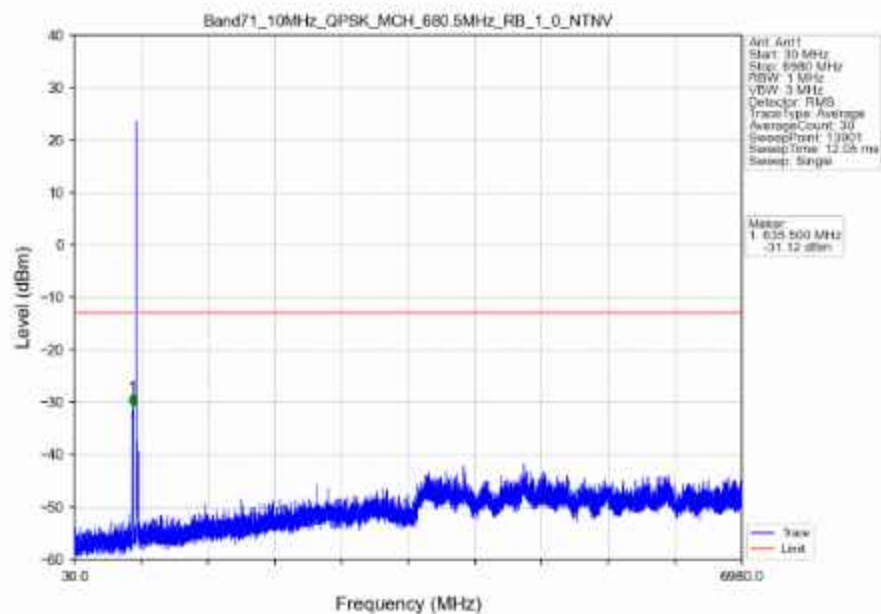
## 5.2.2 B71\_10MHz



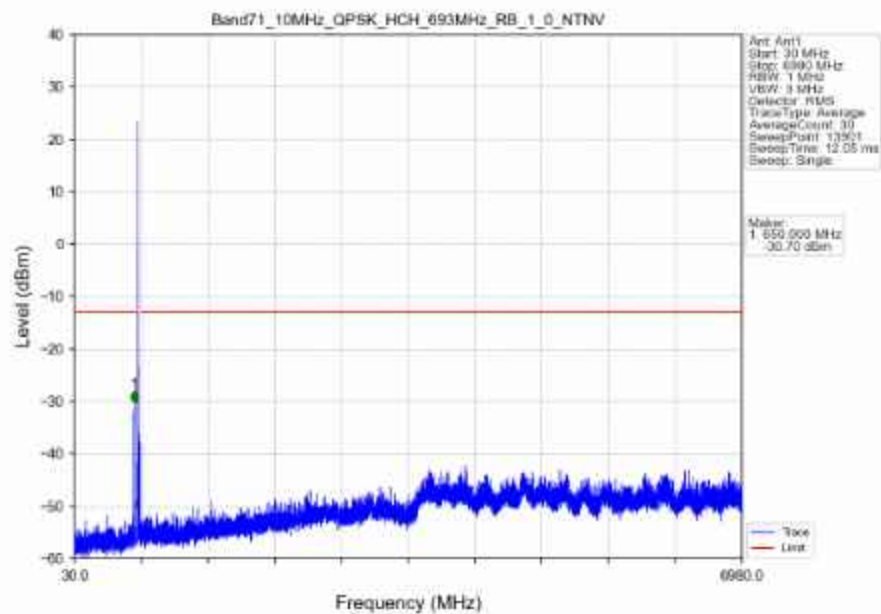
# Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV



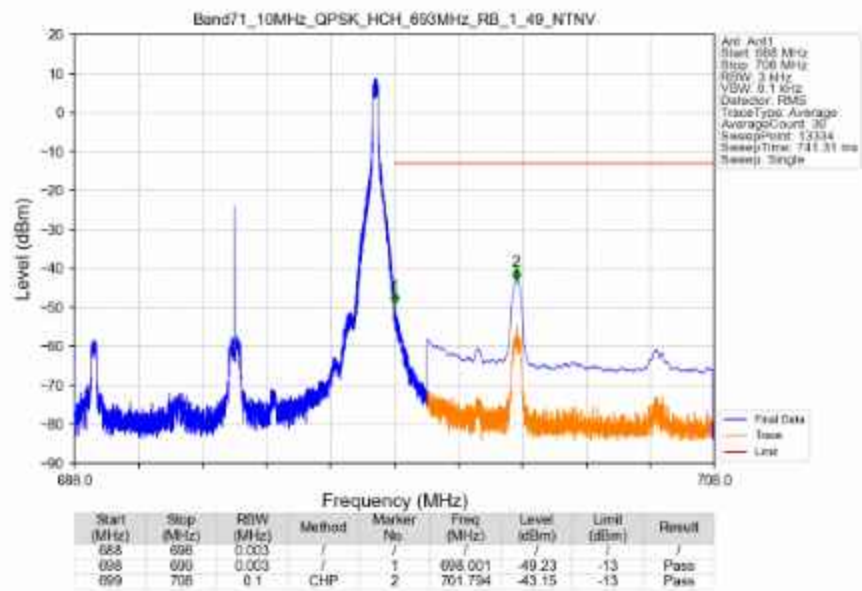
# Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



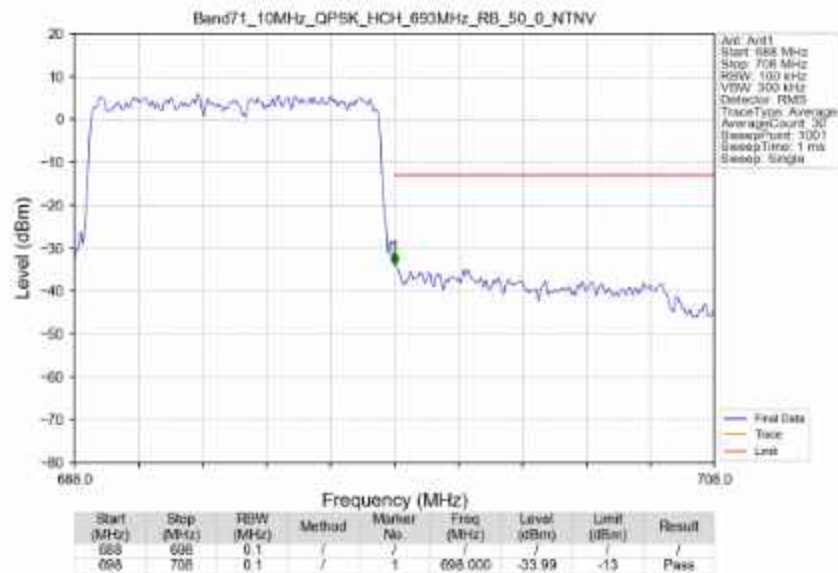
# Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_1\_0\_NTNV



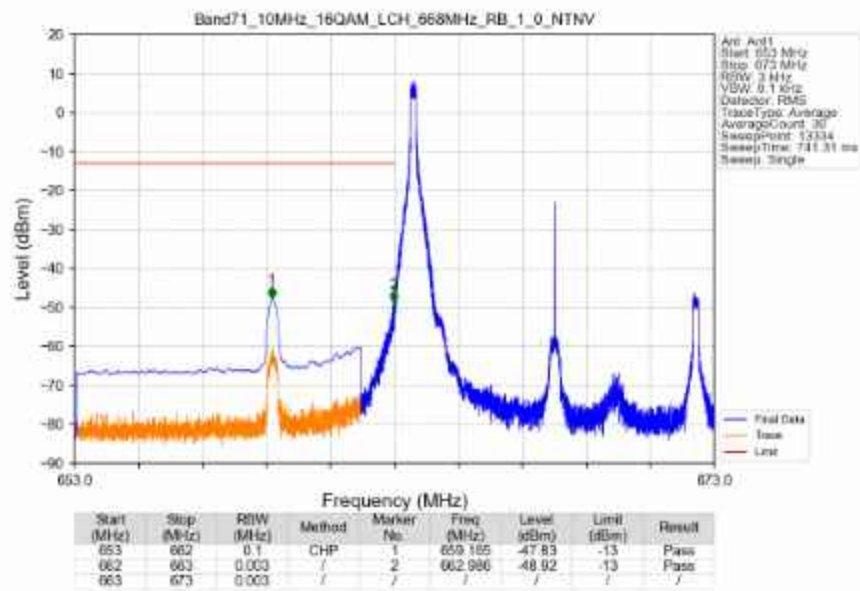
# Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_1\_49\_NTNV



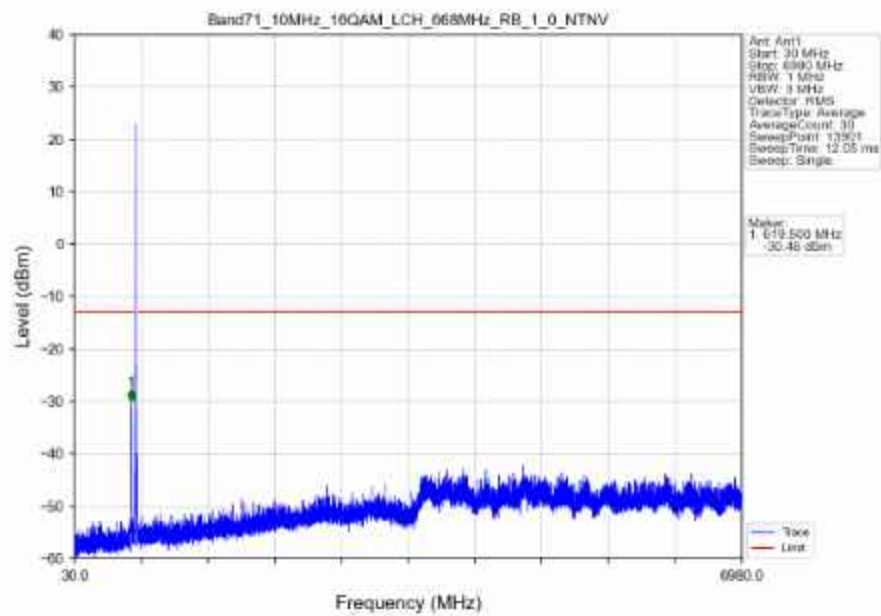
# Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



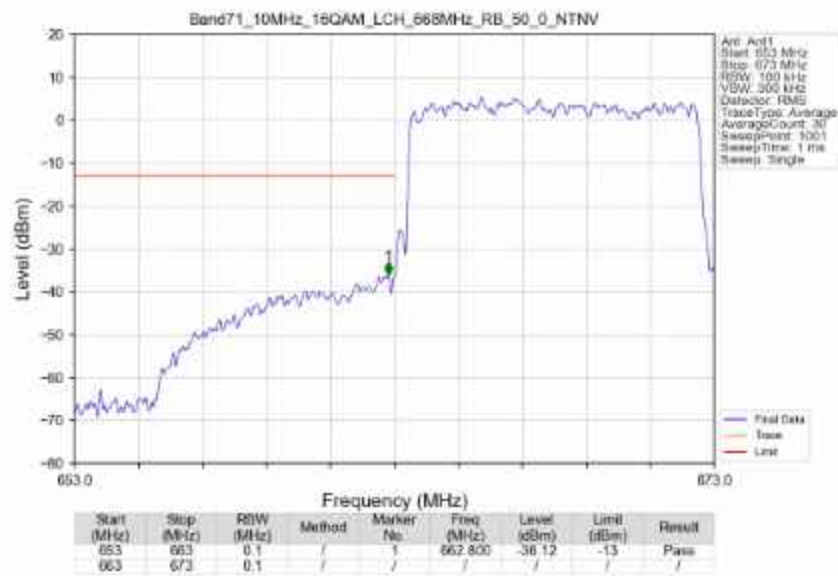
# Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_1\_0\_NTNV



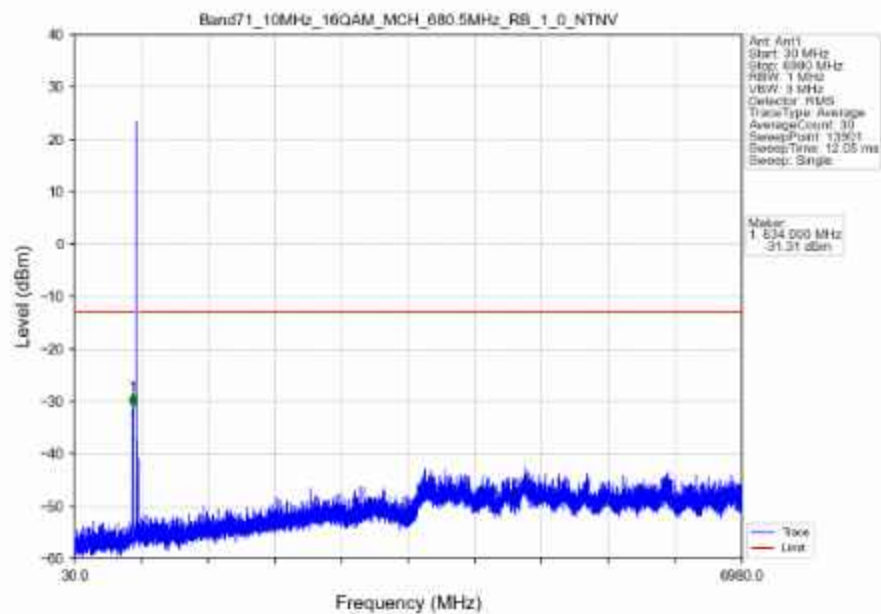
# Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_1\_0\_NTNV



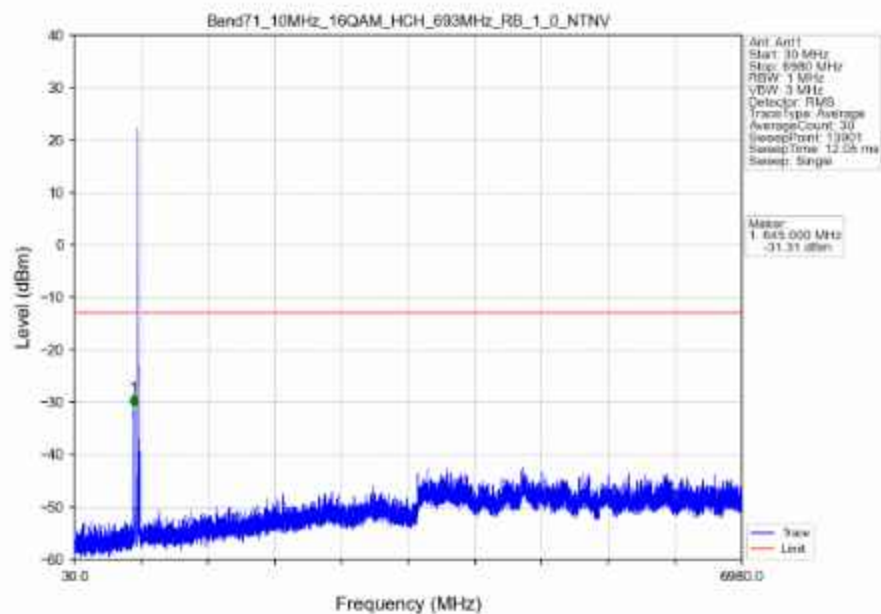
# Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



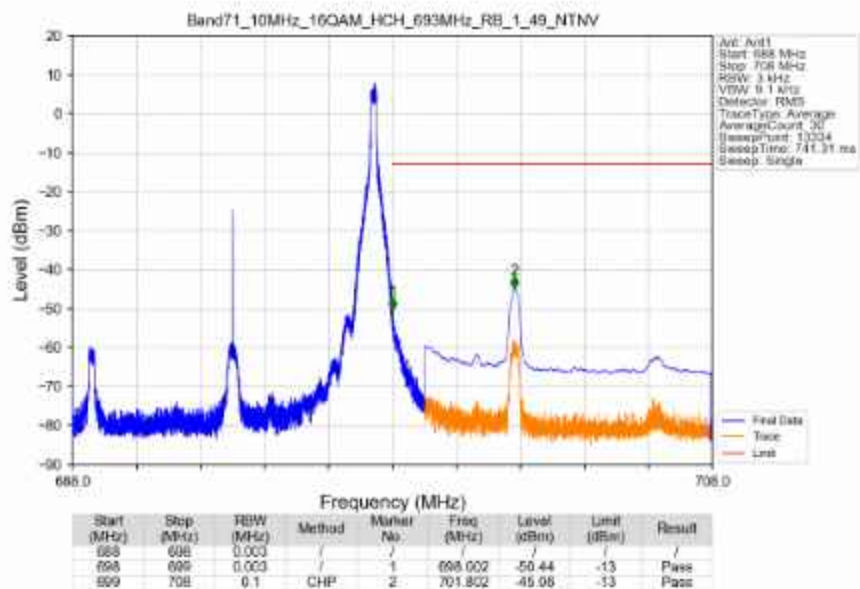
# Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



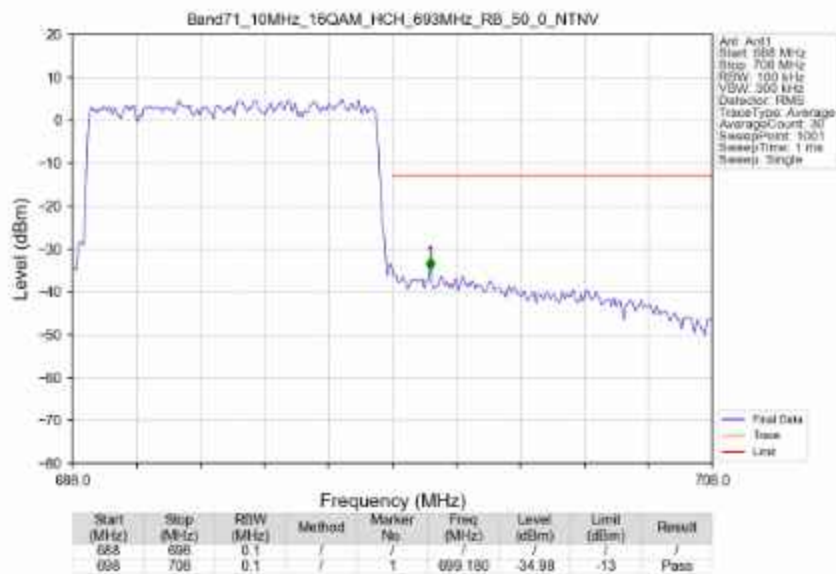
# Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_1\_0\_NTNV



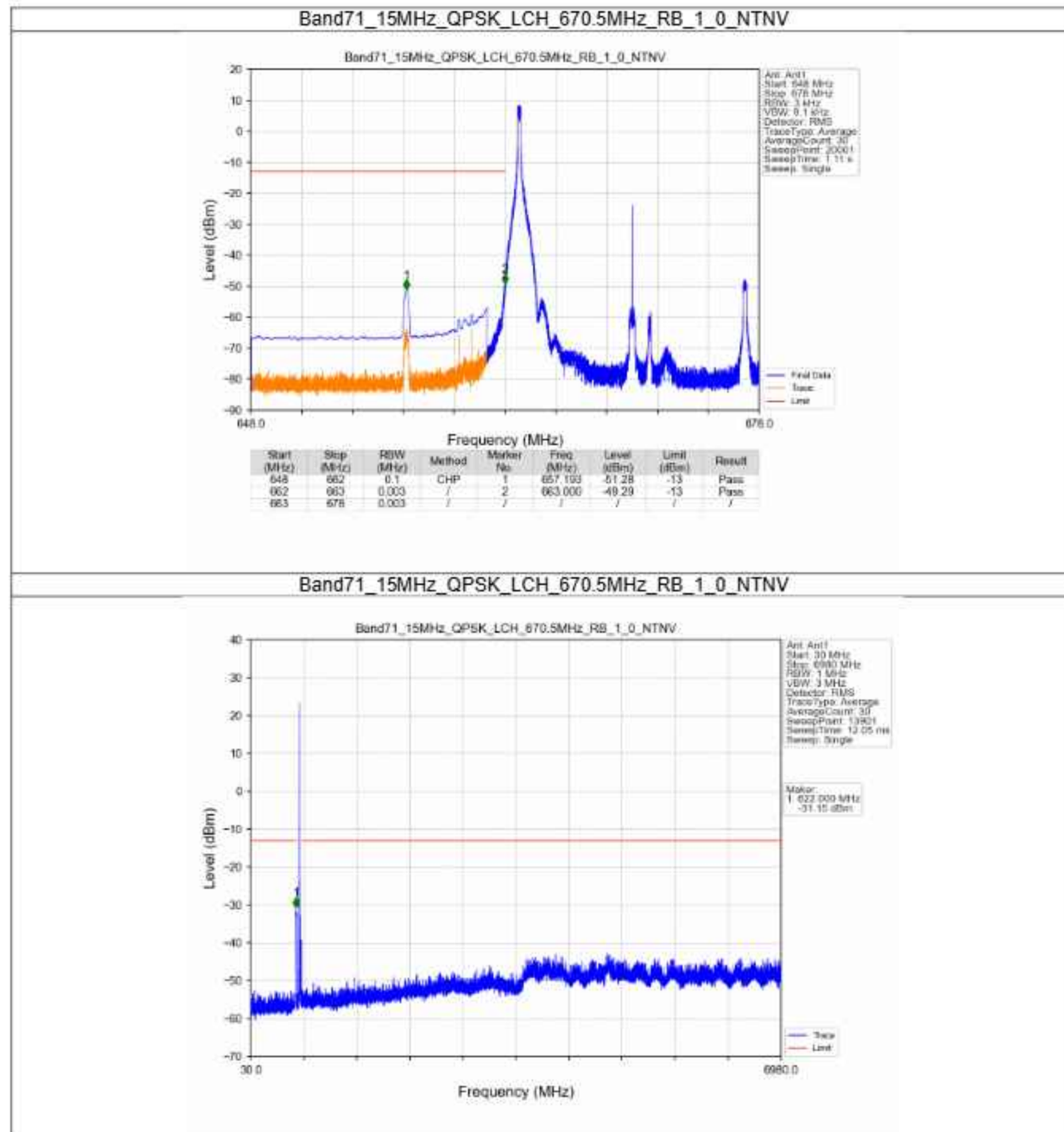
# Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_1\_49\_NTNV



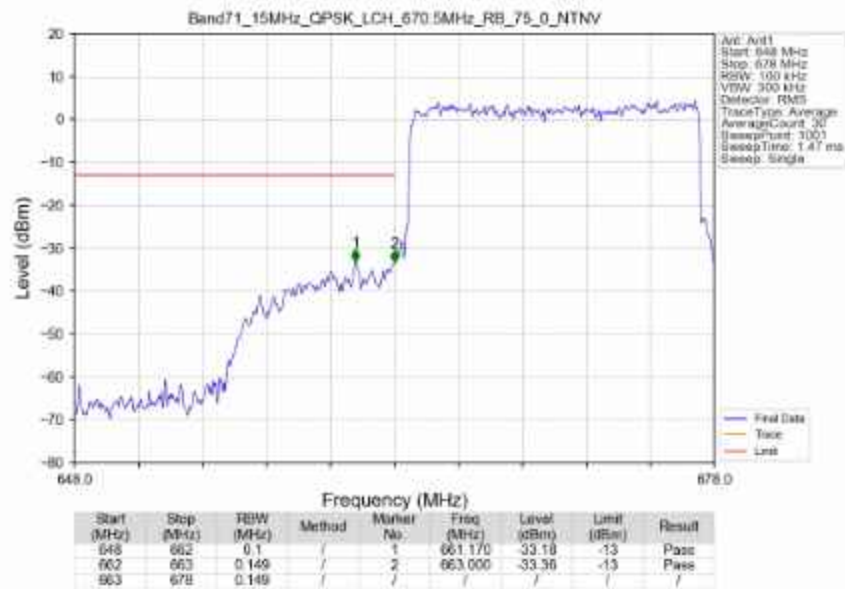
# Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV



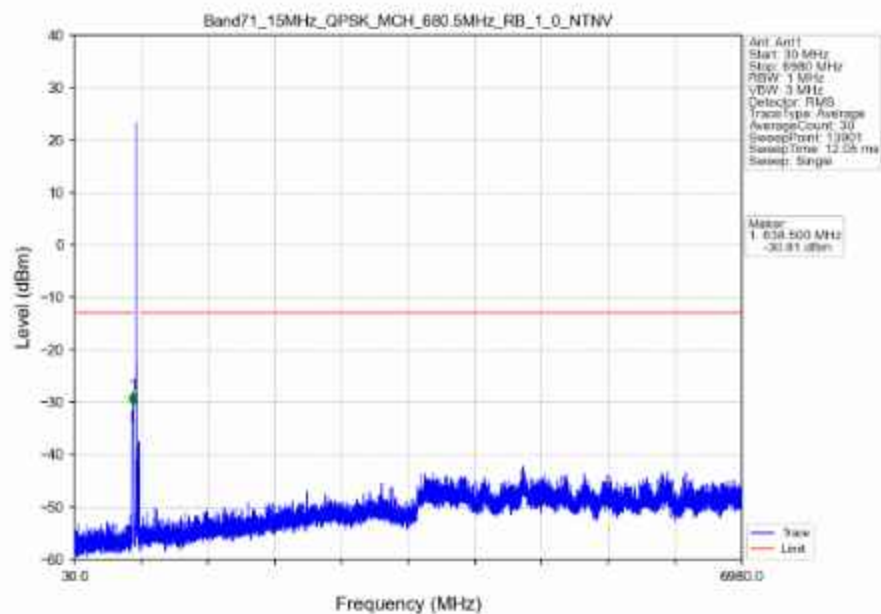
### 5.2.3 B71\_15MHz



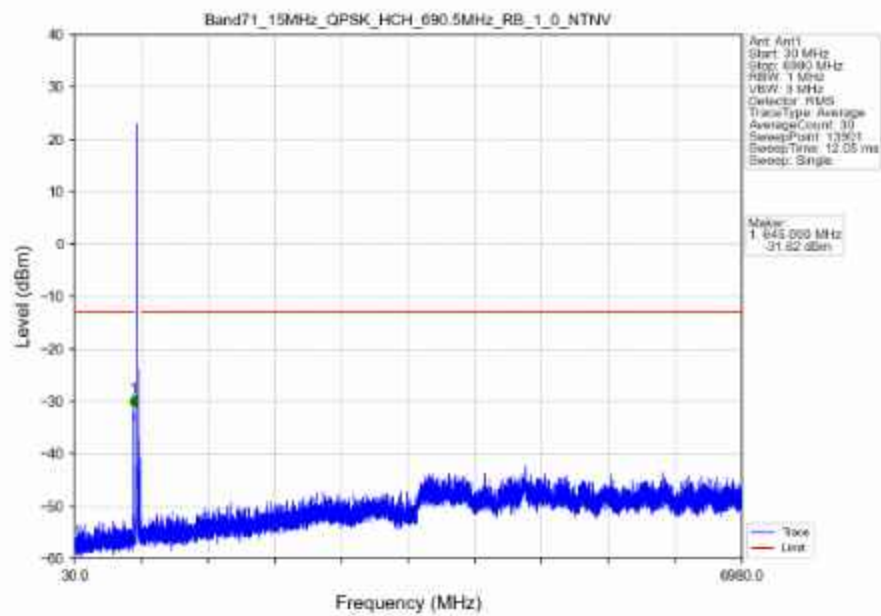
# Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



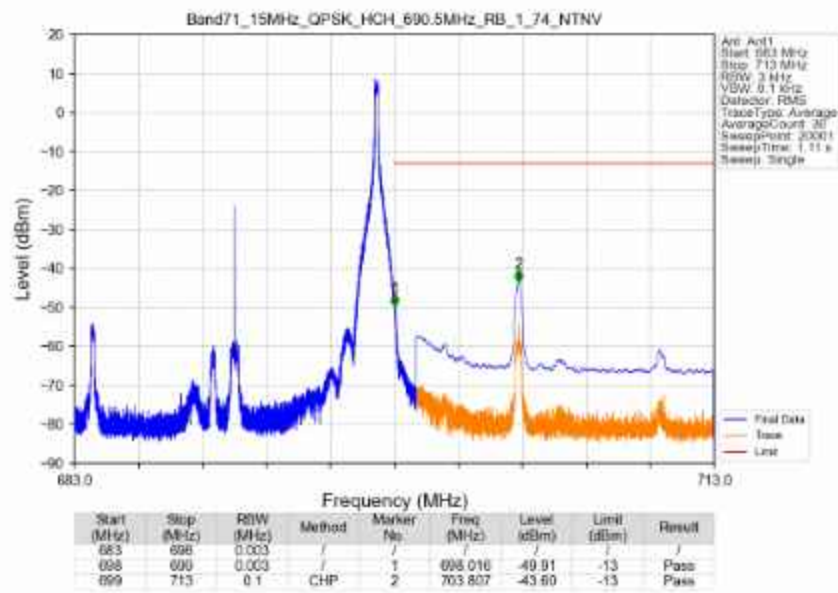
# Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



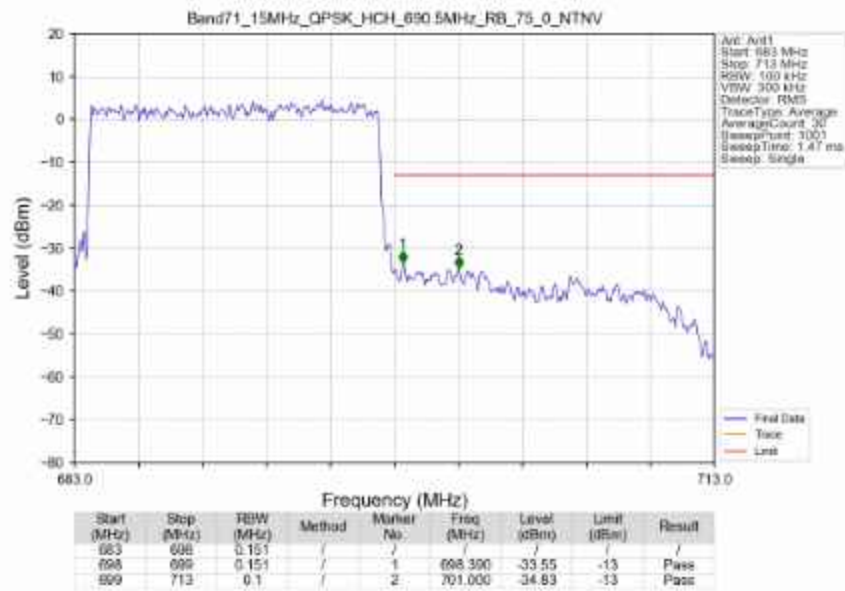
# Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_1\_0\_NTNV



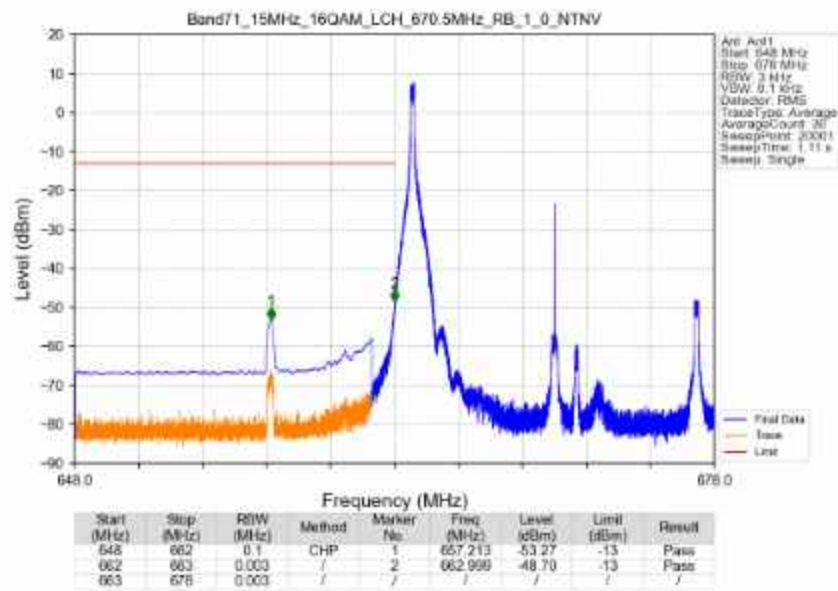
# Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_1\_74\_NTNV



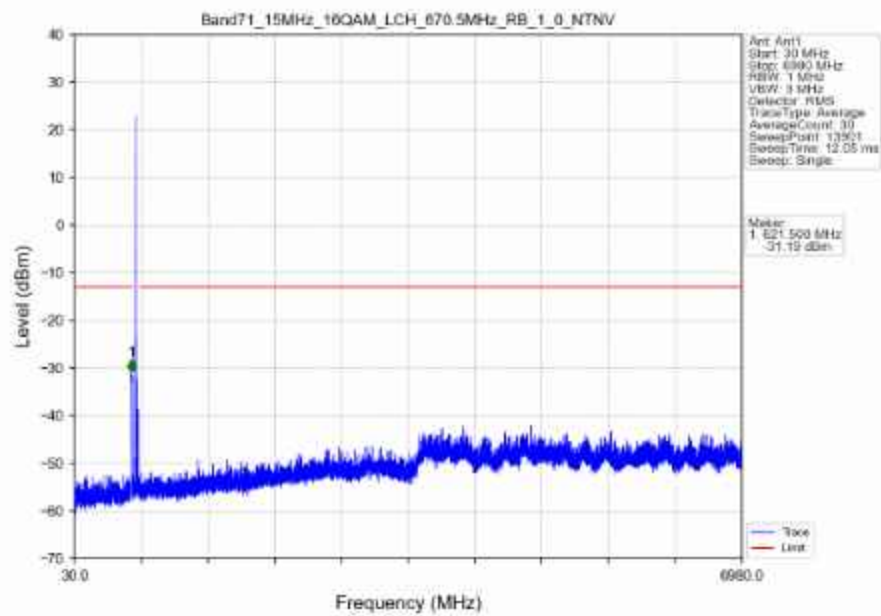
### Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



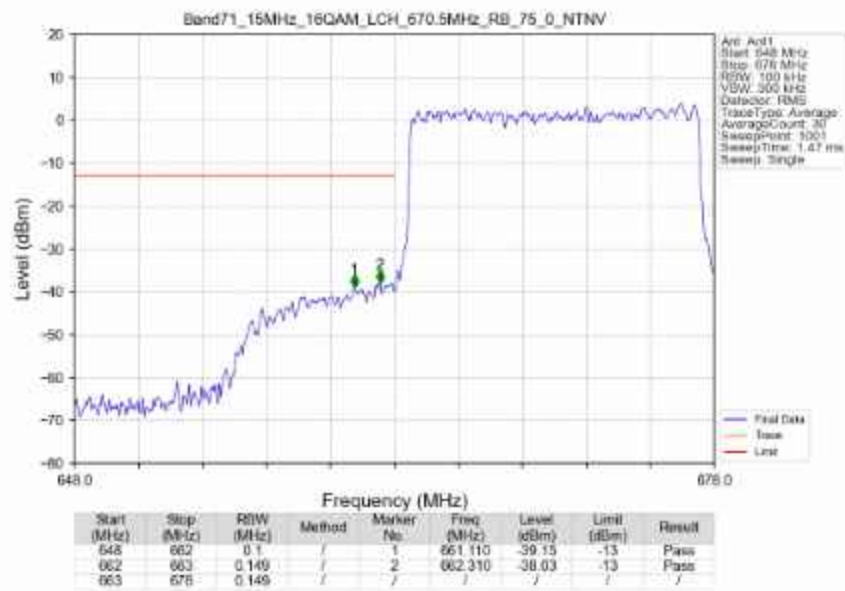
### Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_1\_0\_NTNV



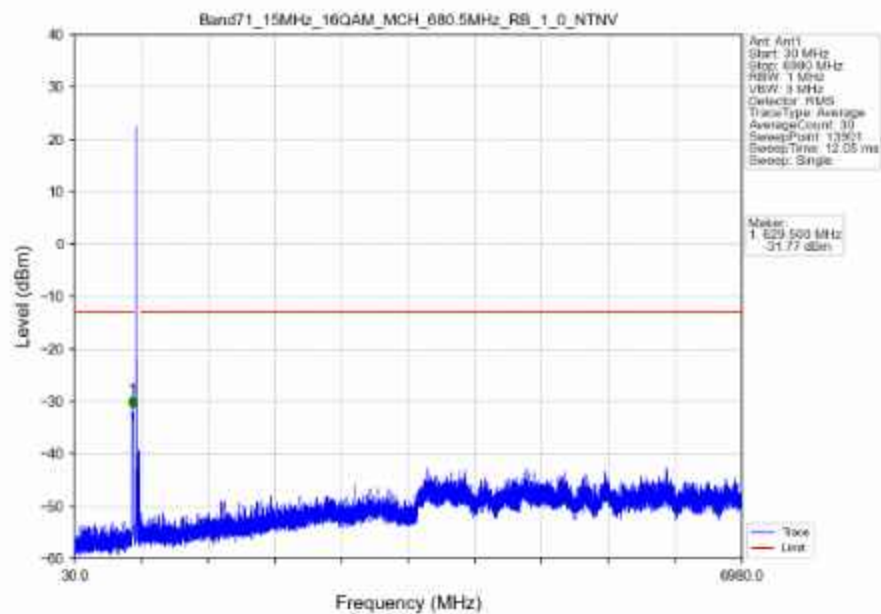
# Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_1\_0\_NTNV



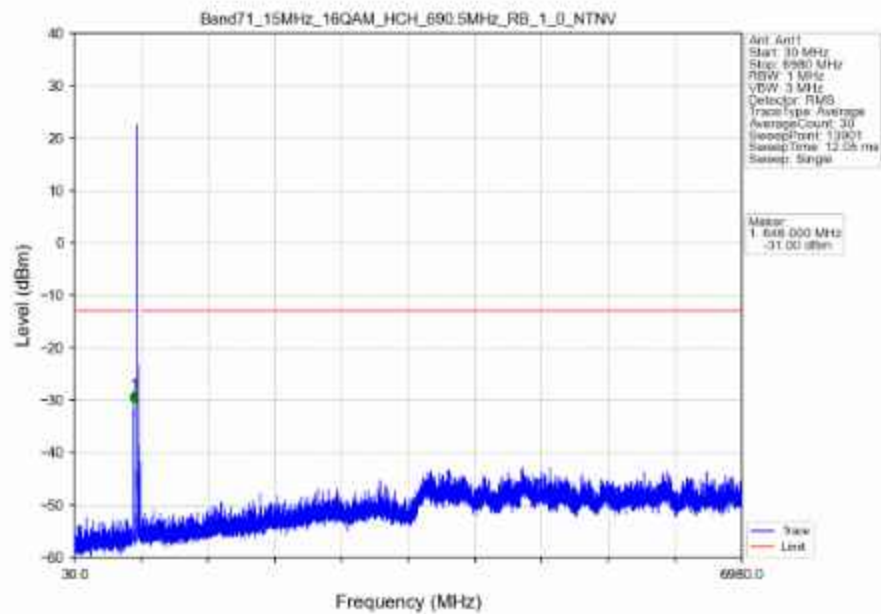
# Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



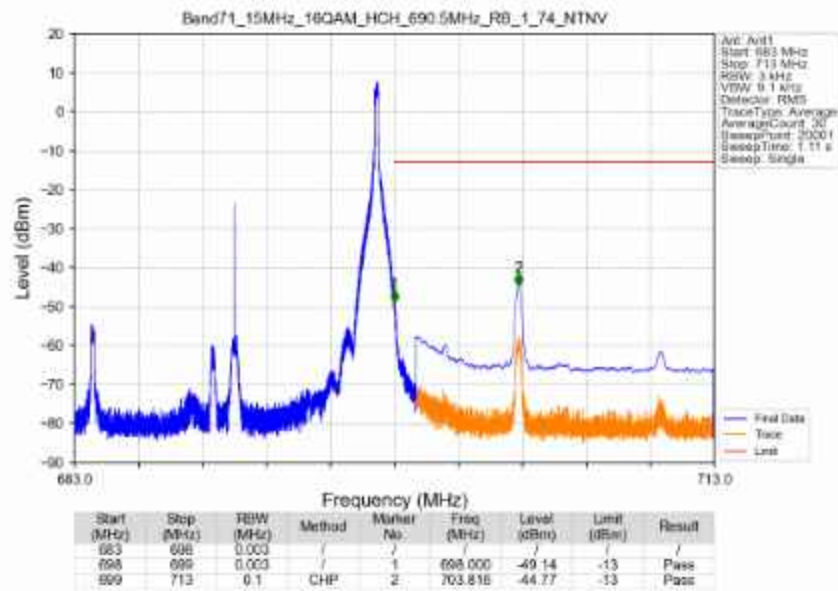
Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



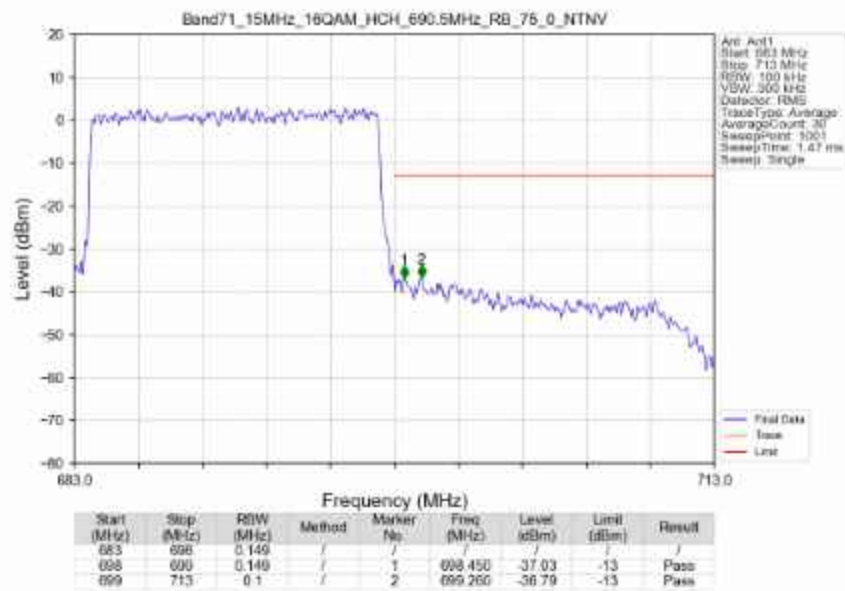
Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_1\_0\_NTNV



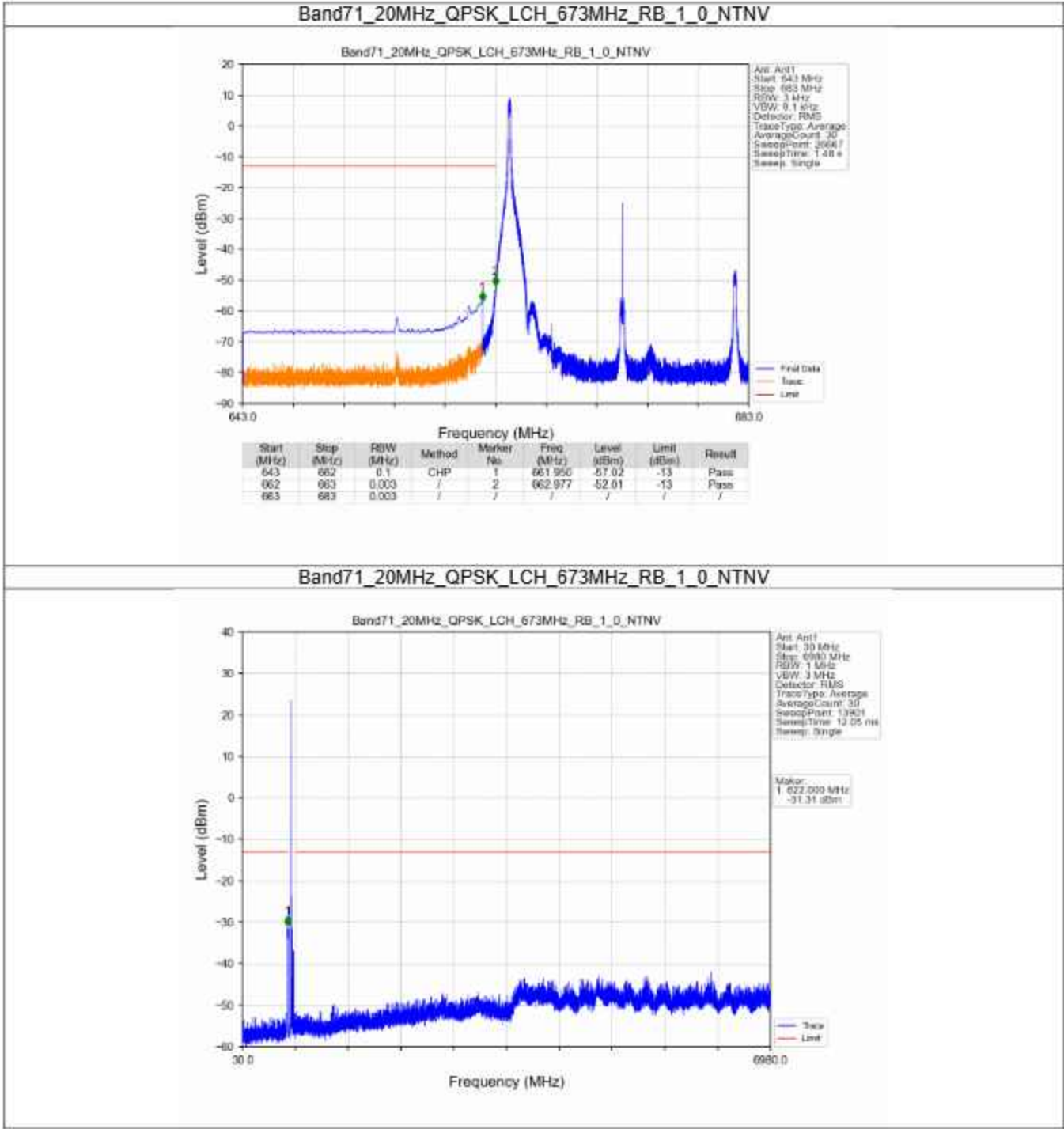
# Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_1\_74\_NTNV



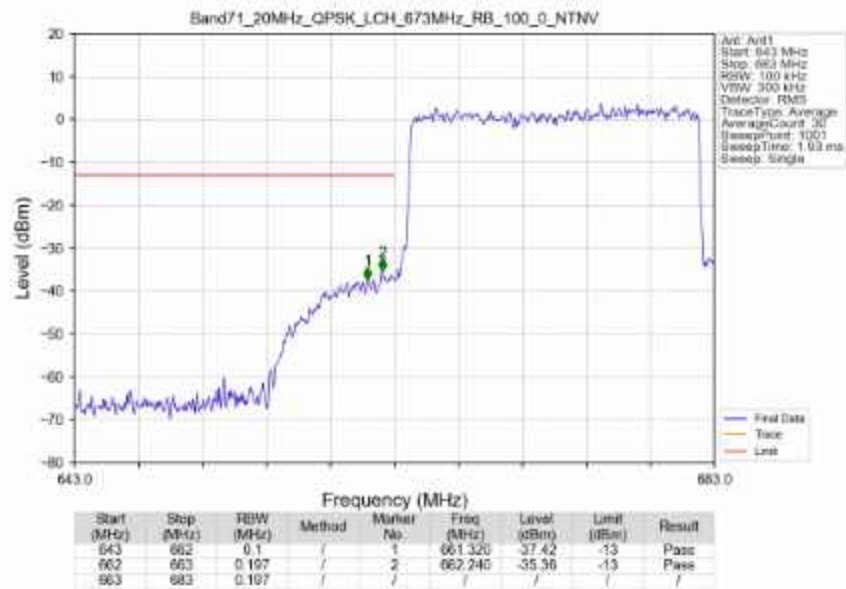
# Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



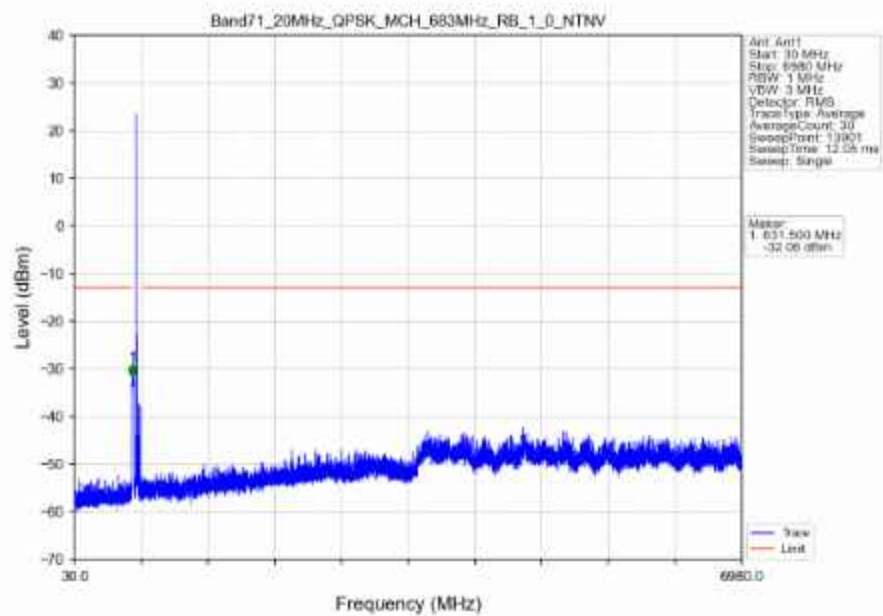
5.2.4 B71\_20MHz



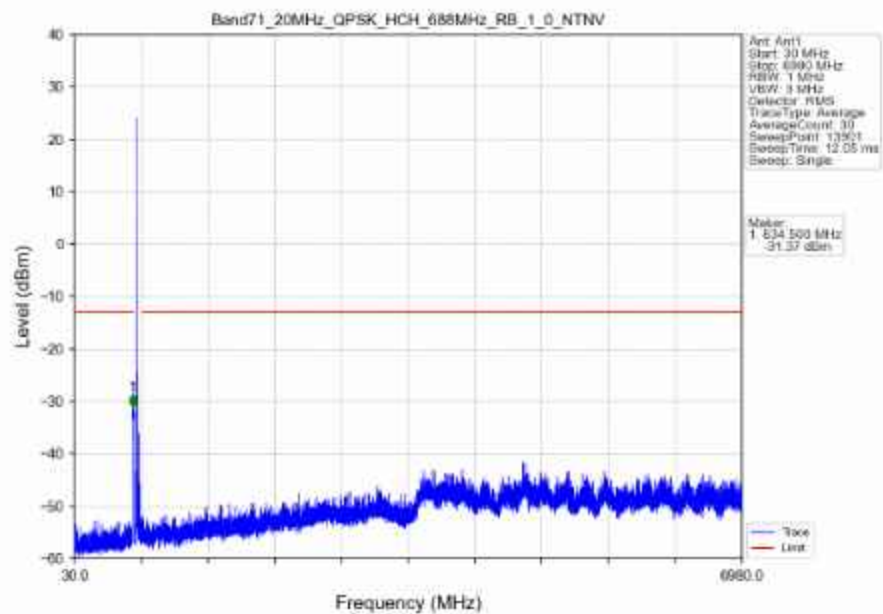
# Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



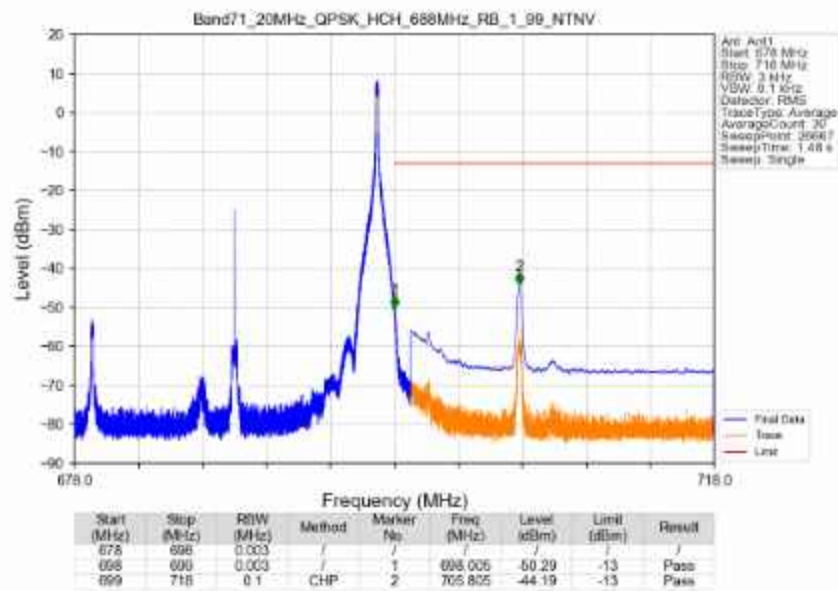
# Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_1\_0\_NTNV



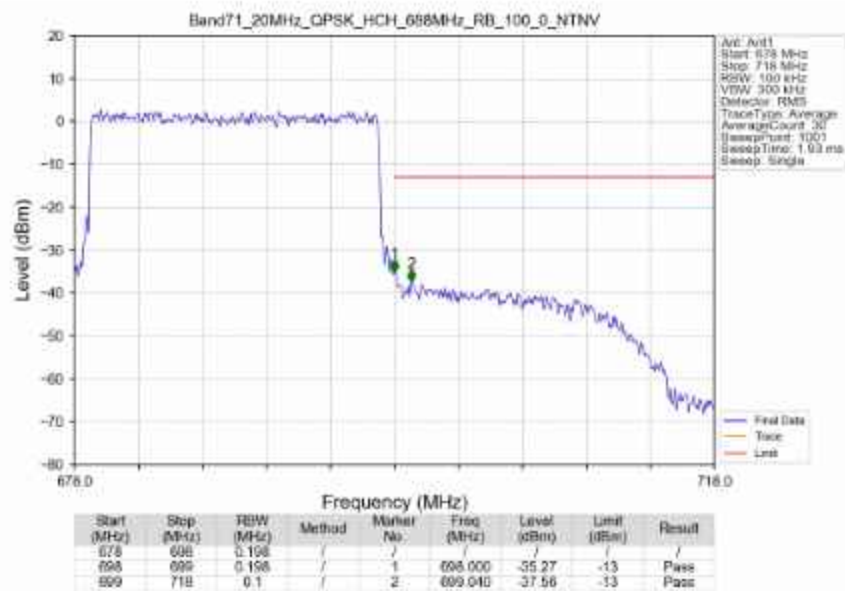
# Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_1\_0\_NTNV



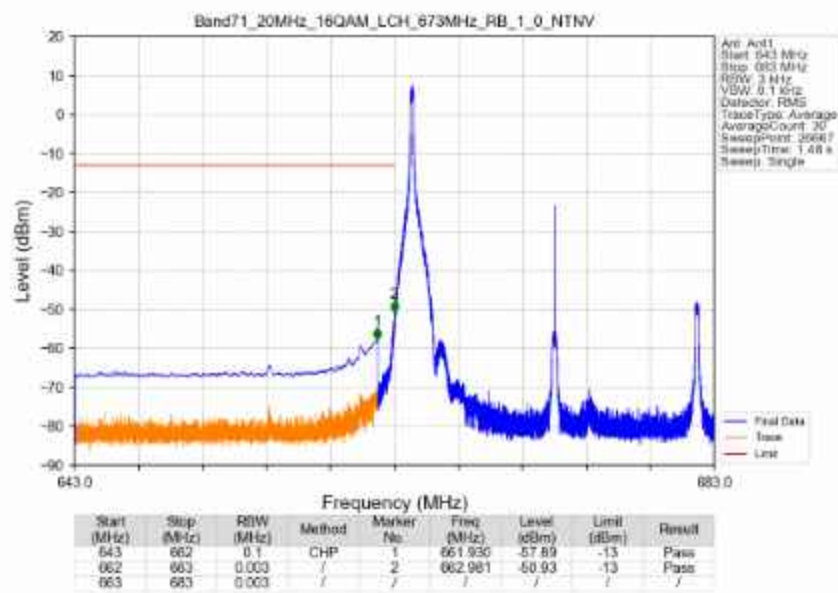
# Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_1\_99\_NTNV



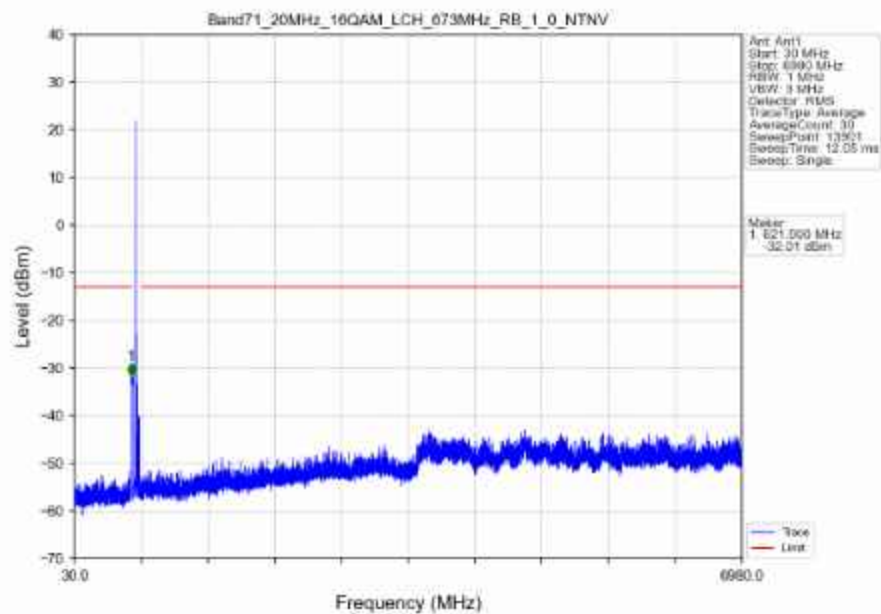
# Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



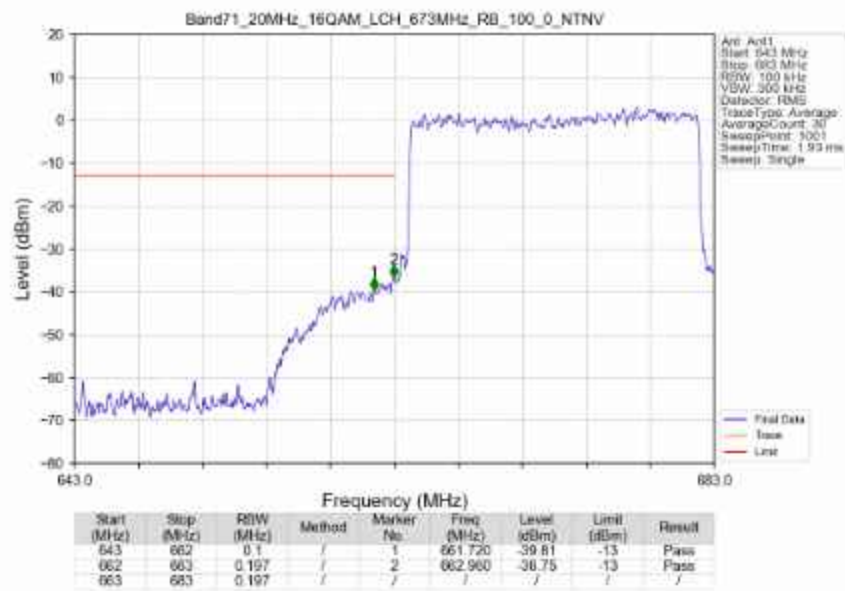
# Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_1\_0\_NTNV



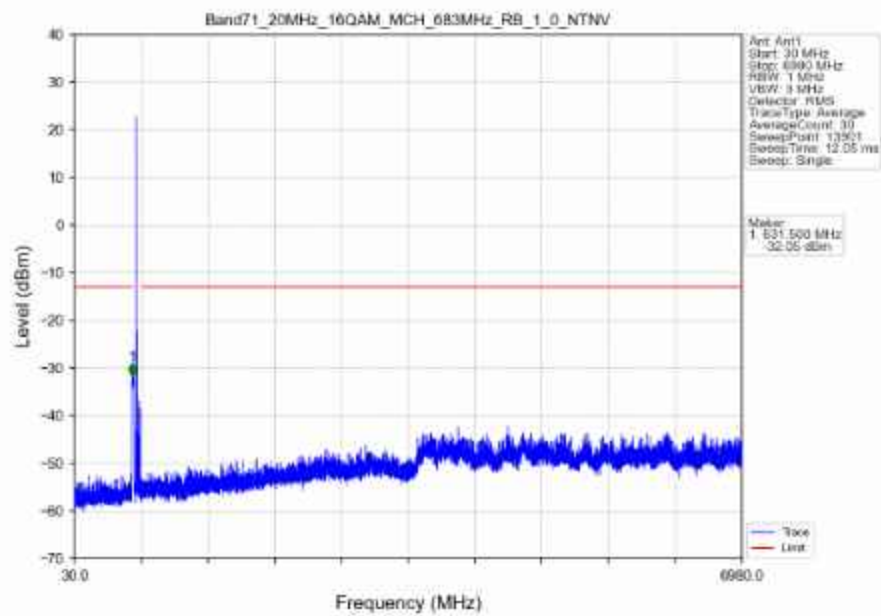
# Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_1\_0\_NTNV



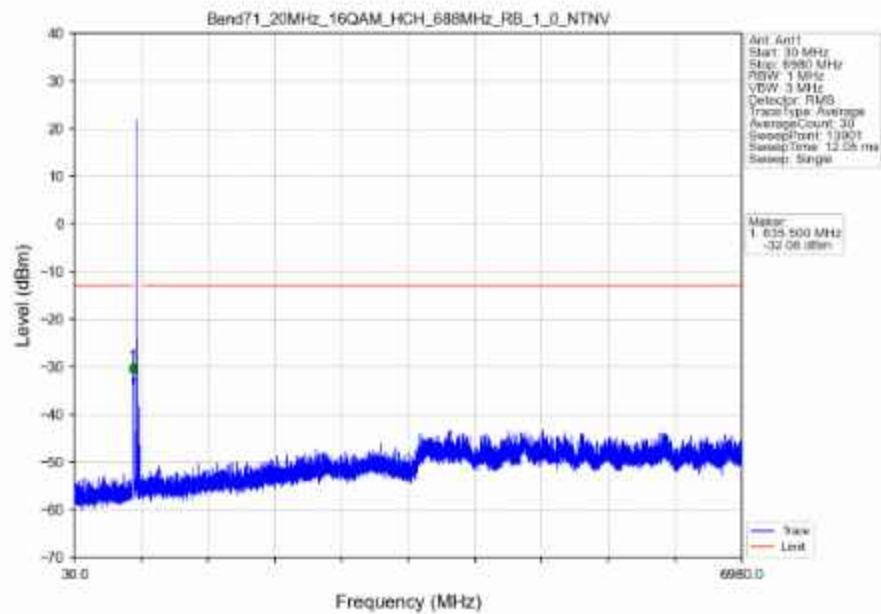
# Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



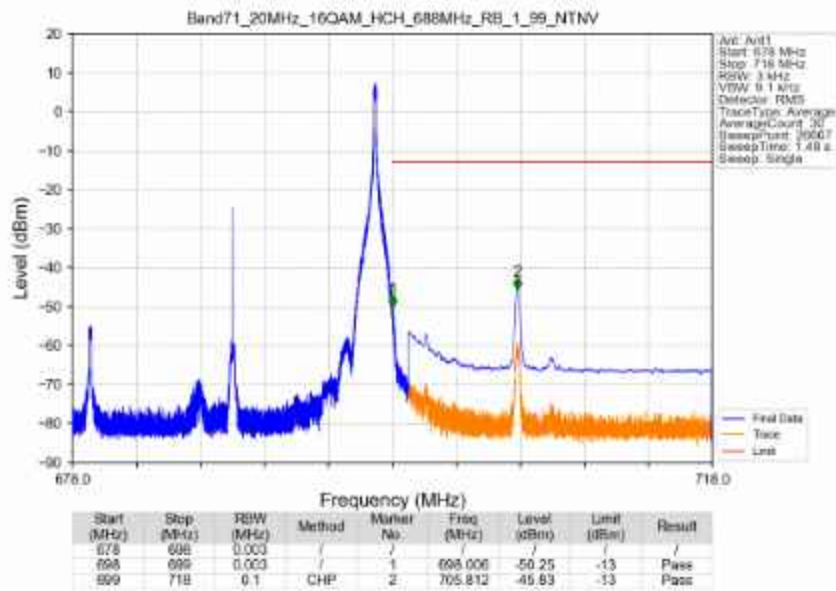
# Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_1\_0\_NTNV



# Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_1\_0\_NTNV



# Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_1\_99\_NTNV



# Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



## 6. Field Strength of Spurious Radiation

| LTE Band 71-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|-------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1328.0                                                            | -68.69     | -13         | -55.69          | -71.6            | 1.88            | 4.79               | Horizontal         | Pass   |
| 1992.0                                                            | -61.62     | -13         | -48.62          | -63.92           | 2.34            | 4.64               | Horizontal         | Pass   |
| 2656.0                                                            | -61.11     | -13         | -48.11          | -64.52           | 2.75            | 6.16               | Horizontal         | Pass   |
| 1328.0                                                            | -68.36     | -13         | -55.36          | -71.27           | 1.88            | 4.79               | Vertical           | Pass   |
| 1992.0                                                            | -61.37     | -13         | -48.37          | -63.67           | 2.34            | 4.64               | Vertical           | Pass   |
| 2656.0                                                            | -60.96     | -13         | -47.96          | -64.37           | 2.75            | 6.16               | Vertical           | Pass   |

| LTE Band 71-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|----------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                      | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1348.0                                                               | -70.73     | -13         | -57.73          | -73.76           | 1.89            | 4.92               | Horizontal         | Pass   |
| 2022.0                                                               | -61.62     | -13         | -48.62          | -63.93           | 2.36            | 4.67               | Horizontal         | Pass   |
| 2696.0                                                               | -61.15     | -13         | -48.15          | -64.62           | 2.78            | 6.25               | Horizontal         | Pass   |
| 1348.0                                                               | -70.59     | -13         | -57.59          | -73.62           | 1.89            | 4.92               | Vertical           | Pass   |
| 2022.0                                                               | -61.07     | -13         | -48.07          | -63.38           | 2.36            | 4.67               | Vertical           | Pass   |
| 2696.0                                                               | -60.7      | -13         | -47.7           | -64.17           | 2.78            | 6.25               | Vertical           | Pass   |

| LTE Band 71-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|--------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                    | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1358.0                                                             | -68.15     | -13         | -55.15          | -71.23           | 1.9             | 4.98               | Horizontal         | Pass   |
| 2037.0                                                             | -60.9      | -13         | -47.9           | -63.24           | 2.37            | 4.71               | Horizontal         | Pass   |
| 2716.0                                                             | -60.94     | -13         | -47.94          | -64.45           | 2.79            | 6.3                | Horizontal         | Pass   |
| 1358.0                                                             | -67.5      | -13         | -54.5           | -70.58           | 1.9             | 4.98               | Vertical           | Pass   |
| 2037.0                                                             | -60.42     | -13         | -47.42          | -62.76           | 2.37            | 4.71               | Vertical           | Pass   |
| 2716.0                                                             | -60.41     | -13         | -47.41          | -63.92           | 2.79            | 6.3                | Vertical           | Pass   |