

**Appendix A.5****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B12\_1.4MHz\_ERP**

| Band: 12 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                     |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                                | 699.7           | 1             | 0      | 24.29                 | 0.00       | 22.14     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.19                 | 0.00       | 22.04     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.10                 | 0.00       | 21.95     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.27                 | 0.00       | 22.12     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.32                 | 0.00       | 22.17     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.24                 | 0.00       | 22.09     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.24                 | 0.00       | 21.09     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 24.28                 | 0.00       | 22.13     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.27                 | 0.00       | 22.12     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.23                 | 0.00       | 22.08     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.23                 | 0.00       | 22.08     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.30                 | 0.00       | 22.15     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.25                 | 0.00       | 22.10     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.26                 | 0.00       | 21.11     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 24.23                 | 0.00       | 22.08     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.31                 | 0.00       | 22.16     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 24.09                 | 0.00       | 21.94     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 24.19                 | 0.00       | 22.04     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 24.27                 | 0.00       | 22.12     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 24.15                 | 0.00       | 22.00     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 23.33                 | 0.00       | 21.18     | <=34.77 | Pass    |
| 16QAM                               | 699.7           | 1             | 0      | 23.68                 | 0.00       | 21.53     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.66                 | 0.00       | 21.51     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.51                 | 0.00       | 21.36     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.33                 | 0.00       | 21.18     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.57                 | 0.00       | 21.42     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.58                 | 0.00       | 21.43     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.29                 | 0.00       | 20.14     | <=34.77 | Pass    |
|                                     | 707.5           | 1             | 0      | 23.75                 | 0.00       | 21.60     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.76                 | 0.00       | 21.61     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.51                 | 0.00       | 21.36     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.71                 | 0.00       | 21.56     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.33                 | 0.00       | 21.18     | <=34.77 | Pass    |
|                                     |                 |               | 3      | 23.39                 | 0.00       | 21.24     | <=34.77 | Pass    |
|                                     |                 | 6             | 0      | 22.29                 | 0.00       | 20.14     | <=34.77 | Pass    |
|                                     | 715.3           | 1             | 0      | 23.76                 | 0.00       | 21.61     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.58                 | 0.00       | 21.43     | <=34.77 | Pass    |
|                                     |                 |               | 5      | 23.52                 | 0.00       | 21.37     | <=34.77 | Pass    |
|                                     |                 | 3             | 0      | 23.25                 | 0.00       | 21.10     | <=34.77 | Pass    |
|                                     |                 |               | 2      | 23.59                 | 0.00       | 21.44     | <=34.77 | Pass    |

|        |       |   |   |       |      |       |         |      |
|--------|-------|---|---|-------|------|-------|---------|------|
| 64QAM  | 699.7 | 6 | 3 | 23.38 | 0.00 | 21.23 | <=34.77 | Pass |
|        |       |   | 0 | 22.33 | 0.00 | 20.18 | <=34.77 | Pass |
|        |       |   | 0 | 23.57 | 0.00 | 21.42 | <=34.77 | Pass |
|        | 707.5 | 1 | 2 | 23.57 | 0.00 | 21.42 | <=34.77 | Pass |
|        |       |   | 5 | 23.38 | 0.00 | 21.23 | <=34.77 | Pass |
|        |       |   | 0 | 23.44 | 0.00 | 21.29 | <=34.77 | Pass |
|        |       | 3 | 2 | 23.30 | 0.00 | 21.15 | <=34.77 | Pass |
|        |       |   | 3 | 23.44 | 0.00 | 21.29 | <=34.77 | Pass |
|        |       |   | 0 | 22.29 | 0.00 | 20.14 | <=34.77 | Pass |
|        | 715.3 | 1 | 0 | 23.44 | 0.00 | 21.29 | <=34.77 | Pass |
|        |       |   | 2 | 23.57 | 0.00 | 21.42 | <=34.77 | Pass |
|        |       |   | 5 | 23.25 | 0.00 | 21.10 | <=34.77 | Pass |
|        |       | 3 | 0 | 23.29 | 0.00 | 21.14 | <=34.77 | Pass |
|        |       |   | 2 | 23.33 | 0.00 | 21.18 | <=34.77 | Pass |
|        |       |   | 3 | 23.38 | 0.00 | 21.23 | <=34.77 | Pass |
|        |       | 6 | 0 | 22.28 | 0.00 | 20.13 | <=34.77 | Pass |
|        |       |   | 0 | 23.50 | 0.00 | 21.35 | <=34.77 | Pass |
|        |       |   | 2 | 23.39 | 0.00 | 21.24 | <=34.77 | Pass |
| 256QAM | 699.7 | 1 | 5 | 23.52 | 0.00 | 21.37 | <=34.77 | Pass |
|        |       |   | 0 | 23.52 | 0.00 | 21.37 | <=34.77 | Pass |
|        |       |   | 2 | 23.30 | 0.00 | 21.15 | <=34.77 | Pass |
|        |       | 3 | 3 | 23.46 | 0.00 | 21.31 | <=34.77 | Pass |
|        |       |   | 0 | 22.31 | 0.00 | 20.16 | <=34.77 | Pass |
|        |       | 6 | 0 | 19.34 | 0.00 | 17.19 | <=34.77 | Pass |
|        |       |   | 2 | 19.38 | 0.00 | 17.23 | <=34.77 | Pass |
|        |       |   | 5 | 19.64 | 0.00 | 17.49 | <=34.77 | Pass |
|        | 707.5 | 3 | 0 | 19.49 | 0.00 | 17.34 | <=34.77 | Pass |
|        |       |   | 2 | 19.29 | 0.00 | 17.14 | <=34.77 | Pass |
|        |       |   | 3 | 19.36 | 0.00 | 17.21 | <=34.77 | Pass |
|        |       | 6 | 0 | 19.30 | 0.00 | 17.15 | <=34.77 | Pass |
|        |       |   | 0 | 19.49 | 0.00 | 17.34 | <=34.77 | Pass |
|        |       |   | 2 | 19.50 | 0.00 | 17.35 | <=34.77 | Pass |
|        |       | 3 | 5 | 19.43 | 0.00 | 17.28 | <=34.77 | Pass |
|        |       |   | 0 | 19.42 | 0.00 | 17.27 | <=34.77 | Pass |
|        |       |   | 2 | 19.34 | 0.00 | 17.19 | <=34.77 | Pass |
| 256QAM | 715.3 | 3 | 3 | 19.46 | 0.00 | 17.31 | <=34.77 | Pass |
|        |       |   | 0 | 19.20 | 0.00 | 17.05 | <=34.77 | Pass |
|        |       |   | 0 | 19.38 | 0.00 | 17.23 | <=34.77 | Pass |
|        |       | 1 | 2 | 19.59 | 0.00 | 17.44 | <=34.77 | Pass |
|        |       |   | 5 | 19.42 | 0.00 | 17.27 | <=34.77 | Pass |
|        |       |   | 0 | 19.44 | 0.00 | 17.29 | <=34.77 | Pass |
|        |       | 3 | 2 | 19.50 | 0.00 | 17.35 | <=34.77 | Pass |
|        |       |   | 3 | 19.35 | 0.00 | 17.20 | <=34.77 | Pass |
|        |       |   | 0 | 19.35 | 0.00 | 17.20 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.1.2 B12\_3MHz\_ERP

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

|       |       |    |    |       |      |       |         |      |
|-------|-------|----|----|-------|------|-------|---------|------|
| QPSK  | 700.5 | 1  | 0  | 24.35 | 0.00 | 22.20 | <=34.77 | Pass |
|       |       |    | 7  | 24.29 | 0.00 | 22.14 | <=34.77 | Pass |
|       |       |    | 14 | 24.35 | 0.00 | 22.20 | <=34.77 | Pass |
|       |       | 8  | 0  | 23.50 | 0.00 | 21.35 | <=34.77 | Pass |
|       |       |    | 4  | 23.41 | 0.00 | 21.26 | <=34.77 | Pass |
|       |       |    | 7  | 23.27 | 0.00 | 21.12 | <=34.77 | Pass |
|       |       | 15 | 0  | 23.39 | 0.00 | 21.24 | <=34.77 | Pass |
|       | 707.5 | 1  | 0  | 24.35 | 0.00 | 22.20 | <=34.77 | Pass |
|       |       |    | 7  | 24.18 | 0.00 | 22.03 | <=34.77 | Pass |
|       |       |    | 14 | 24.27 | 0.00 | 22.12 | <=34.77 | Pass |
|       |       | 8  | 0  | 23.44 | 0.00 | 21.29 | <=34.77 | Pass |
|       |       |    | 4  | 23.35 | 0.00 | 21.20 | <=34.77 | Pass |
|       |       |    | 7  | 23.48 | 0.00 | 21.33 | <=34.77 | Pass |
|       |       | 15 | 0  | 23.33 | 0.00 | 21.18 | <=34.77 | Pass |
|       | 714.5 | 1  | 0  | 24.26 | 0.00 | 22.11 | <=34.77 | Pass |
|       |       |    | 7  | 24.43 | 0.00 | 22.28 | <=34.77 | Pass |
|       |       |    | 14 | 24.30 | 0.00 | 22.15 | <=34.77 | Pass |
|       |       | 8  | 0  | 23.27 | 0.00 | 21.12 | <=34.77 | Pass |
|       |       |    | 4  | 23.40 | 0.00 | 21.25 | <=34.77 | Pass |
|       |       |    | 7  | 23.36 | 0.00 | 21.21 | <=34.77 | Pass |
|       |       | 15 | 0  | 23.29 | 0.00 | 21.14 | <=34.77 | Pass |
| 16QAM | 700.5 | 1  | 0  | 23.61 | 0.00 | 21.46 | <=34.77 | Pass |
|       |       |    | 7  | 23.56 | 0.00 | 21.41 | <=34.77 | Pass |
|       |       |    | 14 | 23.68 | 0.00 | 21.53 | <=34.77 | Pass |
|       |       | 8  | 0  | 22.63 | 0.00 | 20.48 | <=34.77 | Pass |
|       |       |    | 4  | 22.53 | 0.00 | 20.38 | <=34.77 | Pass |
|       |       |    | 7  | 22.40 | 0.00 | 20.25 | <=34.77 | Pass |
|       |       | 15 | 0  | 22.42 | 0.00 | 20.27 | <=34.77 | Pass |
|       | 707.5 | 1  | 0  | 23.58 | 0.00 | 21.43 | <=34.77 | Pass |
|       |       |    | 7  | 23.37 | 0.00 | 21.22 | <=34.77 | Pass |
|       |       |    | 14 | 23.69 | 0.00 | 21.54 | <=34.77 | Pass |
|       |       | 8  | 0  | 22.32 | 0.00 | 20.17 | <=34.77 | Pass |
|       |       |    | 4  | 22.32 | 0.00 | 20.17 | <=34.77 | Pass |
|       |       |    | 7  | 22.45 | 0.00 | 20.30 | <=34.77 | Pass |
|       |       | 15 | 0  | 22.39 | 0.00 | 20.24 | <=34.77 | Pass |
|       | 714.5 | 1  | 0  | 23.52 | 0.00 | 21.37 | <=34.77 | Pass |
|       |       |    | 7  | 23.52 | 0.00 | 21.37 | <=34.77 | Pass |
|       |       |    | 14 | 23.63 | 0.00 | 21.48 | <=34.77 | Pass |
|       |       | 8  | 0  | 22.44 | 0.00 | 20.29 | <=34.77 | Pass |
|       |       |    | 4  | 22.40 | 0.00 | 20.25 | <=34.77 | Pass |
|       |       |    | 7  | 22.35 | 0.00 | 20.20 | <=34.77 | Pass |
|       |       | 15 | 0  | 22.31 | 0.00 | 20.16 | <=34.77 | Pass |
| 64QAM | 700.5 | 1  | 0  | 23.49 | 0.00 | 21.34 | <=34.77 | Pass |
|       |       |    | 7  | 23.64 | 0.00 | 21.49 | <=34.77 | Pass |
|       |       |    | 14 | 23.56 | 0.00 | 21.41 | <=34.77 | Pass |
|       |       | 8  | 0  | 22.40 | 0.00 | 20.25 | <=34.77 | Pass |
|       |       |    | 4  | 22.54 | 0.00 | 20.39 | <=34.77 | Pass |
|       |       |    | 7  | 22.54 | 0.00 | 20.39 | <=34.77 | Pass |
|       |       | 15 | 0  | 22.44 | 0.00 | 20.29 | <=34.77 | Pass |
|       | 707.5 | 1  | 0  | 23.56 | 0.00 | 21.41 | <=34.77 | Pass |
|       |       |    | 7  | 23.63 | 0.00 | 21.48 | <=34.77 | Pass |
|       |       |    | 14 | 23.56 | 0.00 | 21.41 | <=34.77 | Pass |
|       |       | 8  | 0  | 22.47 | 0.00 | 20.32 | <=34.77 | Pass |

|        |       |    |    |       |      |       |         |      |
|--------|-------|----|----|-------|------|-------|---------|------|
|        | 714.5 | 15 | 4  | 22.26 | 0.00 | 20.11 | <=34.77 | Pass |
|        |       |    | 7  | 22.38 | 0.00 | 20.23 | <=34.77 | Pass |
|        |       |    | 0  | 22.27 | 0.00 | 20.12 | <=34.77 | Pass |
|        |       | 1  | 0  | 23.54 | 0.00 | 21.39 | <=34.77 | Pass |
|        |       |    | 7  | 23.45 | 0.00 | 21.30 | <=34.77 | Pass |
|        |       |    | 14 | 23.54 | 0.00 | 21.39 | <=34.77 | Pass |
|        |       | 8  | 0  | 22.37 | 0.00 | 20.22 | <=34.77 | Pass |
|        |       |    | 4  | 22.42 | 0.00 | 20.27 | <=34.77 | Pass |
|        |       |    | 7  | 22.35 | 0.00 | 20.20 | <=34.77 | Pass |
|        |       | 15 | 0  | 22.33 | 0.00 | 20.18 | <=34.77 | Pass |
| 256QAM | 700.5 | 1  | 0  | 19.36 | 0.00 | 17.21 | <=34.77 | Pass |
|        |       |    | 7  | 19.48 | 0.00 | 17.33 | <=34.77 | Pass |
|        |       |    | 14 | 19.36 | 0.00 | 17.21 | <=34.77 | Pass |
|        |       | 8  | 0  | 19.57 | 0.00 | 17.42 | <=34.77 | Pass |
|        |       |    | 4  | 19.41 | 0.00 | 17.26 | <=34.77 | Pass |
|        |       |    | 7  | 19.47 | 0.00 | 17.32 | <=34.77 | Pass |
|        |       | 15 | 0  | 19.45 | 0.00 | 17.30 | <=34.77 | Pass |
|        | 707.5 | 1  | 0  | 19.28 | 0.00 | 17.13 | <=34.77 | Pass |
|        |       |    | 7  | 19.64 | 0.00 | 17.49 | <=34.77 | Pass |
|        |       |    | 14 | 19.58 | 0.00 | 17.43 | <=34.77 | Pass |
|        |       | 8  | 0  | 19.30 | 0.00 | 17.15 | <=34.77 | Pass |
|        |       |    | 4  | 19.41 | 0.00 | 17.26 | <=34.77 | Pass |
|        |       |    | 7  | 19.48 | 0.00 | 17.33 | <=34.77 | Pass |
|        |       | 15 | 0  | 19.29 | 0.00 | 17.14 | <=34.77 | Pass |
|        | 714.5 | 1  | 0  | 19.12 | 0.00 | 16.97 | <=34.77 | Pass |
|        |       |    | 7  | 19.42 | 0.00 | 17.27 | <=34.77 | Pass |
|        |       |    | 14 | 19.26 | 0.00 | 17.11 | <=34.77 | Pass |
|        |       | 8  | 0  | 19.37 | 0.00 | 17.22 | <=34.77 | Pass |
|        |       |    | 4  | 19.50 | 0.00 | 17.35 | <=34.77 | Pass |
|        |       |    | 7  | 19.55 | 0.00 | 17.40 | <=34.77 | Pass |
|        |       | 15 | 0  | 19.29 | 0.00 | 17.14 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B12\_5MHz\_ERP

| Band: 12 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 701.5           | 1             | 0      | 24.38                 | 0.00       | 22.23     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.38                 | 0.00       | 22.23     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.26                 | 0.00       | 22.11     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.45                 | 0.00       | 21.30     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.39                 | 0.00       | 21.24     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.46                 | 0.00       | 21.31     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.55                 | 0.00       | 21.40     | <=34.77 | Pass    |
|                                   | 707.5           | 1             | 0      | 24.29                 | 0.00       | 22.14     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 24.17                 | 0.00       | 22.02     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.20                 | 0.00       | 22.05     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 23.38                 | 0.00       | 21.23     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 23.45                 | 0.00       | 21.30     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 23.34                 | 0.00       | 21.19     | <=34.77 | Pass    |

|        |       |    |    |       |      |       |         |      |
|--------|-------|----|----|-------|------|-------|---------|------|
| 16QAM  | 713.5 | 25 | 0  | 23.19 | 0.00 | 21.04 | <=34.77 | Pass |
|        |       | 1  | 0  | 24.33 | 0.00 | 22.18 | <=34.77 | Pass |
|        |       |    | 13 | 24.34 | 0.00 | 22.19 | <=34.77 | Pass |
|        |       |    | 24 | 24.26 | 0.00 | 22.11 | <=34.77 | Pass |
|        |       | 12 | 0  | 23.32 | 0.00 | 21.17 | <=34.77 | Pass |
|        |       |    | 6  | 23.34 | 0.00 | 21.19 | <=34.77 | Pass |
|        |       |    | 13 | 23.30 | 0.00 | 21.15 | <=34.77 | Pass |
|        |       | 25 | 0  | 23.37 | 0.00 | 21.22 | <=34.77 | Pass |
|        | 701.5 | 1  | 0  | 23.85 | 0.00 | 21.70 | <=34.77 | Pass |
|        |       |    | 13 | 23.61 | 0.00 | 21.46 | <=34.77 | Pass |
|        |       |    | 24 | 23.60 | 0.00 | 21.45 | <=34.77 | Pass |
|        |       | 12 | 0  | 22.38 | 0.00 | 20.23 | <=34.77 | Pass |
|        |       |    | 6  | 22.49 | 0.00 | 20.34 | <=34.77 | Pass |
|        |       |    | 13 | 22.34 | 0.00 | 20.19 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.59 | 0.00 | 20.44 | <=34.77 | Pass |
|        | 707.5 | 1  | 0  | 23.61 | 0.00 | 21.46 | <=34.77 | Pass |
|        |       |    | 13 | 23.65 | 0.00 | 21.50 | <=34.77 | Pass |
|        |       |    | 24 | 23.80 | 0.00 | 21.65 | <=34.77 | Pass |
|        |       | 12 | 0  | 22.31 | 0.00 | 20.16 | <=34.77 | Pass |
|        |       |    | 6  | 22.50 | 0.00 | 20.35 | <=34.77 | Pass |
|        |       |    | 13 | 22.40 | 0.00 | 20.25 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.47 | 0.00 | 20.32 | <=34.77 | Pass |
|        | 713.5 | 1  | 0  | 23.71 | 0.00 | 21.56 | <=34.77 | Pass |
|        |       |    | 13 | 23.81 | 0.00 | 21.66 | <=34.77 | Pass |
|        |       |    | 24 | 23.56 | 0.00 | 21.41 | <=34.77 | Pass |
|        |       | 12 | 0  | 22.14 | 0.00 | 19.99 | <=34.77 | Pass |
|        |       |    | 6  | 22.39 | 0.00 | 20.24 | <=34.77 | Pass |
|        |       |    | 13 | 22.49 | 0.00 | 20.34 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.35 | 0.00 | 20.20 | <=34.77 | Pass |
| 64QAM  | 701.5 | 1  | 0  | 23.34 | 0.00 | 21.19 | <=34.77 | Pass |
|        |       |    | 13 | 23.50 | 0.00 | 21.35 | <=34.77 | Pass |
|        |       |    | 24 | 23.40 | 0.00 | 21.25 | <=34.77 | Pass |
|        |       | 12 | 0  | 22.55 | 0.00 | 20.40 | <=34.77 | Pass |
|        |       |    | 6  | 22.48 | 0.00 | 20.33 | <=34.77 | Pass |
|        |       |    | 13 | 22.28 | 0.00 | 20.13 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.34 | 0.00 | 20.19 | <=34.77 | Pass |
|        | 707.5 | 1  | 0  | 23.64 | 0.00 | 21.49 | <=34.77 | Pass |
|        |       |    | 13 | 23.83 | 0.00 | 21.68 | <=34.77 | Pass |
|        |       |    | 24 | 23.88 | 0.00 | 21.73 | <=34.77 | Pass |
|        |       | 12 | 0  | 22.45 | 0.00 | 20.30 | <=34.77 | Pass |
|        |       |    | 6  | 22.40 | 0.00 | 20.25 | <=34.77 | Pass |
|        |       |    | 13 | 22.46 | 0.00 | 20.31 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.23 | 0.00 | 20.08 | <=34.77 | Pass |
|        | 713.5 | 1  | 0  | 23.91 | 0.00 | 21.76 | <=34.77 | Pass |
|        |       |    | 13 | 23.77 | 0.00 | 21.62 | <=34.77 | Pass |
|        |       |    | 24 | 23.36 | 0.00 | 21.21 | <=34.77 | Pass |
|        |       | 12 | 0  | 22.34 | 0.00 | 20.19 | <=34.77 | Pass |
|        |       |    | 6  | 22.36 | 0.00 | 20.21 | <=34.77 | Pass |
|        |       |    | 13 | 22.46 | 0.00 | 20.31 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.31 | 0.00 | 20.16 | <=34.77 | Pass |
| 256QAM | 701.5 | 1  | 0  | 19.66 | 0.00 | 17.51 | <=34.77 | Pass |
|        |       |    | 13 | 19.49 | 0.00 | 17.34 | <=34.77 | Pass |
|        |       |    | 24 | 19.40 | 0.00 | 17.25 | <=34.77 | Pass |
|        |       |    |    |       |      |       |         |      |



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|  |       |    |    |       |      |       |         |      |
|--|-------|----|----|-------|------|-------|---------|------|
|  | 707.5 | 12 | 0  | 19.43 | 0.00 | 17.28 | <=34.77 | Pass |
|  |       |    | 6  | 19.42 | 0.00 | 17.27 | <=34.77 | Pass |
|  |       |    | 13 | 19.29 | 0.00 | 17.14 | <=34.77 | Pass |
|  |       | 25 | 0  | 19.32 | 0.00 | 17.17 | <=34.77 | Pass |
|  |       |    | 0  | 19.46 | 0.00 | 17.31 | <=34.77 | Pass |
|  |       |    | 13 | 19.63 | 0.00 | 17.48 | <=34.77 | Pass |
|  |       | 1  | 24 | 19.79 | 0.00 | 17.64 | <=34.77 | Pass |
|  |       |    | 0  | 19.55 | 0.00 | 17.40 | <=34.77 | Pass |
|  |       |    | 6  | 19.43 | 0.00 | 17.28 | <=34.77 | Pass |
|  | 713.5 | 12 | 13 | 19.40 | 0.00 | 17.25 | <=34.77 | Pass |
|  |       |    | 0  | 19.48 | 0.00 | 17.33 | <=34.77 | Pass |
|  |       |    | 0  | 19.18 | 0.00 | 17.03 | <=34.77 | Pass |
|  |       | 1  | 13 | 19.80 | 0.00 | 17.65 | <=34.77 | Pass |
|  |       |    | 24 | 19.32 | 0.00 | 17.17 | <=34.77 | Pass |
|  |       |    | 0  | 19.31 | 0.00 | 17.16 | <=34.77 | Pass |
|  |       | 12 | 6  | 19.33 | 0.00 | 17.18 | <=34.77 | Pass |
|  |       |    | 13 | 19.40 | 0.00 | 17.25 | <=34.77 | Pass |
|  |       |    | 0  | 19.41 | 0.00 | 17.26 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

#### 1.1.4 B12\_10MHz\_ERP

| Band: 12 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 704             | 1             | 0      | 24.40                 | 0.00       | 22.25     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.29                 | 0.00       | 22.14     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.35                 | 0.00       | 22.20     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.44                 | 0.00       | 21.29     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.43                 | 0.00       | 21.28     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.40                 | 0.00       | 21.25     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.47                 | 0.00       | 21.32     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 24.32                 | 0.00       | 22.17     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.34                 | 0.00       | 22.19     | <=34.77 | Pass    |
|                                    | 707.5           | 1             | 49     | 24.11                 | 0.00       | 21.96     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 23.45                 | 0.00       | 21.30     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.37                 | 0.00       | 21.22     | <=34.77 | Pass    |
|                                    |                 | 25            | 25     | 23.37                 | 0.00       | 21.22     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 23.42                 | 0.00       | 21.27     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.42                 | 0.00       | 21.27     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 24.35                 | 0.00       | 22.20     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 24.34                 | 0.00       | 22.19     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.27                 | 0.00       | 22.12     | <=34.77 | Pass    |
|                                    | 711             | 1             | 0      | 23.42                 | 0.00       | 21.27     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 23.46                 | 0.00       | 21.31     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.37                 | 0.00       | 21.22     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 23.49                 | 0.00       | 21.34     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 23.82                 | 0.00       | 21.67     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 23.74                 | 0.00       | 21.59     | <=34.77 | Pass    |
|                                    |                 | 49            | 0      | 23.61                 | 0.00       | 21.46     | <=34.77 | Pass    |
|                                    |                 |               | 0      | 22.59                 | 0.00       | 20.44     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 22.48                 | 0.00       | 20.33     | <=34.77 | Pass    |

|        |       |    |    |       |      |       |         |      |
|--------|-------|----|----|-------|------|-------|---------|------|
|        | 707.5 | 50 | 25 | 22.35 | 0.00 | 20.20 | <=34.77 | Pass |
|        |       |    | 0  | 22.51 | 0.00 | 20.36 | <=34.77 | Pass |
|        |       |    | 0  | 23.81 | 0.00 | 21.66 | <=34.77 | Pass |
|        |       | 1  | 25 | 23.59 | 0.00 | 21.44 | <=34.77 | Pass |
|        |       |    | 49 | 23.81 | 0.00 | 21.66 | <=34.77 | Pass |
|        |       |    | 0  | 22.47 | 0.00 | 20.32 | <=34.77 | Pass |
|        |       | 25 | 13 | 22.53 | 0.00 | 20.38 | <=34.77 | Pass |
|        |       |    | 25 | 22.56 | 0.00 | 20.41 | <=34.77 | Pass |
|        |       |    | 0  | 22.38 | 0.00 | 20.23 | <=34.77 | Pass |
|        |       | 1  | 0  | 23.73 | 0.00 | 21.58 | <=34.77 | Pass |
|        |       |    | 25 | 23.63 | 0.00 | 21.48 | <=34.77 | Pass |
|        |       |    | 49 | 23.59 | 0.00 | 21.44 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.57 | 0.00 | 20.42 | <=34.77 | Pass |
|        |       |    | 13 | 22.51 | 0.00 | 20.36 | <=34.77 | Pass |
|        |       |    | 25 | 22.53 | 0.00 | 20.38 | <=34.77 | Pass |
|        |       | 50 | 0  | 22.48 | 0.00 | 20.33 | <=34.77 | Pass |
| 64QAM  | 704   | 1  | 0  | 23.59 | 0.00 | 21.44 | <=34.77 | Pass |
|        |       |    | 25 | 23.53 | 0.00 | 21.38 | <=34.77 | Pass |
|        |       |    | 49 | 23.25 | 0.00 | 21.10 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.35 | 0.00 | 20.20 | <=34.77 | Pass |
|        |       |    | 13 | 22.46 | 0.00 | 20.31 | <=34.77 | Pass |
|        |       |    | 25 | 22.38 | 0.00 | 20.23 | <=34.77 | Pass |
|        |       | 50 | 0  | 22.49 | 0.00 | 20.34 | <=34.77 | Pass |
|        | 707.5 | 1  | 0  | 23.50 | 0.00 | 21.35 | <=34.77 | Pass |
|        |       |    | 25 | 23.36 | 0.00 | 21.21 | <=34.77 | Pass |
|        |       |    | 49 | 23.25 | 0.00 | 21.10 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.47 | 0.00 | 20.32 | <=34.77 | Pass |
|        |       |    | 13 | 22.40 | 0.00 | 20.25 | <=34.77 | Pass |
|        |       |    | 25 | 22.41 | 0.00 | 20.26 | <=34.77 | Pass |
|        |       | 50 | 0  | 22.39 | 0.00 | 20.24 | <=34.77 | Pass |
|        | 711   | 1  | 0  | 23.73 | 0.00 | 21.58 | <=34.77 | Pass |
|        |       |    | 25 | 23.47 | 0.00 | 21.32 | <=34.77 | Pass |
|        |       |    | 49 | 23.50 | 0.00 | 21.35 | <=34.77 | Pass |
|        |       | 25 | 0  | 22.45 | 0.00 | 20.30 | <=34.77 | Pass |
|        |       |    | 13 | 22.51 | 0.00 | 20.36 | <=34.77 | Pass |
|        |       |    | 25 | 22.42 | 0.00 | 20.27 | <=34.77 | Pass |
|        |       | 50 | 0  | 22.53 | 0.00 | 20.38 | <=34.77 | Pass |
| 256QAM | 704   | 1  | 0  | 19.50 | 0.00 | 17.35 | <=34.77 | Pass |
|        |       |    | 25 | 19.30 | 0.00 | 17.15 | <=34.77 | Pass |
|        |       |    | 49 | 19.68 | 0.00 | 17.53 | <=34.77 | Pass |
|        |       | 25 | 0  | 19.44 | 0.00 | 17.29 | <=34.77 | Pass |
|        |       |    | 13 | 19.56 | 0.00 | 17.41 | <=34.77 | Pass |
|        |       |    | 25 | 19.45 | 0.00 | 17.30 | <=34.77 | Pass |
|        |       | 50 | 0  | 19.49 | 0.00 | 17.34 | <=34.77 | Pass |
|        | 707.5 | 1  | 0  | 19.34 | 0.00 | 17.19 | <=34.77 | Pass |
|        |       |    | 25 | 19.60 | 0.00 | 17.45 | <=34.77 | Pass |
|        |       |    | 49 | 19.52 | 0.00 | 17.37 | <=34.77 | Pass |
|        |       | 25 | 0  | 19.55 | 0.00 | 17.40 | <=34.77 | Pass |
|        |       |    | 13 | 19.40 | 0.00 | 17.25 | <=34.77 | Pass |
|        |       |    | 25 | 19.57 | 0.00 | 17.42 | <=34.77 | Pass |
|        |       | 50 | 0  | 19.42 | 0.00 | 17.27 | <=34.77 | Pass |
|        | 711   | 1  | 0  | 19.36 | 0.00 | 17.21 | <=34.77 | Pass |
|        |       |    | 25 | 19.34 | 0.00 | 17.19 | <=34.77 | Pass |



|  |  |    |    |       |      |       |         |      |
|--|--|----|----|-------|------|-------|---------|------|
|  |  |    | 49 | 19.53 | 0.00 | 17.38 | <=34.77 | Pass |
|  |  | 25 | 0  | 19.40 | 0.00 | 17.25 | <=34.77 | Pass |
|  |  |    | 13 | 19.63 | 0.00 | 17.48 | <=34.77 | Pass |
|  |  |    | 25 | 19.39 | 0.00 | 17.24 | <=34.77 | Pass |
|  |  | 50 | 0  | 19.55 | 0.00 | 17.40 | <=34.77 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 707.5           | 50            | 0      | 20         | 3.27          | -1.200           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | 0.200            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 0.700            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 0.800            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -1.100           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 2.000            | 0.0028                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -0.300           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | -1.700           | -0.0024               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 2.700            | 0.0038                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | 0.900            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | 0.800            | 0.0011                | -2.5 to 2.5 | Pass    |

## 3. 99% & 26dB Bandwidth

### 3.1 Test Result

#### 3.1.1 Band12\_OBW

| Band: 12 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 707.5           | 6             | 0      | 1.086                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 6             | 0      | 1.086                        | /     | Pass    |
|                 | 64QAM      | 707.5           | 6             | 0      | 1.082                        | /     | Pass    |
|                 | 256QAM     | 707.5           | 6             | 0      | 1.077                        | /     | Pass    |
| 3               | QPSK       | 707.5           | 15            | 0      | 2.675                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 15            | 0      | 2.682                        | /     | Pass    |
|                 | 64QAM      | 707.5           | 15            | 0      | 2.682                        | /     | Pass    |
|                 | 256QAM     | 707.5           | 15            | 0      | 2.683                        | /     | Pass    |
| 5               | QPSK       | 707.5           | 25            | 0      | 4.497                        | /     | Pass    |
|                 | 16QAM      | 707.5           | 25            | 0      | 4.495                        | /     | Pass    |



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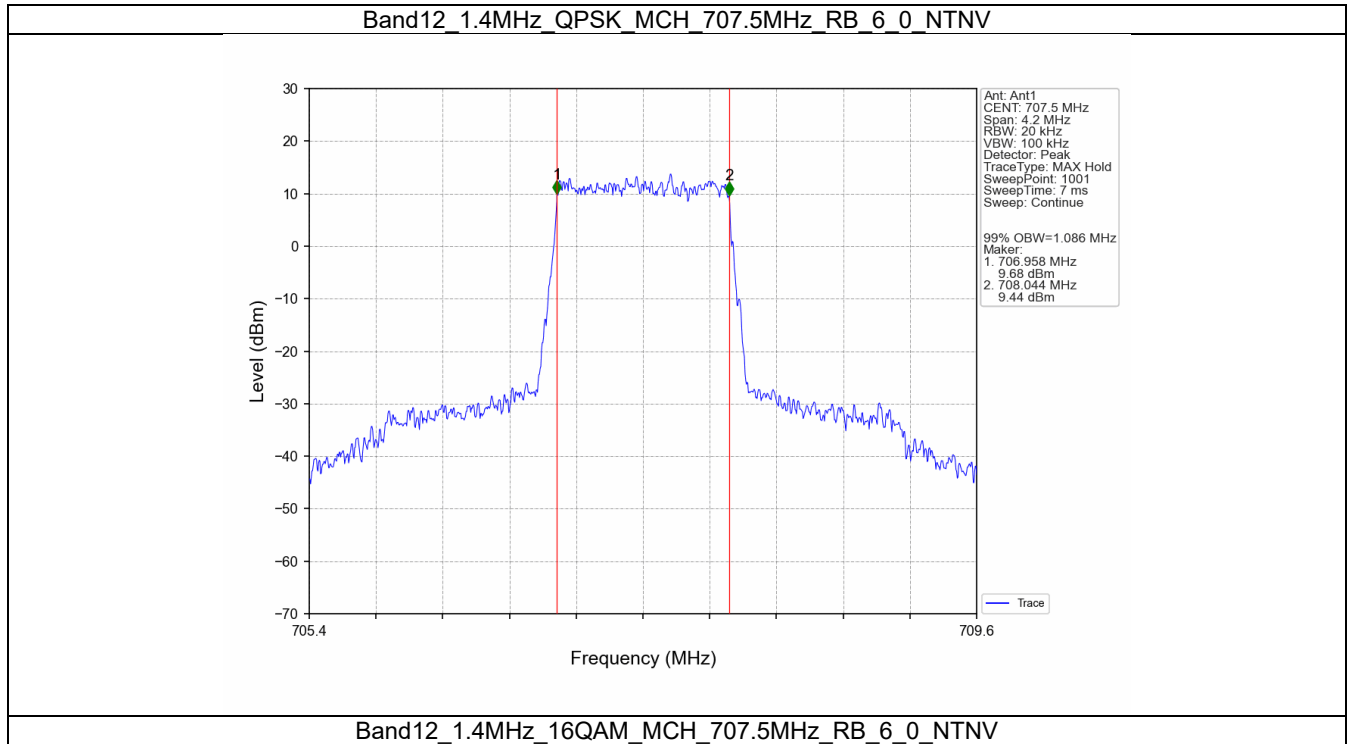
|    |        |       |    |   |       |   |      |
|----|--------|-------|----|---|-------|---|------|
| 10 | 64QAM  | 707.5 | 25 | 0 | 4.491 | / | Pass |
|    | 256QAM | 707.5 | 25 | 0 | 4.482 | / | Pass |
|    | QPSK   | 707.5 | 50 | 0 | 8.950 | / | Pass |
|    | 16QAM  | 707.5 | 50 | 0 | 8.928 | / | Pass |
|    | 64QAM  | 707.5 | 50 | 0 | 8.942 | / | Pass |
|    | 256QAM | 707.5 | 50 | 0 | 8.950 | / | Pass |

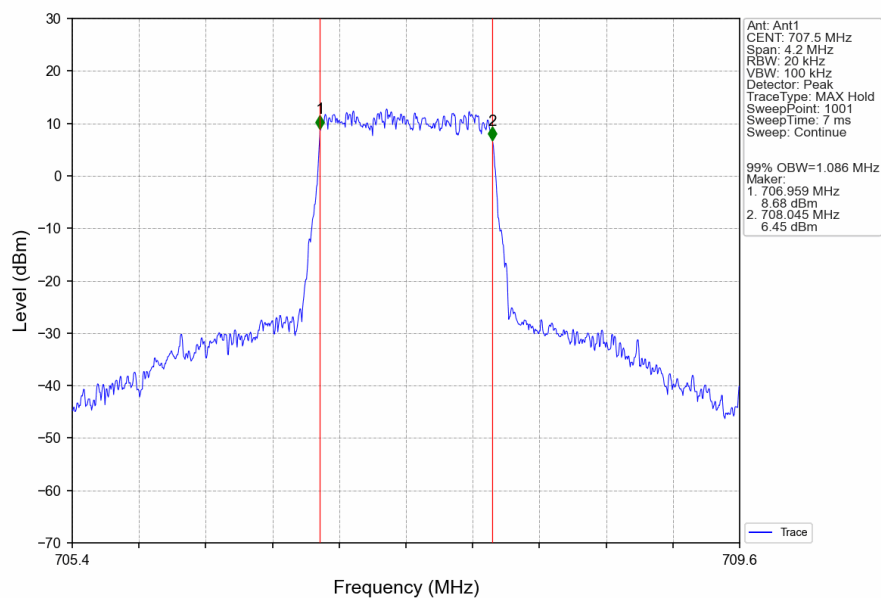
### 3.1.2 Band12\_XDB

| Band: 12 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 707.5           | 6             | 0      | 1.218                | /     | Pass    |
|                 | 16QAM      | 707.5           | 6             | 0      | 1.227                | /     | Pass    |
|                 | 64QAM      | 707.5           | 6             | 0      | 1.215                | /     | Pass    |
|                 | 256QAM     | 707.5           | 6             | 0      | 1.208                | /     | Pass    |
| 3               | QPSK       | 707.5           | 15            | 0      | 2.928                | /     | Pass    |
|                 | 16QAM      | 707.5           | 15            | 0      | 2.918                | /     | Pass    |
|                 | 64QAM      | 707.5           | 15            | 0      | 2.928                | /     | Pass    |
|                 | 256QAM     | 707.5           | 15            | 0      | 2.915                | /     | Pass    |
| 5               | QPSK       | 707.5           | 25            | 0      | 4.941                | /     | Pass    |
|                 | 16QAM      | 707.5           | 25            | 0      | 4.929                | /     | Pass    |
|                 | 64QAM      | 707.5           | 25            | 0      | 4.932                | /     | Pass    |
|                 | 256QAM     | 707.5           | 25            | 0      | 4.957                | /     | Pass    |
| 10              | QPSK       | 707.5           | 50            | 0      | 9.529                | /     | Pass    |
|                 | 16QAM      | 707.5           | 50            | 0      | 9.591                | /     | Pass    |
|                 | 64QAM      | 707.5           | 50            | 0      | 9.584                | /     | Pass    |
|                 | 256QAM     | 707.5           | 50            | 0      | 9.623                | /     | Pass    |

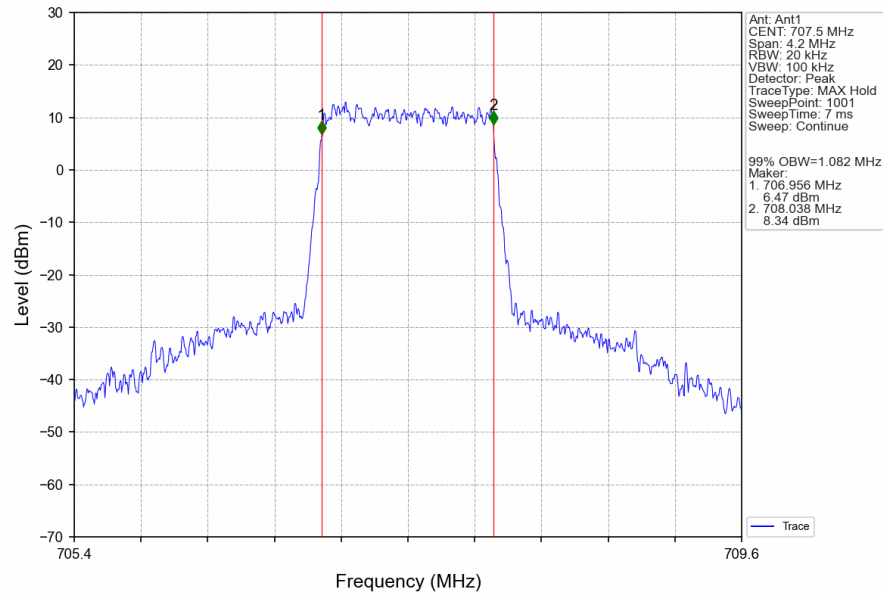
## 3.2 Test Graph

### 3.2.1 Band12\_OBW

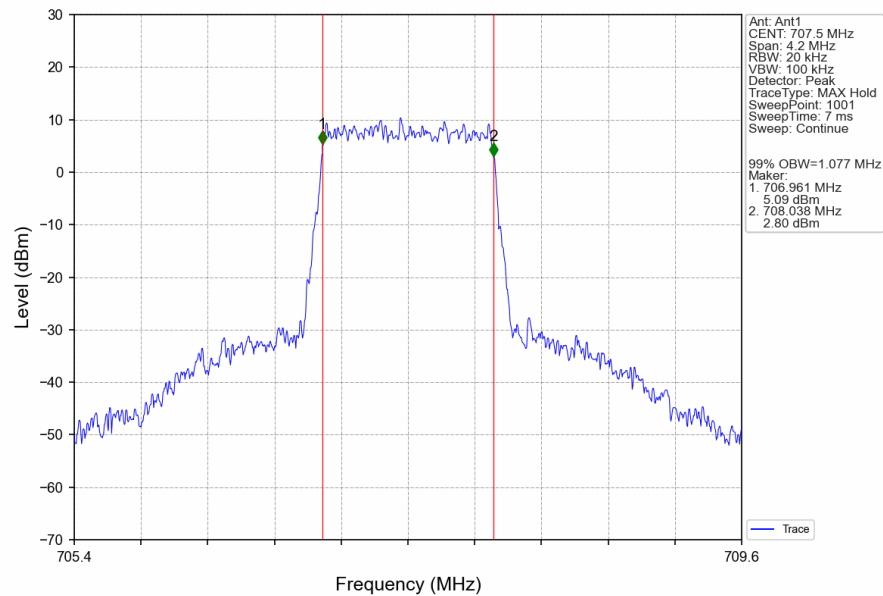




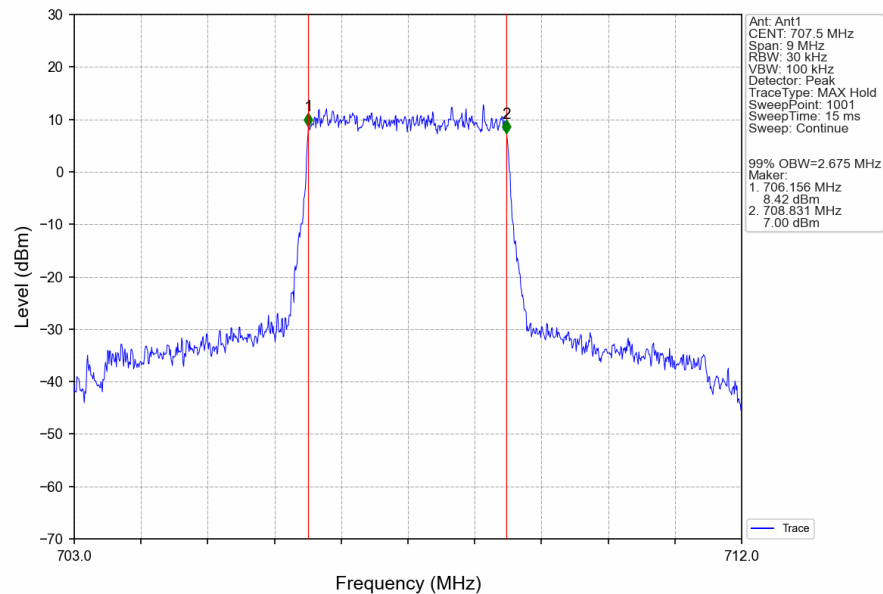
Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



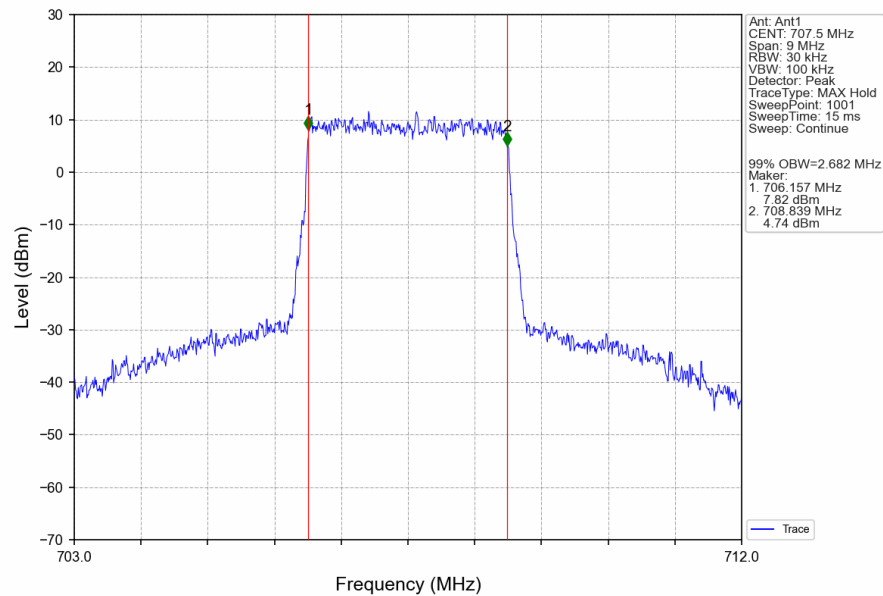
Band12\_1.4MHz\_256QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



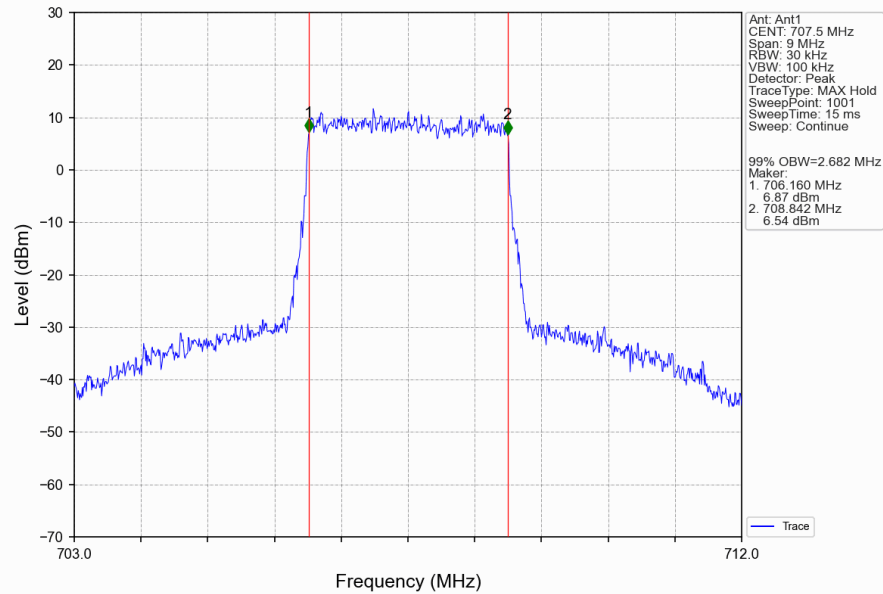
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



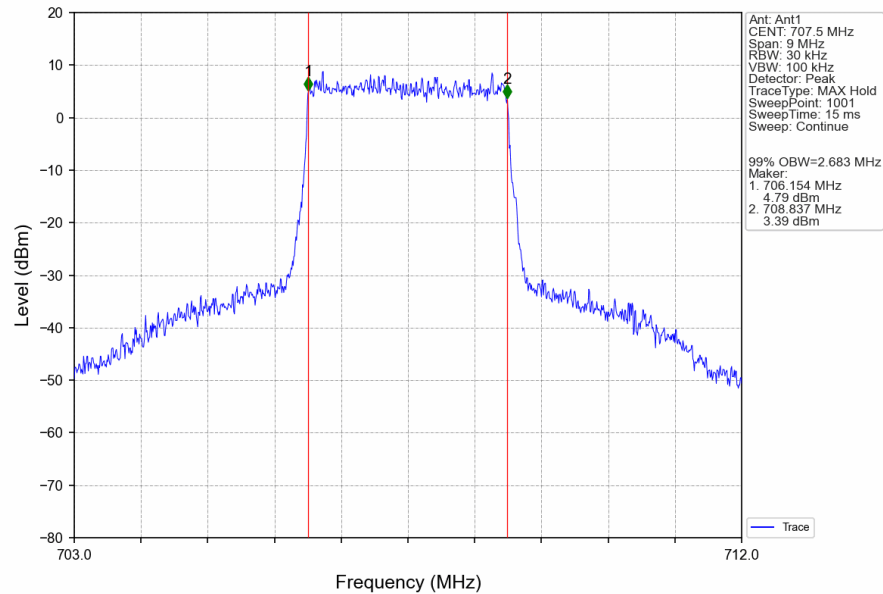
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



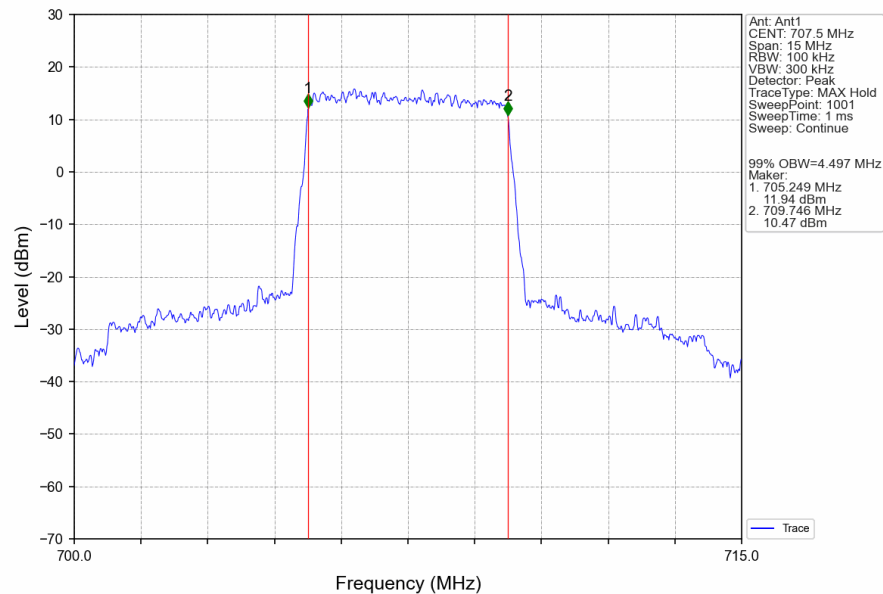
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



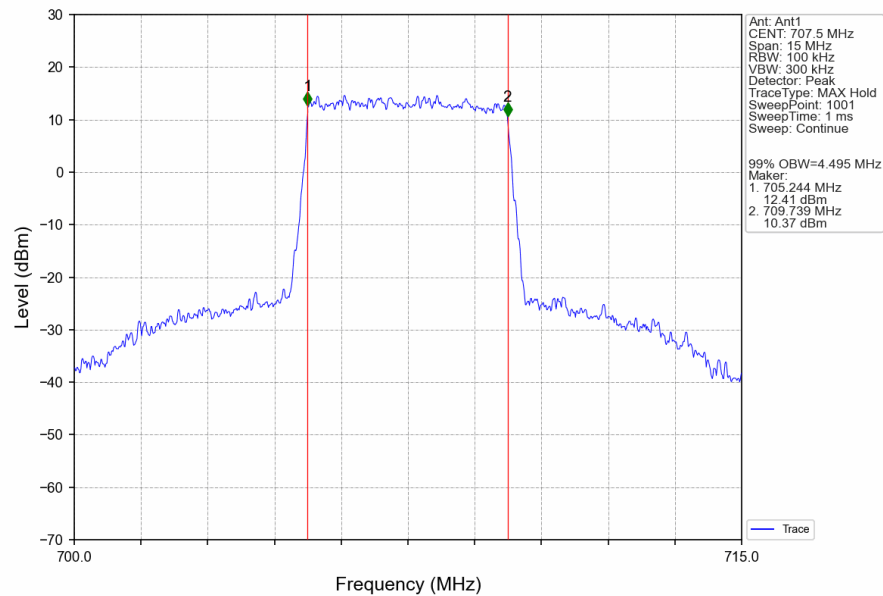
Band12\_3MHz\_256QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



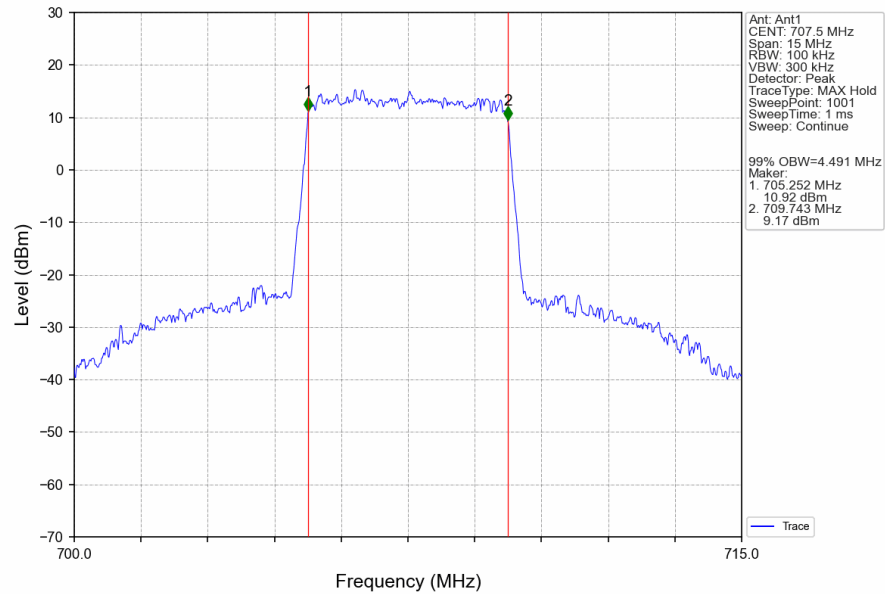
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



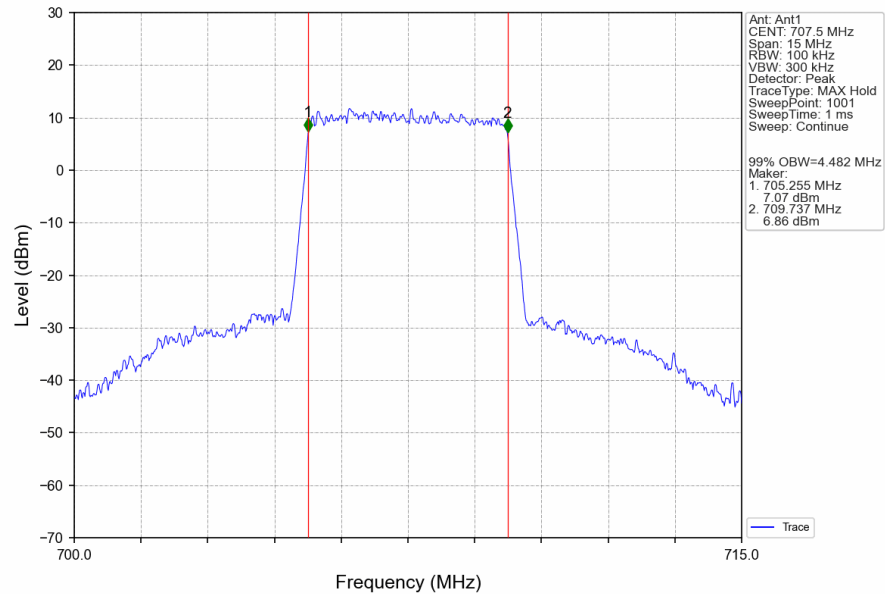
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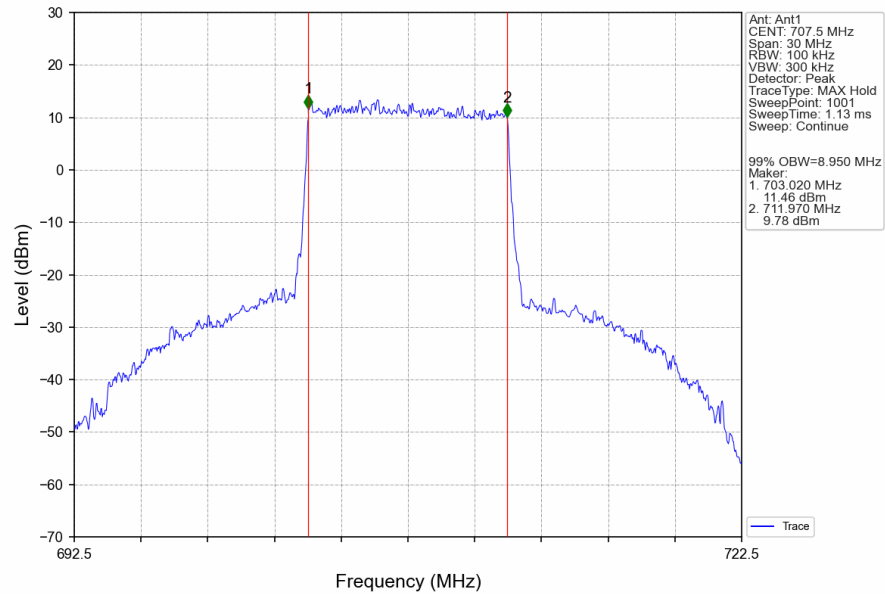
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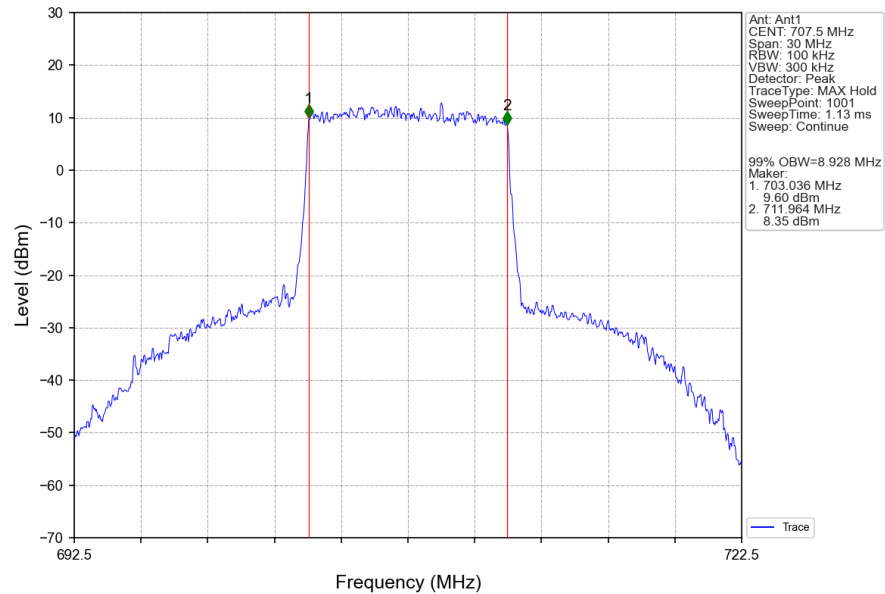
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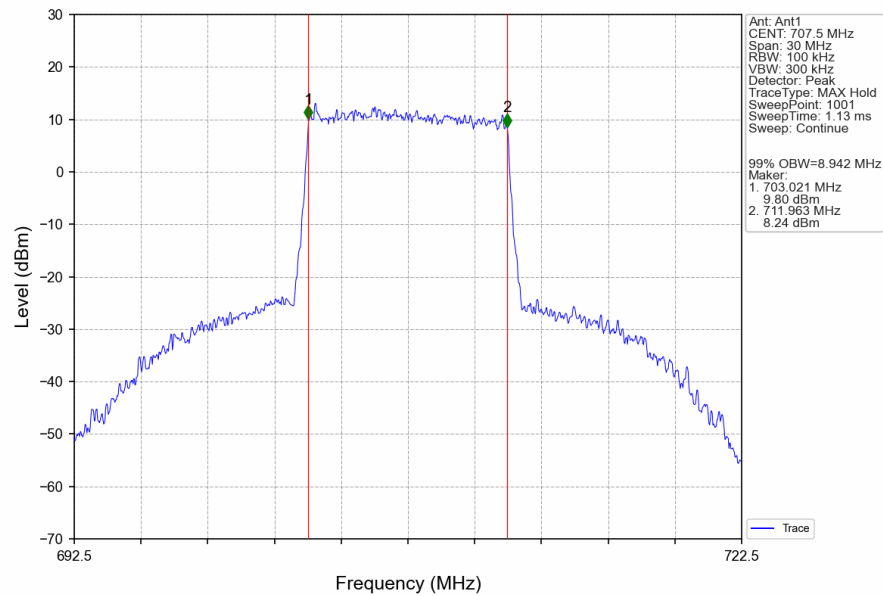
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



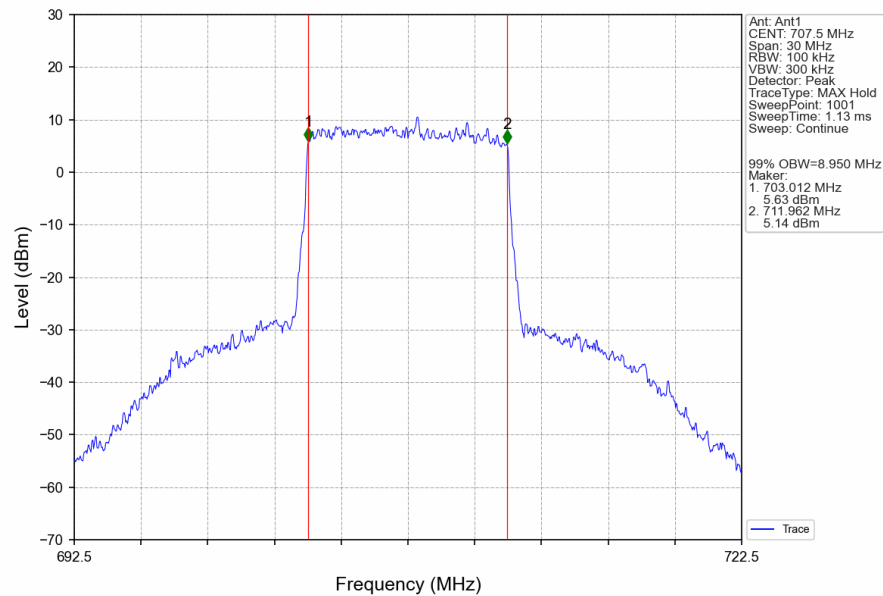
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



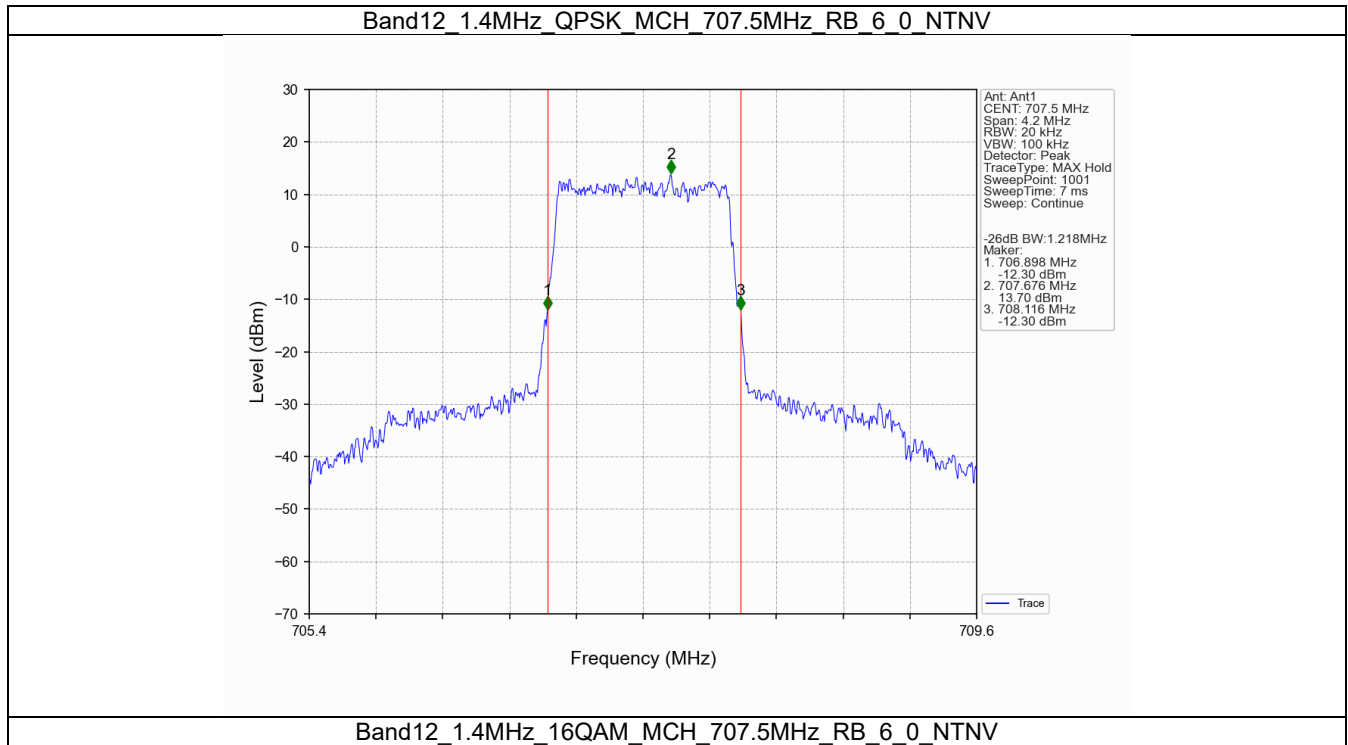
Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



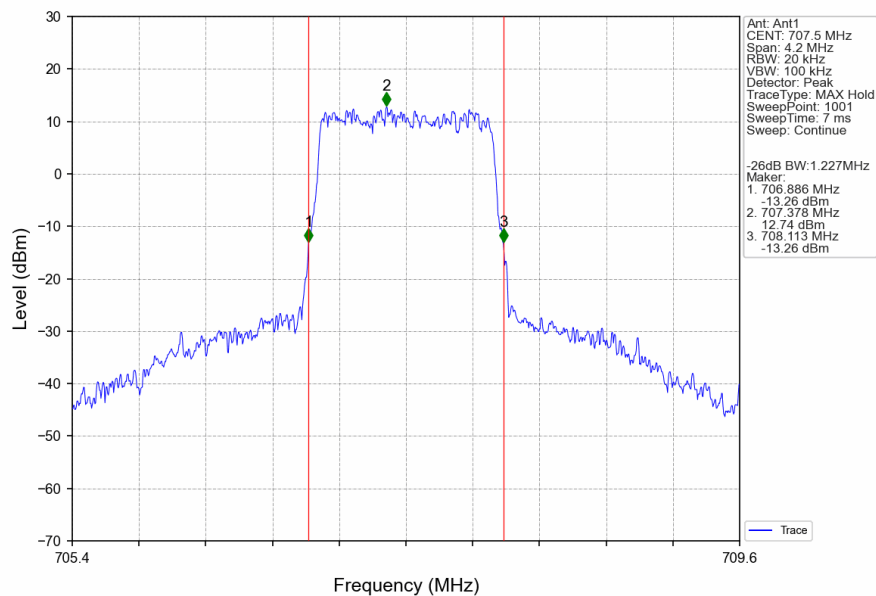
Band12\_10MHz\_256QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



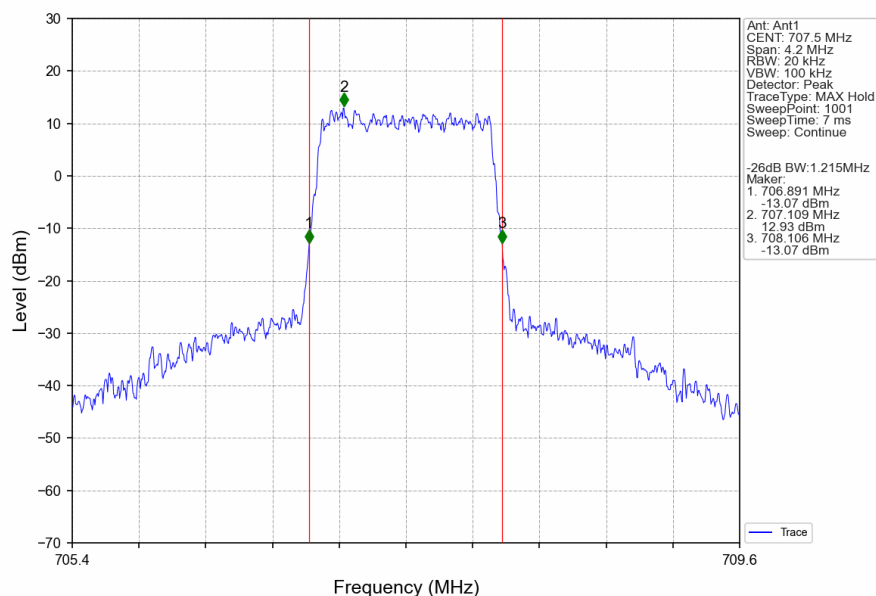
### 3.2.2 Band12\_XDB



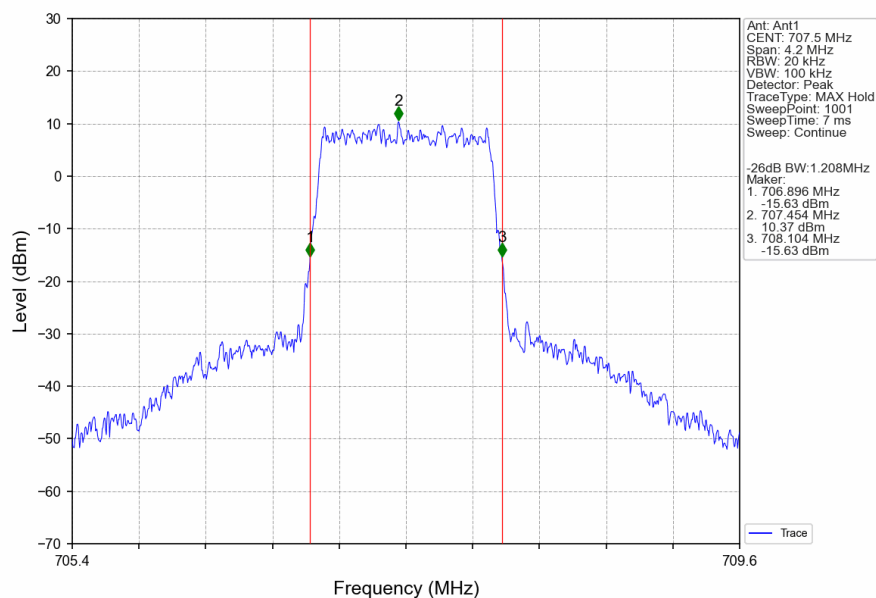
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



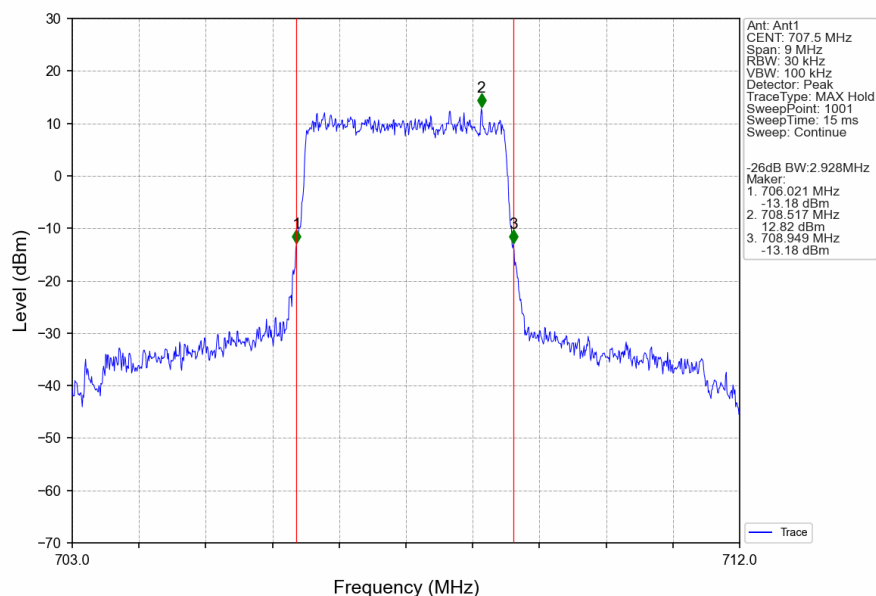
Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



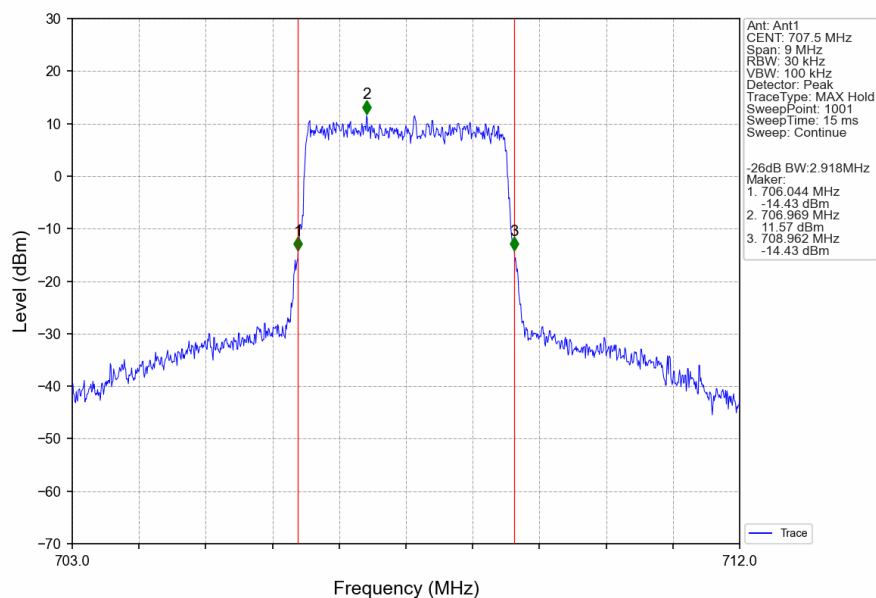
Band12\_1.4MHz\_256QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



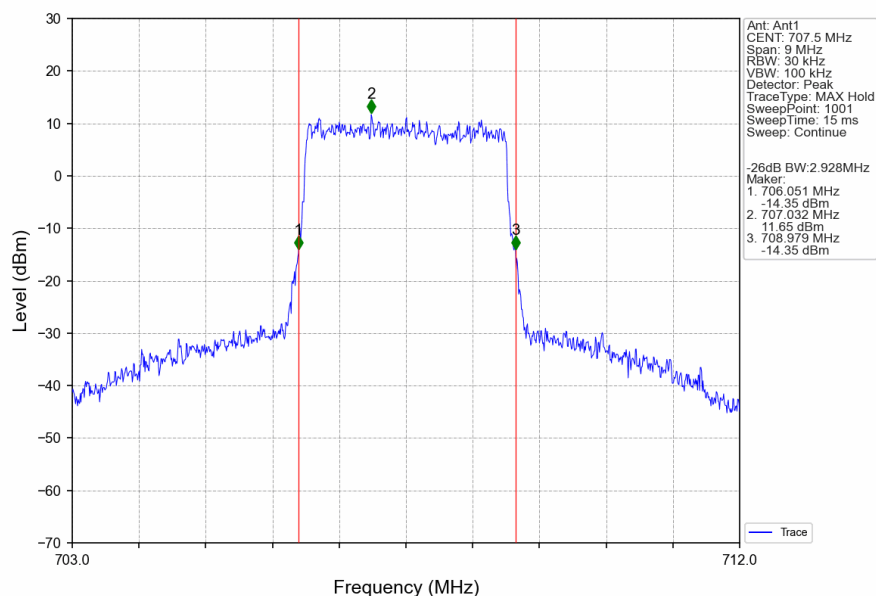
## Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



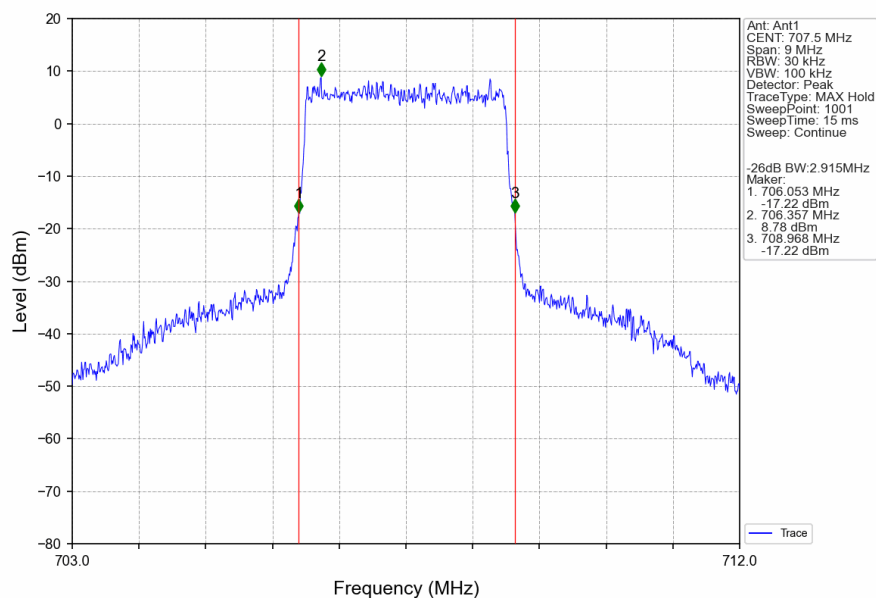
## Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



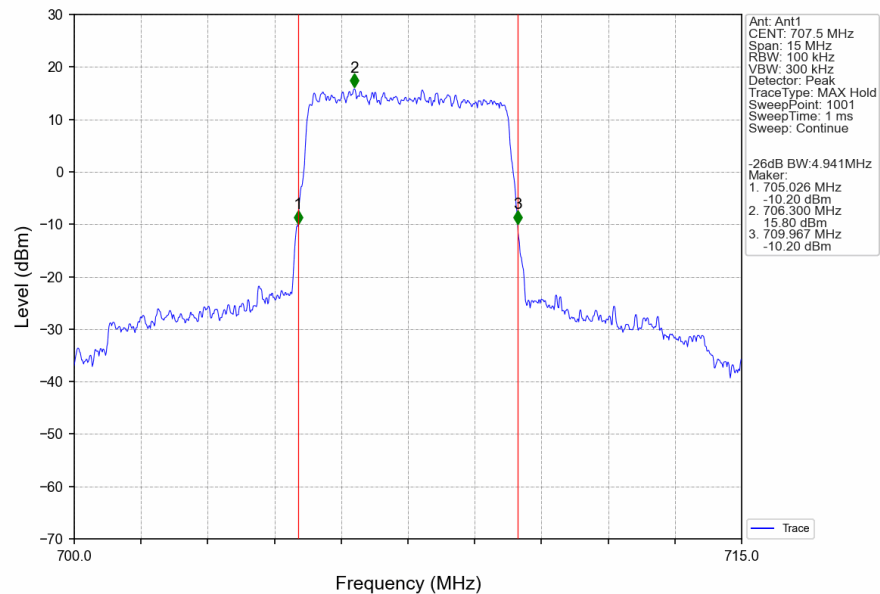
Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



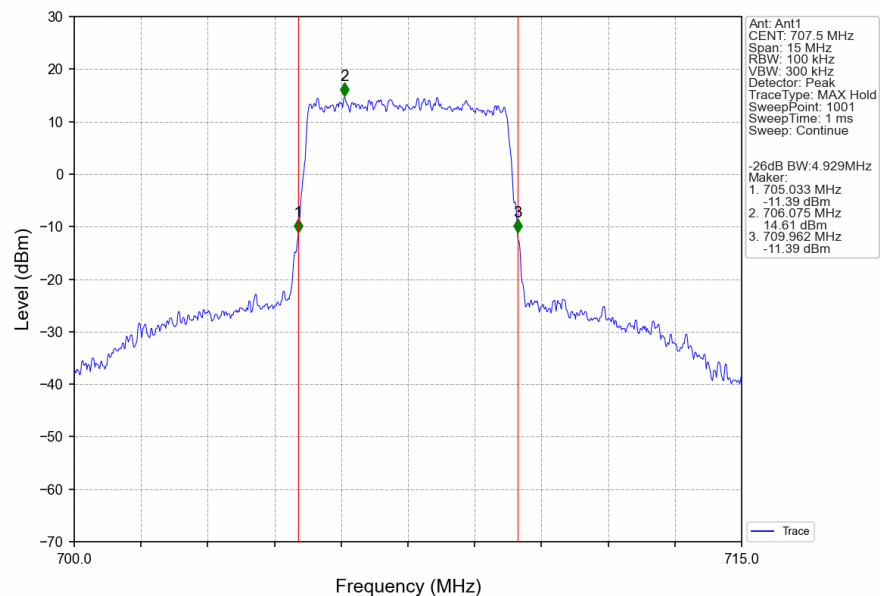
Band12\_3MHz\_256QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



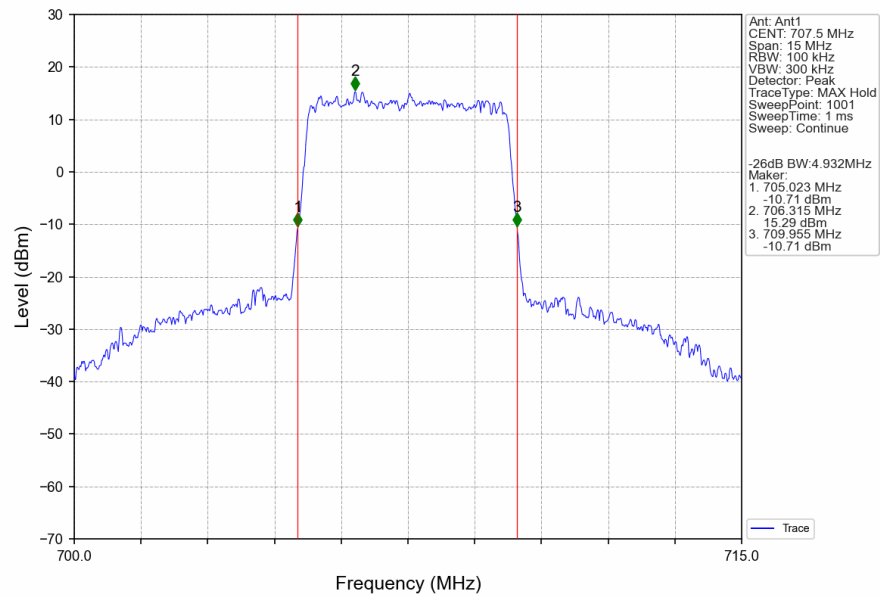
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



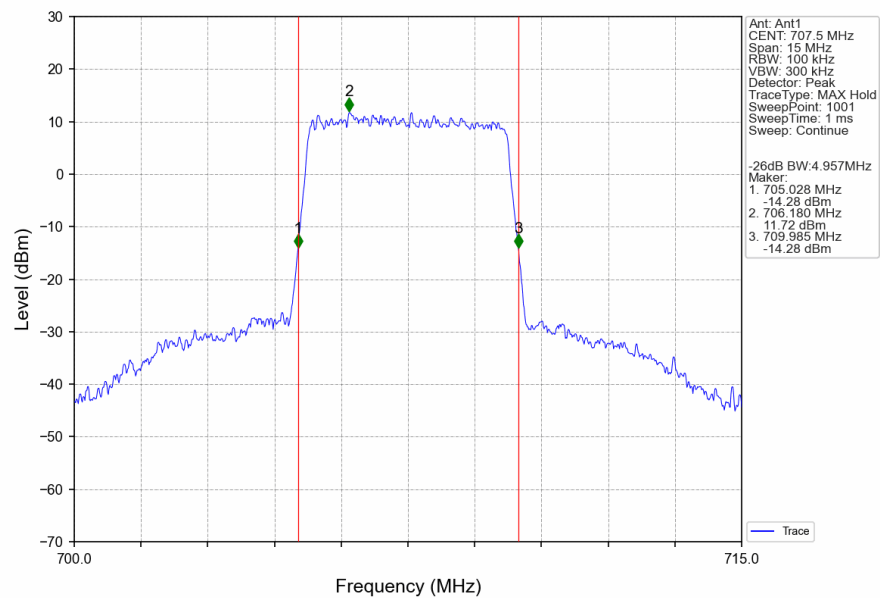
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



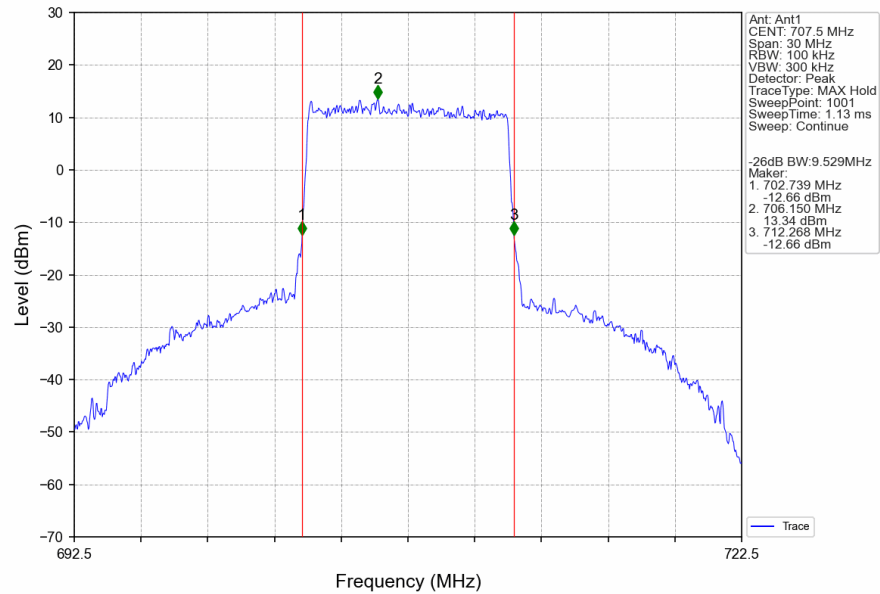
Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



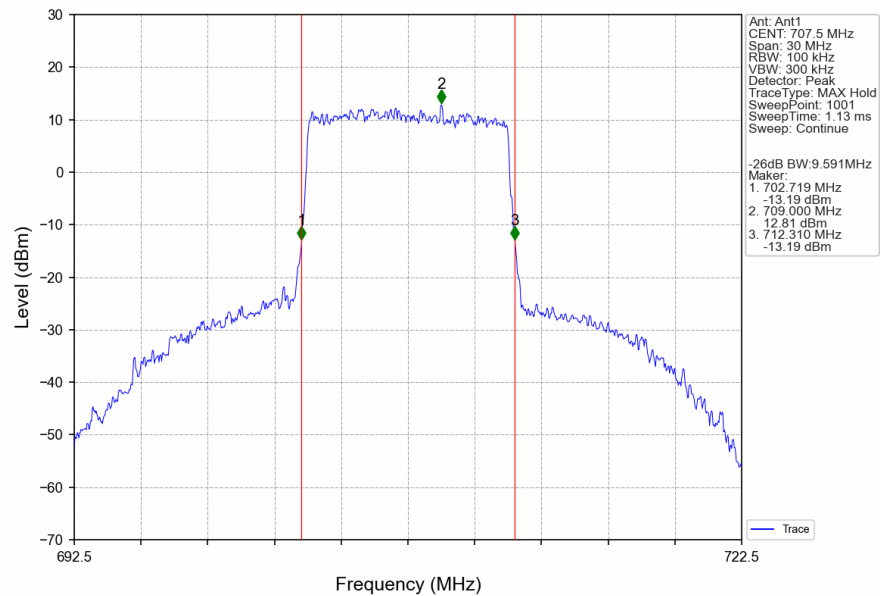
Band12\_5MHz\_256QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



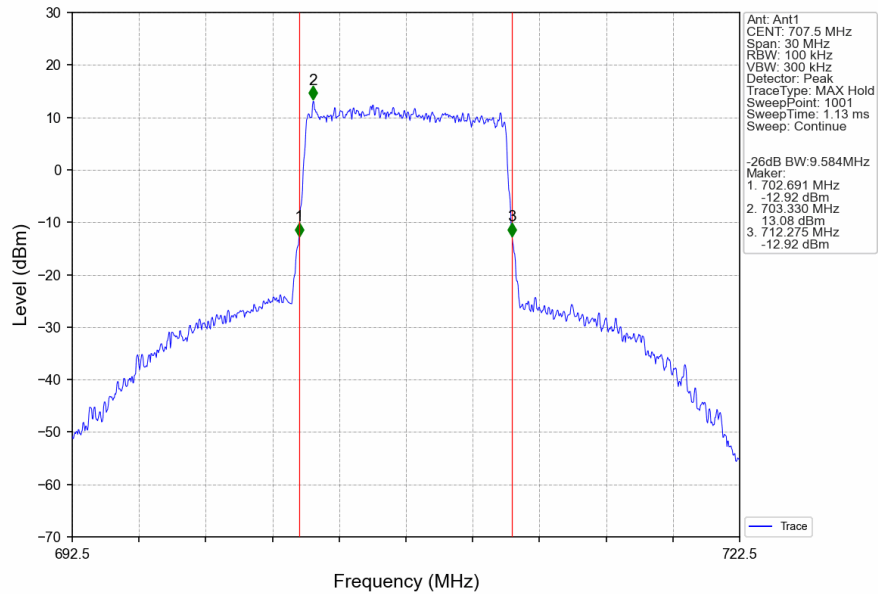
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



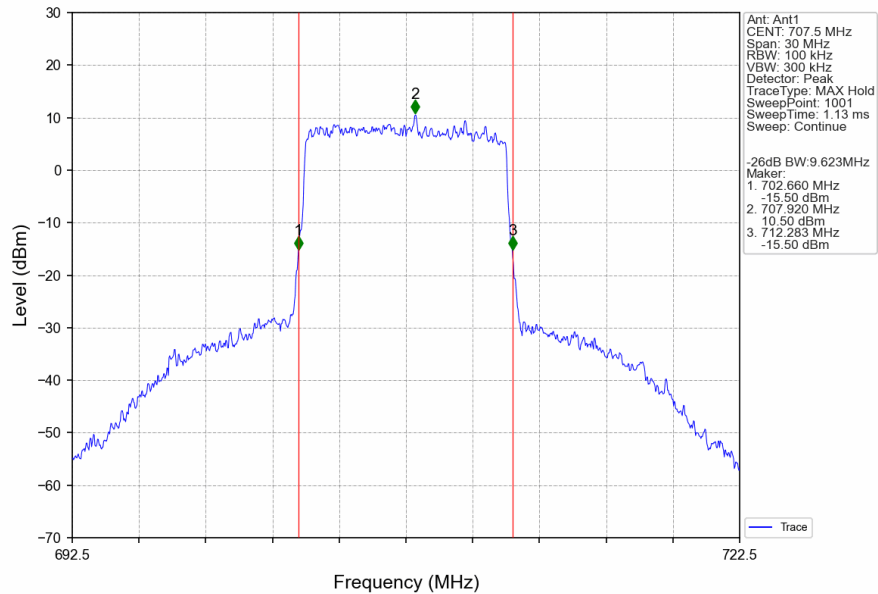
Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_256QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV





## 4. Peak-Average Ratio

### 4.1 Test Result

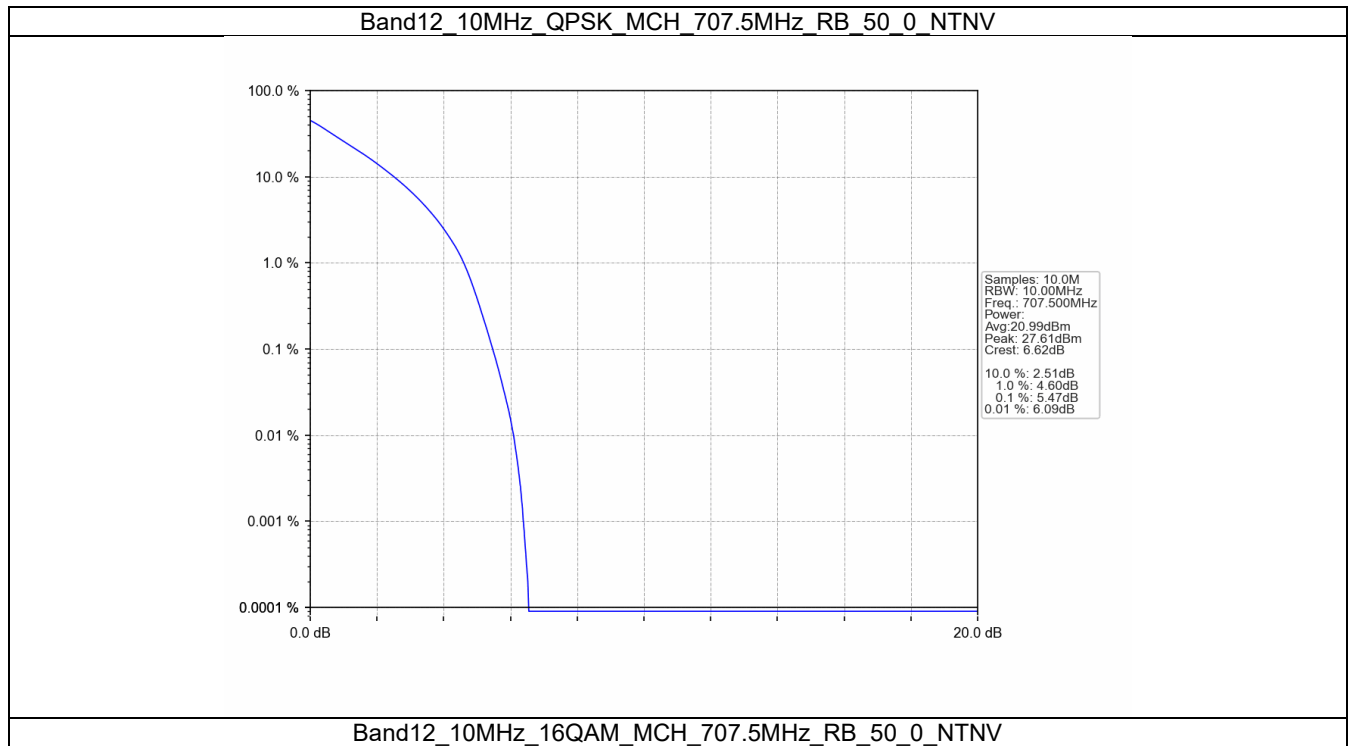
#### 4.1.1 B12\_10MHz

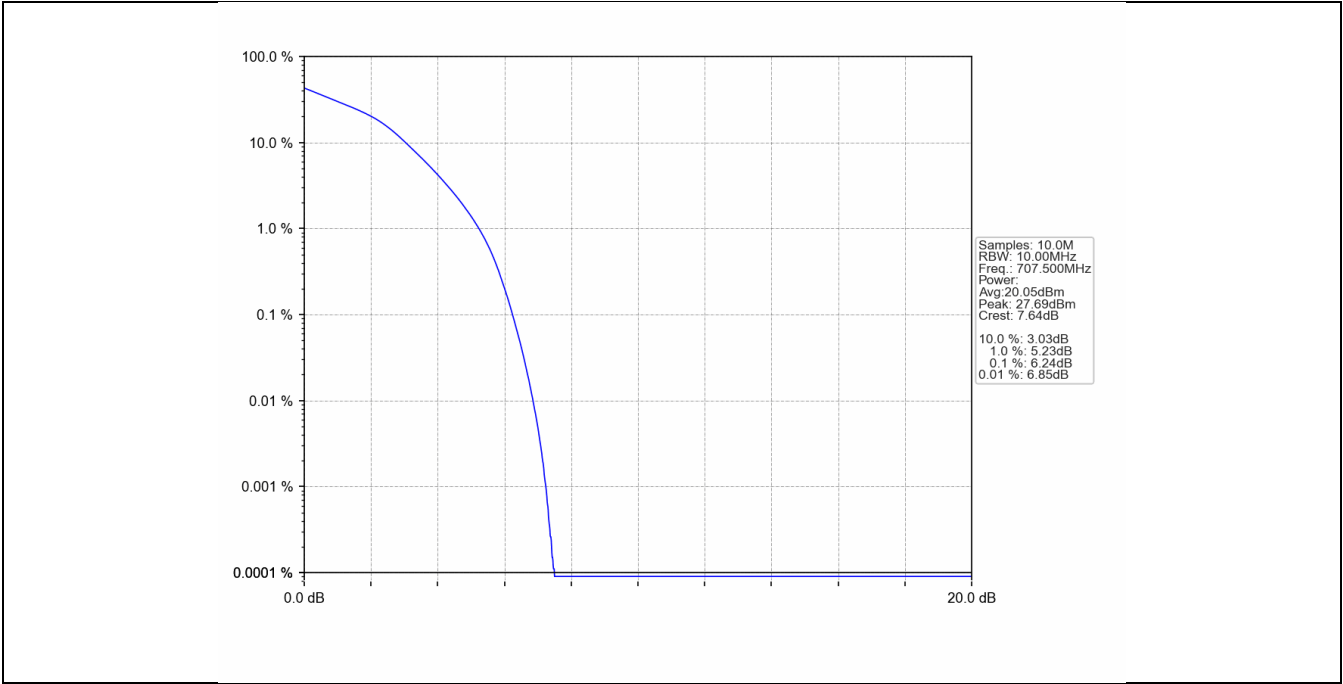
| Band: 12 / Bandwidth: 10MHz / NTNV |                    |               |        |                         |       |         |
|------------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency<br>(MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                    | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 707.5              | 50            | 0      | 5.47                    | <=13  | Pass    |
| 16QAM                              | 707.5              | 50            | 0      | 6.24                    | <=13  | Pass    |
| 64QAM                              | 707.5              | 50            | 0      | 6.23                    | <=13  | Pass    |
| 256QAM                             | 707.5              | 50            | 0      | 6.86                    | <=13  | Pass    |



## 4.2 Test Graph

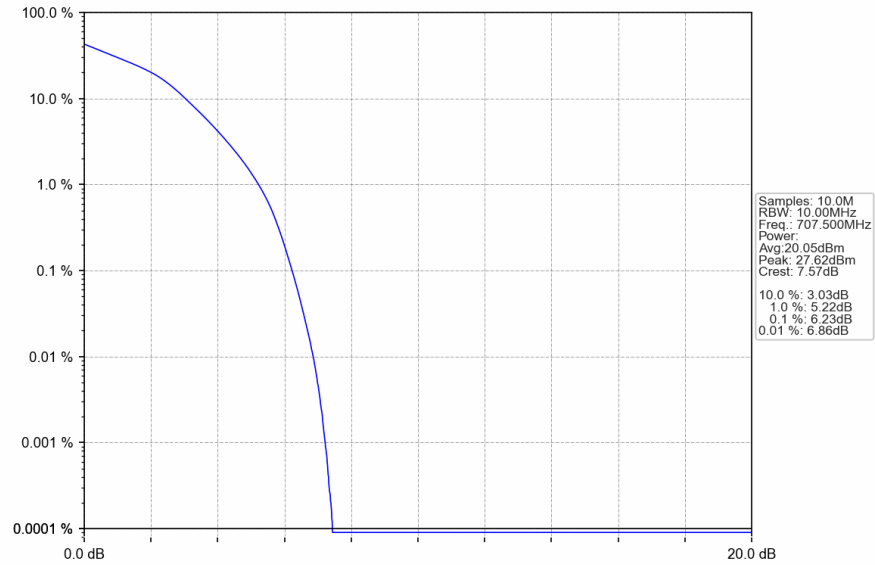
### 4.2.1 B12\_10MHz



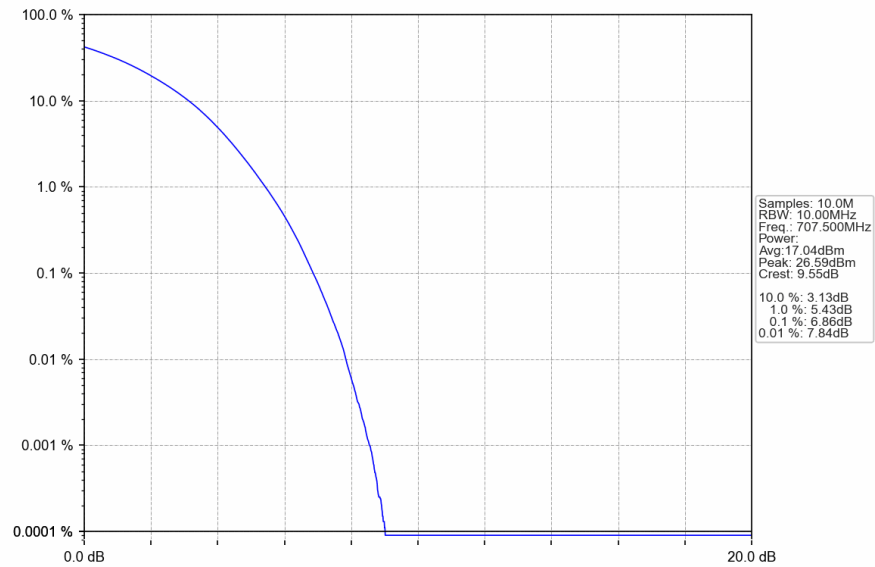




Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_256QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV





## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

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

#### 5.1.2 B12\_3MHz

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

#### 5.1.3 B12\_5MHz

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

#### 5.1.4 B12\_10MHz

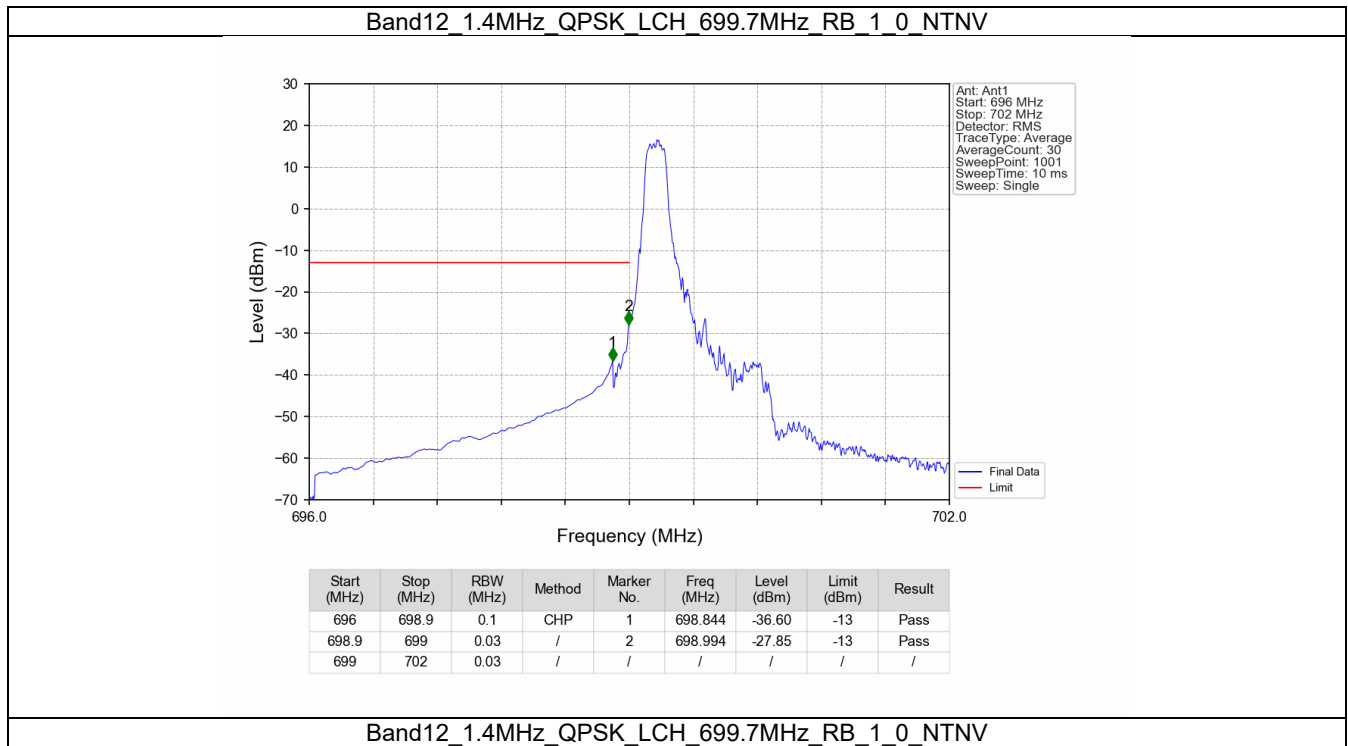
| Band: 12 / Bandwidth: 10MHz / NTNV |           |               |                   |         |
|------------------------------------|-----------|---------------|-------------------|---------|
| Modulation                         | Frequency | RB Allocation | Spurious Emission | Verdict |

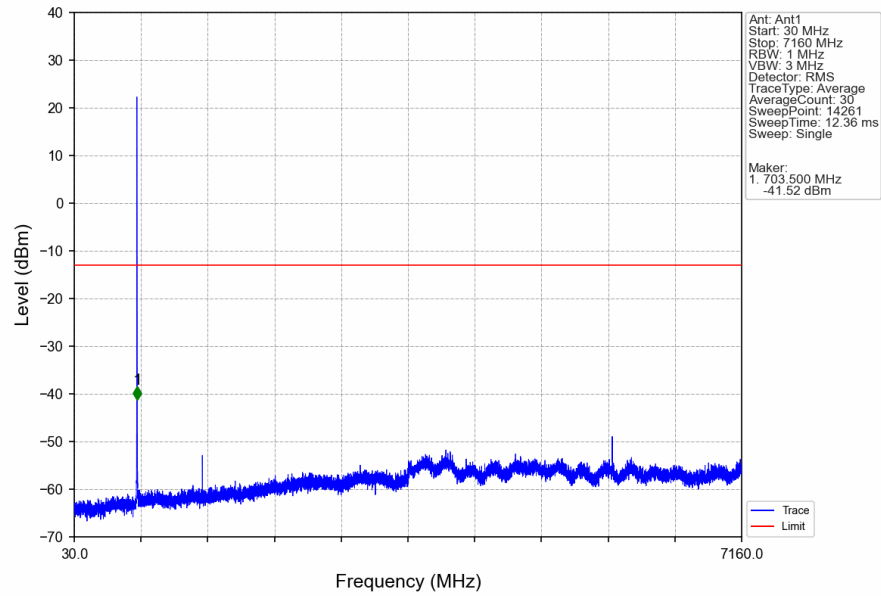


|      | (MHz) | Size | Offset | Result              | Limit |      |
|------|-------|------|--------|---------------------|-------|------|
| QPSK | 704   | 1    | 0      | Refer To Test Graph |       | Pass |
|      |       | 50   | 0      | Refer To Test Graph |       | Pass |
|      | 707.5 | 1    | 0      | Refer To Test Graph |       | Pass |
|      | 711   | 1    | 0      | Refer To Test Graph |       | Pass |
|      |       |      | 49     | Refer To Test Graph |       | Pass |
|      |       | 50   | 0      | Refer To Test Graph |       | Pass |

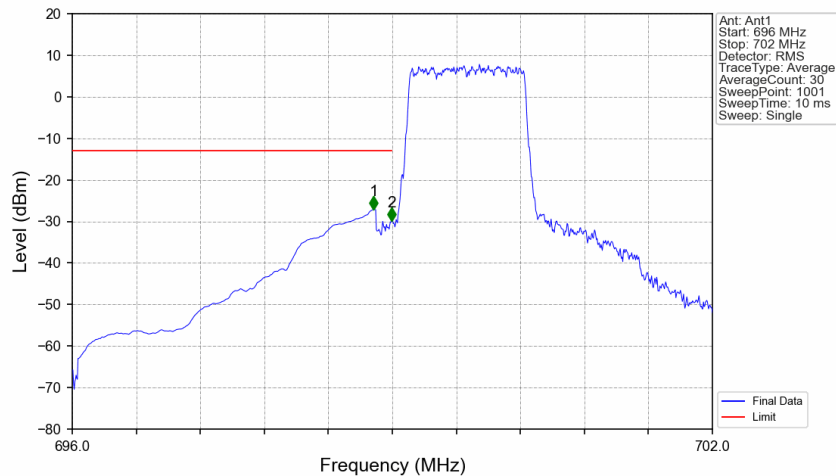
## 5.2 Test Graph

### 5.2.1 B12\_1.4MHz



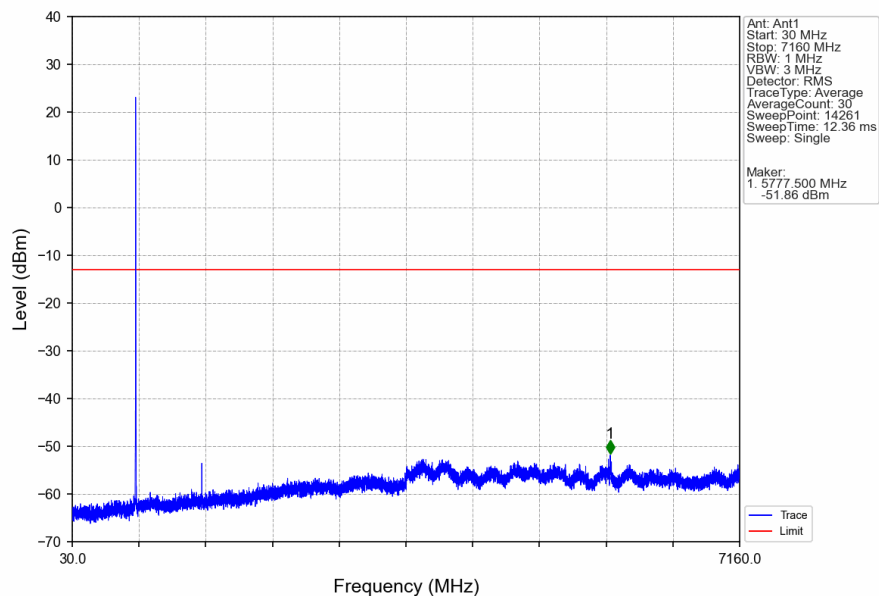


## Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

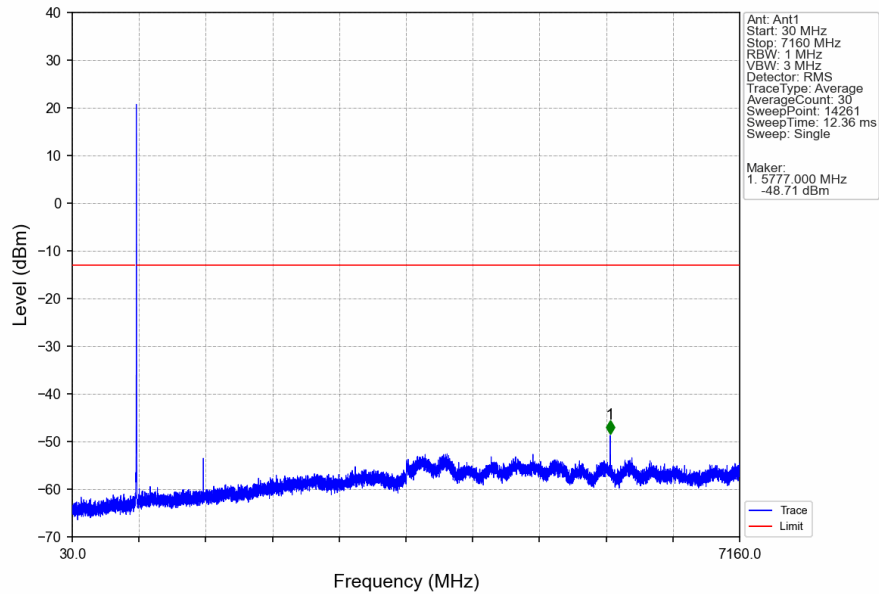


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.826    | -27.10      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -29.78      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

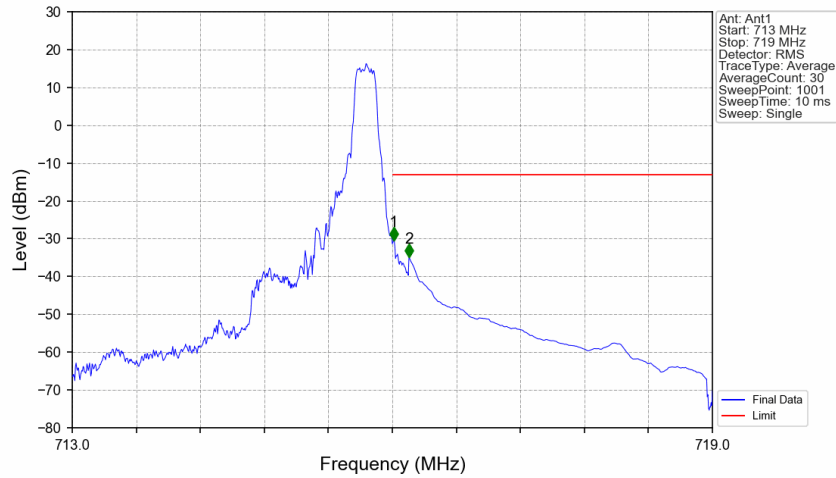
## Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

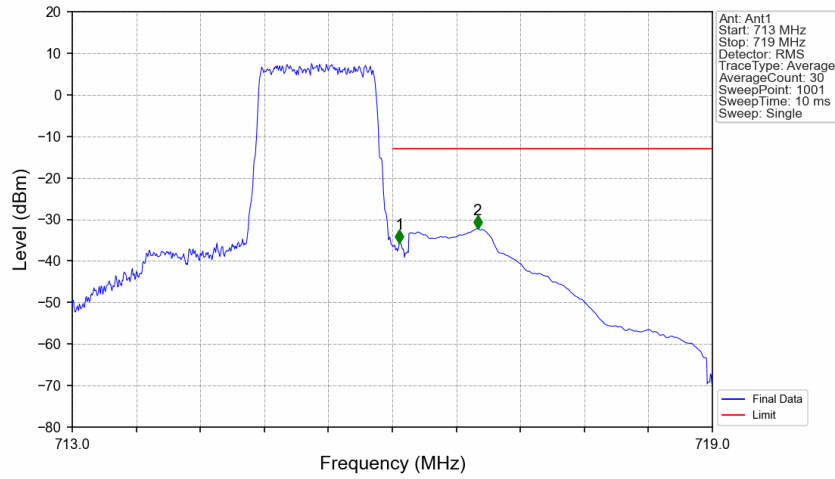


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



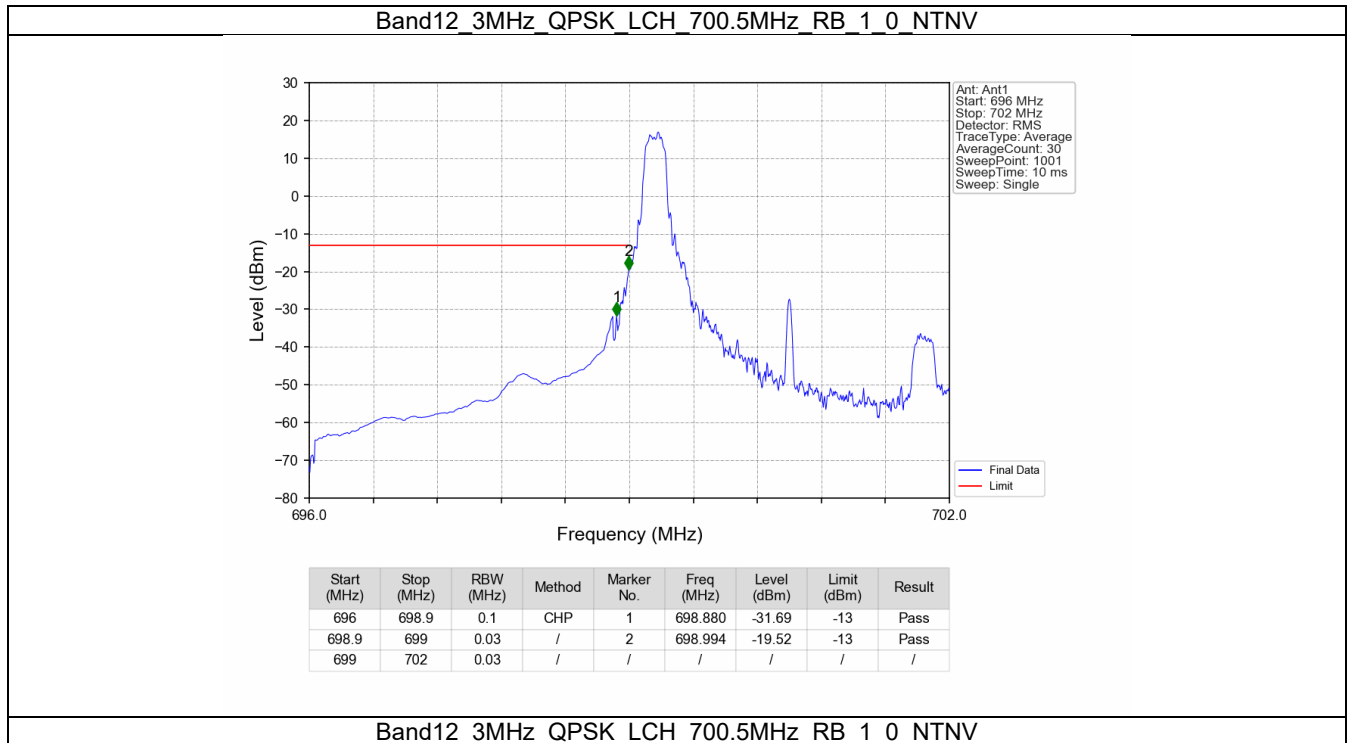
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.012    | -30.46      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -34.83      | -13         | Pass   |

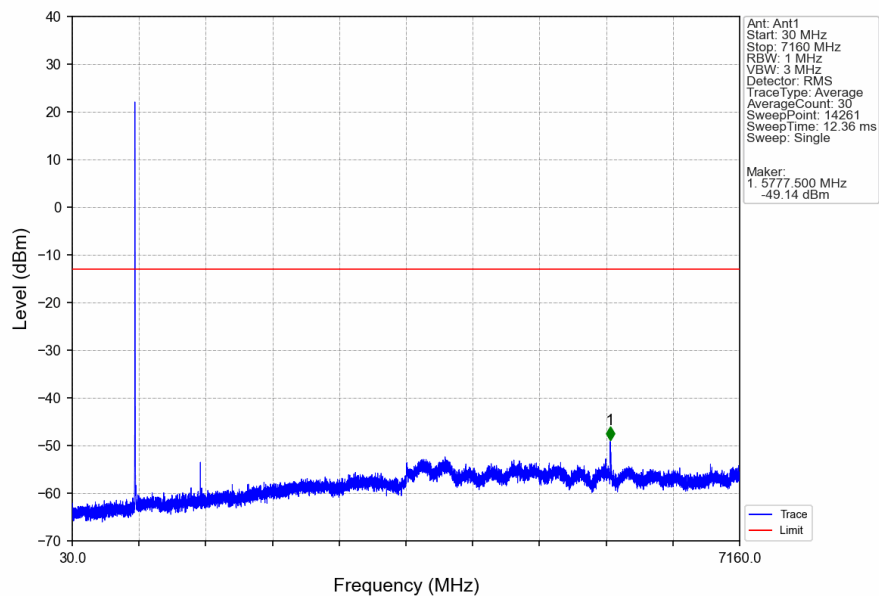
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



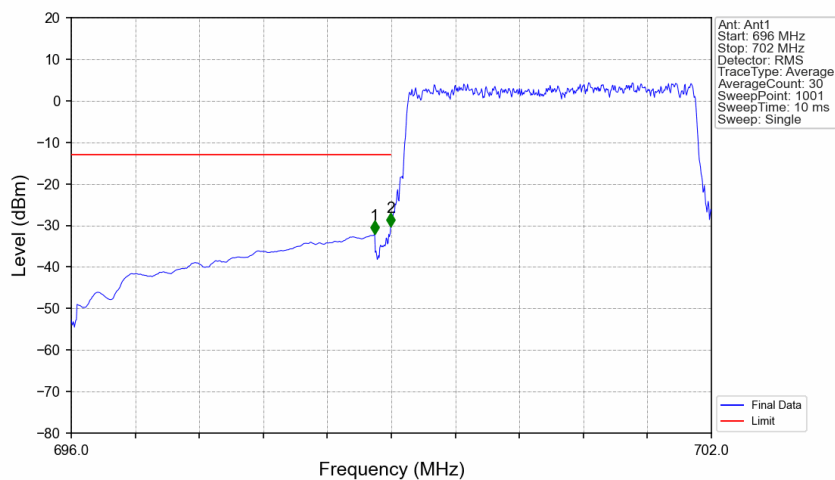
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.066    | -35.66      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.798    | -32.20      | -13         | Pass   |

## 5.2.2 B12\_3MHz



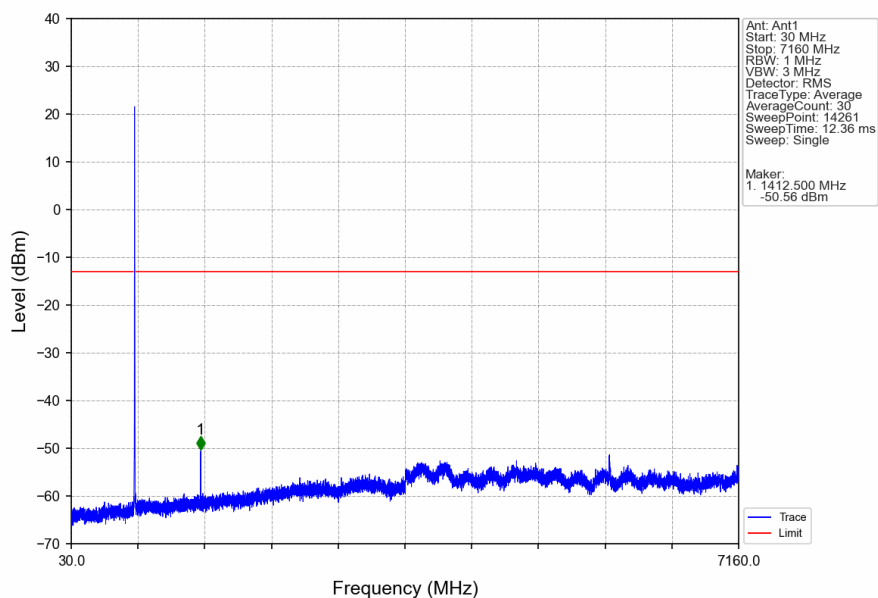


## Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

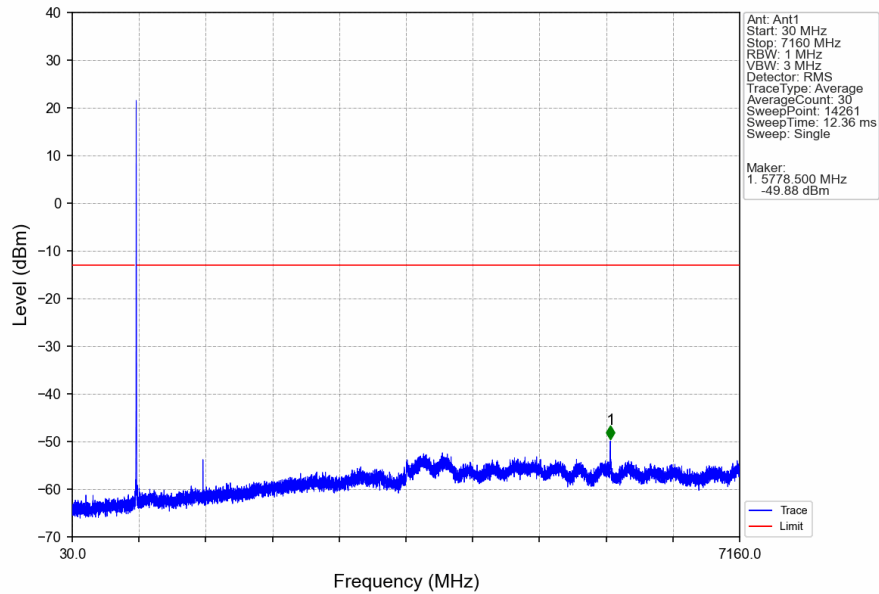


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 696         | 698.9      | 0.1       | CHP    | 1          | 698.844    | -32.11      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.994    | -30.19      | -13         | Pass   |
| 699         | 702        | 0.03      | /      | /          | /          | /           | /           | /      |

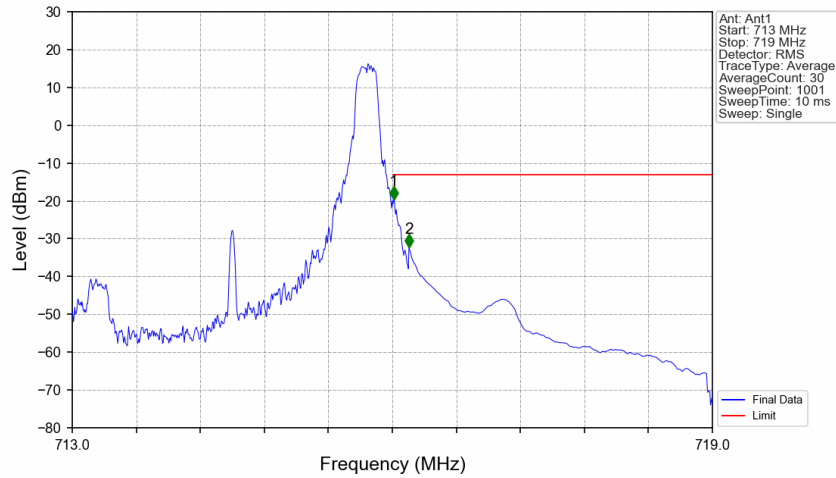
## Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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

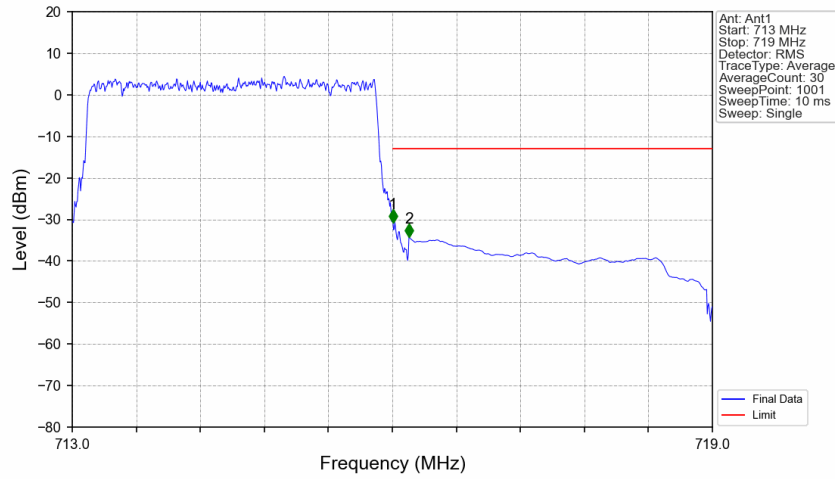


Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



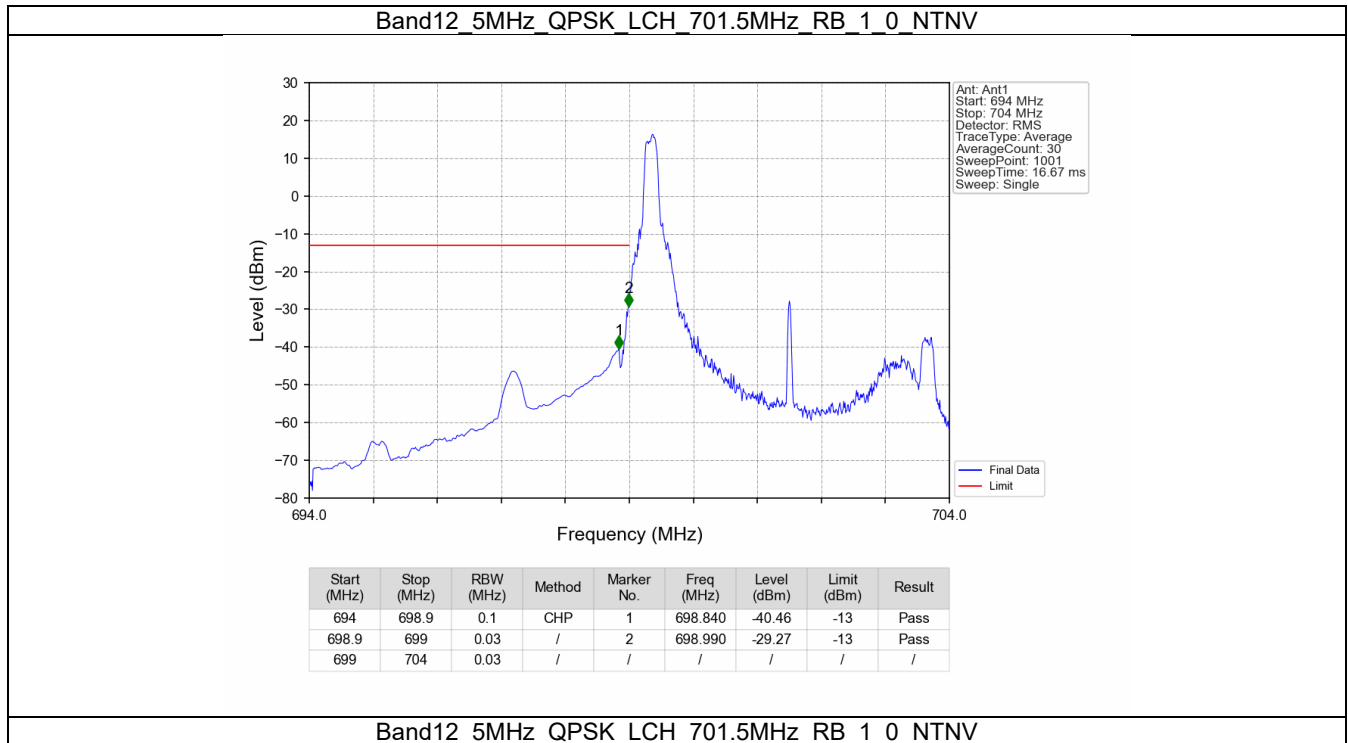
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.012    | -19.70      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -32.34      | -13         | Pass   |

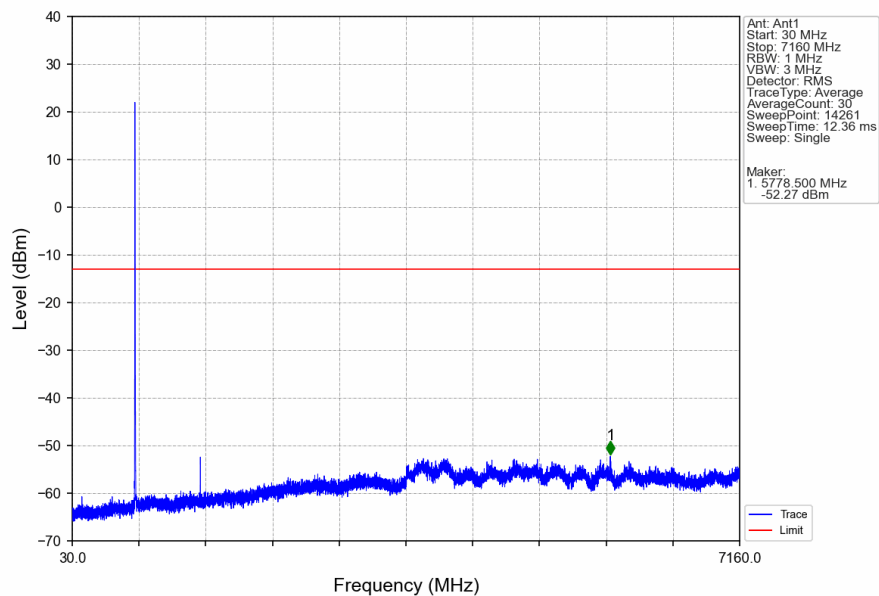
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



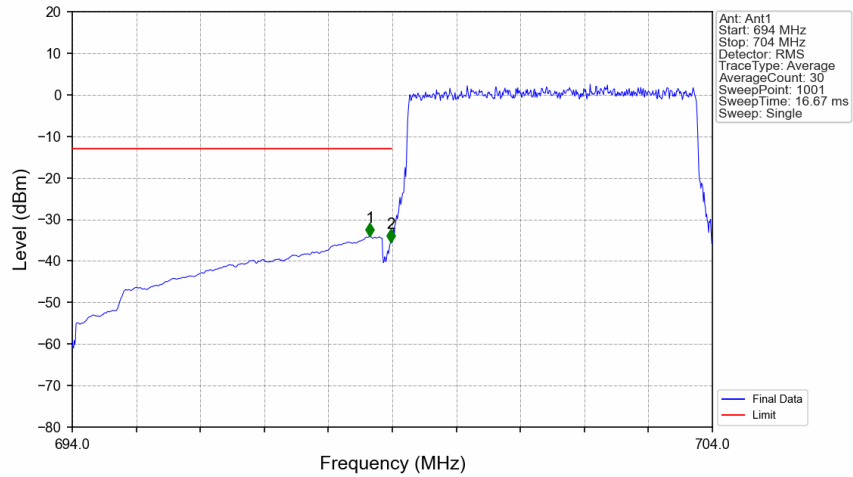
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 713         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.006    | -30.74      | -13         | Pass   |
| 716.1       | 719        | 0.1       | CHP    | 2          | 716.156    | -34.24      | -13         | Pass   |

### 5.2.3 B12\_5MHz



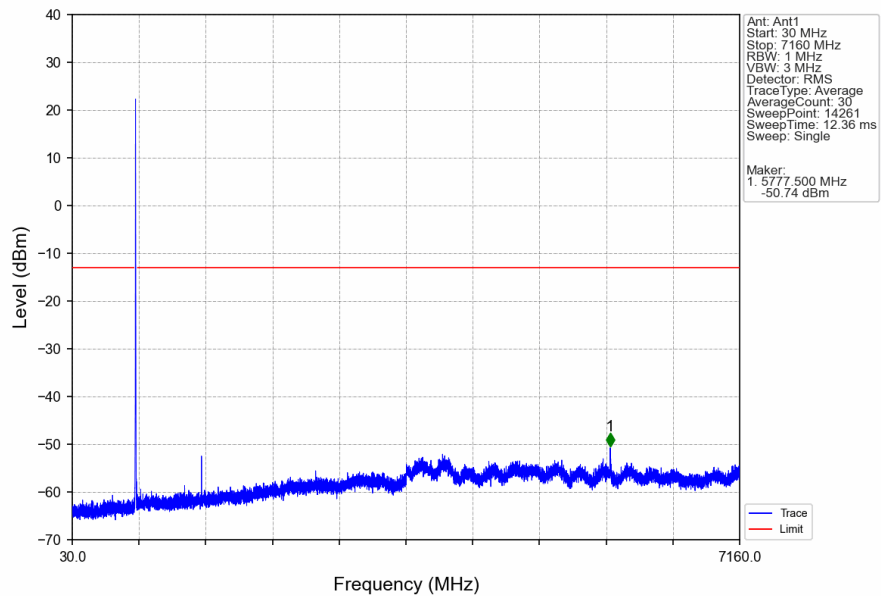


## Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

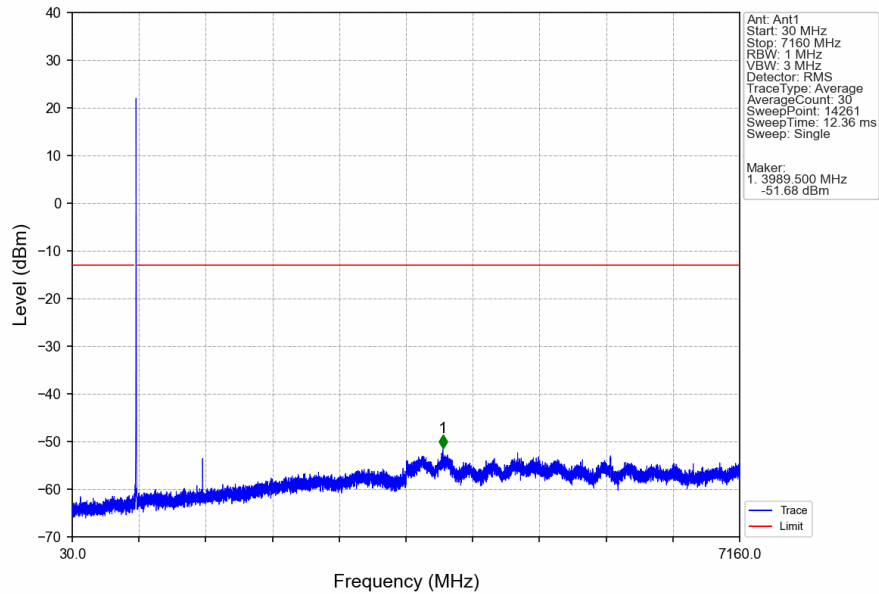


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 698.9      | 0.1       | CHP    | 1          | 698.650    | -34.05      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.980    | -35.56      | -13         | Pass   |
| 699         | 704        | 0.03      | /      | /          | /          | /           | /           | /      |

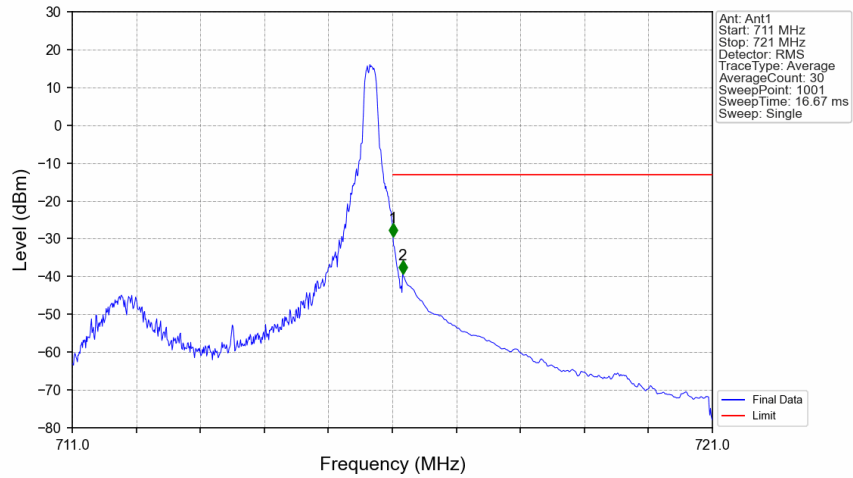
## Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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



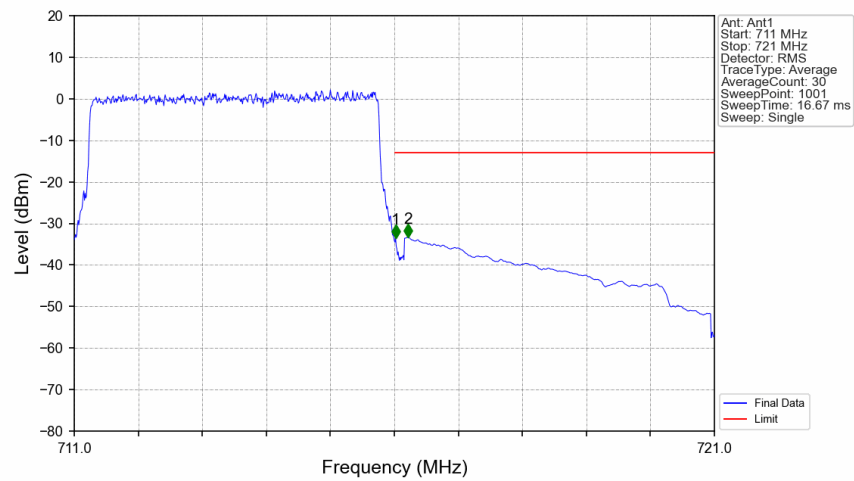
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.010    | -29.50      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -39.27      | -13         | Pass   |

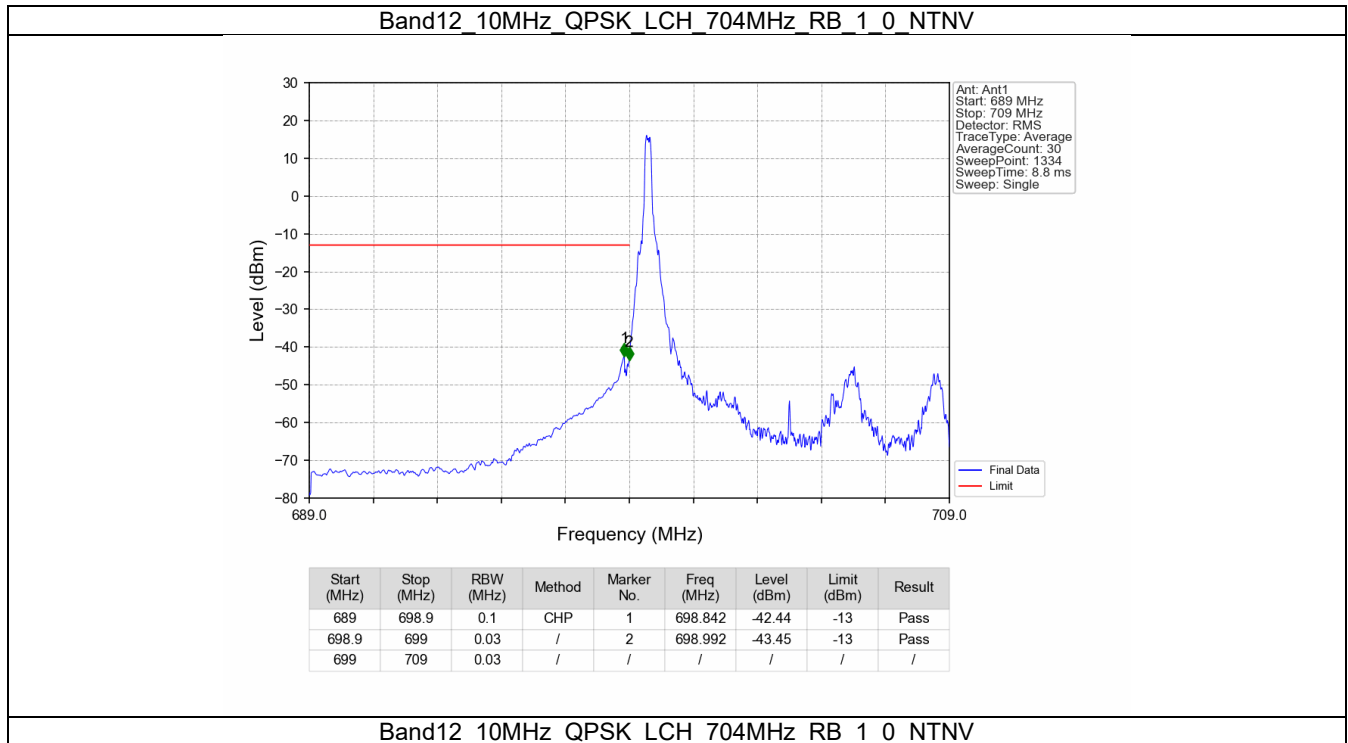


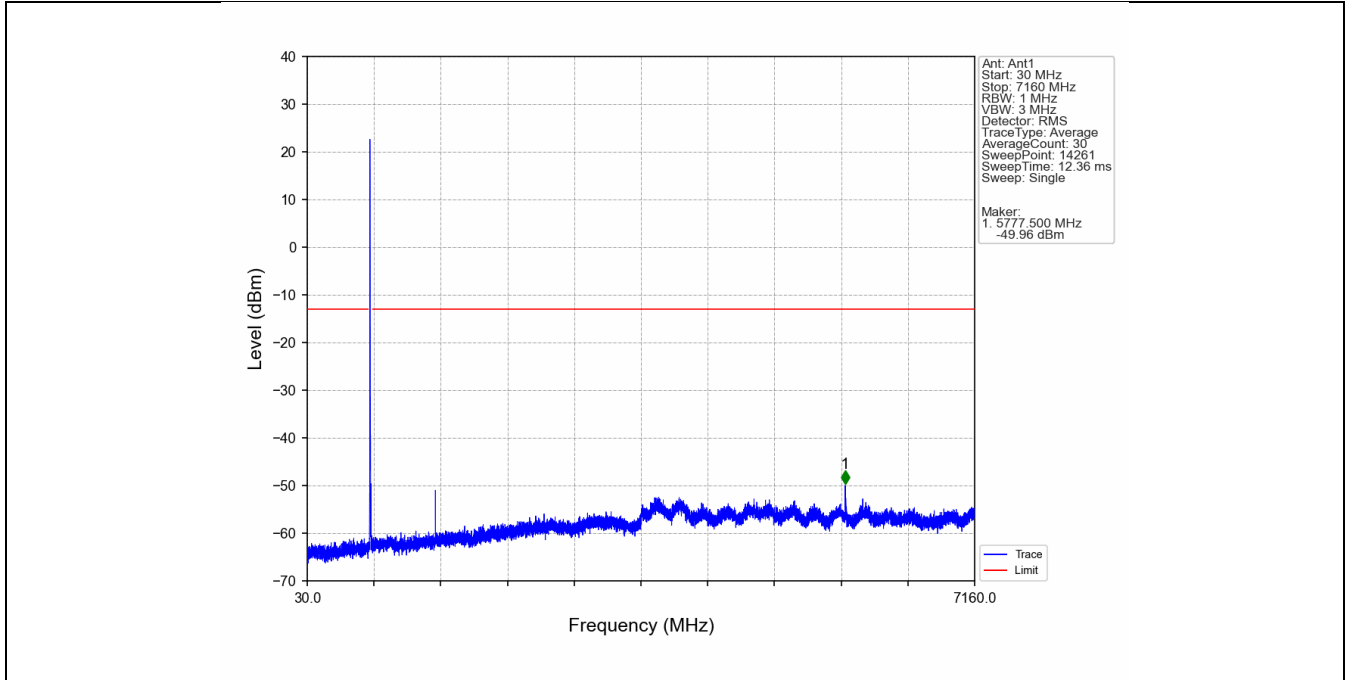
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



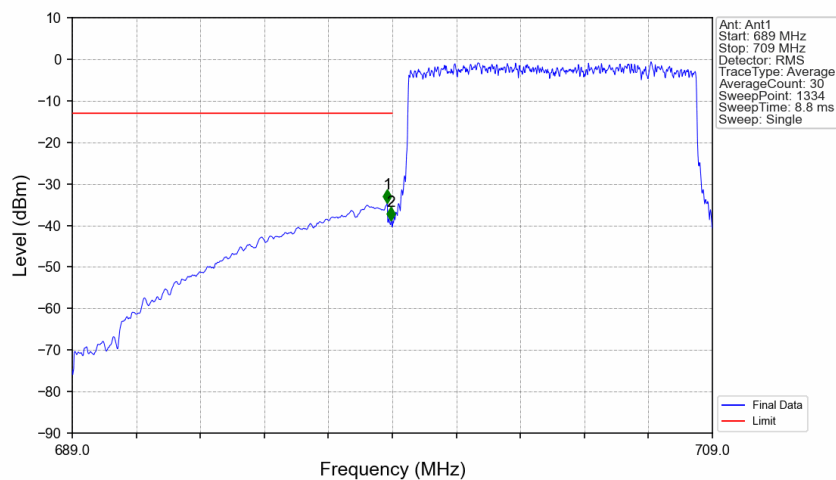
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.020    | -33.55      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.210    | -33.33      | -13         | Pass   |

## 5.2.4 B12\_10MHz



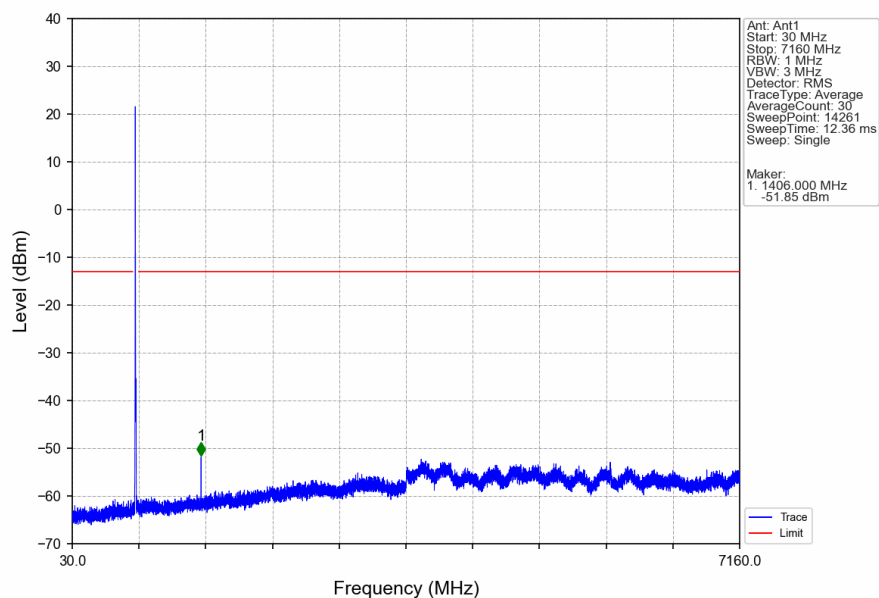


## Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV

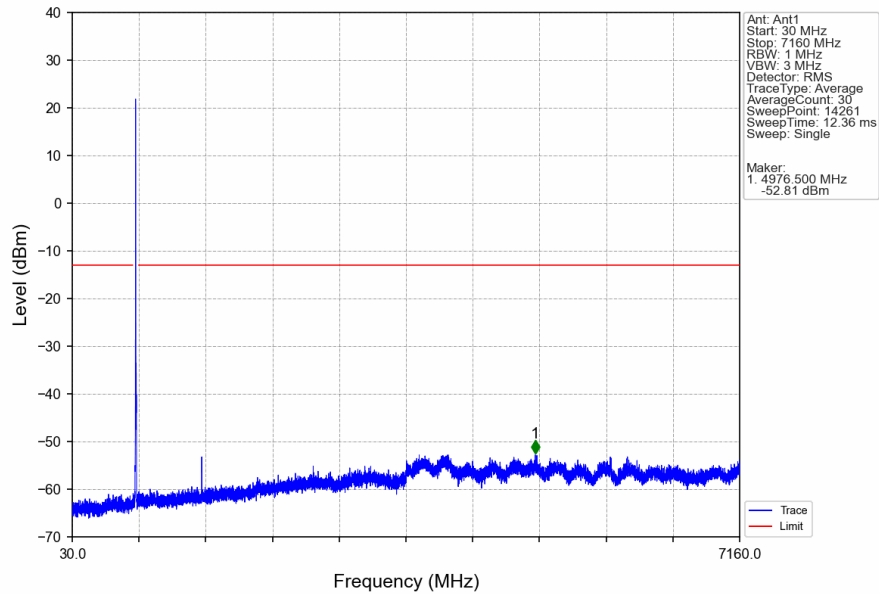


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 689         | 698.9      | 0.1       | CHP    | 1          | 698.842    | -34.57      | -13         | Pass   |
| 698.9       | 699        | 0.03      | /      | 2          | 698.962    | -38.70      | -13         | Pass   |
| 699         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

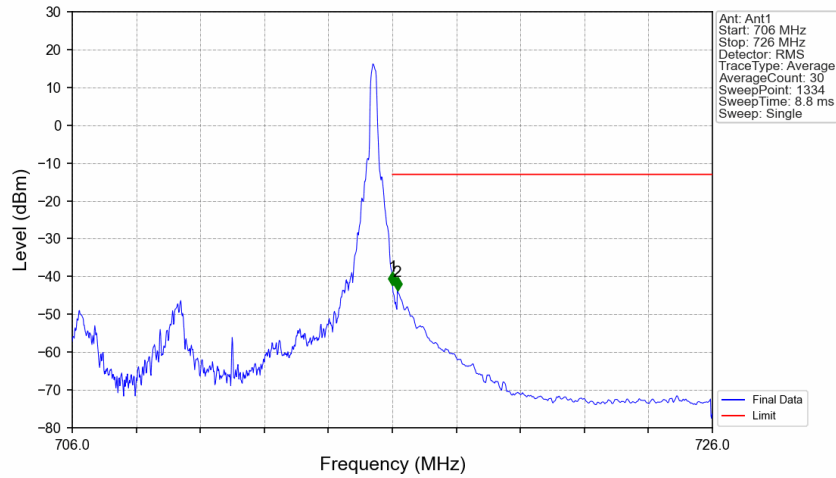
## Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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



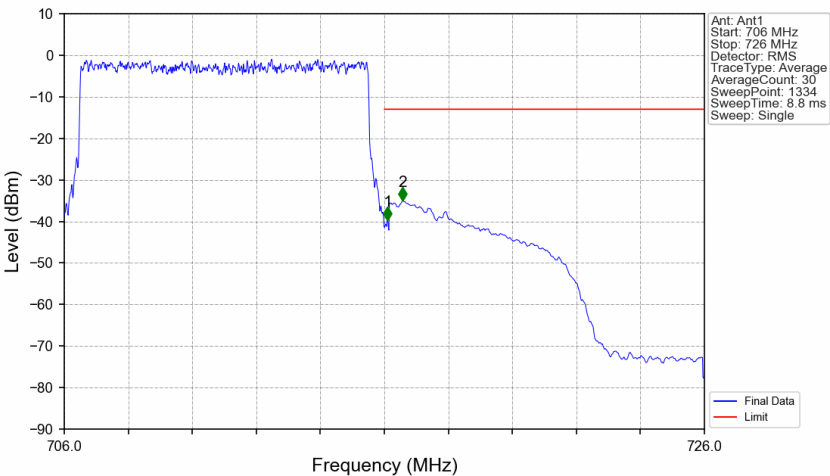
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.008    | -42.28      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -43.69      | -13         | Pass   |



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



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.098    | -39.59      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.578    | -34.99      | -13         | Pass   |



## 6. Frequency Stability (IC)

### 6.1 Test Result

#### 6.1.1 B12\_10MHz

| Band: 12 / Bandwidth: 10MHz / NTVN |                 |               |        |            |               |                     |         |            |         |
|------------------------------------|-----------------|---------------|--------|------------|---------------|---------------------|---------|------------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | OBW (FL - FH) (MHz) |         | Limit      | Verdict |
|                                    |                 | Size          | Offset |            |               | FL                  | FH      |            |         |
| QPSK                               | 707.5           | 50            | 0      | 20         | 3.27          | 702.974             | 712.006 | 698 to 716 | Pass    |
|                                    |                 |               |        |            | 3.85          | 702.964             | 712.007 | 698 to 716 | Pass    |
|                                    |                 |               |        |            | 4.43          | 702.969             | 712.036 | 698 to 716 | Pass    |
|                                    |                 |               |        | -30        | 3.85          | 702.979             | 712.004 | 698 to 716 | Pass    |
|                                    |                 |               |        | -20        | 3.85          | 702.946             | 712.016 | 698 to 716 | Pass    |
|                                    |                 |               |        | -10        | 3.85          | 702.941             | 712.019 | 698 to 716 | Pass    |
|                                    |                 |               |        | 0          | 3.85          | 702.957             | 712.023 | 698 to 716 | Pass    |
|                                    |                 |               |        | 10         | 3.85          | 702.970             | 712.026 | 698 to 716 | Pass    |
|                                    |                 |               |        | 30         | 3.85          | 702.974             | 712.016 | 698 to 716 | Pass    |
|                                    |                 |               |        | 40         | 3.85          | 702.946             | 712.024 | 698 to 716 | Pass    |
|                                    |                 |               |        | 50         | 3.85          | 702.985             | 712.025 | 698 to 716 | Pass    |

---End of Attachment---