

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B42a\_5MHz\_EIRP

| Band: 42a / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |            |       |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                               | 3452.5          | 1             | 0      | 22.85                 | -0.70      | 22.15      | <=30  | Pass    |
|                                    |                 |               | 13     | 22.80                 | -0.70      | 22.10      | <=30  | Pass    |
|                                    |                 |               | 24     | 22.69                 | -0.70      | 21.99      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 21.81                 | -0.70      | 21.11      | <=30  | Pass    |
|                                    |                 |               | 6      | 21.89                 | -0.70      | 21.19      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.86                 | -0.70      | 21.16      | <=30  | Pass    |
|                                    |                 | 25            | 0      | 21.84                 | -0.70      | 21.14      | <=30  | Pass    |
|                                    | 3500            | 1             | 0      | 23.86                 | -0.70      | 23.16      | <=30  | Pass    |
|                                    |                 |               | 13     | 22.33                 | -0.70      | 21.63      | <=30  | Pass    |
|                                    |                 |               | 24     | 22.51                 | -0.70      | 21.81      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 21.96                 | -0.70      | 21.26      | <=30  | Pass    |
|                                    |                 |               | 6      | 21.93                 | -0.70      | 21.23      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.78                 | -0.70      | 21.08      | <=30  | Pass    |
|                                    |                 | 25            | 0      | 21.77                 | -0.70      | 21.07      | <=30  | Pass    |
|                                    | 3547.5          | 1             | 0      | 21.72                 | -0.70      | 21.02      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.73                 | -0.70      | 21.03      | <=30  | Pass    |
|                                    |                 |               | 24     | 21.86                 | -0.70      | 21.16      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 19.80                 | -0.70      | 19.10      | <=30  | Pass    |
|                                    |                 |               | 6      | 19.97                 | -0.70      | 19.27      | <=30  | Pass    |
|                                    |                 |               | 13     | 20.26                 | -0.70      | 19.56      | <=30  | Pass    |
|                                    |                 | 25            | 0      | 20.18                 | -0.70      | 19.48      | <=30  | Pass    |
| 16QAM                              | 3452.5          | 1             | 0      | 21.67                 | -0.70      | 20.97      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.85                 | -0.70      | 21.15      | <=30  | Pass    |
|                                    |                 |               | 24     | 21.51                 | -0.70      | 20.81      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 20.88                 | -0.70      | 20.18      | <=30  | Pass    |
|                                    |                 |               | 6      | 20.83                 | -0.70      | 20.13      | <=30  | Pass    |
|                                    |                 |               | 13     | 20.85                 | -0.70      | 20.15      | <=30  | Pass    |
|                                    |                 | 25            | 0      | 20.88                 | -0.70      | 20.18      | <=30  | Pass    |
|                                    | 3500            | 1             | 0      | 21.95                 | -0.70      | 21.25      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.64                 | -0.70      | 20.94      | <=30  | Pass    |
|                                    |                 |               | 24     | 21.93                 | -0.70      | 21.23      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 21.39                 | -0.70      | 20.69      | <=30  | Pass    |
|                                    |                 |               | 6      | 21.43                 | -0.70      | 20.73      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.21                 | -0.70      | 20.51      | <=30  | Pass    |
|                                    |                 | 25            | 0      | 21.29                 | -0.70      | 20.59      | <=30  | Pass    |
|                                    | 3547.5          | 1             | 0      | 19.86                 | -0.70      | 19.16      | <=30  | Pass    |
|                                    |                 |               | 13     | 19.97                 | -0.70      | 19.27      | <=30  | Pass    |
|                                    |                 |               | 24     | 20.17                 | -0.70      | 19.47      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 19.30                 | -0.70      | 18.60      | <=30  | Pass    |
|                                    |                 |               | 6      | 19.30                 | -0.70      | 18.60      | <=30  | Pass    |
|                                    |                 |               | 13     | 19.28                 | -0.70      | 18.58      | <=30  | Pass    |
|                                    |                 | 25            | 0      | 19.55                 | -0.70      | 18.85      | <=30  | Pass    |
| 64QAM                              | 3452.5          | 1             | 0      | 21.25                 | -0.70      | 20.55      | <=30  | Pass    |
|                                    |                 |               | 13     | 21.56                 | -0.70      | 20.86      | <=30  | Pass    |
|                                    |                 |               | 24     | 21.61                 | -0.70      | 20.91      | <=30  | Pass    |
|                                    |                 | 12            | 0      | 20.35                 | -0.70      | 19.65      | <=30  | Pass    |

|                                          |        |        |        |       |       |       |       |       |      |      |
|------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|------|------|
|                                          |        |        | 6      | 20.28 | -0.70 | 19.58 | <=30  | Pass  |      |      |
|                                          |        |        | 13     | 20.27 | -0.70 | 19.57 | <=30  | Pass  |      |      |
|                                          |        | 25     | 0      | 20.24 | -0.70 | 19.54 | <=30  | Pass  |      |      |
|                                          | 3500   | 1      | 0      | 21.88 | -0.70 | 21.18 | <=30  | Pass  |      |      |
|                                          |        |        | 13     | 22.00 | -0.70 | 21.30 | <=30  | Pass  |      |      |
|                                          |        |        | 24     | 21.55 | -0.70 | 20.85 | <=30  | Pass  |      |      |
|                                          |        | 12     | 0      | 21.58 | -0.70 | 20.88 | <=30  | Pass  |      |      |
|                                          |        |        | 6      | 21.46 | -0.70 | 20.76 | <=30  | Pass  |      |      |
|                                          |        |        | 13     | 21.16 | -0.70 | 20.46 | <=30  | Pass  |      |      |
|                                          |        | 25     | 0      | 21.31 | -0.70 | 20.61 | <=30  | Pass  |      |      |
|                                          |        | 3547.5 | 1      | 0     | 19.70 | -0.70 | 19.00 | <=30  | Pass |      |
|                                          |        |        |        | 13    | 20.21 | -0.70 | 19.51 | <=30  | Pass |      |
|                                          | 24     |        |        | 20.05 | -0.70 | 19.35 | <=30  | Pass  |      |      |
|                                          | 12     |        | 0      | 19.47 | -0.70 | 18.77 | <=30  | Pass  |      |      |
|                                          |        |        | 6      | 19.56 | -0.70 | 18.86 | <=30  | Pass  |      |      |
|                                          |        |        | 13     | 19.50 | -0.70 | 18.80 | <=30  | Pass  |      |      |
|                                          | 25     |        | 0      | 19.61 | -0.70 | 18.91 | <=30  | Pass  |      |      |
|                                          | 256QAM |        | 3452.5 | 1     | 0     | 17.63 | -0.70 | 16.93 | <=30 | Pass |
| 13                                       |        |        |        |       | 17.79 | -0.70 | 17.09 | <=30  | Pass |      |
| 24                                       |        | 17.75  |        |       | -0.70 | 17.05 | <=30  | Pass  |      |      |
| 12                                       |        | 0      |        | 17.83 | -0.70 | 17.13 | <=30  | Pass  |      |      |
|                                          |        | 6      |        | 17.86 | -0.70 | 17.16 | <=30  | Pass  |      |      |
|                                          |        | 13     |        | 17.94 | -0.70 | 17.24 | <=30  | Pass  |      |      |
| 25                                       |        | 0      |        | 17.88 | -0.70 | 17.18 | <=30  | Pass  |      |      |
| 3500                                     |        | 1      |        | 0     | 18.77 | -0.70 | 18.07 | <=30  | Pass |      |
|                                          |        |        |        | 13    | 18.83 | -0.70 | 18.13 | <=30  | Pass |      |
|                                          |        |        | 24     | 18.57 | -0.70 | 17.87 | <=30  | Pass  |      |      |
|                                          |        | 12     | 0      | 18.80 | -0.70 | 18.10 | <=30  | Pass  |      |      |
|                                          |        |        | 6      | 18.94 | -0.70 | 18.24 | <=30  | Pass  |      |      |
|                                          |        |        | 13     | 18.72 | -0.70 | 18.02 | <=30  | Pass  |      |      |
|                                          |        | 25     | 0      | 18.76 | -0.70 | 18.06 | <=30  | Pass  |      |      |
|                                          |        | 3547.5 | 1      | 0     | 17.47 | -0.70 | 16.77 | <=30  | Pass |      |
|                                          |        |        |        | 13    | 17.56 | -0.70 | 16.86 | <=30  | Pass |      |
| 24                                       |        |        |        | 17.49 | -0.70 | 16.79 | <=30  | Pass  |      |      |
| 12                                       |        |        | 0      | 17.62 | -0.70 | 16.92 | <=30  | Pass  |      |      |
|                                          |        |        | 6      | 17.66 | -0.70 | 16.96 | <=30  | Pass  |      |      |
|                                          |        |        | 13     | 17.61 | -0.70 | 16.91 | <=30  | Pass  |      |      |
| 25                                       |        |        | 0      | 17.74 | -0.70 | 17.04 | <=30  | Pass  |      |      |
| Note1: EIRP=Conducted Power+Antenna Gain |        |        |        |       |       |       |       |       |      |      |

### 1.1.2 B42a\_10MHz\_EIRP

| Band: 42a / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |            |       |         |
|-------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                     |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                | 3455            | 1             | 0      | 22.69                 | -0.70      | 21.99      | <=30  | Pass    |
|                                     |                 |               | 25     | 21.75                 | -0.70      | 21.05      | <=30  | Pass    |
|                                     |                 |               | 49     | 21.71                 | -0.70      | 21.01      | <=30  | Pass    |
|                                     |                 | 25            | 0      | 21.04                 | -0.70      | 20.34      | <=30  | Pass    |
|                                     |                 |               | 13     | 20.98                 | -0.70      | 20.28      | <=30  | Pass    |
|                                     |                 |               | 25     | 20.98                 | -0.70      | 20.28      | <=30  | Pass    |
|                                     |                 | 50            | 0      | 20.99                 | -0.70      | 20.29      | <=30  | Pass    |
|                                     | 3500            | 1             | 0      | 22.61                 | -0.70      | 21.91      | <=30  | Pass    |
|                                     |                 |               | 25     | 22.41                 | -0.70      | 21.71      | <=30  | Pass    |
|                                     |                 |               | 49     | 22.35                 | -0.70      | 21.65      | <=30  | Pass    |

|        |      |    |    |       |       |       |      |      |
|--------|------|----|----|-------|-------|-------|------|------|
|        |      | 25 | 0  | 21.88 | -0.70 | 21.18 | <=30 | Pass |
|        |      |    | 13 | 22.04 | -0.70 | 21.34 | <=30 | Pass |
|        |      |    | 25 | 21.84 | -0.70 | 21.14 | <=30 | Pass |
|        |      | 50 | 0  | 21.84 | -0.70 | 21.14 | <=30 | Pass |
|        | 3545 | 1  | 0  | 21.75 | -0.70 | 21.05 | <=30 | Pass |
|        |      |    | 25 | 21.83 | -0.70 | 21.13 | <=30 | Pass |
|        |      |    | 49 | 20.64 | -0.70 | 19.94 | <=30 | Pass |
|        |      | 25 | 0  | 20.28 | -0.70 | 19.58 | <=30 | Pass |
|        |      |    | 13 | 20.32 | -0.70 | 19.62 | <=30 | Pass |
|        |      |    | 25 | 20.23 | -0.70 | 19.53 | <=30 | Pass |
|        |      | 50 | 0  | 20.32 | -0.70 | 19.62 | <=30 | Pass |
|        |      | 1  | 0  | 20.95 | -0.70 | 20.25 | <=30 | Pass |
|        |      |    | 25 | 21.14 | -0.70 | 20.44 | <=30 | Pass |
|        |      |    | 49 | 21.13 | -0.70 | 20.43 | <=30 | Pass |
| 16QAM  | 3455 | 1  | 0  | 20.95 | -0.70 | 20.25 | <=30 | Pass |
|        |      |    | 25 | 21.14 | -0.70 | 20.44 | <=30 | Pass |
|        |      |    | 49 | 21.13 | -0.70 | 20.43 | <=30 | Pass |
|        |      | 25 | 0  | 20.41 | -0.70 | 19.71 | <=30 | Pass |
|        |      |    | 13 | 20.23 | -0.70 | 19.53 | <=30 | Pass |
|        |      |    | 25 | 20.43 | -0.70 | 19.73 | <=30 | Pass |
|        |      | 50 | 0  | 20.50 | -0.70 | 19.80 | <=30 | Pass |
|        | 3500 | 1  | 0  | 21.83 | -0.70 | 21.13 | <=30 | Pass |
|        |      |    | 25 | 21.56 | -0.70 | 20.86 | <=30 | Pass |
|        |      |    | 49 | 21.67 | -0.70 | 20.97 | <=30 | Pass |
|        |      | 25 | 0  | 21.38 | -0.70 | 20.68 | <=30 | Pass |
|        |      |    | 13 | 21.42 | -0.70 | 20.72 | <=30 | Pass |
|        |      |    | 25 | 21.03 | -0.70 | 20.33 | <=30 | Pass |
|        |      | 50 | 0  | 21.38 | -0.70 | 20.68 | <=30 | Pass |
|        | 3545 | 1  | 0  | 20.12 | -0.70 | 19.42 | <=30 | Pass |
|        |      |    | 25 | 20.17 | -0.70 | 19.47 | <=30 | Pass |
|        |      |    | 49 | 20.20 | -0.70 | 19.50 | <=30 | Pass |
|        |      | 25 | 0  | 19.54 | -0.70 | 18.84 | <=30 | Pass |
|        |      |    | 13 | 19.67 | -0.70 | 18.97 | <=30 | Pass |
|        |      |    | 25 | 19.52 | -0.70 | 18.82 | <=30 | Pass |
|        |      | 50 | 0  | 19.57 | -0.70 | 18.87 | <=30 | Pass |
| 64QAM  | 3455 | 1  | 0  | 20.77 | -0.70 | 20.07 | <=30 | Pass |
|        |      |    | 25 | 20.95 | -0.70 | 20.25 | <=30 | Pass |
|        |      |    | 49 | 21.16 | -0.70 | 20.46 | <=30 | Pass |
|        |      | 25 | 0  | 20.42 | -0.70 | 19.72 | <=30 | Pass |
|        |      |    | 13 | 20.41 | -0.70 | 19.71 | <=30 | Pass |
|        |      |    | 25 | 20.56 | -0.70 | 19.86 | <=30 | Pass |
|        |      | 50 | 0  | 20.48 | -0.70 | 19.78 | <=30 | Pass |
|        | 3500 | 1  | 0  | 21.68 | -0.70 | 20.98 | <=30 | Pass |
|        |      |    | 25 | 21.96 | -0.70 | 21.26 | <=30 | Pass |
|        |      |    | 49 | 22.06 | -0.70 | 21.36 | <=30 | Pass |
|        |      | 25 | 0  | 21.41 | -0.70 | 20.71 | <=30 | Pass |
|        |      |    | 13 | 21.39 | -0.70 | 20.69 | <=30 | Pass |
|        |      |    | 25 | 21.20 | -0.70 | 20.50 | <=30 | Pass |
|        |      | 50 | 0  | 21.36 | -0.70 | 20.66 | <=30 | Pass |
|        | 3545 | 1  | 0  | 19.88 | -0.70 | 19.18 | <=30 | Pass |
|        |      |    | 25 | 20.03 | -0.70 | 19.33 | <=30 | Pass |
|        |      |    | 49 | 19.95 | -0.70 | 19.25 | <=30 | Pass |
|        |      | 25 | 0  | 19.57 | -0.70 | 18.87 | <=30 | Pass |
|        |      |    | 13 | 19.59 | -0.70 | 18.89 | <=30 | Pass |
|        |      |    | 25 | 19.48 | -0.70 | 18.78 | <=30 | Pass |
|        |      | 50 | 0  | 19.54 | -0.70 | 18.84 | <=30 | Pass |
| 256QAM | 3455 | 1  | 0  | 17.82 | -0.70 | 17.12 | <=30 | Pass |
|        |      |    | 25 | 17.81 | -0.70 | 17.11 | <=30 | Pass |
|        |      |    | 49 | 18.05 | -0.70 | 17.35 | <=30 | Pass |
|        |      | 25 | 0  | 17.83 | -0.70 | 17.13 | <=30 | Pass |

|  |      |    |    |       |       |       |      |      |
|--|------|----|----|-------|-------|-------|------|------|
|  |      | 50 | 13 | 17.99 | -0.70 | 17.29 | <=30 | Pass |
|  |      |    | 25 | 18.03 | -0.70 | 17.33 | <=30 | Pass |
|  |      |    | 0  | 17.95 | -0.70 | 17.25 | <=30 | Pass |
|  | 3500 | 1  | 0  | 18.84 | -0.70 | 18.14 | <=30 | Pass |
|  |      |    | 25 | 18.97 | -0.70 | 18.27 | <=30 | Pass |
|  |      |    | 49 | 18.58 | -0.70 | 17.88 | <=30 | Pass |
|  |      | 25 | 0  | 18.94 | -0.70 | 18.24 | <=30 | Pass |
|  |      |    | 13 | 18.93 | -0.70 | 18.23 | <=30 | Pass |
|  |      |    | 25 | 18.63 | -0.70 | 17.93 | <=30 | Pass |
|  |      | 50 | 0  | 18.86 | -0.70 | 18.16 | <=30 | Pass |
|  | 3545 | 1  | 0  | 17.55 | -0.70 | 16.85 | <=30 | Pass |
|  |      |    | 25 | 17.49 | -0.70 | 16.79 | <=30 | Pass |
|  |      |    | 49 | 17.60 | -0.70 | 16.90 | <=30 | Pass |
|  |      | 25 | 0  | 17.64 | -0.70 | 16.94 | <=30 | Pass |
|  |      |    | 13 | 17.70 | -0.70 | 17.00 | <=30 | Pass |
|  |      |    | 25 | 17.62 | -0.70 | 16.92 | <=30 | Pass |
|  |      | 50 | 0  | 17.65 | -0.70 | 16.95 | <=30 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.3 B42a\_15MHz\_EIRP

| Band: 42a / Bandwidth: 15MHz / NTNV |                 |               |        |                       |            |            |       |         |
|-------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                     |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                | 3457.5          | 1             | 0      | 22.54                 | -0.70      | 21.84      | <=30  | Pass    |
|                                     |                 |               | 38     | 21.46                 | -0.70      | 20.76      | <=30  | Pass    |
|                                     |                 |               | 74     | 21.47                 | -0.70      | 20.77      | <=30  | Pass    |
|                                     |                 | 36            | 0      | 20.87                 | -0.70      | 20.17      | <=30  | Pass    |
|                                     |                 |               | 18     | 21.00                 | -0.70      | 20.30      | <=30  | Pass    |
|                                     |                 |               | 39     | 21.08                 | -0.70      | 20.38      | <=30  | Pass    |
|                                     |                 | 75            | 0      | 20.84                 | -0.70      | 20.14      | <=30  | Pass    |
|                                     | 3500            | 1             | 0      | 22.36                 | -0.70      | 21.66      | <=30  | Pass    |
|                                     |                 |               | 38     | 22.45                 | -0.70      | 21.75      | <=30  | Pass    |
|                                     |                 |               | 74     | 22.15                 | -0.70      | 21.45      | <=30  | Pass    |
|                                     |                 | 36            | 0      | 21.76                 | -0.70      | 21.06      | <=30  | Pass    |
|                                     |                 |               | 18     | 21.80                 | -0.70      | 21.10      | <=30  | Pass    |
|                                     |                 |               | 39     | 21.74                 | -0.70      | 21.04      | <=30  | Pass    |
|                                     |                 | 75            | 0      | 21.68                 | -0.70      | 20.98      | <=30  | Pass    |
|                                     | 3542.5          | 1             | 0      | 22.57                 | -0.70      | 21.87      | <=30  | Pass    |
|                                     |                 |               | 38     | 21.31                 | -0.70      | 20.61      | <=30  | Pass    |
|                                     |                 |               | 74     | 20.72                 | -0.70      | 20.02      | <=30  | Pass    |
|                                     |                 | 36            | 0      | 20.12                 | -0.70      | 19.42      | <=30  | Pass    |
|                                     |                 |               | 18     | 20.01                 | -0.70      | 19.31      | <=30  | Pass    |
|                                     |                 |               | 39     | 20.00                 | -0.70      | 19.30      | <=30  | Pass    |
|                                     |                 | 75            | 0      | 19.98                 | -0.70      | 19.28      | <=30  | Pass    |
| 16QAM                               | 3457.5          | 1             | 0      | 20.54                 | -0.70      | 19.84      | <=30  | Pass    |
|                                     |                 |               | 38     | 20.70                 | -0.70      | 20.00      | <=30  | Pass    |
|                                     |                 |               | 74     | 21.17                 | -0.70      | 20.47      | <=30  | Pass    |
|                                     |                 | 36            | 0      | 20.43                 | -0.70      | 19.73      | <=30  | Pass    |
|                                     |                 |               | 18     | 20.37                 | -0.70      | 19.67      | <=30  | Pass    |
|                                     |                 |               | 39     | 20.39                 | -0.70      | 19.69      | <=30  | Pass    |
|                                     |                 | 75            | 0      | 20.46                 | -0.70      | 19.76      | <=30  | Pass    |
|                                     | 3500            | 1             | 0      | 21.70                 | -0.70      | 21.00      | <=30  | Pass    |
|                                     |                 |               | 38     | 21.78                 | -0.70      | 21.08      | <=30  | Pass    |
|                                     |                 |               | 74     | 21.22                 | -0.70      | 20.52      | <=30  | Pass    |

|                                          |        |        |    |       |       |       |       |      |
|------------------------------------------|--------|--------|----|-------|-------|-------|-------|------|
|                                          |        | 36     | 0  | 20.91 | -0.70 | 20.21 | <=30  | Pass |
|                                          |        |        | 18 | 21.13 | -0.70 | 20.43 | <=30  | Pass |
|                                          |        |        | 39 | 21.04 | -0.70 | 20.34 | <=30  | Pass |
|                                          |        | 75     | 0  | 21.12 | -0.70 | 20.42 | <=30  | Pass |
|                                          | 3542.5 | 1      | 0  | 19.96 | -0.70 | 19.26 | <=30  | Pass |
|                                          |        |        | 38 | 20.07 | -0.70 | 19.37 | <=30  | Pass |
|                                          |        |        | 74 | 20.10 | -0.70 | 19.40 | <=30  | Pass |
|                                          |        | 36     | 0  | 19.45 | -0.70 | 18.75 | <=30  | Pass |
|                                          |        |        | 18 | 19.38 | -0.70 | 18.68 | <=30  | Pass |
|                                          |        |        | 39 | 19.33 | -0.70 | 18.63 | <=30  | Pass |
|                                          |        | 75     | 0  | 19.24 | -0.70 | 18.54 | <=30  | Pass |
| 64QAM                                    |        | 3457.5 | 1  | 0     | 20.59 | -0.70 | 19.89 | <=30 |
|                                          | 38     |        |    | 20.71 | -0.70 | 20.01 | <=30  | Pass |
|                                          | 74     |        |    | 20.82 | -0.70 | 20.12 | <=30  | Pass |
|                                          | 36     |        | 0  | 20.23 | -0.70 | 19.53 | <=30  | Pass |
|                                          |        |        | 18 | 20.38 | -0.70 | 19.68 | <=30  | Pass |
|                                          |        |        | 39 | 20.46 | -0.70 | 19.76 | <=30  | Pass |
|                                          | 75     |        | 0  | 20.29 | -0.70 | 19.59 | <=30  | Pass |
|                                          | 3500   | 1      | 0  | 21.51 | -0.70 | 20.81 | <=30  | Pass |
|                                          |        |        | 38 | 21.70 | -0.70 | 21.00 | <=30  | Pass |
|                                          |        |        | 74 | 21.03 | -0.70 | 20.33 | <=30  | Pass |
|                                          |        | 36     | 0  | 21.05 | -0.70 | 20.35 | <=30  | Pass |
|                                          |        |        | 18 | 21.00 | -0.70 | 20.30 | <=30  | Pass |
|                                          |        |        | 39 | 21.14 | -0.70 | 20.44 | <=30  | Pass |
|                                          |        | 75     | 0  | 21.08 | -0.70 | 20.38 | <=30  | Pass |
|                                          | 3542.5 | 1      | 0  | 19.99 | -0.70 | 19.29 | <=30  | Pass |
|                                          |        |        | 38 | 19.99 | -0.70 | 19.29 | <=30  | Pass |
|                                          |        |        | 74 | 19.40 | -0.70 | 18.70 | <=30  | Pass |
|                                          |        | 36     | 0  | 18.94 | -0.70 | 18.24 | <=30  | Pass |
|                                          |        |        | 18 | 19.47 | -0.70 | 18.77 | <=30  | Pass |
|                                          |        |        | 39 | 19.21 | -0.70 | 18.51 | <=30  | Pass |
|                                          |        | 75     | 0  | 19.45 | -0.70 | 18.75 | <=30  | Pass |
| 256QAM                                   | 3457.5 | 1      | 0  | 17.50 | -0.70 | 16.80 | <=30  | Pass |
|                                          |        |        | 38 | 17.78 | -0.70 | 17.08 | <=30  | Pass |
|                                          |        |        | 74 | 17.92 | -0.70 | 17.22 | <=30  | Pass |
|                                          |        | 36     | 0  | 17.76 | -0.70 | 17.06 | <=30  | Pass |
|                                          |        |        | 18 | 17.82 | -0.70 | 17.12 | <=30  | Pass |
|                                          |        |        | 39 | 17.96 | -0.70 | 17.26 | <=30  | Pass |
|                                          |        | 75     | 0  | 17.87 | -0.70 | 17.17 | <=30  | Pass |
|                                          | 3500   | 1      | 0  | 18.57 | -0.70 | 17.87 | <=30  | Pass |
|                                          |        |        | 38 | 18.60 | -0.70 | 17.90 | <=30  | Pass |
|                                          |        |        | 74 | 18.42 | -0.70 | 17.72 | <=30  | Pass |
|                                          |        | 36     | 0  | 18.65 | -0.70 | 17.95 | <=30  | Pass |
|                                          |        |        | 18 | 18.64 | -0.70 | 17.94 | <=30  | Pass |
|                                          |        |        | 39 | 18.52 | -0.70 | 17.82 | <=30  | Pass |
|                                          |        | 75     | 0  | 18.60 | -0.70 | 17.90 | <=30  | Pass |
|                                          | 3542.5 | 1      | 0  | 17.37 | -0.70 | 16.67 | <=30  | Pass |
|                                          |        |        | 38 | 17.47 | -0.70 | 16.77 | <=30  | Pass |
|                                          |        |        | 74 | 17.14 | -0.70 | 16.44 | <=30  | Pass |
|                                          |        | 36     | 0  | 17.50 | -0.70 | 16.80 | <=30  | Pass |
|                                          |        |        | 18 | 17.55 | -0.70 | 16.85 | <=30  | Pass |
|                                          |        |        | 39 | 17.33 | -0.70 | 16.63 | <=30  | Pass |
|                                          |        | 75     | 0  | 17.55 | -0.70 | 16.85 | <=30  | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain |        |        |    |       |       |       |       |      |

### 1.1.4 B42a\_20MHz\_EIRP

| Band: 42a / Bandwidth: 20MHz / NTN |                 |               |        |                       |            |            |       |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                               | 3460            | 1             | 0      | 22.37                 | -0.70      | 21.67      | <=30  | Pass    |
|                                    |                 |               | 50     | 22.58                 | -0.70      | 21.88      | <=30  | Pass    |
|                                    |                 |               | 99     | 21.60                 | -0.70      | 20.90      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 20.93                 | -0.70      | 20.23      | <=30  | Pass    |
|                                    |                 |               | 25     | 21.09                 | -0.70      | 20.39      | <=30  | Pass    |
|                                    |                 |               | 50     | 21.21                 | -0.70      | 20.51      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 21.09                 | -0.70      | 20.39      | <=30  | Pass    |
|                                    | 3500            | 1             | 0      | 23.63                 | -0.70      | 22.93      | <=30  | Pass    |
|                                    |                 |               | 50     | 22.40                 | -0.70      | 21.70      | <=30  | Pass    |
|                                    |                 |               | 99     | 22.21                 | -0.70      | 21.51      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 21.90                 | -0.70      | 21.20      | <=30  | Pass    |
|                                    |                 |               | 25     | 21.52                 | -0.70      | 20.82      | <=30  | Pass    |
|                                    |                 |               | 50     | 21.68                 | -0.70      | 20.98      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 21.68                 | -0.70      | 20.98      | <=30  | Pass    |
|                                    | 3540            | 1             | 0      | 21.19                 | -0.70      | 20.49      | <=30  | Pass    |
|                                    |                 |               | 50     | 21.55                 | -0.70      | 20.85      | <=30  | Pass    |
|                                    |                 |               | 99     | 21.21                 | -0.70      | 20.51      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 19.73                 | -0.70      | 19.03      | <=30  | Pass    |
|                                    |                 |               | 25     | 19.83                 | -0.70      | 19.13      | <=30  | Pass    |
|                                    |                 |               | 50     | 19.65                 | -0.70      | 18.95      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 19.83                 | -0.70      | 19.13      | <=30  | Pass    |
| 16QAM                              | 3460            | 1             | 0      | 20.75                 | -0.70      | 20.05      | <=30  | Pass    |
|                                    |                 |               | 50     | 20.85                 | -0.70      | 20.15      | <=30  | Pass    |
|                                    |                 |               | 99     | 21.17                 | -0.70      | 20.47      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 20.29                 | -0.70      | 19.59      | <=30  | Pass    |
|                                    |                 |               | 25     | 20.39                 | -0.70      | 19.69      | <=30  | Pass    |
|                                    |                 |               | 50     | 20.53                 | -0.70      | 19.83      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 20.43                 | -0.70      | 19.73      | <=30  | Pass    |
|                                    | 3500            | 1             | 0      | 21.48                 | -0.70      | 20.78      | <=30  | Pass    |
|                                    |                 |               | 50     | 21.45                 | -0.70      | 20.75      | <=30  | Pass    |
|                                    |                 |               | 99     | 21.50                 | -0.70      | 20.80      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 21.09                 | -0.70      | 20.39      | <=30  | Pass    |
|                                    |                 |               | 25     | 21.05                 | -0.70      | 20.35      | <=30  | Pass    |
|                                    |                 |               | 50     | 21.04                 | -0.70      | 20.34      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 21.17                 | -0.70      | 20.47      | <=30  | Pass    |
|                                    | 3540            | 1             | 0      | 19.34                 | -0.70      | 18.64      | <=30  | Pass    |
|                                    |                 |               | 50     | 19.66                 | -0.70      | 18.96      | <=30  | Pass    |
|                                    |                 |               | 99     | 20.02                 | -0.70      | 19.32      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 19.22                 | -0.70      | 18.52      | <=30  | Pass    |
|                                    |                 |               | 25     | 19.39                 | -0.70      | 18.69      | <=30  | Pass    |
|                                    |                 |               | 50     | 18.90                 | -0.70      | 18.20      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 19.08                 | -0.70      | 18.38      | <=30  | Pass    |
| 64QAM                              | 3460            | 1             | 0      | 20.23                 | -0.70      | 19.53      | <=30  | Pass    |
|                                    |                 |               | 50     | 20.75                 | -0.70      | 20.05      | <=30  | Pass    |
|                                    |                 |               | 99     | 21.04                 | -0.70      | 20.34      | <=30  | Pass    |
|                                    |                 | 50            | 0      | 20.30                 | -0.70      | 19.60      | <=30  | Pass    |
|                                    |                 |               | 25     | 20.33                 | -0.70      | 19.63      | <=30  | Pass    |
|                                    |                 |               | 50     | 20.60                 | -0.70      | 19.90      | <=30  | Pass    |
|                                    |                 | 100           | 0      | 20.39                 | -0.70      | 19.69      | <=30  | Pass    |
|                                    | 3500            | 1             | 0      | 21.51                 | -0.70      | 20.81      | <=30  | Pass    |
|                                    |                 |               | 50     | 21.34                 | -0.70      | 20.64      | <=30  | Pass    |

|                                          |      |        |       |       |       |       |       |       |      |      |
|------------------------------------------|------|--------|-------|-------|-------|-------|-------|-------|------|------|
|                                          |      | 50     | 99    | 21.15 | -0.70 | 20.45 | <=30  | Pass  |      |      |
|                                          |      |        | 0     | 21.11 | -0.70 | 20.41 | <=30  | Pass  |      |      |
|                                          |      |        | 25    | 21.10 | -0.70 | 20.40 | <=30  | Pass  |      |      |
|                                          |      |        | 50    | 20.99 | -0.70 | 20.29 | <=30  | Pass  |      |      |
|                                          |      | 100    | 0     | 21.09 | -0.70 | 20.39 | <=30  | Pass  |      |      |
|                                          | 3540 | 1      | 0     | 19.56 | -0.70 | 18.86 | <=30  | Pass  |      |      |
|                                          |      |        | 50    | 19.71 | -0.70 | 19.01 | <=30  | Pass  |      |      |
|                                          |      |        | 99    | 19.66 | -0.70 | 18.96 | <=30  | Pass  |      |      |
|                                          |      | 50     | 0     | 19.08 | -0.70 | 18.38 | <=30  | Pass  |      |      |
|                                          |      |        | 25    | 19.07 | -0.70 | 18.37 | <=30  | Pass  |      |      |
|                                          |      |        | 50    | 19.13 | -0.70 | 18.43 | <=30  | Pass  |      |      |
|                                          |      | 100    | 0     | 19.01 | -0.70 | 18.31 | <=30  | Pass  |      |      |
|                                          |      | 256QAM | 3460  | 1     | 0     | 17.59 | -0.70 | 16.89 | <=30 | Pass |
|                                          |      |        |       |       | 50    | 17.82 | -0.70 | 17.12 | <=30 | Pass |
|                                          | 99   |        |       |       | 17.97 | -0.70 | 17.27 | <=30  | Pass |      |
|                                          | 50   |        |       | 0     | 17.88 | -0.70 | 17.18 | <=30  | Pass |      |
| 25                                       |      |        |       | 17.96 | -0.70 | 17.26 | <=30  | Pass  |      |      |
| 50                                       |      |        |       | 18.11 | -0.70 | 17.41 | <=30  | Pass  |      |      |
| 100                                      | 0    |        | 17.92 | -0.70 | 17.22 | <=30  | Pass  |       |      |      |
| 3500                                     | 1    |        | 0     | 18.63 | -0.70 | 17.93 | <=30  | Pass  |      |      |
|                                          |      |        | 50    | 18.74 | -0.70 | 18.04 | <=30  | Pass  |      |      |
|                                          |      |        | 99    | 18.41 | -0.70 | 17.71 | <=30  | Pass  |      |      |
|                                          | 50   | 0      | 18.74 | -0.70 | 18.04 | <=30  | Pass  |       |      |      |
|                                          |      | 25     | 18.66 | -0.70 | 17.96 | <=30  | Pass  |       |      |      |
|                                          |      | 50     | 18.62 | -0.70 | 17.92 | <=30  | Pass  |       |      |      |
| 100                                      | 0    | 18.59  | -0.70 | 17.89 | <=30  | Pass  |       |       |      |      |
| 3540                                     | 1    | 0      | 17.00 | -0.70 | 16.30 | <=30  | Pass  |       |      |      |
|                                          |      | 50     | 17.47 | -0.70 | 16.77 | <=30  | Pass  |       |      |      |
|                                          |      | 99     | 17.35 | -0.70 | 16.65 | <=30  | Pass  |       |      |      |
|                                          | 50   | 0      | 17.53 | -0.70 | 16.83 | <=30  | Pass  |       |      |      |
|                                          |      | 25     | 17.54 | -0.70 | 16.84 | <=30  | Pass  |       |      |      |
|                                          |      | 50     | 17.44 | -0.70 | 16.74 | <=30  | Pass  |       |      |      |
| 100                                      | 0    | 17.53  | -0.70 | 16.83 | <=30  | Pass  |       |       |      |      |
| Note1: EIRP=Conducted Power+Antenna Gain |      |        |       |       |       |       |       |       |      |      |

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B42a\_5MHz

| Band: 42a / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 3452.5          | 25            | 0      | 20         | 3.65          | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | 0.300            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -2.600           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | 3.500            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -2.100           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -1.800           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | 1.100            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -1.100           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | 1.700            | 0.0005                | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       | 3500   | 25 | 0 | 50  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -2.700 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -4.600 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 0.400  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -4.800 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | 1.600  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|       | 3547.5 | 25 | 0 | 50  | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 6.700  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | 2.900  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | 0.600  | 0.0002  | -2.5 to 2.5 | Pass |
| 16QAM | 3452.5 | 25 | 0 | 40  | 3.87 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -1.900 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | 3.500  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | 2.000  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 5.900  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 2.900  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 1.200  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|       | 3500   | 25 | 0 | 30  | 3.87 | 2.600  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -2.600 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 1.600  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -2.300 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -3.600 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|       | 3547.5 | 25 | 0 | 10  | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -3.300 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -3.000 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 2.100  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -3.300 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 2.200  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
| 64QAM | 3452.5 | 25 | 0 | 0   | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|       | 3547.5 | 25 | 0 | 30  | 3.87 | 1.600  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       | 3452.5 | 25 | 0 | 50  | 3.87 | 2.400  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | 0.400  | 0.0001  | -2.5 to 2.5 | Pass |



|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   |     | 3.87 | 4.100  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 3.200  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -1.300 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -0.900 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 1.500  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -1.900 | -0.0006 | -2.5 to 2.5 | Pass |
|        | 3500   | 25 | 0 | 20  | 3.65 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 2.700  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 2.400  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 2.000  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 2.300  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |
|        | 3547.5 | 25 | 0 | 20  | 3.65 | 2.400  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 6.200  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 1.800  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 3.300  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 2.100  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 5.100  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -4.300 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 2.900  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 2.700  | 0.0008  | -2.5 to 2.5 | Pass |
| 256QAM | 3452.5 | 25 | 0 | 20  | 3.65 | 5.200  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 2.100  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 2.000  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -3.500 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|        | 3500   | 25 | 0 | 20  | 3.65 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 4.000  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 3.600  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 2.100  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 2.700  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 4.300  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 1.900  | 0.0005  | -2.5 to 2.5 | Pass |
|        | 3547.5 | 25 | 0 | 20  | 3.65 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 4.100  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -0.500 | -0.0001 | -2.5 to 2.5 | Pass |

|  |  |  |  |     |      |       |        |             |      |
|--|--|--|--|-----|------|-------|--------|-------------|------|
|  |  |  |  | -30 | 3.87 | 2.000 | 0.0006 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.87 | 3.900 | 0.0011 | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.87 | 2.000 | 0.0006 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.87 | 1.200 | 0.0003 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.87 | 2.200 | 0.0006 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.87 | 2.700 | 0.0008 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.87 | 0.600 | 0.0002 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.87 | 3.200 | 0.0009 | -2.5 to 2.5 | Pass |

## 2.1.2 B42a\_10MHz

| Band: 42a / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 3455            | 50            | 0      | 20         | 3.65          | -2.000           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | 2.800            | 0.0008                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | -1.000           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | -1.700           | -0.0005               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | 7.000            | 0.0020                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | -2.800           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | -0.500           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | -3.200           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | -1.000           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              | 3500            | 50            | 0      | 20         | 3.65          | 0.800            | 0.0002                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -1.600           | -0.0005               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | 0.500            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | 0.800            | 0.0002                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | 1.000            | 0.0003                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | -1.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -1.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | -1.100           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              | 3545            | 50            | 0      | 20         | 3.65          | -1.700           | -0.0005               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -1.100           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | -0.500           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -0.500           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | 1.900            | 0.0005                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | -2.200           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | -3.000           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | -1.400           | -0.0004               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -5.000           | -0.0014               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | 0.500            | 0.0001                | -2.5 to 2.5 | Pass    |
| 16QAM                        | 3455            | 50            | 0      | 20         | 3.65          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -0.700           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | 0.400            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | 2.300            | 0.0007                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | -3.900           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | 0.300            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | 1.100            | 0.0003                | -2.5 to 2.5 | Pass    |

|       |      |    |   |     |      |        |         |             |      |
|-------|------|----|---|-----|------|--------|---------|-------------|------|
|       |      |    |   | 30  | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -2.100 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       | 3500 | 50 | 0 | 20  | 3.65 | -1.900 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | 0.600  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | 0.400  | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 2.200  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | -3.700 | -0.0011 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|       | 3545 | 50 | 0 | 20  | 3.65 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -4.400 | -0.0012 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | 2.700  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -0.400 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | 3.400  | 0.0010  | -2.5 to 2.5 | Pass |
| 64QAM | 3455 | 50 | 0 | 20  | 3.65 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | 3.500  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | 0.800  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | 0.800  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | 1.600  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | 1.200  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | 1.600  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | 1.800  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|       | 3500 | 50 | 0 | 20  | 3.65 | -3.400 | -0.0010 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | -0.200 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | -2.000 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 4.400  | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | 2.900  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | 0.600  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|       | 3545 | 50 | 0 | 20  | 3.65 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -1.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | -2.800 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | 2.200  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | 3.000  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -1.900 | -0.0005 | -2.5 to 2.5 | Pass |

|        |      |    |   |     |      |        |         |             |      |
|--------|------|----|---|-----|------|--------|---------|-------------|------|
|        |      |    |   | 50  | 3.87 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
| 256QAM | 3455 | 50 | 0 | 20  | 3.65 | 3.700  | 0.0011  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 3.87 | -5.000 | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 4.45 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 3.87 | -3.300 | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 3.87 | -2.000 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|        | 3500 | 50 | 0 | 50  | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |    |   | 20  | 3.65 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 3.87 | 1.900  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 4.45 | 1.200  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 3.87 | 2.400  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 3.87 | 2.600  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 3.87 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 3.87 | 2.500  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|        | 3545 | 50 | 0 | 40  | 3.87 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 3.87 | -2.600 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 20  | 3.65 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 3.87 | -0.700 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 4.45 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 3.87 | -0.200 | -0.0001 | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 3.87 | 2.600  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 3.87 | -1.900 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 3.87 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 3.87 | 0.400  | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 3.87 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |

### 2.1.3 B42a\_15MHz

| Band: 42a / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 3457.5          | 75            | 0      | 20         | 3.65          | -0.700           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -1.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -1.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | -2.500           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | 0.700            | 0.0002                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | 0.700            | 0.0002                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | -1.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | 0.300            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -0.800           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | 0.700            | 0.0002                | -2.5 to 2.5 | Pass    |
|                              | 3500            | 75            | 0      | 20         | 3.65          | -1.200           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -3.800           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | -2.200           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -3.600           | -0.0010               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       |        |    |   | -20 | 3.87 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -0.200 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -0.400 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -0.500 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|       | 3542.5 | 75 | 0 | 20  | 3.65 | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -4.700 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -4.800 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -1.200 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -4.900 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -2.600 | -0.0007 | -2.5 to 2.5 | Pass |
| 16QAM | 3457.5 | 75 | 0 | 20  | 3.65 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | 1.900  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -3.900 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 2.600  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 1.500  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -2.800 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -3.000 | -0.0009 | -2.5 to 2.5 | Pass |
|       | 3500   | 75 | 0 | 20  | 3.65 | -4.200 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -4.700 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -3.700 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -4.800 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -1.900 | -0.0005 | -2.5 to 2.5 | Pass |
|       | 3542.5 | 75 | 0 | 20  | 3.65 | -3.600 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -1.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 1.500  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -3.300 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -3.200 | -0.0009 | -2.5 to 2.5 | Pass |
| 64QAM | 3457.5 | 75 | 0 | 20  | 3.65 | 1.700  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 4.900  | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |

|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   | 0   | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -0.400 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -2.300 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|        | 3500   | 75 | 0 | 20  | 3.65 | -4.200 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -3.300 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -3.000 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |
|        | 3542.5 | 75 | 0 | 20  | 3.65 | -3.200 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -2.100 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -4.800 | -0.0014 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 3.600  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -2.700 | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
| 256QAM | 3457.5 | 75 | 0 | 20  | 3.65 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 1.600  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -2.700 | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 3.400  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -1.900 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -3.100 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -2.800 | -0.0008 | -2.5 to 2.5 | Pass |
|        | 3500   | 75 | 0 | 20  | 3.65 | 1.500  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 0.800  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -1.200 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 3.500  | 0.0010  | -2.5 to 2.5 | Pass |
|        | 3542.5 | 75 | 0 | 20  | 3.65 | -1.300 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -4.300 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -0.400 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -0.900 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 2.800  | 0.0008  | -2.5 to 2.5 | Pass |

|  |  |  |  |    |      |        |         |             |      |
|--|--|--|--|----|------|--------|---------|-------------|------|
|  |  |  |  | 30 | 3.87 | 2.600  | 0.0007  | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 3.87 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 3.87 | -2.100 | -0.0006 | -2.5 to 2.5 | Pass |

## 2.1.4 B42a\_20MHz

| Band: 42a / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 3460            | 100           | 0      | 20         | 3.65          | 1.400            | 0.0004                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | 1.700            | 0.0005                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | 0.900            | 0.0003                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -2.600           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | 1.500            | 0.0004                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | 1.700            | 0.0005                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | -4.800           | -0.0014               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | 1.100            | 0.0003                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | -1.100           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -0.700           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | -1.900           | -0.0005               | -2.5 to 2.5 | Pass    |
|                              | 3500            | 100           | 0      | 20         | 3.65          | -3.700           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -2.300           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | -2.100           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -3.500           | -0.0010               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | -2.000           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | -4.200           | -0.0012               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | -2.400           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | -2.500           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -2.600           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | -1.600           | -0.0005               | -2.5 to 2.5 | Pass    |
|                              | 3540            | 100           | 0      | 20         | 3.65          | -4.000           | -0.0011               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -3.100           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | 1.500            | 0.0004                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -4.900           | -0.0014               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | -2.000           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | 2.200            | 0.0006                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | -4.500           | -0.0013               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | -3.200           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | 2.200            | 0.0006                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | 0.800            | 0.0002                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | -3.400           | -0.0010               | -2.5 to 2.5 | Pass    |
| 16QAM                        | 3460            | 100           | 0      | 20         | 3.65          | 0.300            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 4.45          | -2.900           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 3.87          | -0.300           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 3.87          | -1.700           | -0.0005               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 3.87          | -1.500           | -0.0004               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 3.87          | 1.500            | 0.0004                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 3.87          | -0.700           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 3.87          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 3.87          | -2.200           | -0.0006               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 3.87          | -0.600           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              | 3500            | 100           | 0      | 20         | 3.65          | -1.500           | -0.0004               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 3.87          | -1.100           | -0.0003               | -2.5 to 2.5 | Pass    |

|        |      |     |   |     |      |        |         |             |      |
|--------|------|-----|---|-----|------|--------|---------|-------------|------|
|        |      |     |   |     | 4.45 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -2.300 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | -3.400 | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|        | 3540 | 100 | 0 | 20  | 3.65 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | -3.300 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -1.800 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -4.400 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | 1.800  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -2.300 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -1.500 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -3.600 | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | 2.300  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |
| 64QAM  | 3460 | 100 | 0 | 20  | 3.65 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -1.700 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -2.800 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -3.300 | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|        | 3500 | 100 | 0 | 20  | 3.65 | -4.100 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -0.800 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | -2.700 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -4.700 | -0.0013 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | 0.700  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -2.500 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | 1.800  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|        | 3540 | 100 | 0 | 20  | 3.65 | -0.500 | -0.0001 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | 2.400  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -2.400 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -1.000 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | -4.400 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | -4.000 | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | -0.100 | 0.0000  | -2.5 to 2.5 | Pass |
| 256QAM | 3460 | 100 | 0 | 20  | 3.65 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | 3.000  | 0.0009  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | 1.000  | 0.0003  | -2.5 to 2.5 | Pass |



|  |      |     |   |     |      |        |         |             |      |
|--|------|-----|---|-----|------|--------|---------|-------------|------|
|  |      |     |   | -20 | 3.87 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.87 | -2.900 | -0.0008 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.87 | 0.500  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.87 | 0.400  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.87 | 0.600  | 0.0002  | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.87 | 1.100  | 0.0003  | -2.5 to 2.5 | Pass |
|  | 3500 | 100 | 0 | 20  | 3.65 | -1.400 | -0.0004 | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 4.45 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 3.87 | -1.600 | -0.0005 | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 3.87 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.87 | -2.100 | -0.0006 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.87 | -1.100 | -0.0003 | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.87 | 2.000  | 0.0006  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.87 | -3.300 | -0.0009 | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.87 | -2.200 | -0.0006 | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.87 | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|  | 3540 | 100 | 0 | 20  | 3.65 | 5.000  | 0.0014  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 3.87 | -2.600 | -0.0007 | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 4.45 | 1.400  | 0.0004  | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 3.87 | -2.100 | -0.0006 | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 3.87 | 1.200  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.87 | -3.800 | -0.0011 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.87 | -4.100 | -0.0012 | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.87 | 2.600  | 0.0007  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.87 | -4.600 | -0.0013 | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.87 | -2.700 | -0.0008 | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.87 | 1.300  | 0.0004  | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band42a\_OBW

| Band: 42a / NTNV |            |                 |               |        |                              |       |         |
|------------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz)  | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                  |            |                 | Size          | Offset | Result                       | Limit |         |
| 5                | QPSK       | 3452.5          | 25            | 0      | 4.542                        | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 4.563                        | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 4.581                        | /     | Pass    |
|                  | 16QAM      | 3452.5          | 25            | 0      | 4.559                        | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 4.559                        | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 4.575                        | /     | Pass    |
|                  | 64QAM      | 3452.5          | 25            | 0      | 4.582                        | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 4.552                        | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 4.556                        | /     | Pass    |
|                  | 256QAM     | 3452.5          | 25            | 0      | 4.540                        | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 4.545                        | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 4.553                        | /     | Pass    |
| 10               | QPSK       | 3455            | 50            | 0      | 9.095                        | /     | Pass    |
|                  |            | 3500            | 50            | 0      | 9.073                        | /     | Pass    |
|                  |            | 3545            | 50            | 0      | 9.125                        | /     | Pass    |

|    |        |        |     |   |        |   |      |
|----|--------|--------|-----|---|--------|---|------|
|    | 16QAM  | 3455   | 50  | 0 | 9.074  | / | Pass |
|    |        | 3500   | 50  | 0 | 9.067  | / | Pass |
|    |        | 3545   | 50  | 0 | 9.064  | / | Pass |
|    | 64QAM  | 3455   | 50  | 0 | 9.091  | / | Pass |
|    |        | 3500   | 50  | 0 | 9.113  | / | Pass |
|    |        | 3545   | 50  | 0 | 9.039  | / | Pass |
|    | 256QAM | 3455   | 50  | 0 | 9.061  | / | Pass |
|    |        | 3500   | 50  | 0 | 9.044  | / | Pass |
|    |        | 3545   | 50  | 0 | 9.083  | / | Pass |
| 15 | QPSK   | 3457.5 | 75  | 0 | 13.624 | / | Pass |
|    |        | 3500   | 75  | 0 | 13.585 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 13.612 | / | Pass |
|    | 16QAM  | 3457.5 | 75  | 0 | 13.565 | / | Pass |
|    |        | 3500   | 75  | 0 | 13.613 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 13.612 | / | Pass |
|    | 64QAM  | 3457.5 | 75  | 0 | 13.614 | / | Pass |
|    |        | 3500   | 75  | 0 | 13.607 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 13.597 | / | Pass |
|    | 256QAM | 3457.5 | 75  | 0 | 13.598 | / | Pass |
|    |        | 3500   | 75  | 0 | 13.594 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 13.585 | / | Pass |
| 20 | QPSK   | 3460   | 100 | 0 | 18.114 | / | Pass |
|    |        | 3500   | 100 | 0 | 18.119 | / | Pass |
|    |        | 3540   | 100 | 0 | 18.152 | / | Pass |
|    | 16QAM  | 3460   | 100 | 0 | 18.116 | / | Pass |
|    |        | 3500   | 100 | 0 | 18.125 | / | Pass |
|    |        | 3540   | 100 | 0 | 18.098 | / | Pass |
|    | 64QAM  | 3460   | 100 | 0 | 18.126 | / | Pass |
|    |        | 3500   | 100 | 0 | 18.104 | / | Pass |
|    |        | 3540   | 100 | 0 | 18.105 | / | Pass |
|    | 256QAM | 3460   | 100 | 0 | 18.080 | / | Pass |
|    |        | 3500   | 100 | 0 | 18.083 | / | Pass |
|    |        | 3540   | 100 | 0 | 18.084 | / | Pass |

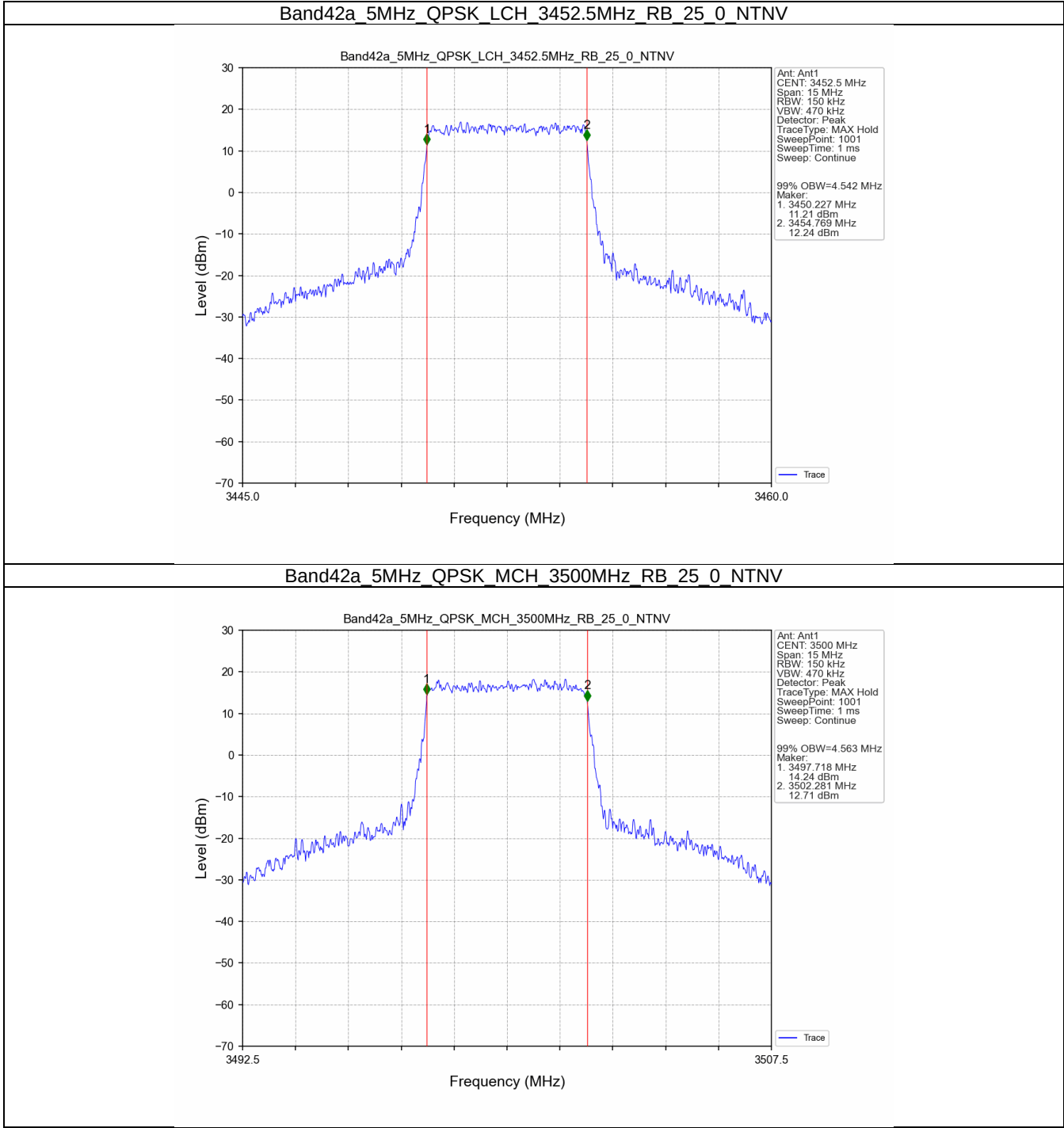
### 3.1.2 Band42a\_XDB

| Band: 42a / NTNV |            |                 |               |        |                      |       |         |
|------------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz)  | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                  |            |                 | Size          | Offset | Result               | Limit |         |
| 5                | QPSK       | 3452.5          | 25            | 0      | 5.174                | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 5.249                | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 5.214                | /     | Pass    |
|                  | 16QAM      | 3452.5          | 25            | 0      | 5.229                | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 5.114                | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 5.222                | /     | Pass    |
|                  | 64QAM      | 3452.5          | 25            | 0      | 5.207                | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 5.228                | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 5.189                | /     | Pass    |
|                  | 256QAM     | 3452.5          | 25            | 0      | 5.195                | /     | Pass    |
|                  |            | 3500            | 25            | 0      | 5.125                | /     | Pass    |
|                  |            | 3547.5          | 25            | 0      | 5.285                | /     | Pass    |
| 10               | QPSK       | 3455            | 50            | 0      | 10.222               | /     | Pass    |
|                  |            | 3500            | 50            | 0      | 10.315               | /     | Pass    |
|                  |            | 3545            | 50            | 0      | 10.188               | /     | Pass    |
|                  | 16QAM      | 3455            | 50            | 0      | 10.197               | /     | Pass    |

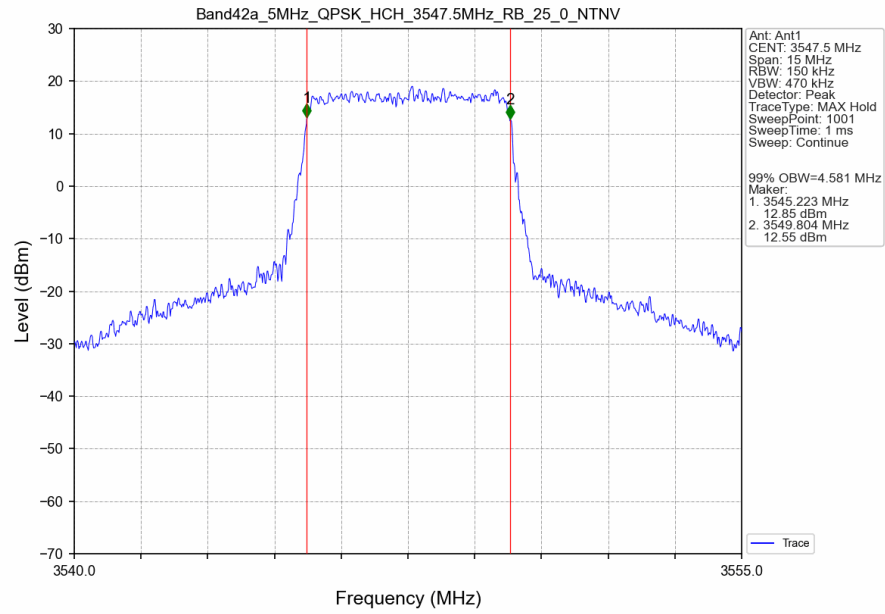
|    |        |        |     |   |        |   |      |
|----|--------|--------|-----|---|--------|---|------|
|    |        | 3500   | 50  | 0 | 10.268 | / | Pass |
|    |        | 3545   | 50  | 0 | 10.221 | / | Pass |
|    | 64QAM  | 3455   | 50  | 0 | 10.148 | / | Pass |
|    |        | 3500   | 50  | 0 | 10.224 | / | Pass |
|    |        | 3545   | 50  | 0 | 10.151 | / | Pass |
|    | 256QAM | 3455   | 50  | 0 | 10.151 | / | Pass |
|    |        | 3500   | 50  | 0 | 10.088 | / | Pass |
|    |        | 3545   | 50  | 0 | 10.116 | / | Pass |
| 15 | QPSK   | 3457.5 | 75  | 0 | 15.149 | / | Pass |
|    |        | 3500   | 75  | 0 | 15.231 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 15.166 | / | Pass |
|    | 16QAM  | 3457.5 | 75  | 0 | 15.197 | / | Pass |
|    |        | 3500   | 75  | 0 | 14.973 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 15.093 | / | Pass |
|    | 64QAM  | 3457.5 | 75  | 0 | 15.109 | / | Pass |
|    |        | 3500   | 75  | 0 | 15.109 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 15.284 | / | Pass |
|    | 256QAM | 3457.5 | 75  | 0 | 15.152 | / | Pass |
|    |        | 3500   | 75  | 0 | 15.052 | / | Pass |
|    |        | 3542.5 | 75  | 0 | 15.081 | / | Pass |
| 20 | QPSK   | 3460   | 100 | 0 | 19.909 | / | Pass |
|    |        | 3500   | 100 | 0 | 20.122 | / | Pass |
|    |        | 3540   | 100 | 0 | 19.982 | / | Pass |
|    | 16QAM  | 3460   | 100 | 0 | 19.970 | / | Pass |
|    |        | 3500   | 100 | 0 | 19.839 | / | Pass |
|    |        | 3540   | 100 | 0 | 20.228 | / | Pass |
|    | 64QAM  | 3460   | 100 | 0 | 20.004 | / | Pass |
|    |        | 3500   | 100 | 0 | 20.078 | / | Pass |
|    |        | 3540   | 100 | 0 | 19.889 | / | Pass |
|    | 256QAM | 3460   | 100 | 0 | 19.893 | / | Pass |
|    |        | 3500   | 100 | 0 | 19.916 | / | Pass |
|    |        | 3540   | 100 | 0 | 19.883 | / | Pass |

3.2 Test Graph

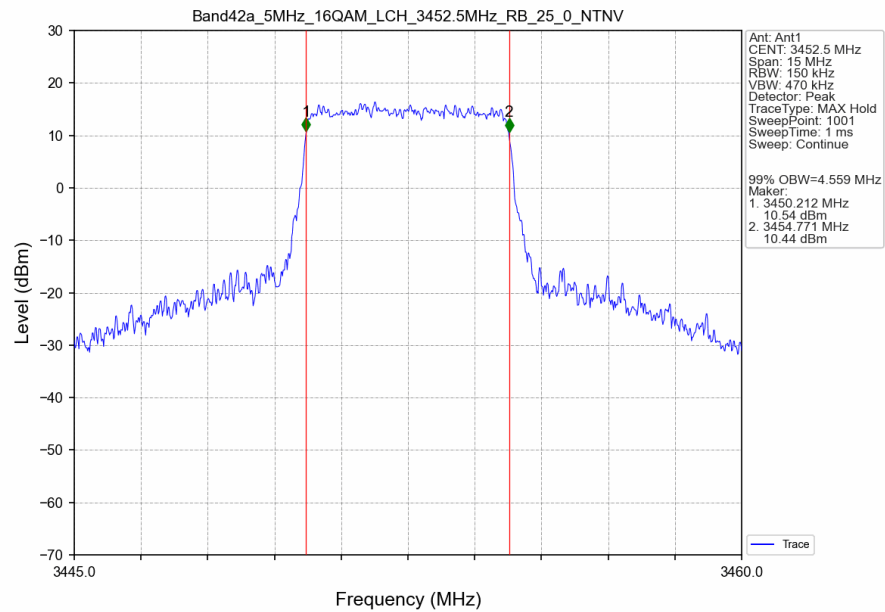
3.2.1 Band42a\_OBW



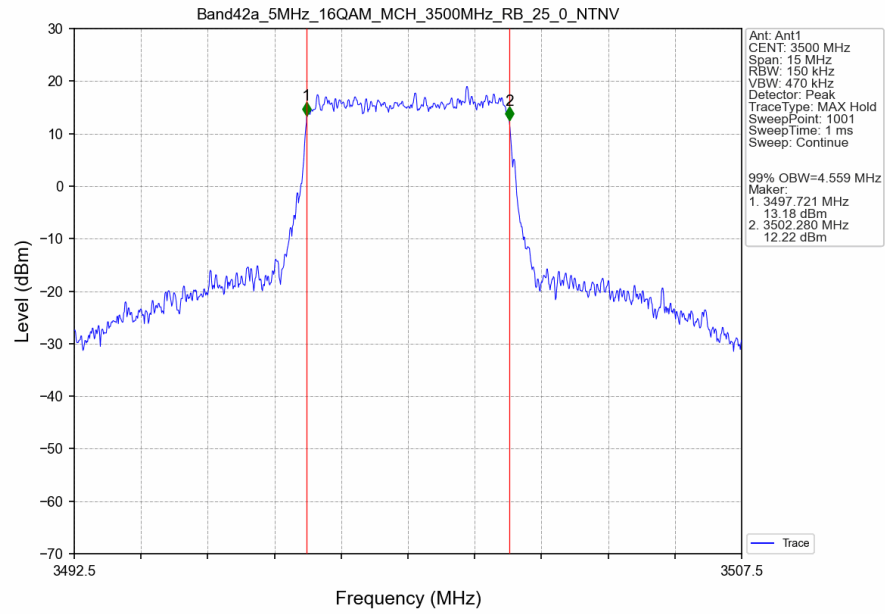
# Band42a\_5MHz\_QPSK\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



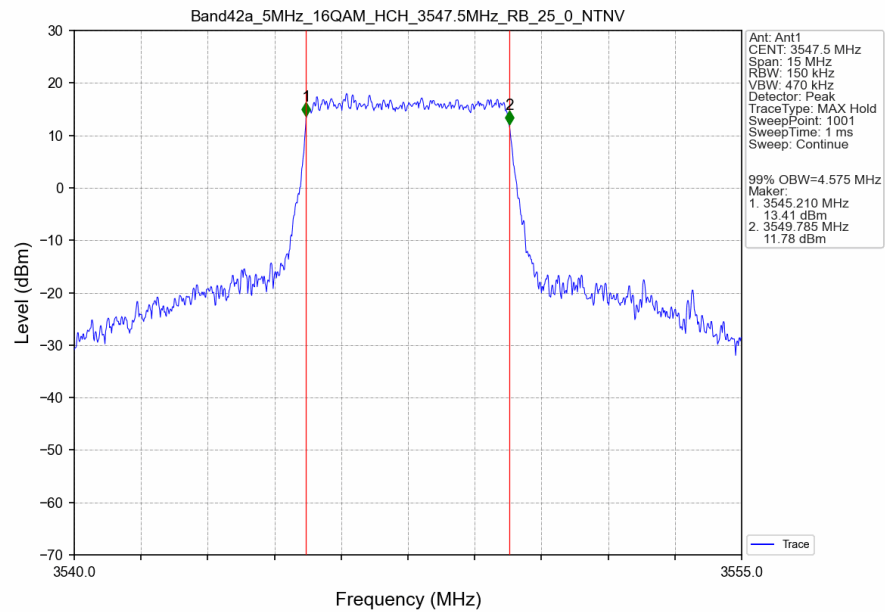
# Band42a\_5MHz\_16QAM\_LCH\_3452.5MHz\_RB\_25\_0\_NTNV



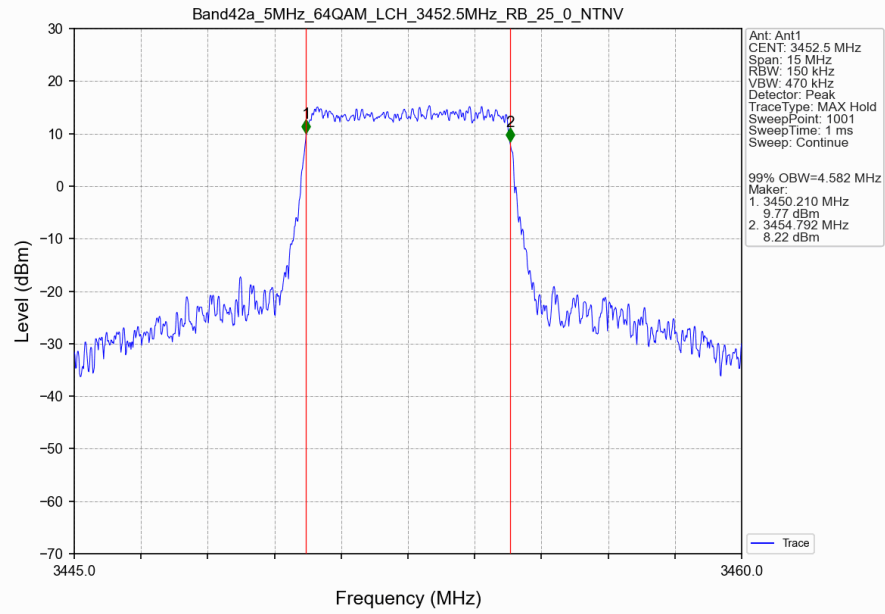
# Band42a 5MHz 16QAM MCH 3500MHz RB 25 0 NTN



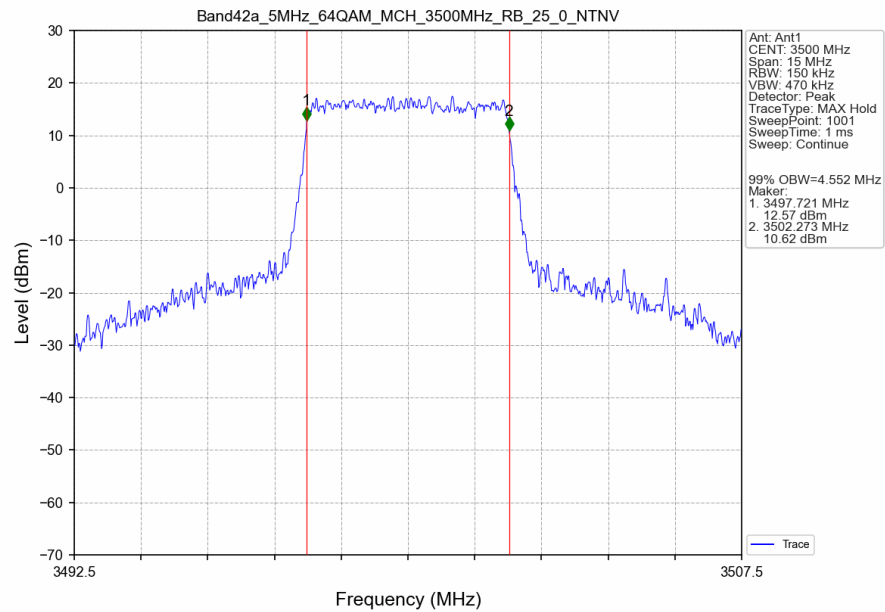
# Band42a 5MHz 16QAM HCH 3547.5MHz RB 25 0 NTN



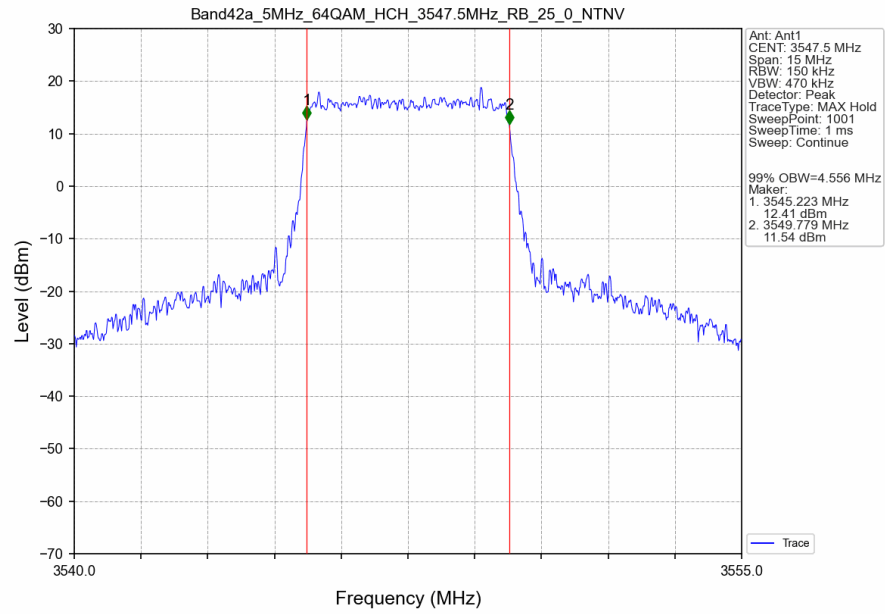
# Band42a\_5MHz\_64QAM\_LCH\_3452.5MHz\_RB\_25\_0\_NTNV



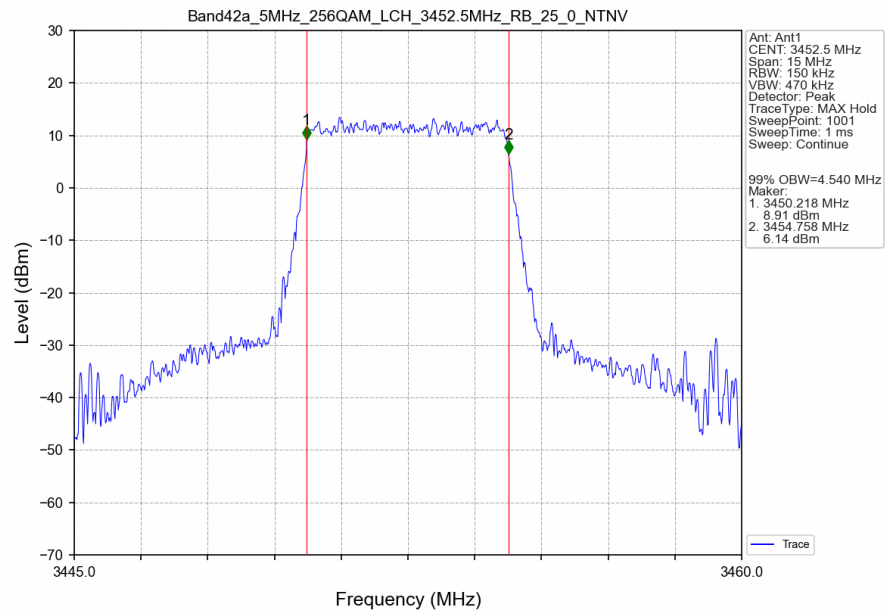
# Band42a\_5MHz\_64QAM\_MCH\_3500MHz\_RB\_25\_0\_NTNV



# Band42a\_5MHz\_64QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV

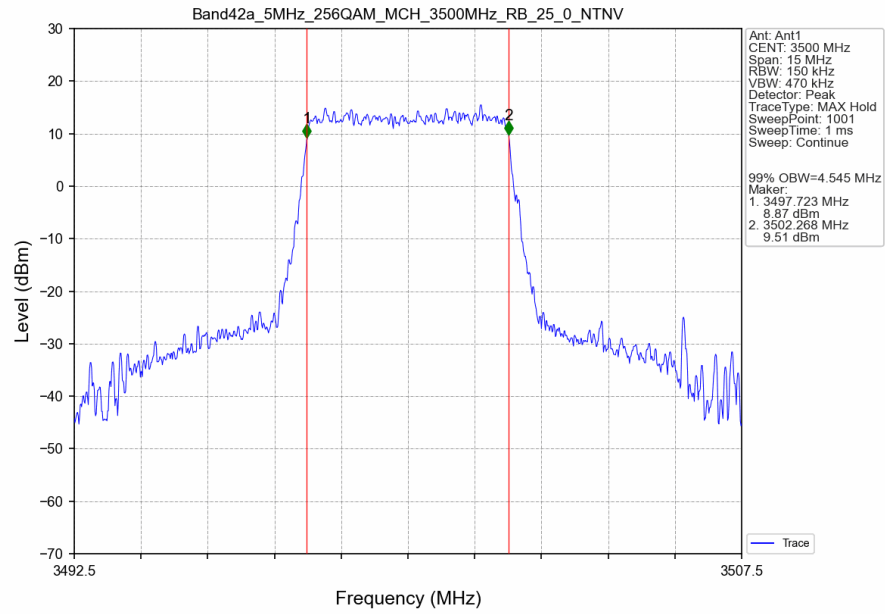


# Band42a\_5MHz\_256QAM\_LCH\_3452.5MHz\_RB\_25\_0\_NTNV

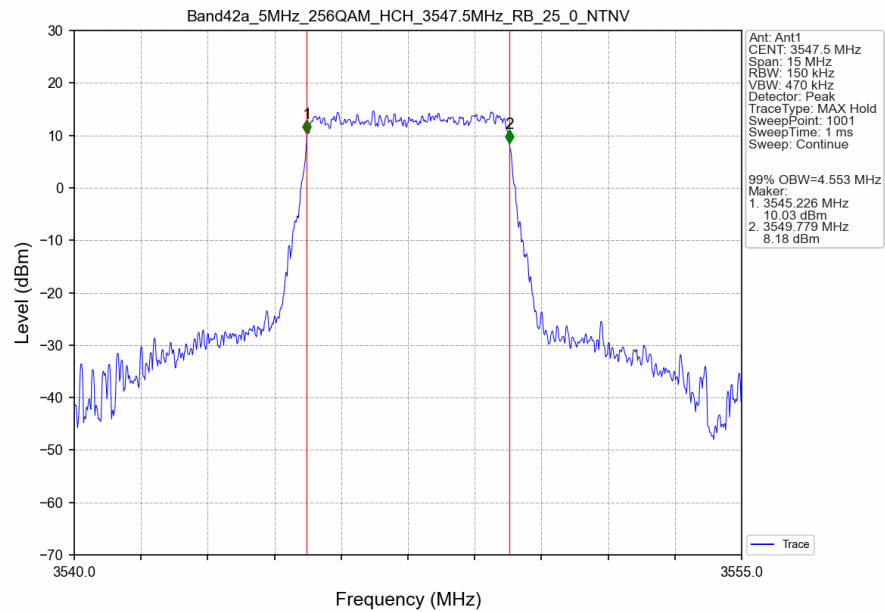




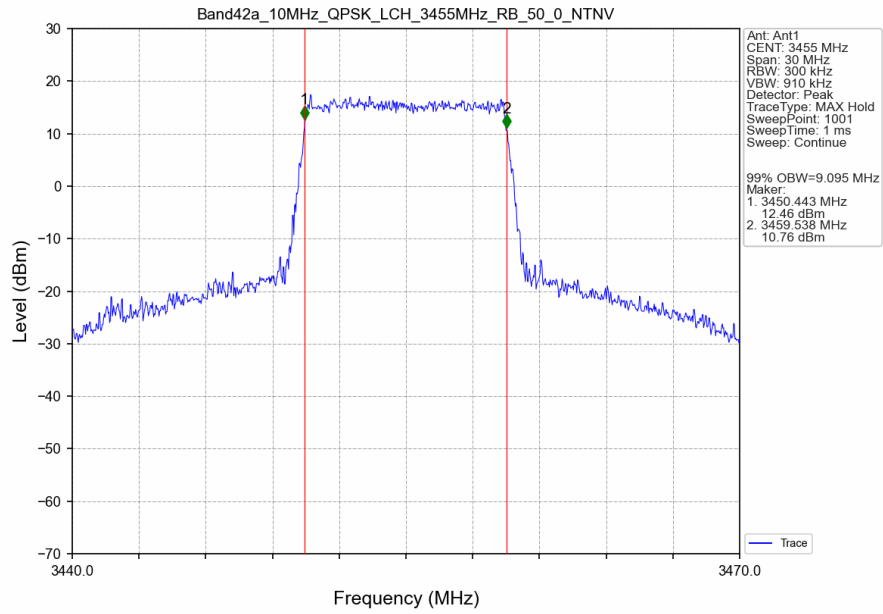
# Band42a\_5MHz\_256QAM\_MCH\_3500MHz\_RB\_25\_0\_NTNV



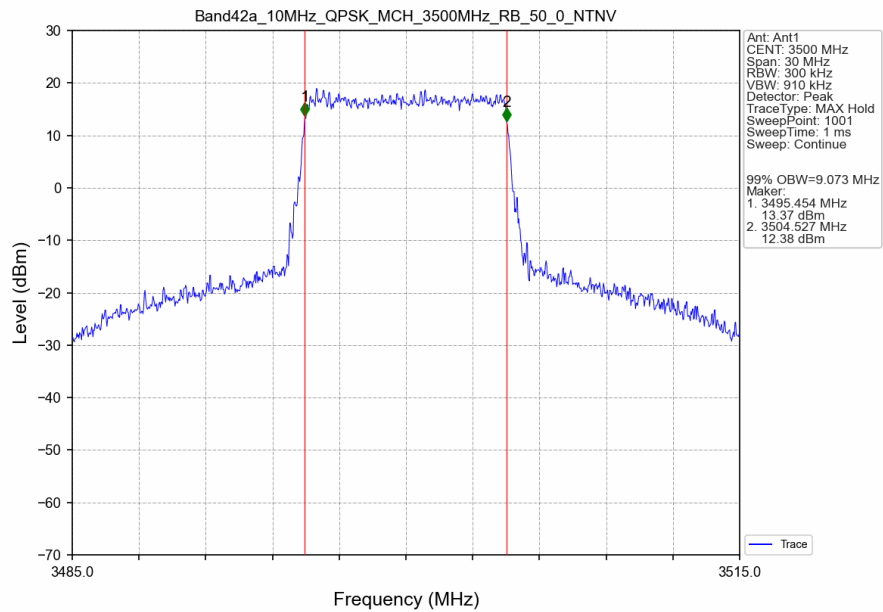
# Band42a\_5MHz\_256QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



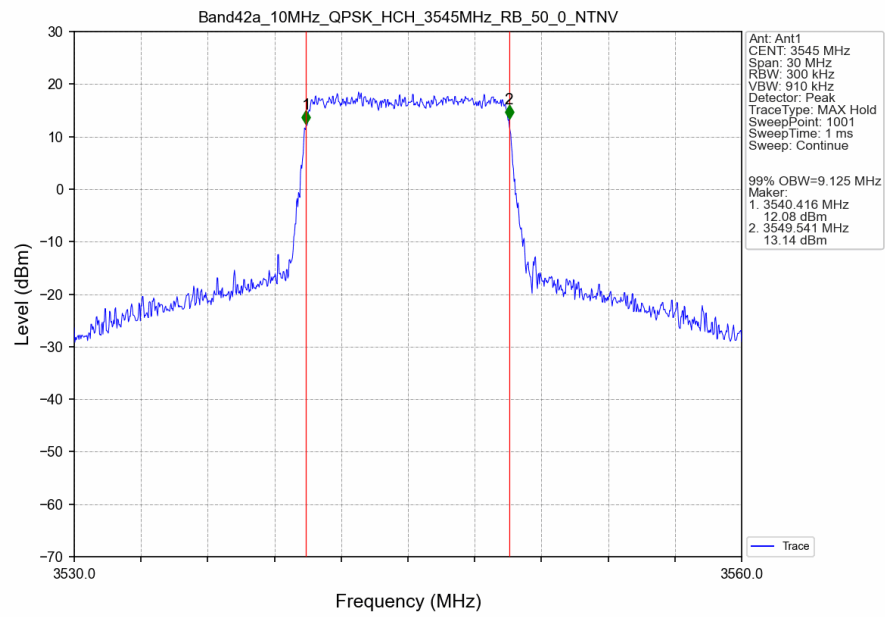
# Band42a\_10MHz\_QPSK\_LCH\_3455MHz\_RB\_50\_0\_NTNV



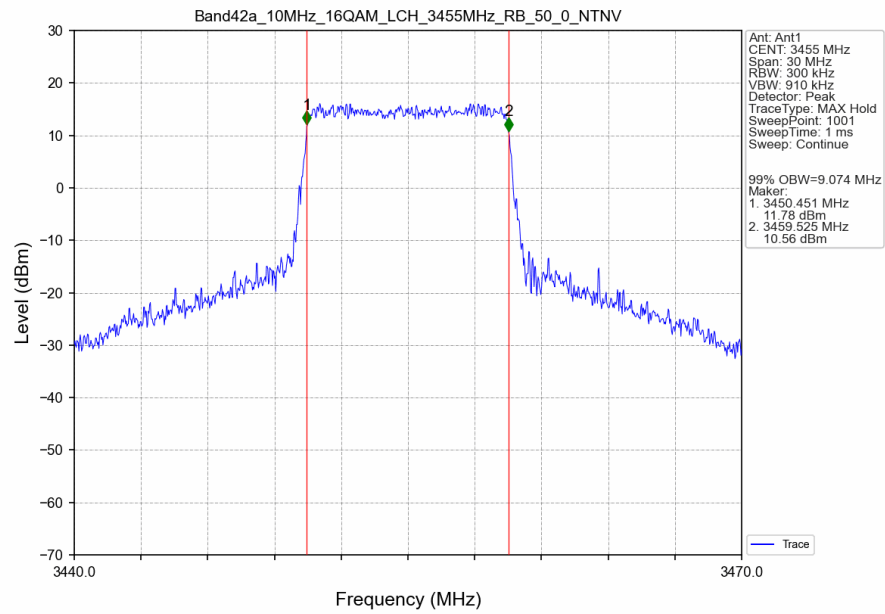
# Band42a\_10MHz\_QPSK\_MCH\_3500MHz\_RB\_50\_0\_NTNV



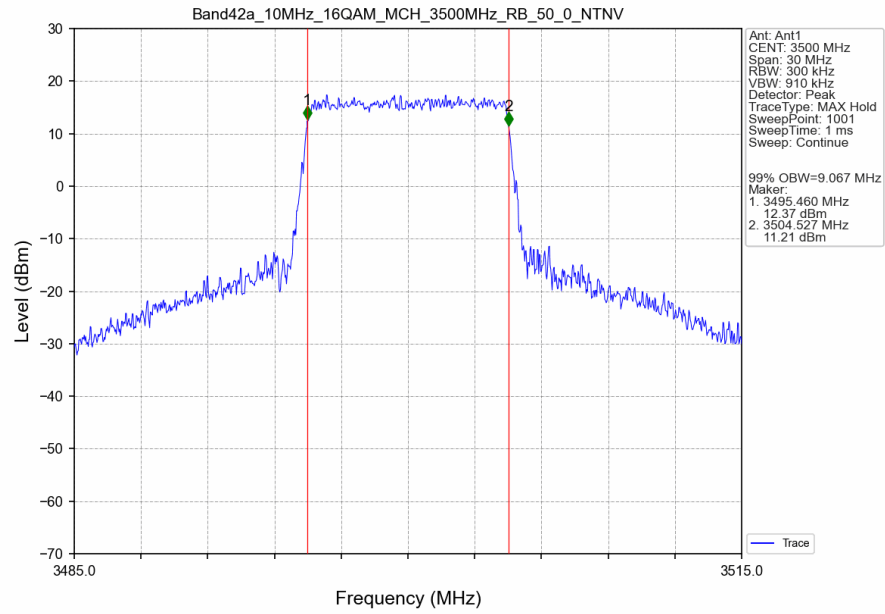
# Band42a\_10MHz\_QPSK\_HCH\_3545MHz\_RB\_50\_0\_NTNV



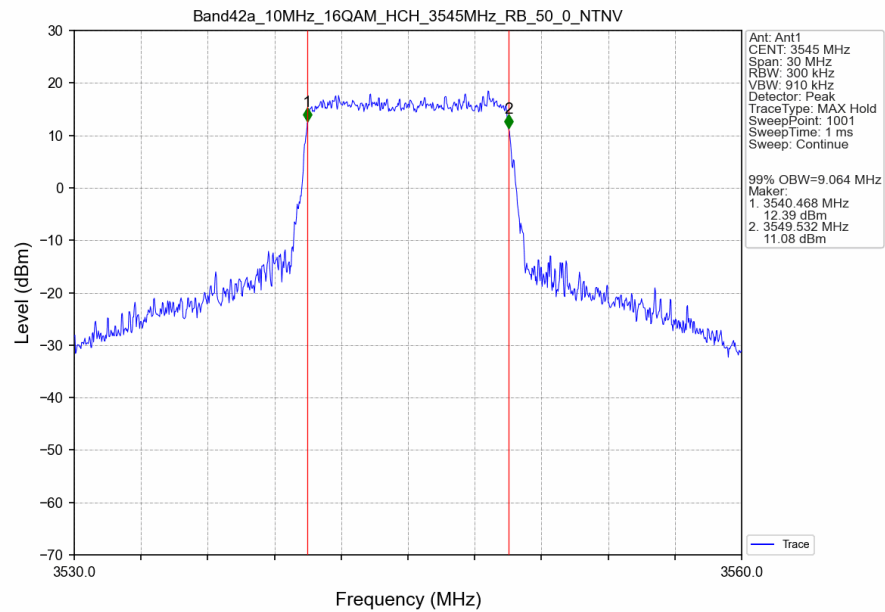
# Band42a\_10MHz\_16QAM\_LCH\_3455MHz\_RB\_50\_0\_NTNV



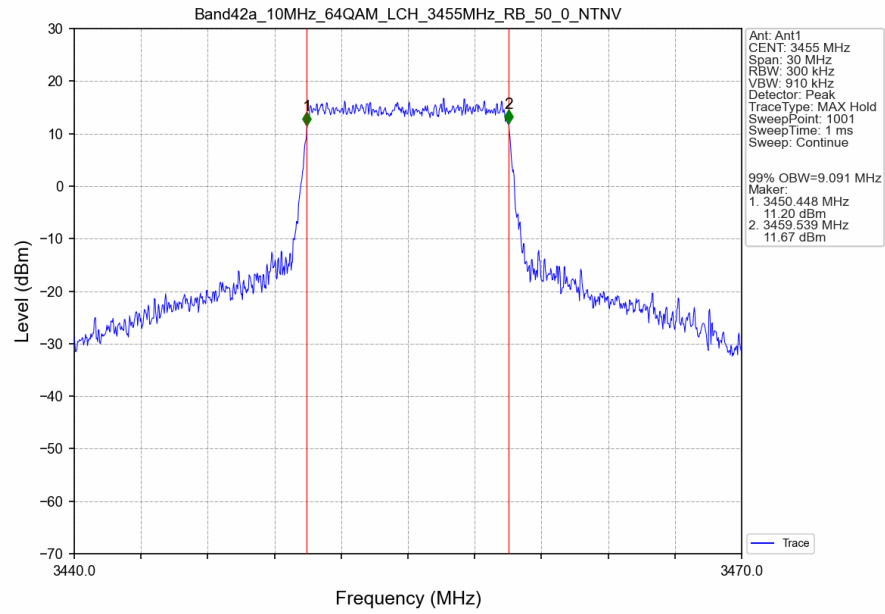
# Band42a\_10MHz\_16QAM\_MCH\_3500MHz\_RB\_50\_0\_NTNV



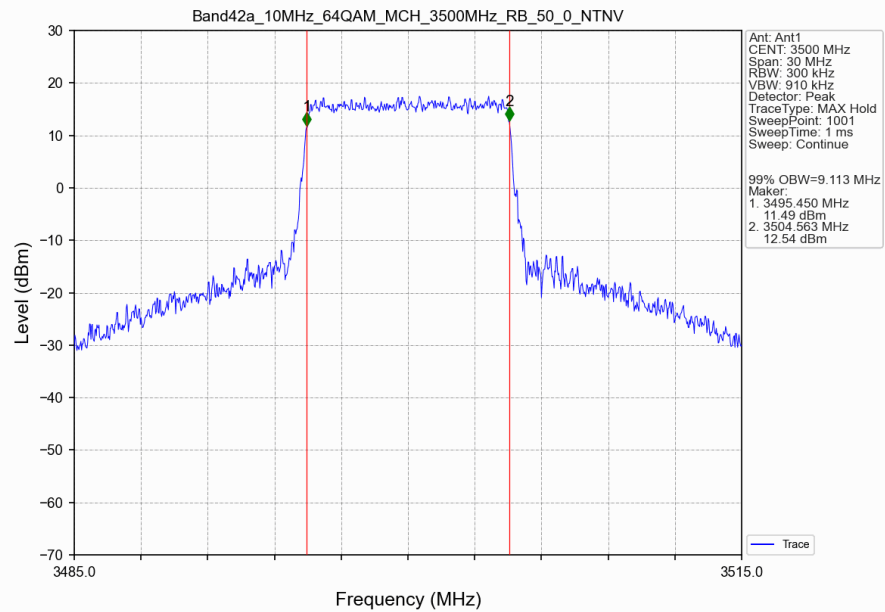
# Band42a\_10MHz\_16QAM\_HCH\_3545MHz\_RB\_50\_0\_NTNV



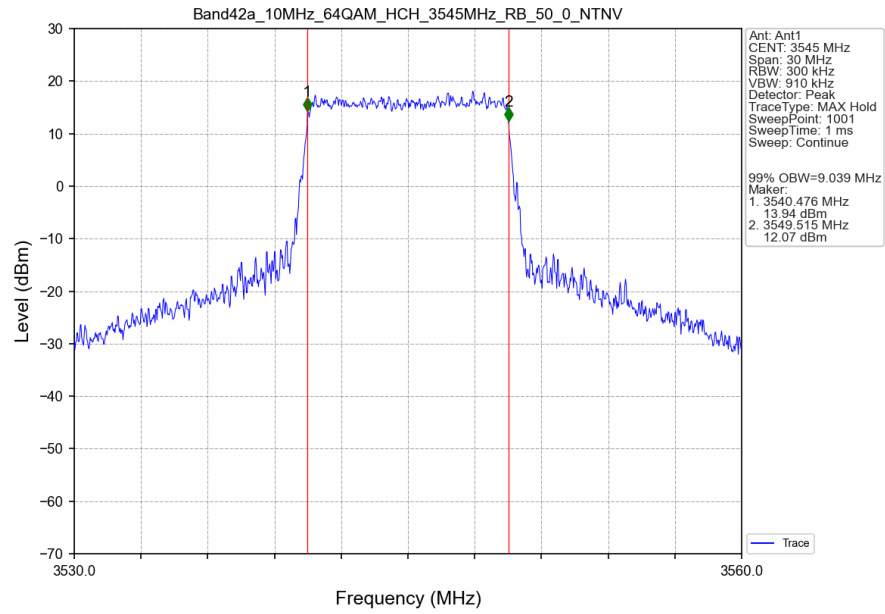
# Band42a\_10MHz\_64QAM\_LCH\_3455MHz\_RB\_50\_0\_NTNV



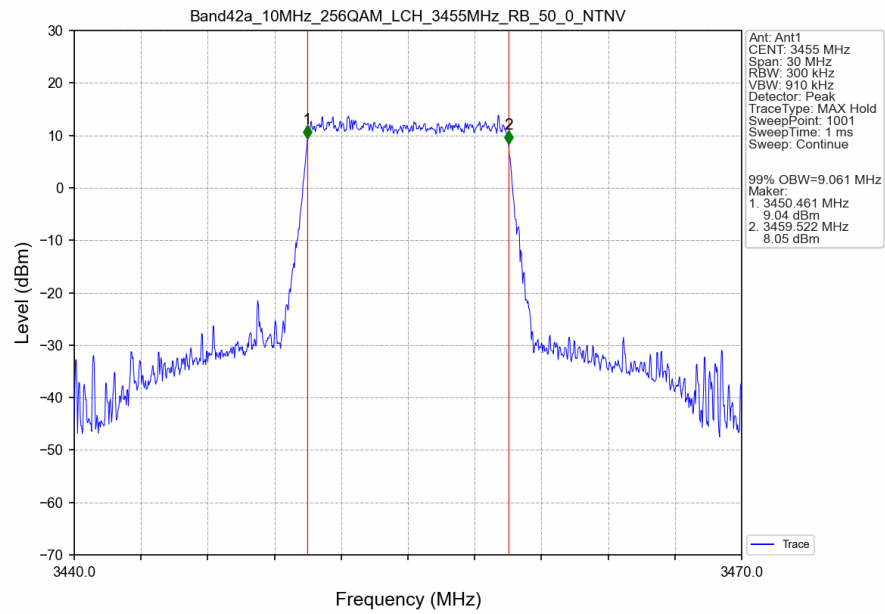
# Band42a\_10MHz\_64QAM\_MCH\_3500MHz\_RB\_50\_0\_NTNV



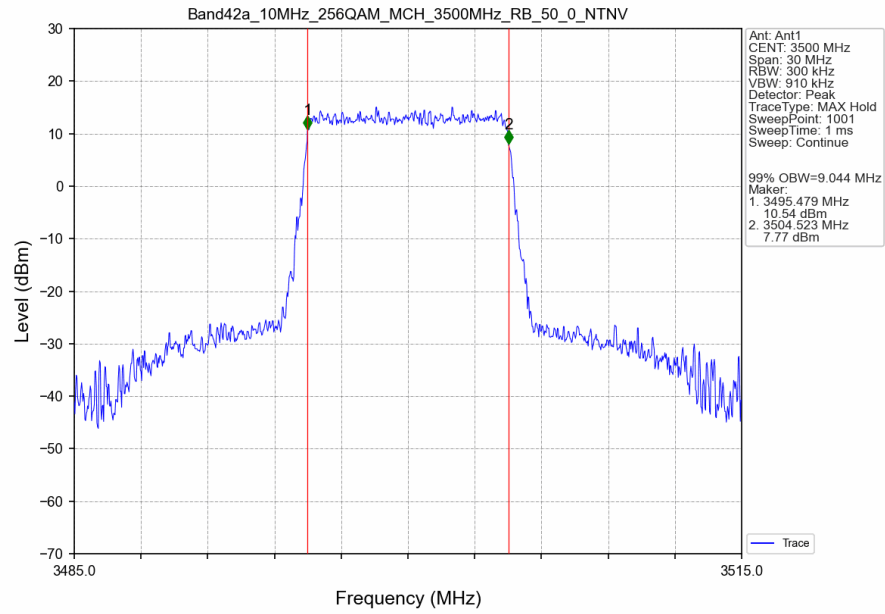
# Band42a\_10MHz\_64QAM\_HCH\_3545MHz\_RB\_50\_0\_NTNV



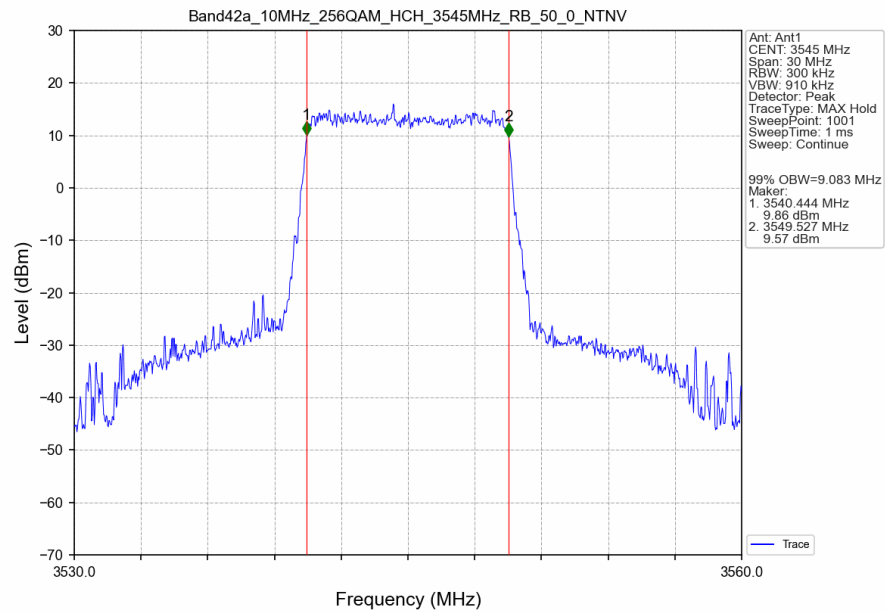
# Band42a\_10MHz\_256QAM\_LCH\_3455MHz\_RB\_50\_0\_NTNV



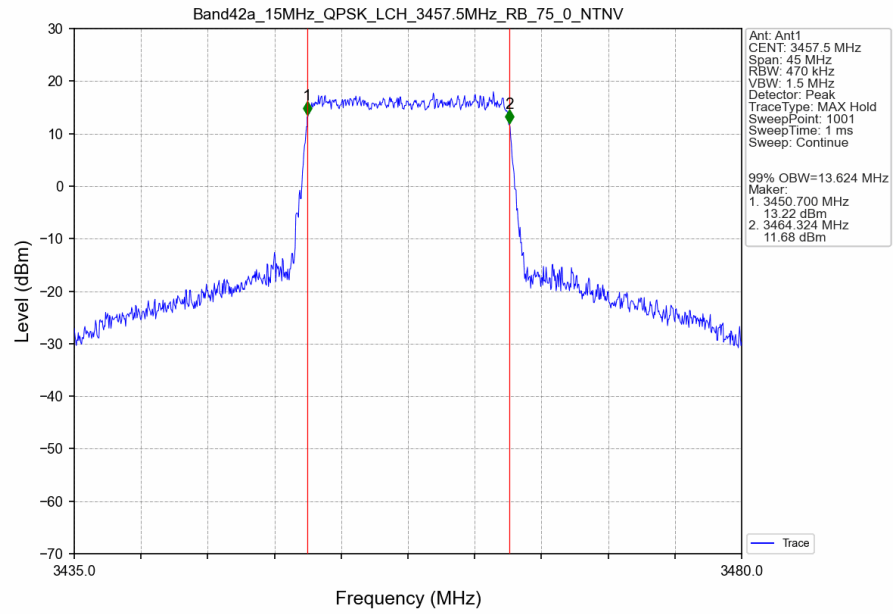
# Band42a\_10MHz\_256QAM\_MCH\_3500MHz\_RB\_50\_0\_NTNV



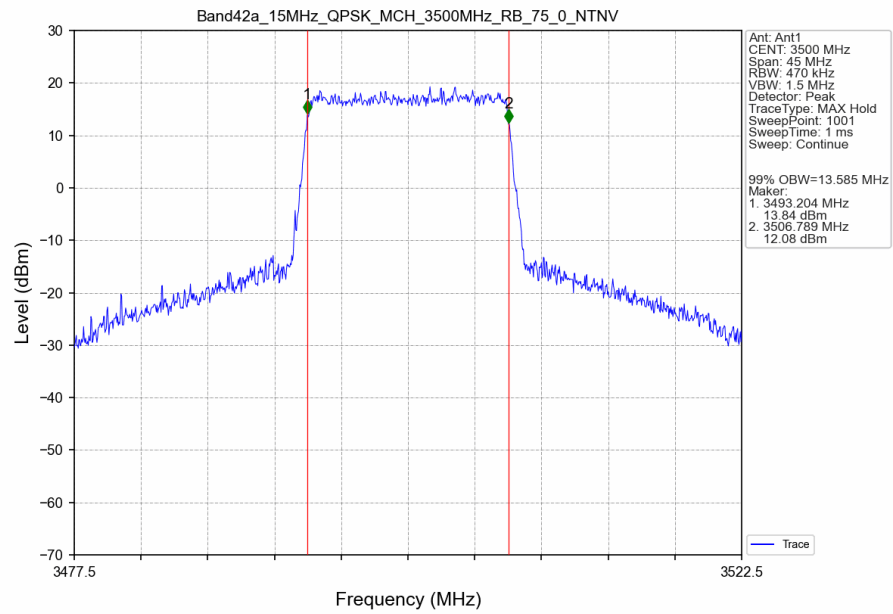
# Band42a\_10MHz\_256QAM\_HCH\_3545MHz\_RB\_50\_0\_NTNV



### Band42a\_15MHz\_QPSK\_LCH\_3457.5MHz\_RB\_75\_0\_NTNV

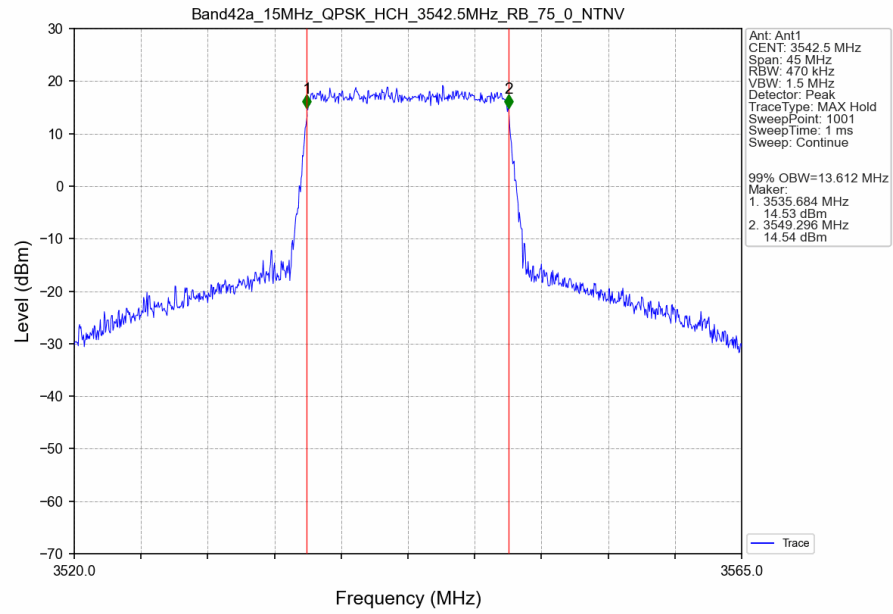


### Band42a\_15MHz\_QPSK\_MCH\_3500MHz\_RB\_75\_0\_NTNV

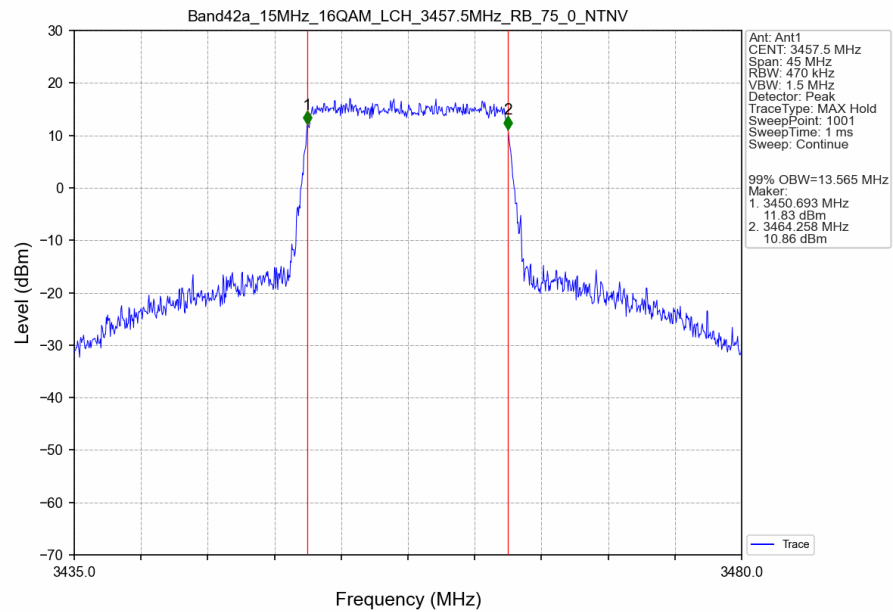




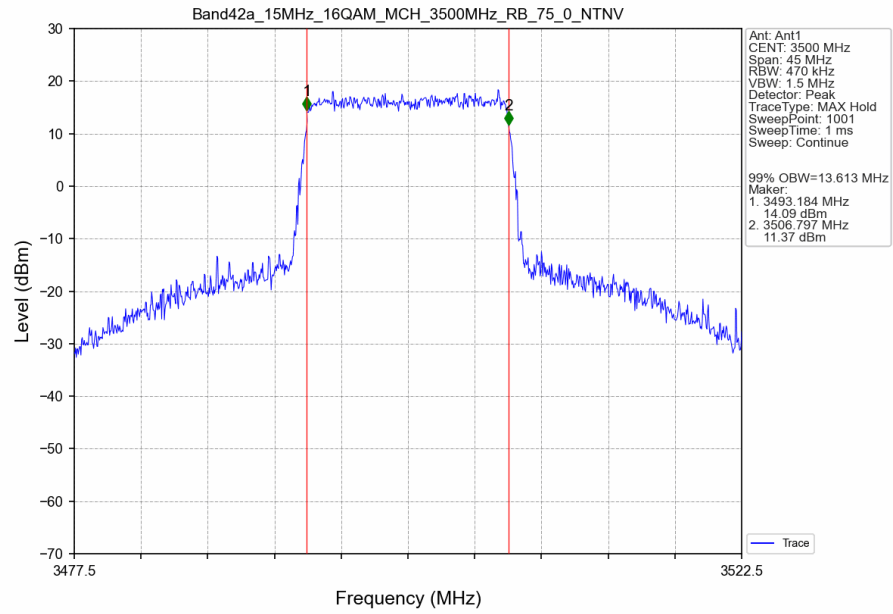
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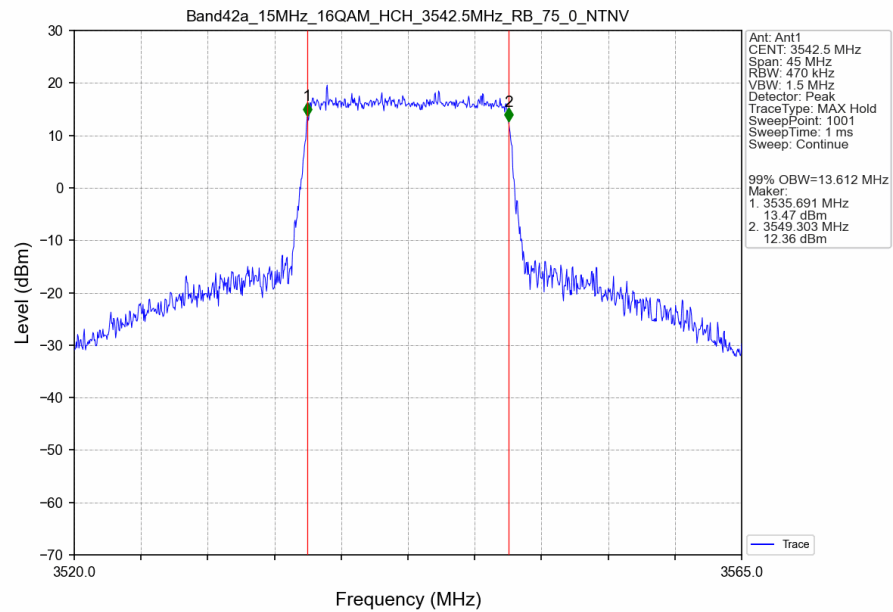
# Band42a\_15MHz\_16QAM\_LCH\_3457.5MHz\_RB\_75\_0\_NTNV



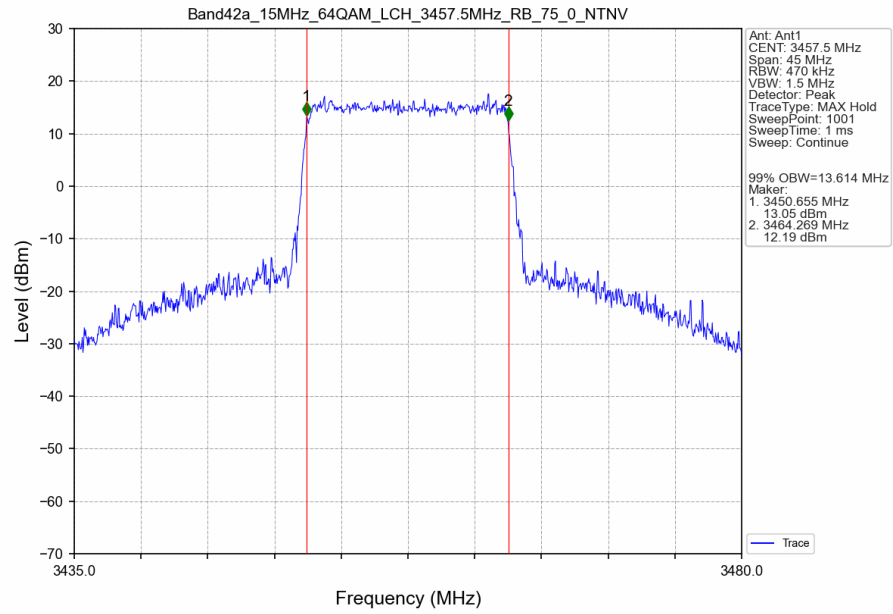
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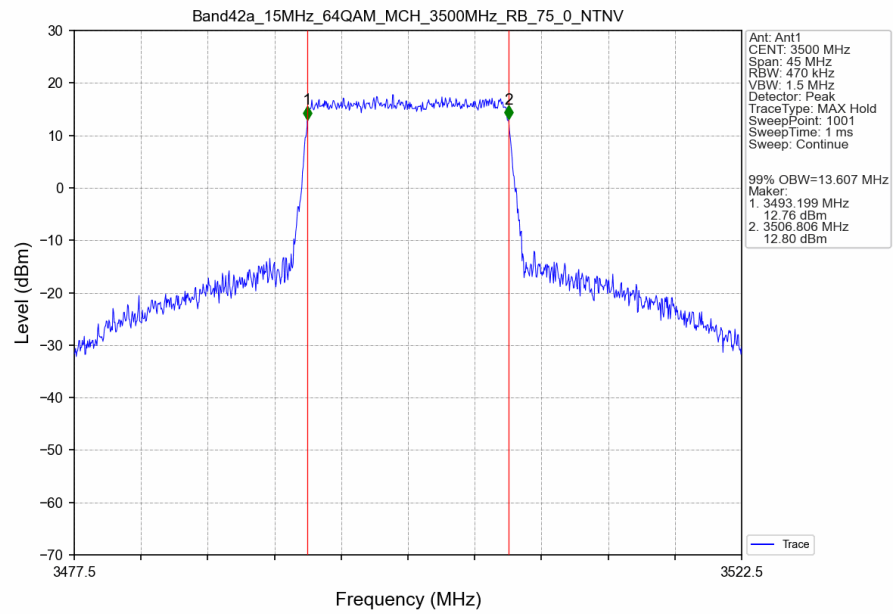
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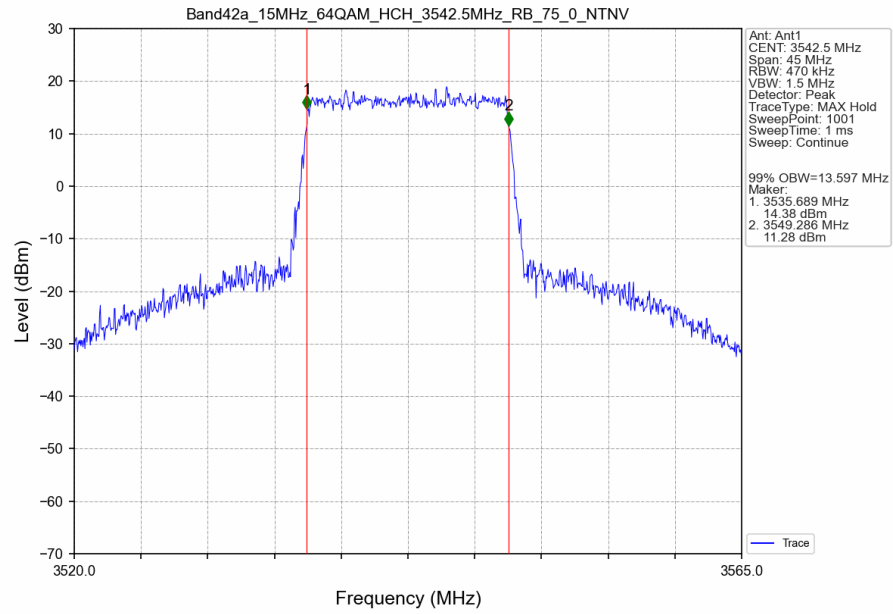
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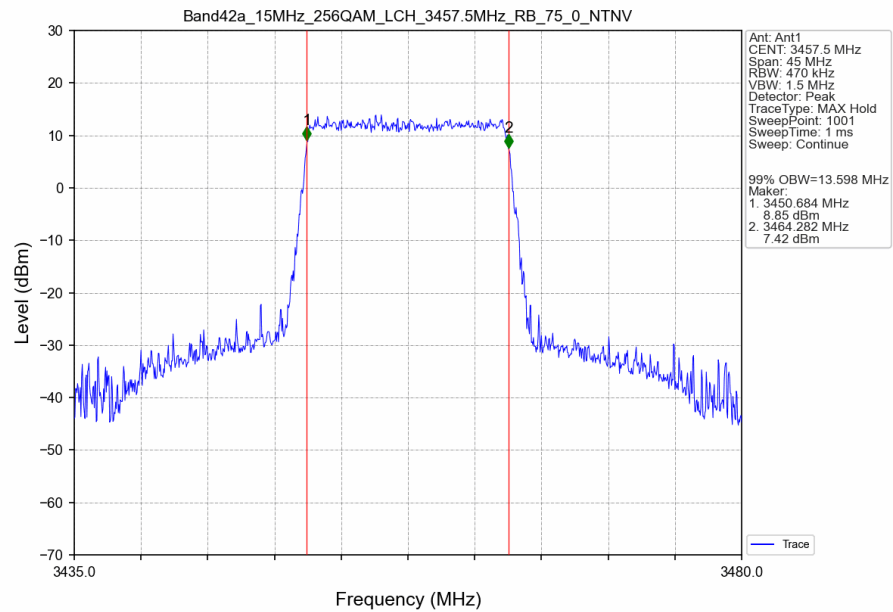
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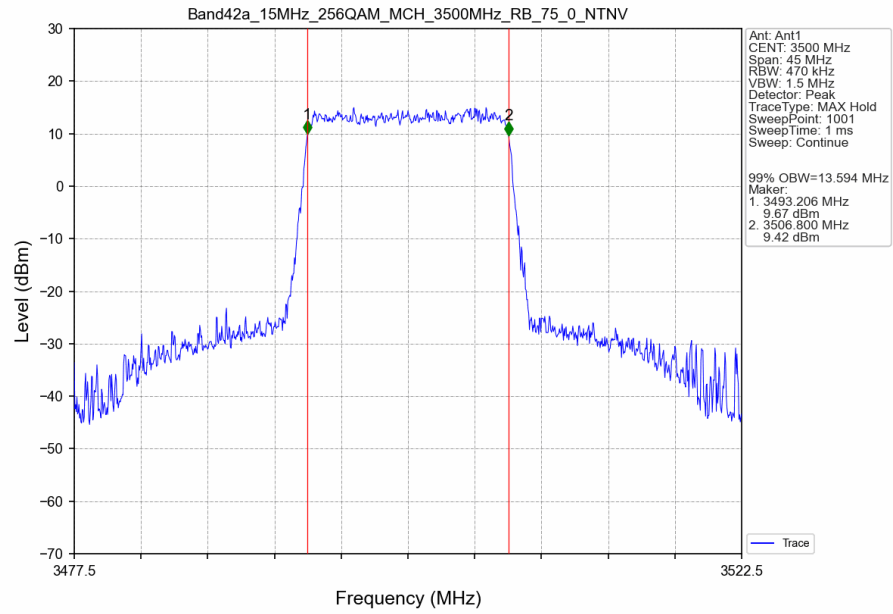
# Band42a\_15MHz\_64QAM\_HCH\_3542.5MHz\_RB\_75\_0\_NTNV



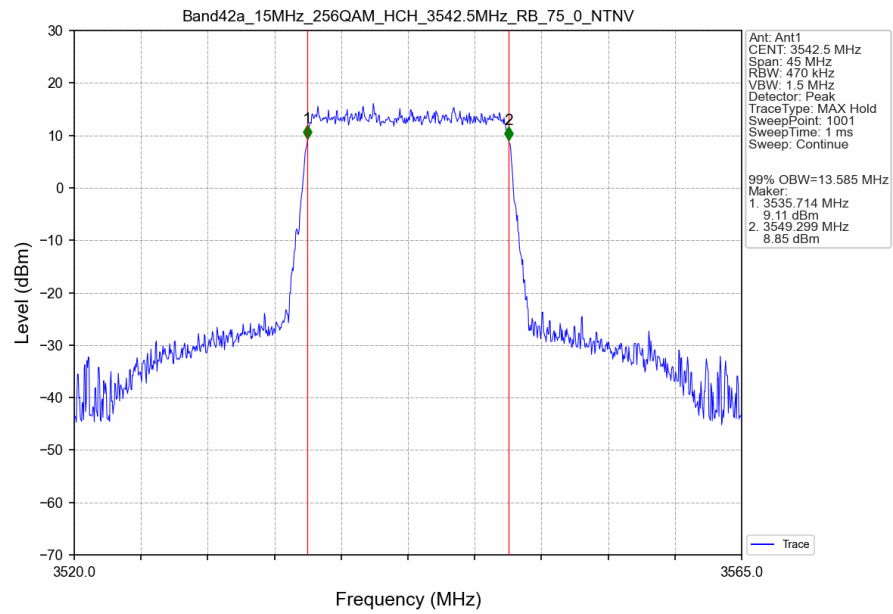
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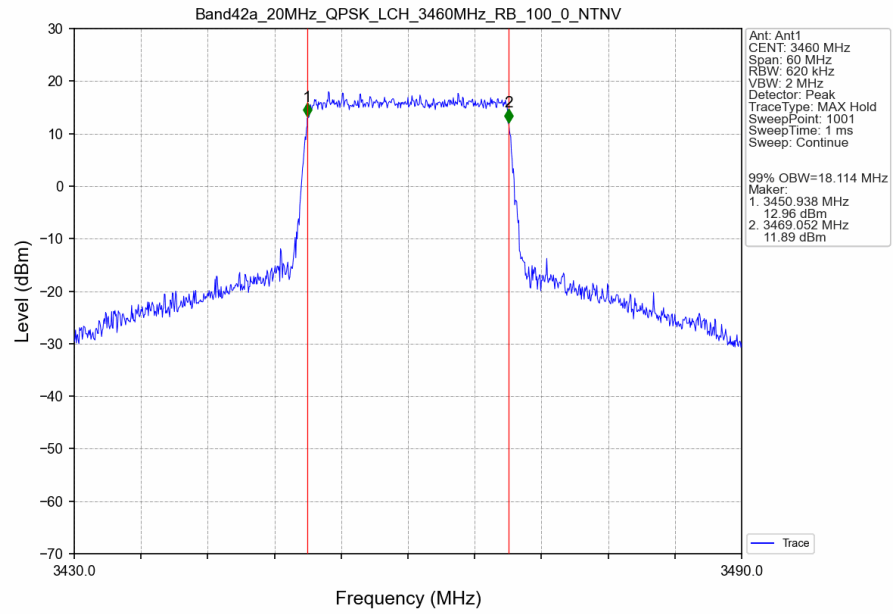
# Band42a\_15MHz\_256QAM\_MCH\_3500MHz\_RB\_75\_0\_NTNV



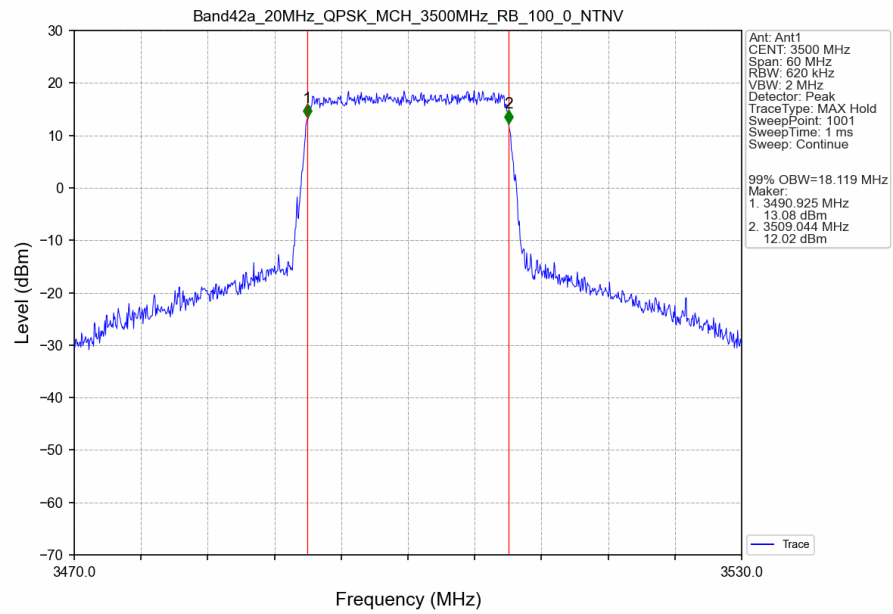
# Band42a\_15MHz\_256QAM\_HCH\_3542.5MHz\_RB\_75\_0\_NTNV



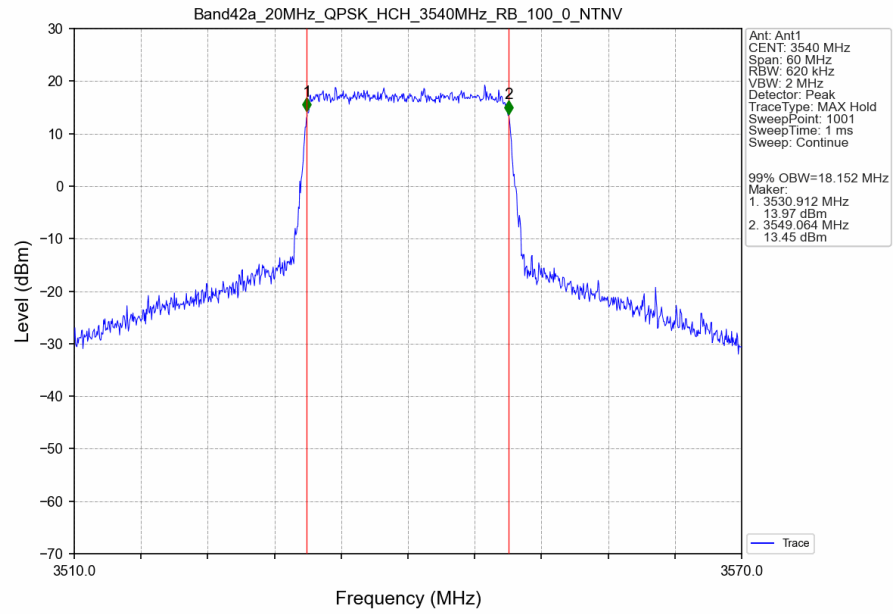
# Band42a\_20MHz\_QPSK\_LCH\_3460MHz\_RB\_100\_0\_NTNV



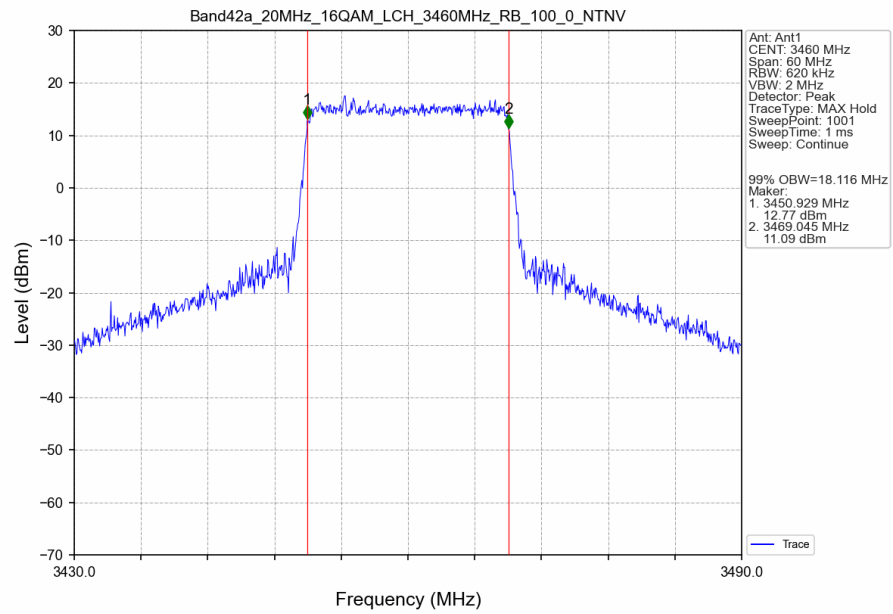
# Band42a\_20MHz\_QPSK\_MCH\_3500MHz\_RB\_100\_0\_NTNV



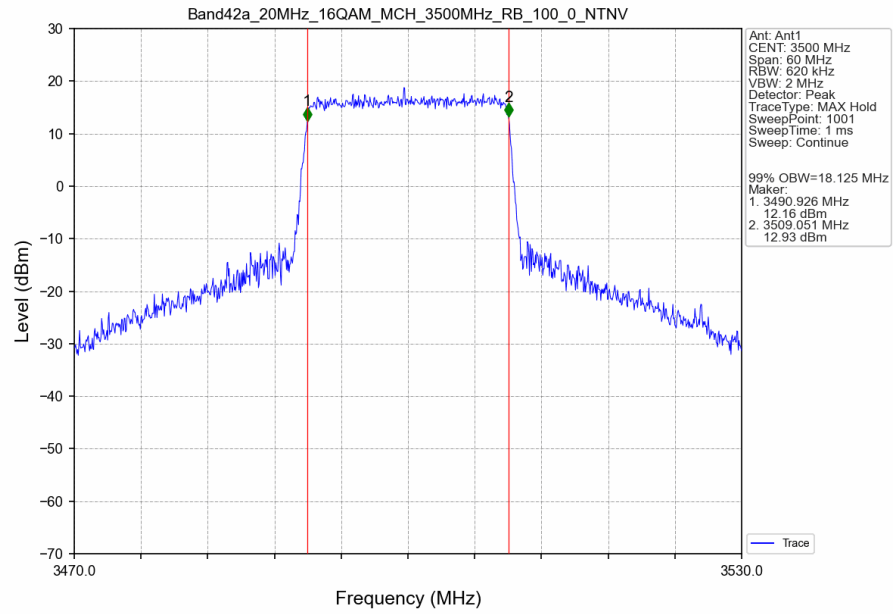
# Band42a\_20MHz\_QPSK\_HCH\_3540MHz\_RB\_100\_0\_NTNV



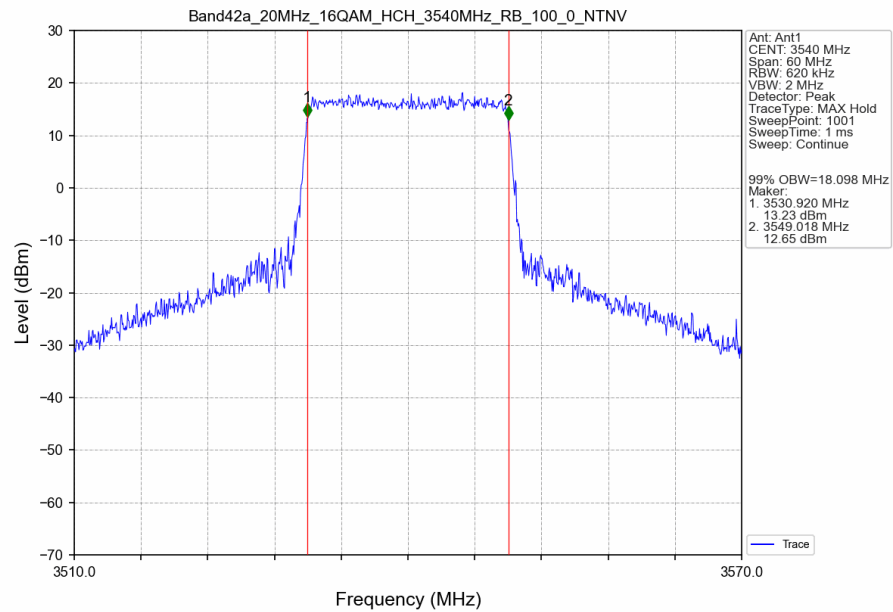
# Band42a\_20MHz\_16QAM\_LCH\_3460MHz\_RB\_100\_0\_NTNV



# Band42a\_20MHz\_16QAM\_MCH\_3500MHz\_RB\_100\_0\_NTNV

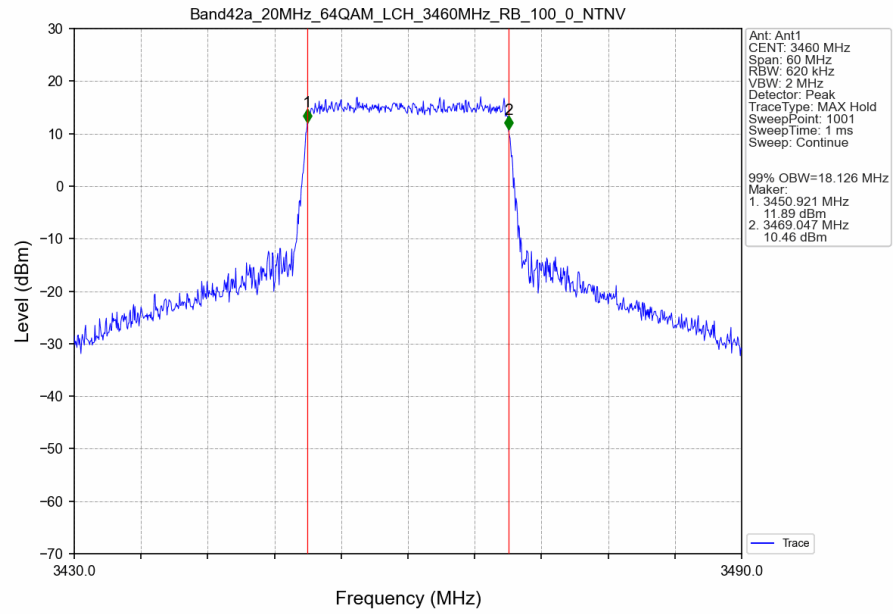


# Band42a\_20MHz\_16QAM\_HCH\_3540MHz\_RB\_100\_0\_NTNV

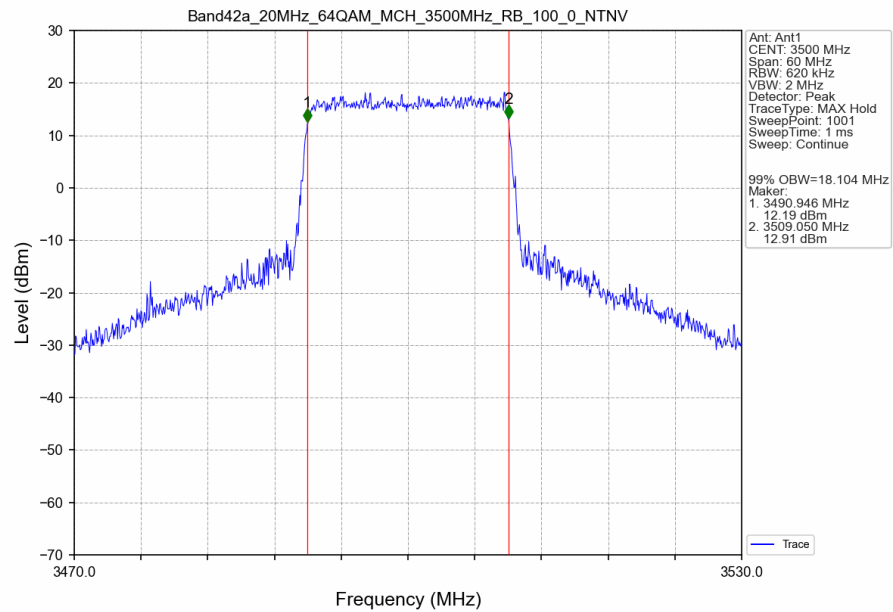




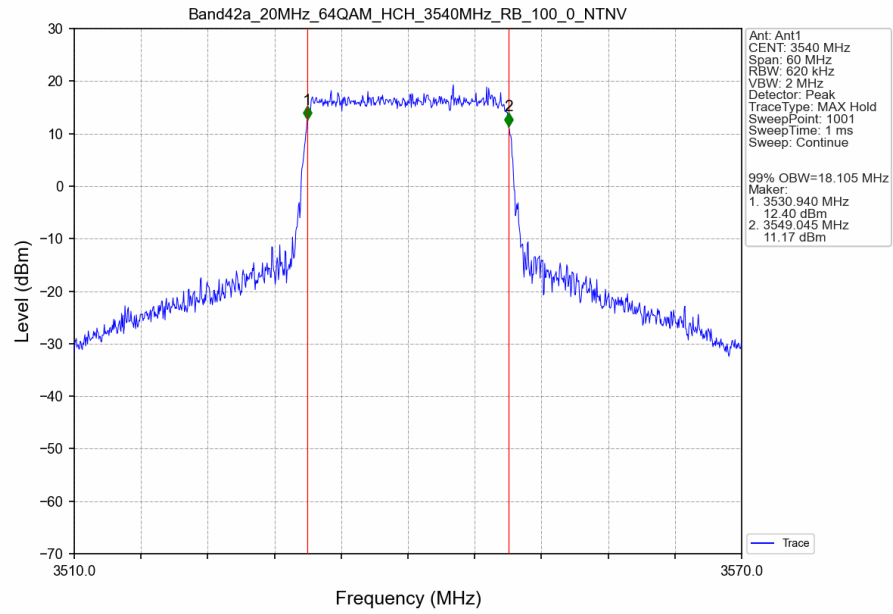
# Band42a 20MHz 64QAM LCH 3460MHz RB 100 0 NTN



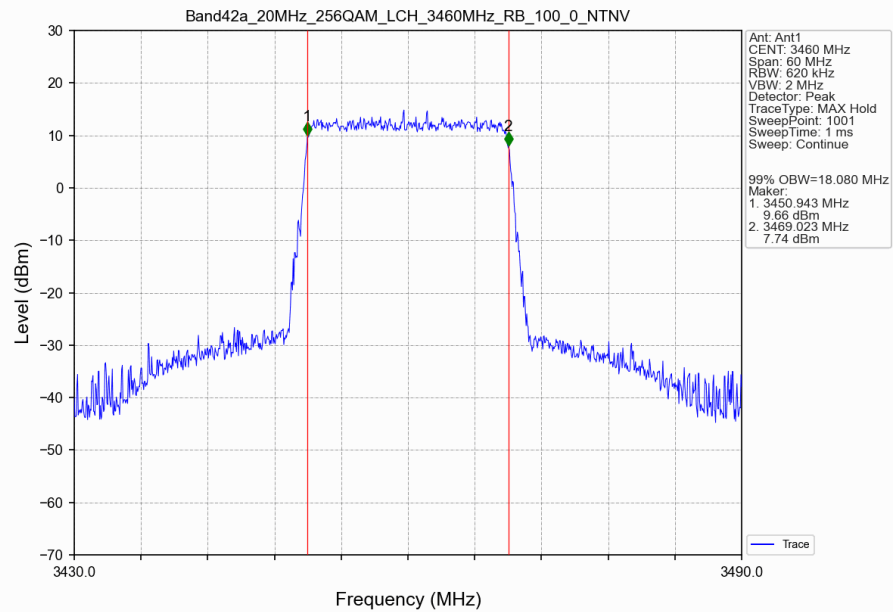
# Band42a 20MHz 64QAM MCH 3500MHz RB 100 0 NTN



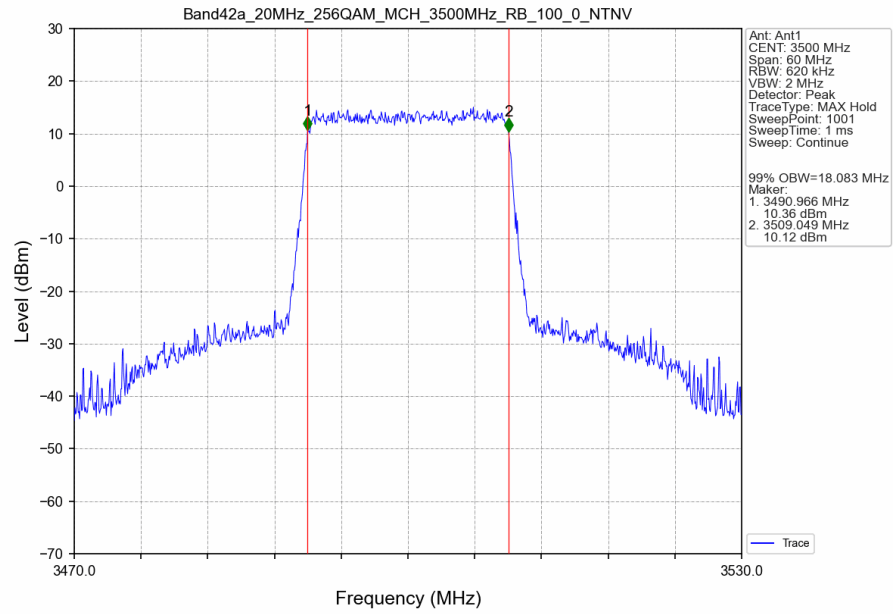
# Band42a\_20MHz\_64QAM\_HCH\_3540MHz\_RB\_100\_0\_NTNV



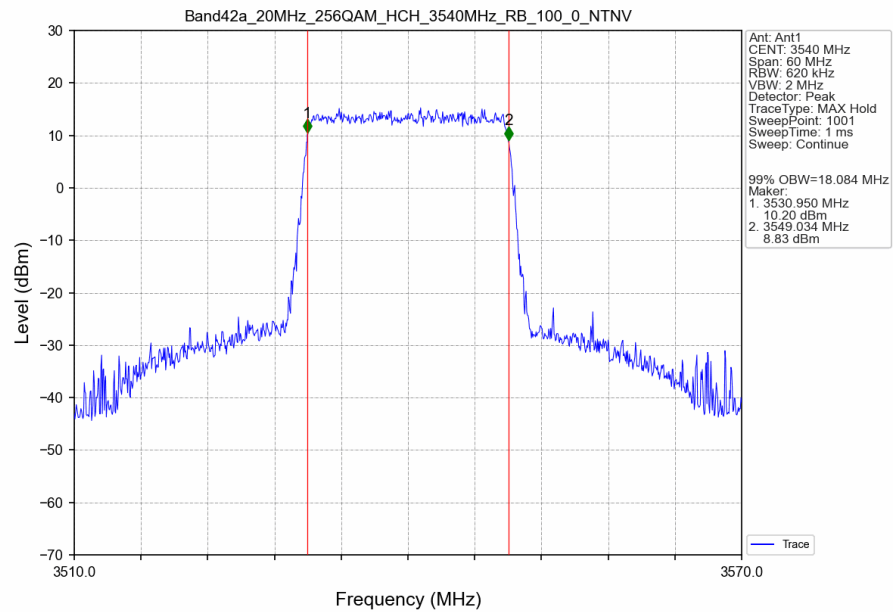
# Band42a\_20MHz\_256QAM\_LCH\_3460MHz\_RB\_100\_0\_NTNV



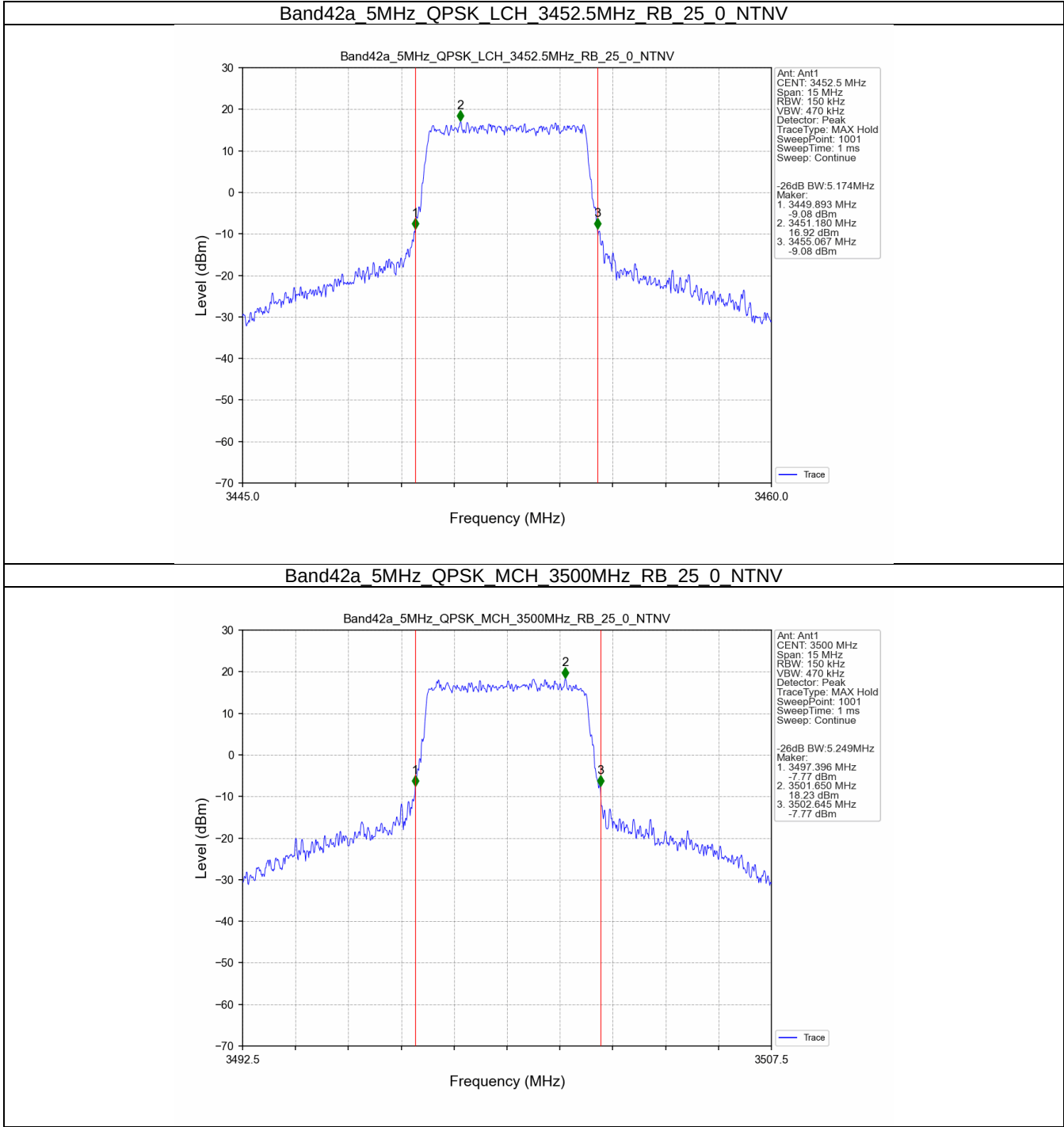
# Band42a\_20MHz\_256QAM\_MCH\_3500MHz\_RB\_100\_0\_NTNV



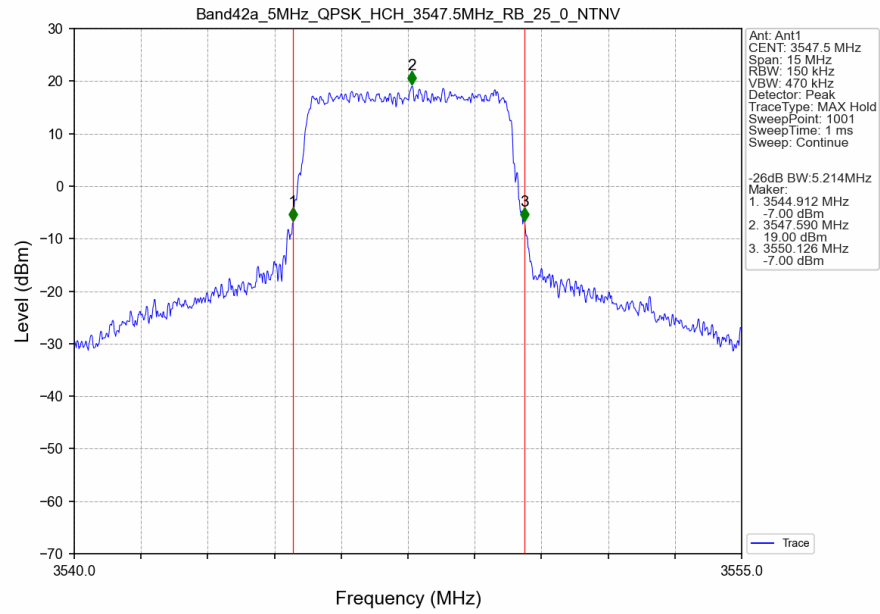
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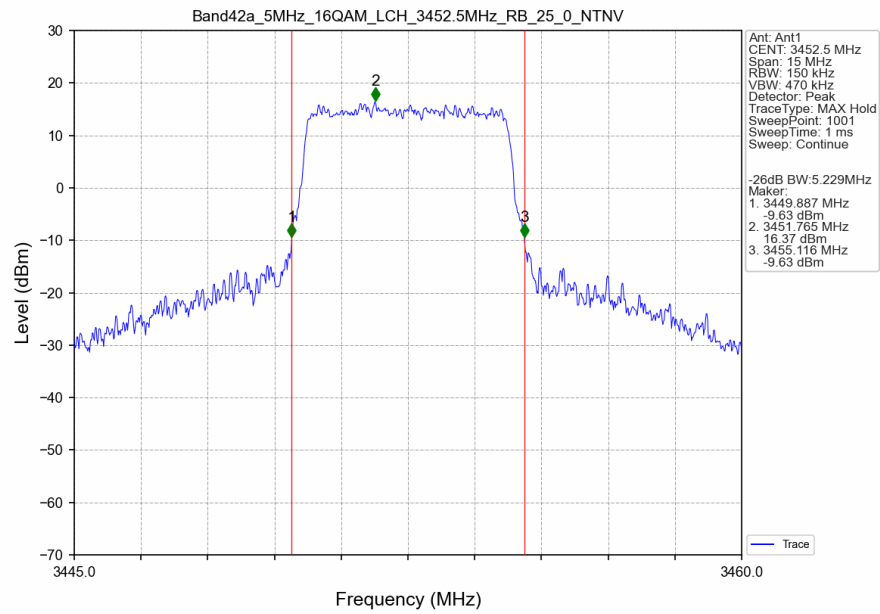
3.2.2 Band42a\_XDB



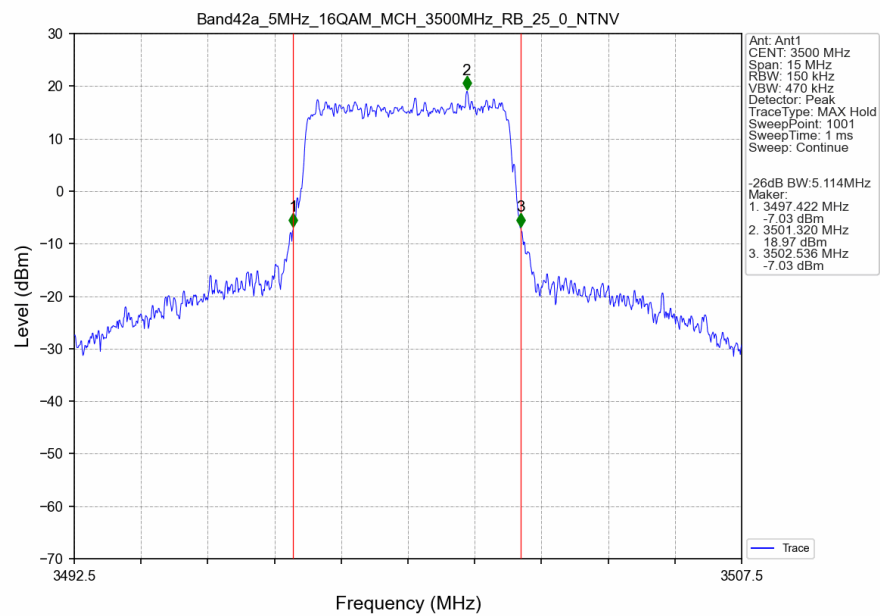
# Band42a\_5MHz\_QPSK\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



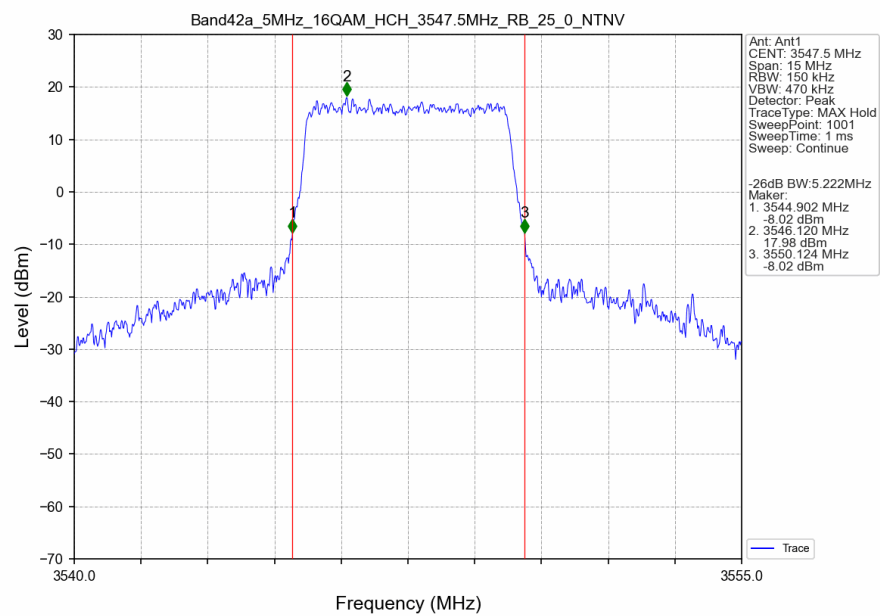
# Band42a\_5MHz\_16QAM\_LCH\_3452.5MHz\_RB\_25\_0\_NTNV



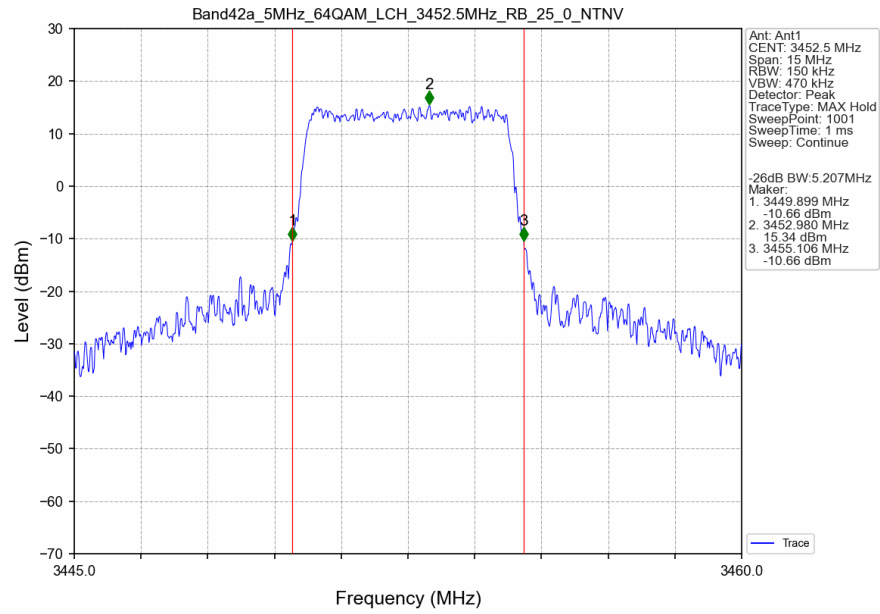
# Band42a 5MHz 16QAM MCH 3500MHz RB 25 0 NTNV



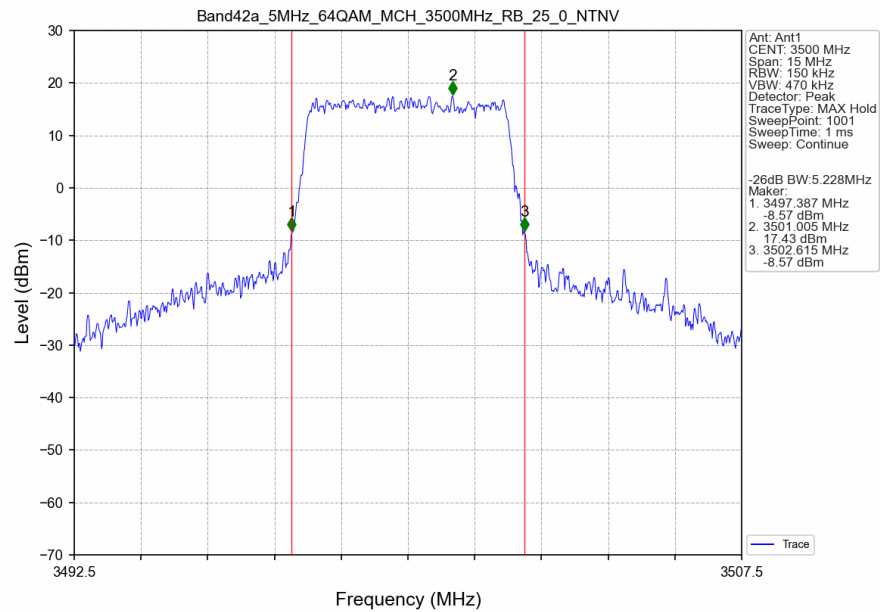
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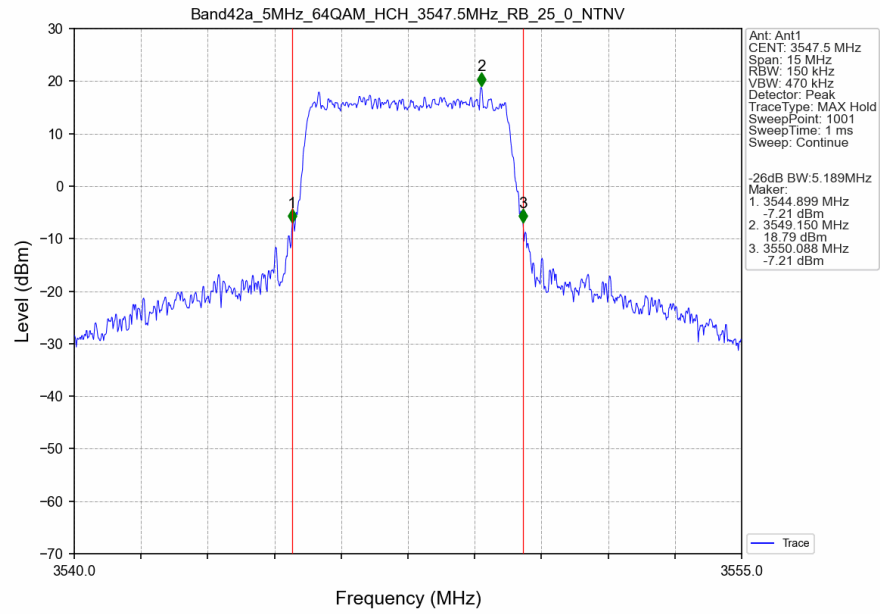
# Band42a\_5MHz\_64QAM\_LCH\_3452.5MHz\_RB\_25\_0\_NTNV



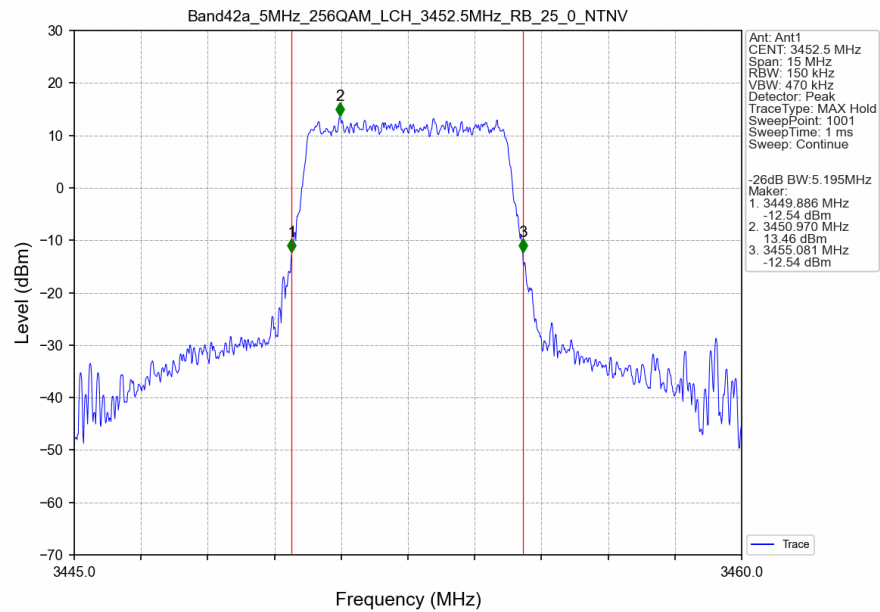
# Band42a\_5MHz\_64QAM\_MCH\_3500MHz\_RB\_25\_0\_NTNV



# Band42a\_5MHz\_64QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV

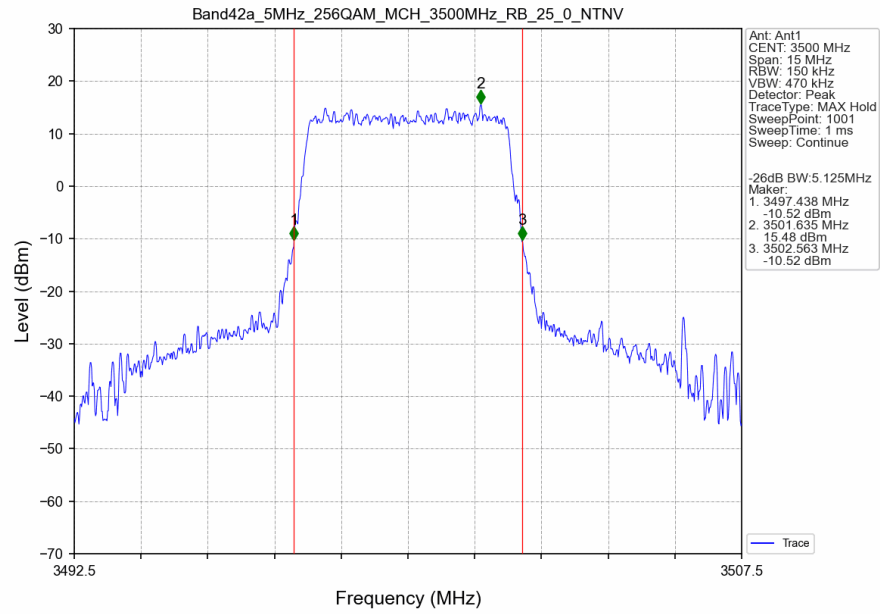


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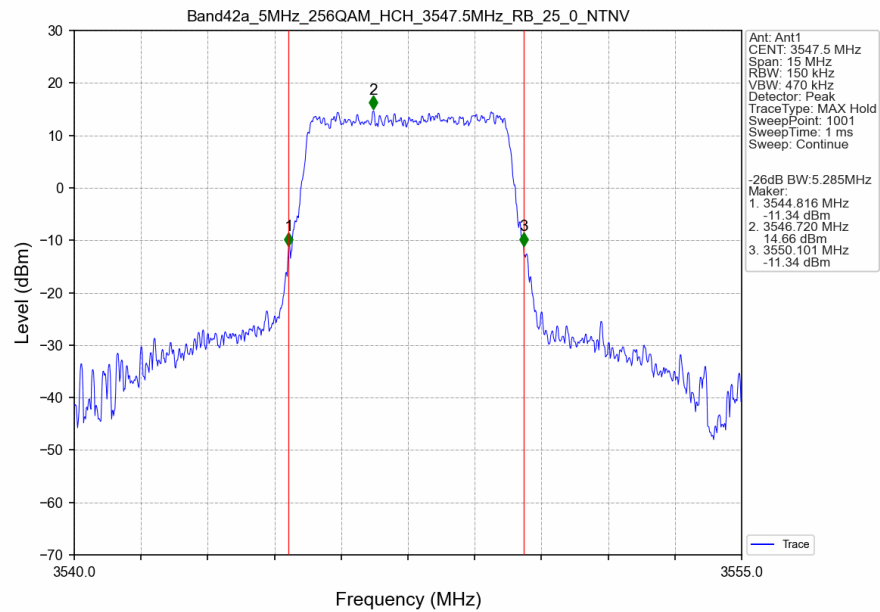




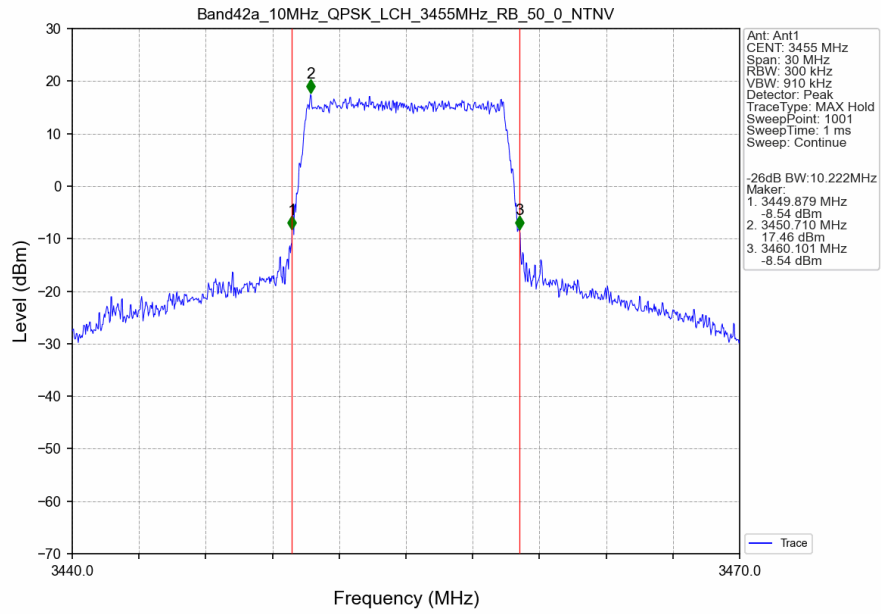
# Band42a\_5MHz\_256QAM\_MCH\_3500MHz\_RB\_25\_0\_NTNV



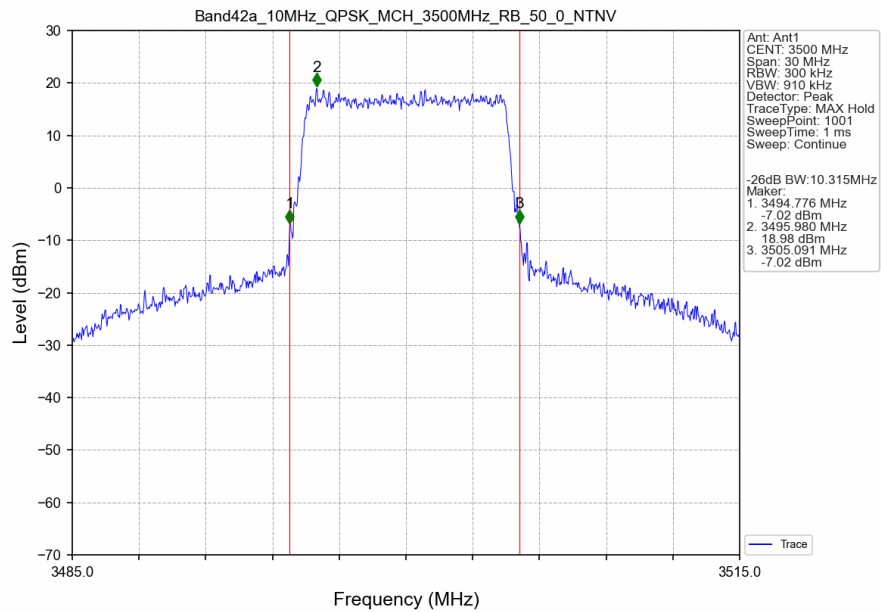
# Band42a\_5MHz\_256QAM\_HCH\_3547.5MHz\_RB\_25\_0\_NTNV



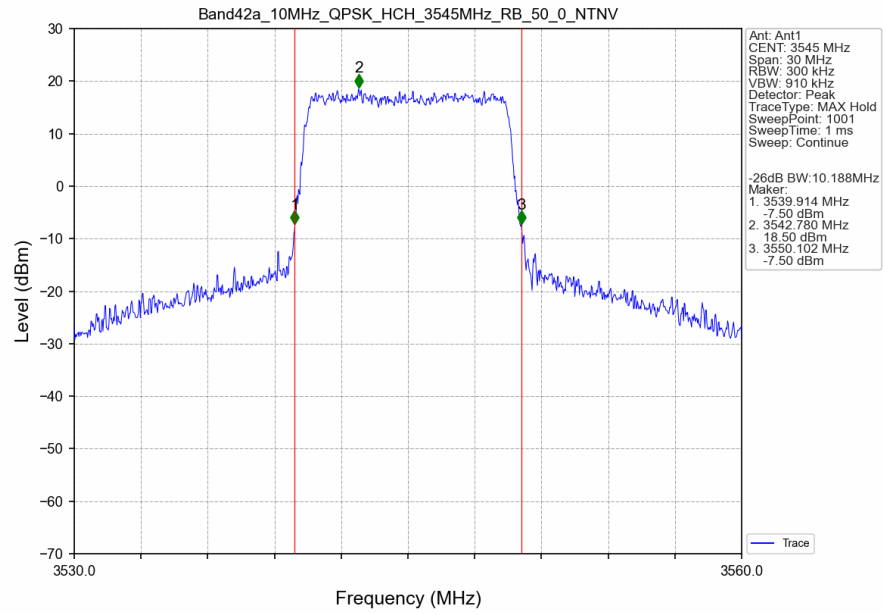
# Band42a 10MHz QPSK LCH 3455MHz RB 50 0 NTN



# Band42a 10MHz QPSK MCH 3500MHz RB 50 0 NTN



# Band42a\_10MHz\_QPSK\_HCH\_3545MHz\_RB\_50\_0\_NTNV



# Band42a\_10MHz\_16QAM\_LCH\_3455MHz\_RB\_50\_0\_NTNV

